

4 September 2018

Mr. Joshua Haugh
Division of Environmental Remediation
New York State Department of Environmental Conservation
1130 N. Westcott Road
Schenectady, New York 12306-2014

RE: Summary of Phase I Remedial Investigation Results
Contract/Work Assignment No: D007624-38
Admiral Cleaners, Watervliet, New York
Site No. 401075

Dear Mr. Haugh:

This letter provides a draft summary of analytical results for samples collected during field activities at the Admiral Cleaners Site (No. 401075) in the City of Watervliet, Albany County, New York (**Figure 1**). EA Engineering, P.C. and its affiliate EA Science and Technology (EA) completed Phase I field activities as described in the Remedial Investigation/Feasibility Study Letter Work Plan.¹

EA completed soil vapor intrusion sampling in December 2017 and March 2018. Air canisters were shipped to Eurofins Air Toxics located in Folsom, California. Eurofins Air-Toxics is an approved Environmental Laboratory Analytical Program certified laboratory for analysis of volatile organic compounds (VOCs) to be analyzed via Methods TO-15 and TO-15 Select Ion Monitoring (SIM). A summary of indoor ambient air analytical results and sub-slab soil vapor analytical results from the December 2017 sampling is provided in **Tables 1 and 2**. A summary of indoor ambient air analytical results and sub-slab soil vapor analytical results from the March 2018 follow-up sampling event is provided in **Tables 3 and 4**. Sample locations for the December 2017 and March 2018 sampling events are provided in **Figures 1 and 2**, respectively.

In April 2018, EA collected ten surface soil samples from five locations. Samples were submitted to Con-Test Analytical, Inc. (Con-Test) for chemical analysis. Surface soil samples from the 0- to 6-inch interval were analyzed for VOCs by EPA Method 8260C. A summary of detected VOCs and analytes is presented as **Table 5**. Surface soil sample locations are provided as **Figure 3**. Surface soil samples from the 0- to 2-inch interval were analyzed for semi-volatile organic compounds (SVOCs) by U.S. Environmental Protection Agency (EPA) Method 8270D, polychlorinated biphenyls (PCBs) by EPA Method 8082A, pesticides by EPA Method 8081B, and metals (including cyanide and mercury) by EPA Methods 6010C, SW9014, and 7471B. A summary of detected SVOC, PCB, pesticide and metal compounds and analytes is presented in **Table 6**. Soil screening from 6-24 inches was not completed during this investigation phase. During the Phase II investigation, subsurface borings will be screened from 0-12 inches and 12-24 inches bgs and analytical samples will be collected from a subset of locations.

¹EA. 2018. *Remedial Investigation/Feasibility Study Letter Work Plan*. March 22.



Additionally, EA collected two samples of floor drain sediments from floor drains located within the building. The samples were analyzed for VOCs and a summary of detections is provided in **Table 7**.

A geophysical survey was performed in April 2018 by New York Leak Detection, Inc. of Jamesville, New York. In April/May 2018, a total of 21 soil borings were completed by EA's drilling contractor, Aztech Environmental Technologies of Ballston Spa, New York. Boreholes were advanced until refusal using a Geoprobe® 6610DT probe and/or a Geoprobe® 420M. Soil vapor points were installed at four of the monitoring well locations. A summary of soil boring, monitoring well, and soil vapor point construction data and notes are provided in **Table 8**. Soil boring logs are provided in **Attachment 1**. During outdoor intrusive activities (e.g., soil borings/direct push, monitoring well installation, etc.) at the site, a Community Air Monitoring Plan (CAMP) was in place.

EA collected 23 subsurface soil samples from the 20 boring locations. Subsurface soil sample locations are provided as **Figure 4**. Samples were submitted to Con-Test for chemical analysis. All samples were analyzed for VOCs by EPA Method 8260C. A summary of detected samples of detected VOCs and analytes in subsurface soil is presented in **Table 9**. Subsurface soil sample locations and detections for PCE and related compounds for samples collected from beneath the Admiral Cleaners building are presented in **Figure 5a**. Locations and detections for PCE and related compounds for samples collected at outdoor locations are presented in **Figure 5b**. Vinyl Chloride, another PCE daughter product, was not detected in any of the subsurface soil samples. Additionally, twenty samples were analyzed for SVOCs by EPA Method 8270D, PCBs by EPA Method 8082A, and metals (including cyanide and mercury) by EPA Methods 6010C, SW9014, and 7471B. A subset of three samples were analyzed for pesticides by EPA Method 8081B. A summary of detected SVOC, PCB, metals, and pesticide compounds and analytes in subsurface soil samples are provided in **Table 10**.

EA collected groundwater grab samples from five soil borings. Samples were submitted to Con-Test for chemical analysis for VOCs by EPA Method 8260C. A summary of detected compounds in groundwater grab samples is provided in **Table 11**. EA also collected one sample which exhibited characteristics of non-aqueous phase liquid. This sample was analyzed for total petroleum hydrocarbons by EPA Method 8015C and VOCs by EPA Method 8260C. A summary of detections for this sample are included in **Table 12**.

In May 2018, EA collected a soil gas sample from one soil vapor point, SVP-04 in May 2018. The soil vapor sample and field duplicate were submitted to Air-Toxics and analyzed for VOCs by Method TO-15. A summary of detected VOCs for soil gas is presented in **Table 13**. Soil vapor point locations are also presented in **Figure 4**. Samples were not collected from SVP-01 and SVP-02 due to water infiltration into the soil vapor sample canisters. No air was drawn into the sample canister at SVP-03 for the duration of the four-hour sampling period.

In May 2018, EA collected seven groundwater samples from 1-inch groundwater monitoring wells. Groundwater samples were submitted to Con-Test for chemical analysis of VOCs by EPA Method 8260C. A summary of detected VOCs in groundwater is presented in **Table 14**. Several groundwater monitoring wells did not produce sufficient volume for the remaining full-suite analyses. Six samples were analyzed for SVOCs by EPA Method 8270D. Four samples were



analyzed for pesticides by EPA Method 8081, PCBs by EPA Method 8082A, and metals by EPA Method 6010. A summary of detected analytes and compounds for these methods is provided in **Table 15**. Sample locations for groundwater monitoring wells, including exceedances for VOCs in groundwater and interpolated groundwater elevation contours, are presented as **Figure 6**. Groundwater elevation contours were also interpolated from depths to groundwater collected in July 2018 following the survey. The groundwater elevation measurement from MW-07 was used for the surface interpolations, however it may be an anomaly. The bottom of the MW-07 casing is at 6.32 ft bgs while refusal was encountered at approximately 13 ft bgs. The boring opening collapsed during well installation. The groundwater elevation at this location may not be representative of the subsurface conditions across the site.

Analytical results and field photoionization detector screening results indicate that the greatest VOCs impacts are observed in subsurface soil samples at depths greater than 5 feet below ground surface and in groundwater. Groundwater surface elevations were interpolated using depths to water gauged at the newly installed monitoring wells and indicate that the direction of local groundwater flow may be in a southwesterly direction from the northern or northeastern portion of the parcel. However, the area is generally flat and differences in groundwater elevation may be the result of sporadic fill material or the location of bedrock. The greatest concentrations of VOCs are observed in subsurface soil and groundwater around the suspected disposal area, in the northern portion of the parcel, and in the areas just south and southwest of the suspected disposal area (below the northern half of the Admiral Cleaners structure).

Analytical results for soil and groundwater samples are provided as **DRAFT** only and have not been validated by an independent third party. Validated analytical data reports are provided for soil vapor samples and laboratory analytical data reports for soil and groundwater samples are provided as **Attachment 2**. Proposed locations for Phase II groundwater monitoring wells are provided in **Figure 8**.

Sincerely yours,

EA SCIENCE AND TECHNOLOGY

Christopher Schroer
Project Manager

EA ENGINEERING, P.C.

Donald F. Conan, P.E., P.G.
Contract Manager

Attachment 1 – Soil Boring Logs

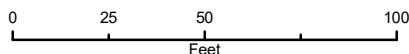
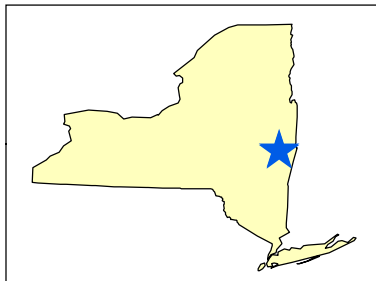
Attachment 2 – Laboratory Analytical Results

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Figures

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Legend

- Admiral Cleaners Site Boundary
- ★ Site Location
- ▲ Indoor Ambient Air Location
- ▲ Outdoor Ambient Air Location
- ▲ Outdoor Ambient Air Location

Figure 1
Remedial Investigation Phase I
Soil Vapor Intrusion Evaluation
Sample Locations (December 2017)

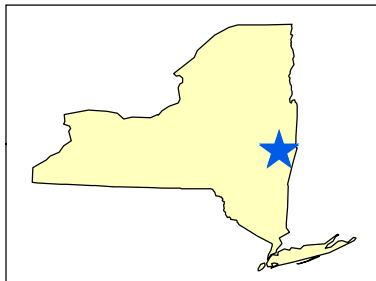
Admiral Cleaners
 Watervliet, Albany County, NY

Map Date: 8/29/2018
 Projection: NAD 1983 State Plane New York
 East FIPS 3101 Feet



Department of
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 Conservation





0 25 50 100
Feet

Legend

- Admiral Cleaners Site Boundary
- ★ Site Location
- ▲ Indoor Ambient Air Location
- ▲ Outdoor Ambient Air Location
- ▲ Sub-Slab Sample Location

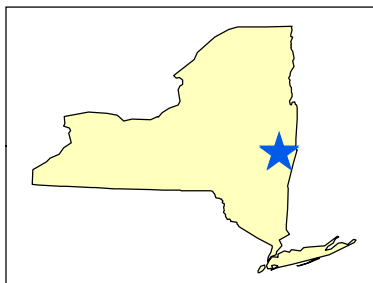
Figure 2
Remedial Investigation Phase I
Soil Vapor Intrusion Evaluation
Sample Locations (March 2018)
Admiral Cleaners
Watervliet, Albany County, NY

Map Date: 8/29/2018
Projection: NAD 1983 State Plane New York
East FIPS 3101 Feet



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STATE
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Environmental
Conservation





0 10 20 40
Feet

Legend

-  Admiral Cleaners Site Boundary
-  Site Location
-  Surface Soil Sample Locations
-  FloorDrainSamples

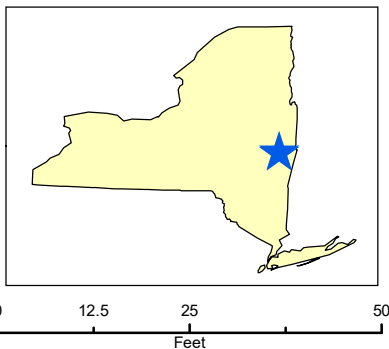
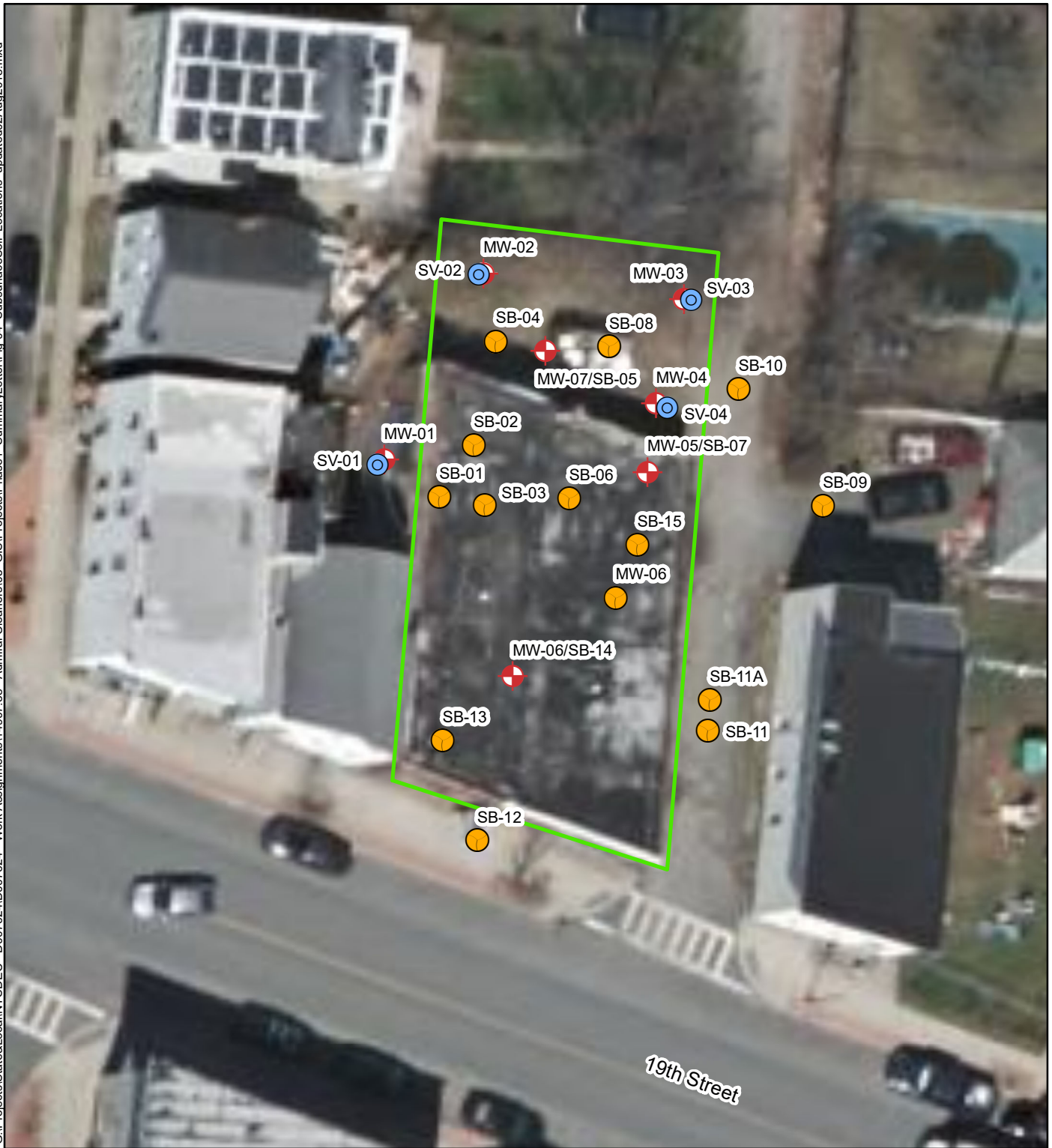
Figure 3
Remedial Investigation Phase I
Surface Soil Sample Locations
Admiral Cleaners
Watervliet, Albany County, NY

Map Date: 8/29/2018
Projection: NAD 1983 State Plane New York
East FIPS 3101 Feet



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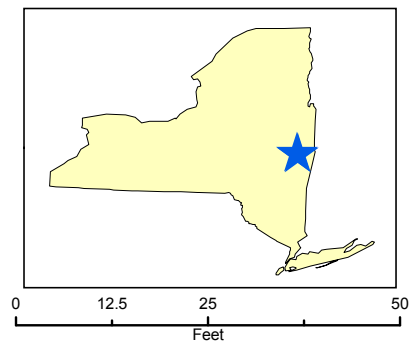
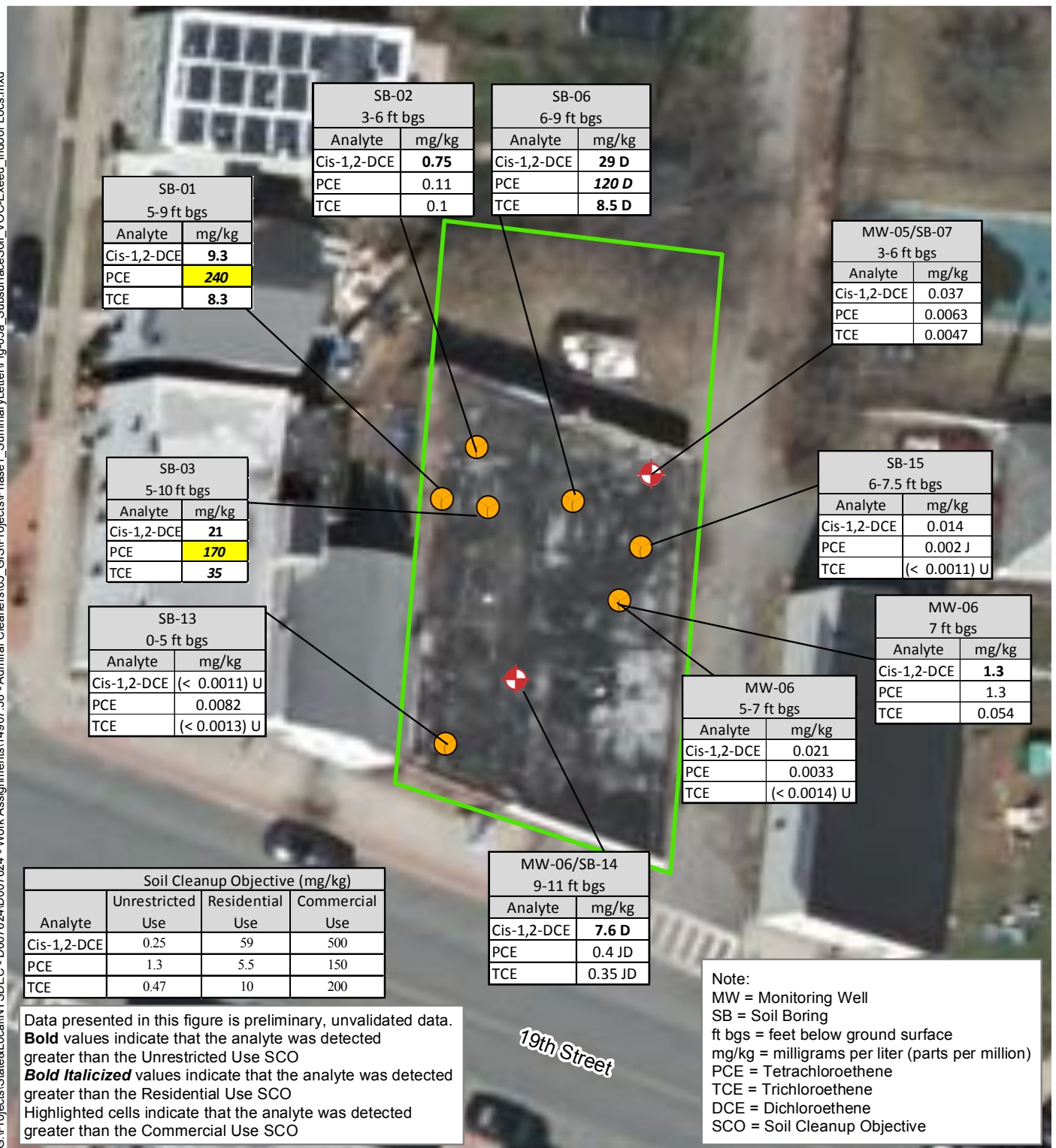
Legend

- Admiral Cleaners Site Boundary
- ★ Site Location
- Soil Boring Only Locations
- ⊕ Monitoring Well Locations
- ⊕ Soil Vapor Point Locations

Figure 4
Remedial Investigation Phase I
Soil Boring, Monitoring Well, and
Soil Vapor Point Locations
 Admiral Cleaners
 Watervliet, Albany County, NY

Map Date: 8/29/2018
 Projection: NAD 1983 State Plane New York
 East FIPS 3101 Feet





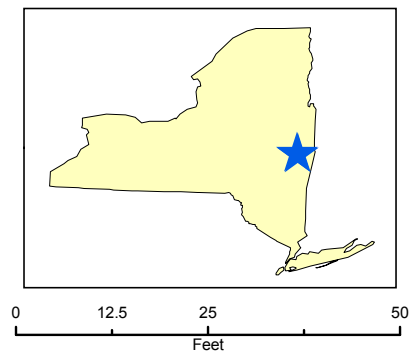
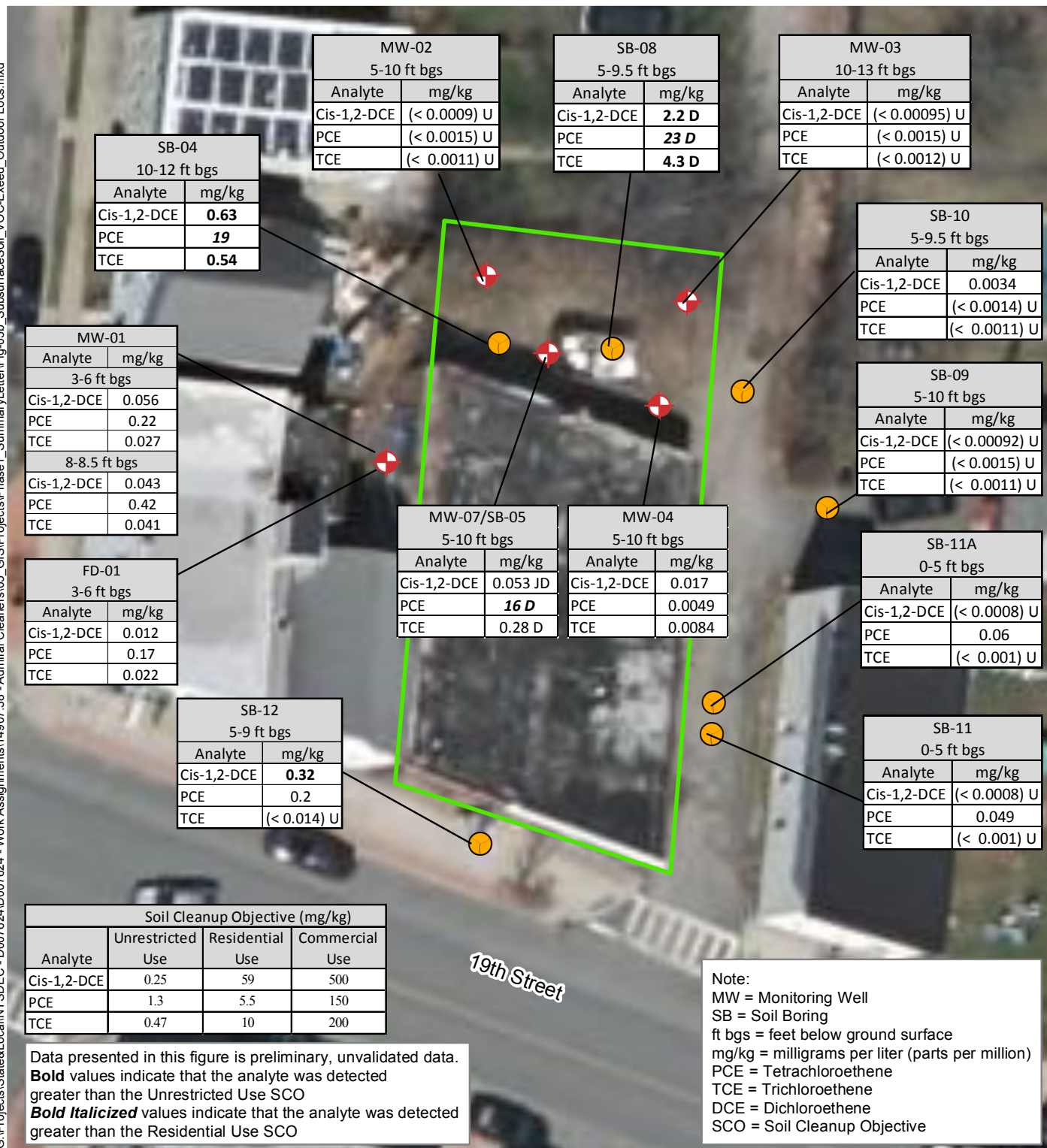
Legend

- Admiral Cleaners Site Boundary
- ★ Site Location
- Soil Boring Only Locations
- ⊕ Monitoring Well Locations

Figure 5a
Remedial Investigation Phase I
Subsurface Soil VOC Detections -
Indoor Soil Boring Locations
 Admiral Cleaners
 Watervliet, Albany County, NY

Map Date: 9/4/2018
 Projection: NAD 1983 State Plane New York
 East FIPS 3101 Feet





Legend

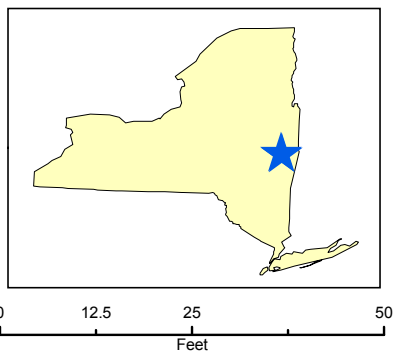
- Admiral Cleaners Site Boundary
- ★ Site Location
- Soil Boring Only Locations
- ⊕ Monitoring Well Locations

NOTE: Data presented in this figure is preliminary, unvalidated data.

Figure 5b
Remedial Investigation Phase I
Subsurface Soil VOC Detections -
Outdoor Soil Boring Locations
 Admiral Cleaners
 Watervliet, Albany County, NY

Map Date: 9/4/2018
 Projection: NAD 1983 State Plane New York
 East FIPS 3101 Feet





Legend

- Admiral Cleaners Site Boundary
- ★ Site Location
- ⊕ Groundwater Monitoring Well
- Inferred Groundwater Elevation Contour
- Interpolated Groundwater Elevation Contour
- Groundwater Flow Direction

Figure 6
Remedial Investigation Phase I
VOC Exceedances in Groundwater
Temporary Groundwater Monitoring Wells
May 2018

Admiral Cleaners
 Watervliet, Albany County, NY

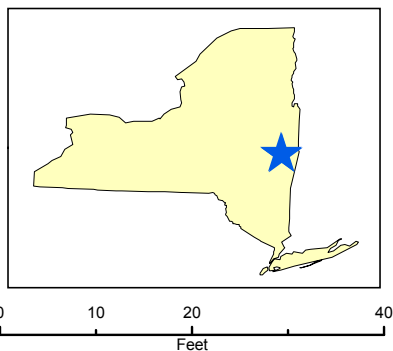
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 East FIPS 3101 Feet

NOTE: Data presented in this figure is preliminary, unvalidated data.



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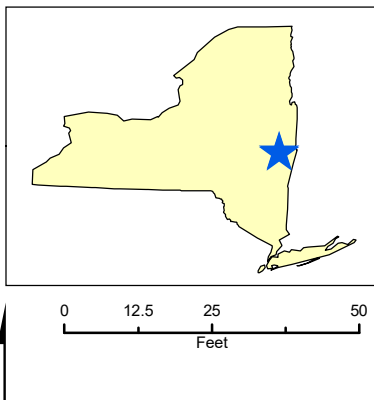
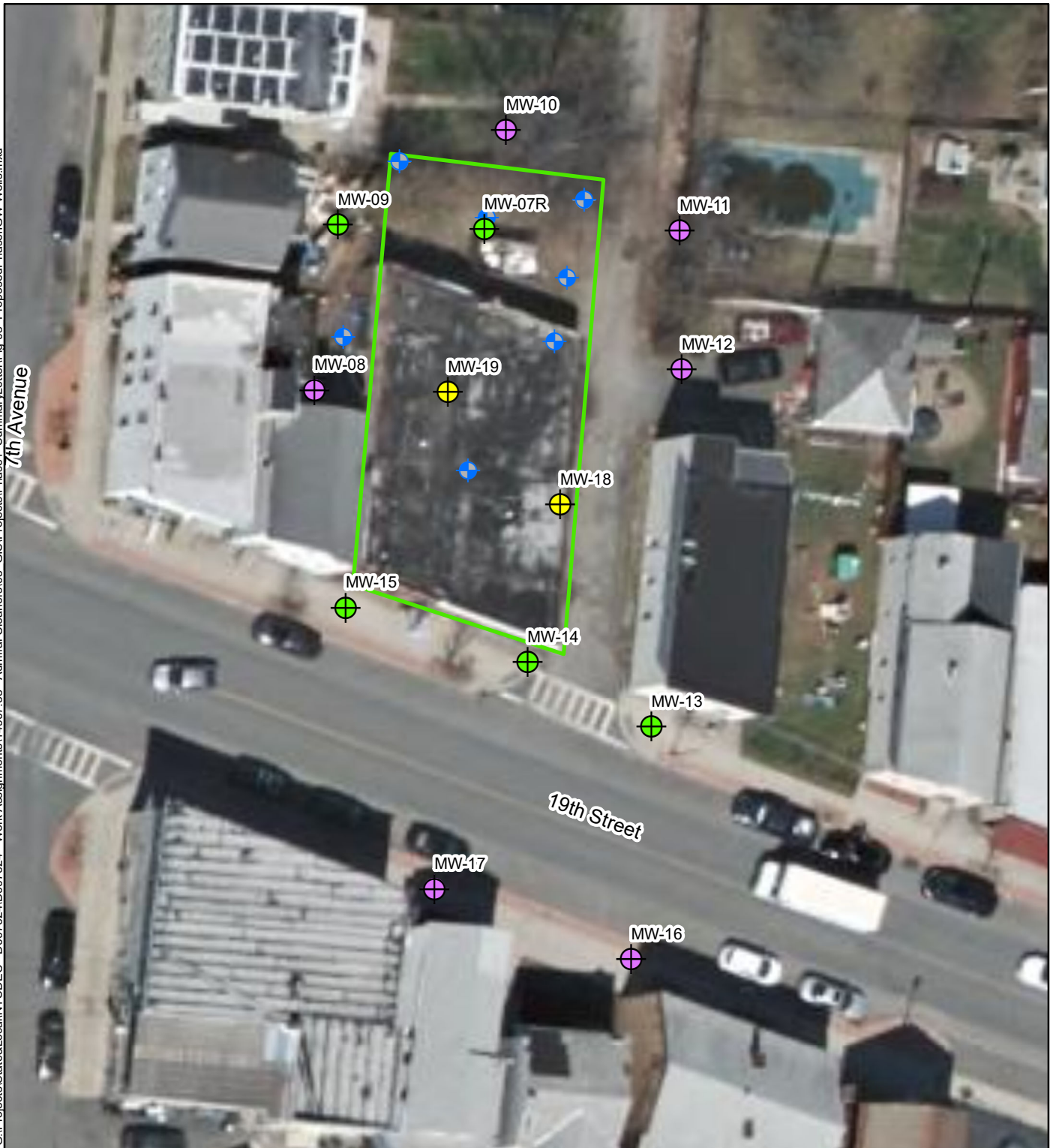
Legend

- Admiral Cleaners Site Boundary
- ★ Site Location
- ⊕ Groundwater Monitoring Well
- Inferred Groundwater Elevation Contour
- Interpolated Groundwater Elevation Contour
- Approximate Groundwater Flow Direction

Figure 7
Remedial Investigation Phase I
Groundwater Elevation Contours
Temporary Groundwater Monitoring Wells
July 2018

Admiral Cleaners
 Watervliet, Albany County, NY

Map Date: 8/31/2018
 Projection: NAD 1983 State Plane New York
 East FIPS 3101 Feet



Legend

- Admiral Cleaners Site Boundary
- ★ Site Location
- ⊕ Existing Groundwater Monitoring Well
- ⊕ 2-Inch Well Location
- ⊕ 1-Inch Well Location
- ⊕ 2-Inch Well (Phase III/TBD)

Figure 8 Remedial Investigation Phase I Proposed Phase II Groundwater Monitoring Wells

Admiral Cleaners
Watervliet, Albany County, NY

Map Date: 8/29/2018
Projection: NAD 1983 State Plane New York
East FIPS 3101 Feet



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Tables



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Table 1 Summary of Detected VOCs in Indoor and Outdoor Air, December 2017

Analyte	Building	Structure 01				Structure 02		Structure 03		Structure 04		Structure 05								NYSDOH Ambient Air Quality Guideline ¹	NYSDOH Ambient Air Quality Recommended Immediate Action Level ²
	Sample ID	401075-IA-01A	401075-IA-01B	401075-IA-02	401075-IA-03	401075-IA-04	401075-IA-05-B	401075-FD	401075-IA-05-F1	401075-IA-05-F2											
	Laboratory ID	1712429-06A/B	1712429-07A/B	1712429-09A/B	1712429-01A/B	1712429-03A	1712430-07A/B	1712430-10A/B	1712430-08A/B	1712430-09A/B											
	Room	Basement	Basement	Basement	Basement	Basement	Basement	Basement-Dup	1st Floor Foyer	2nd Floor Daycare											
	Sample Date	12/12/2017	12/12/2017	12/12/2017	12/12/2017	12/12/2017	12/13/2017	12/13/2017	12/13/2017	12/13/2017											
	Sample Type	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air											
VOCs (TO15)																					
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/m ³	(< 0.13)	U	(< 0.12)	U	(< 0.12)	U	(< 0.29)	U	(< 0.29)	U	(< 0.11)	U	(< 0.12)	U	(< 0.12)	U	(< 0.1)	U	--	--
1,2,4-Trimethylbenzene	µg/m ³	(< 0.18)	U	(< 0.17)	U	(< 0.17)	U	(< 0.084)	U	(< 0.084)	U	(< 0.16)	U	(< 0.17)	U	(< 0.17)	U	(< 0.14)	U	--	--
1,3-Butadiene	µg/m ³	(< 0.06)	U	(< 0.058)	U	(< 0.056)	U	(< 0.085)	U	(< 0.085)	U	0.75		0.73		(< 0.058)	U	(< 0.047)	U	--	--
4-Ethyltoluene	µg/m ³	(< 0.19)	U	(< 0.18)	U	(< 0.18)	U	(< 0.11)	U	(< 0.11)	U	(< 0.17)	U	(< 0.18)	U	(< 0.18)	U	(< 0.15)	U	--	--
Acetone	µg/m ³	15		19		9.5		9.4		3.2		6.8		8.1		450	J	72		--	--
Carbon Tetrachloride	µg/m ³	0.44		0.44		0.44		0.38		0.40		0.44		(< 0.058)	U	0.44		0.46		--	--
Chloroform	µg/m ³	(< 0.075)	U	(< 0.072)	U	(< 0.07)	U	(< 0.12)	U	(< 0.12)	U	(< 0.066)	U	(< 0.07)	U	(< 0.072)	U	1.1		--	--
Dichlorodifluoromethane	µg/m ³	2.5		2.2		2		2.4		2.3		1.8		2		1.9		2		--	--
Ethanol	µg/m ³	62		86		40		34		17		1.9		2.7		63		200	J	--	--
Isopropanol	µg/m ³	5.8		7.9		2.9		15		(< 0.18)	U	(< 0.065)	U	(< 0.069)	U	(< 0.071)	U	17		--	--
Methyl Ethyl Ketone (2-Butanone)	µg/m ³	(< 0.09)	U	3.5		(< 0.084)	U	(< 0.26)	U	(< 0.26)	U	(< 0.079)	U	(< 0.084)	U	(< 0.086)	U	2.2		--	--
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	µg/m ³	0.87		(< 0.26)	U	(< 0.25)	U	(< 0.095)	U	(< 0.095)	U	(< 0.24)	U	(< 0.25)	U	(< 0.26)	U	(< 0.21)	U	--	--
N-Heptane	µg/m ³	(< 0.069)	U	0.86		0.74		(< 0.44)	U	(< 0.44)	U	(< 0.061)	UJ	3.4	J	6.1		3.1		--	--
N-Hexane	µg/m ³	1		1.5		1.2		(< 0.092)	U	(< 0.092)	U	(< 0.11)	UJ	3.4	J	1.7		2.9		--	--
Trichlorofluoromethane	µg/m ³	1.3		1.3		1.4		1		1.2		1.3		1.2		1.6		1.6		--	--
VOCs (TO15 SIM)																					
1,1-Dichloroethene	µg/m ³	(< 0.0051)	U	(< 0.0049)	U	(< 0.0047)	U	(< 0.01)	U	(< 0.01)	U	(< 0.0045)	U	(< 0.0047)	U	(< 0.0049)	U	(< 0.0039)	U	--	--
1,2-Dichloroethane	µg/m ³	(< 0.0046)	U	(< 0.0044)	U	(< 0.0043)	U	(< 0.0094)	U	(< 0.0094)	U	(< 0.0041)	U	(< 0.0043)	U	0.22		0.22		--	--
Benzene	µg/m ³	0.76		0.75		0.75		0.54		0.59		18		18		3.2		2.5		--	--
Cis-1,2-Dichloroethylene	µg/m ³	(< 0.0061)	U	(< 0.0059)	U	(< 0.0057)	U	(< 0.008)	U	(< 0.008)	U	(< 0.0054)	U	(< 0.0057)	U	(< 0.0059)	U	(< 0.0047)	U	--	--
Ethylbenzene	µg/m ³	0.25		0.25		0.25		(< 0.01)	U	(< 0.01)	U	0.16		0.18		0.16		0.54		--	--
M,P-Xylene (Sum Of Isomers)	µg/m ³	0.85		0.78		0.81		0.35		0.29		0.44		0.44		0.51		1.7		--	--
O-Xylene (1,2-Dimethylbenzene)	µg/m ³	0.32		0.29		0.29		0.15		(< 0.011)	U	0.17		0.18		0.19		0.62		--	--
Tetrachloroethylene (PCE)	µg/m ³	0.59		0.52		1		0.27		0.36		4.7		4.7		0.77		1.2		30	300
Toluene	µg/m ³	1.8		1.8		1.3		1		0.62		1		1		0.91		4.7		--	--
Trichloroethylene (TCE)	µg/m ³	(< 0.056)	U	(< 0.054)	U	(< 0.052)	U	(< 0.0081)	U	(< 0.0081)	U	(< 0.049)	U	(< 0.052)	U	(< 0.054)	U	(< 0.043)	U	2	20
¹ NYSDOH Ambient Air Guidelines and Immediate Action Levels based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013 and August 2015. ² NYSDOH Immediate Action Levels for TCE and PCE based on NYSDOH Soil Vapor Intrusion Updates dated September 2013 and August 2015. NOTES: ID = Identification NYSDEC = New York State Department of Environmental Conservation NYSDOH = New York State Department of Health VOC = Volatile organic compound µg/m3 = Micrograms per cubic meter = parts per billion J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. U = Indicates the analyte was not detected greater than the laboratory reporting limit. Analytical data results provided by Eurofins Air Toxics, Inc. Bold values indicated that the analyte was detected greater than the NYSDOH Ambient Air Guidelines Shaded Cells indicate that the analyte was detected at a concentration greater than the NYSDOH Recommended Immediate Action Level DUPLICATE sample was collected at 401075-IA-05-B-0318																					

Table 1 Summary of Detected VOCs in Indoor and Outdoor Air, December 2017

Analyte	Building	Structure 06				Structure 07		Structure 08		Structure 09				Outdoor Air				NYSDOH Ambient Air Quality Guideline ¹	NYSDOH Ambient Air Quality Recommended Immediate Action Level ²
	Sample ID	401075-IA-06-B		401075-IA-06-F1		401075-IA-07		401075-IA-08		401075-IA-09A		401075-IA-09B		401075-OA-03		401075-OA-07			
	Laboratory ID	1712430-12A/B		1712430-06A/B		1712430-01A		1712429-05A		1712430-04A/B		1712430-05A/B		1712430-03A/B		1712430-02A/B			
	Room	Basement		1st Floor		Crawl Space		Basement		Basement - South		Basement - North		Structure 03 Yard		Structure 07 Yard			
	Sample Date	12/13/2017		12/13/2017		12/13/2017		12/12/2017		12/13/2017		12/13/2017		12/13/2017		12/13/2017			
	Sample Type	Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Indoor Air		Outdoor Air			
VOCs (TO15)																			
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/m ³	(< 0.13)	U	(< 0.12)	U	(< 0.094)	U	(< 0.12)	U	1.2		(< 0.11)	U	(< 0.11)	U	(< 0.11)	U	--	--
1,2,4-Trimethylbenzene	µg/m ³	(< 0.17)	U	(< 0.16)	U	(< 0.13)	U	(< 0.16)	U	(< 0.17)	U	(< 0.15)	U	1.1		0.81		--	--
1,3-Butadiene	µg/m ³	(< 0.059)	U	(< 0.055)	U	(< 0.044)	U	(< 0.055)	U	(< 0.056)	U	(< 0.05)	U	(< 0.053)	U	(< 0.051)	U	--	--
4-Ethyltoluene	µg/m ³	(< 0.19)	U	(< 0.18)	U	(< 0.14)	U	(< 0.18)	U	(< 0.18)	U	(< 0.16)	U	1		0.78		--	--
Acetone	µg/m ³	7		27		4.5		4.9		20		13		8.8		8.3		--	--
Carbon Tetrachloride	µg/m ³	0.44		0.44		0.44		0.43		0.41		0.44		0.44		0.44		--	--
Chloroform	µg/m ³	(< 0.073)	U	0.94		(< 0.054)	U	(< 0.069)	U	(< 0.07)	U	(< 0.062)	U	(< 0.066)	U	1.2		--	--
Dichlorodifluoromethane	µg/m ³	1.8		1.9		2.1		2.3		2.1		1.8		1.8		2		--	--
Ethanol	µg/m ³	(< 0.12)	U	53		25		3.5		2		20		3.2		3		--	--
Isopropanol	µg/m ³	(< 0.072)	U	(< 0.068)	U	(< 0.054)	U	(< 0.068)	U	(< 0.069)	U	(< 0.061)	U	(< 0.065)	U	(< 0.063)	U	--	--
Methyl Ethyl Ketone (2-Butanone)	µg/m ³	(< 0.088)	U	(< 0.082)	U	(< 0.065)	U	(< 0.082)	U	5.6		2.5		(< 0.079)	U	2.2		--	--
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	µg/m ³	(< 0.26)	U	(< 0.25)	U	(< 0.19)	U	(< 0.25)	U	6.2		1.1		(< 0.24)	U	(< 0.23)	U	--	--
N-Heptane	µg/m ³	(< 0.067)	U	(< 0.063)	U	(< 0.05)	U	(< 0.063)	U	1.1		(< 0.056)	U	1.6		(< 0.058)	U	--	--
N-Hexane	µg/m ³	(< 0.12)	U	15		0.47		(< 0.12)	U	(< 0.12)	U	0.56		2.2		0.92		--	--
Trichlorofluoromethane	µg/m ³	1.3		1.5		1.3		1.3		1.2		1.3		1.2		1.2		--	--
VOCs (TO15 SIM)																			
1,1-Dichloroethene	µg/m ³	(< 0.0049)	U	(< 0.0047)	U	(< 0.0037)	U	(< 0.0047)	U	0.1		(< 0.0042)	U	(< 0.0045)	U	(< 0.0043)	U	--	--
1,2-Dichloroethane	µg/m ³	(< 0.0045)	U	(< 0.0042)	U	(< 0.0033)	U	(< 0.0042)	U	(< 0.0043)	U	(< 0.0038)	U	(< 0.0041)	U	(< 0.0039)	U	--	--
Benzene	µg/m ³	(< 0.068)	U	0.4		0.43		0.62		0.47		0.47		0.61		0.52		--	--
Cis-1,2-Dichloroethylene	µg/m ³	1.7		1.2		(< 0.0044)	U	(< 0.0056)	U	0.18		(< 0.005)	U	(< 0.0054)	U	(< 0.0052)	U	--	--
Ethylbenzene	µg/m ³	(< 0.004)	U	0.25		(< 0.003)	U	0.14		0.63		0.15		0.45		0.34		--	--
M,P-Xylene (Sum Of Isomers)	µg/m ³	0.42		0.87		0.33		0.42		2.4		0.55		1.8		1.4		--	--
O-Xylene (1,2-Dimethylbenzene)	µg/m ³	0.16		0.29		0.18		0.21		1.5		0.23		0.7		0.56		--	--
Tetrachloroethylene (PCE)	µg/m ³	30		20		(< 0.0051)	U	0.35		0.37		0.92		(< 0.0062)	U	1.4		<i>30</i>	<i>300</i>
Toluene	µg/m ³	0.29		1.5		0.59		0.82		3.1		0.77		1.7		1.3		--	--
Trichloroethylene (TCE)	µg/m ³	6.2		8.3		(< 0.04)	U	(< 0.051)	U	2		(< 0.046)	U	(< 0.049)	U	(< 0.047)	U	2	20
¹ NYSDOH Ambient Air Guidelines and Immediate Action Levels based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013 and August 2015.																			
² NYSDOH Immediate Action Levels for TCE and PCE based on NYSDOH Soil Vapor Intrusion Updates dated September 2013 and August 2015.																			
NOTES:																			
ID = Identification																			
NYSDEC = New York State Department of Environmental Conservation																			
NYSDOH = New York State Department of Health																			
VOC = Volatile organic compound																			
µg/m3 = Micrograms per cubic meter = parts per billion																			
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.																			
U = Indicates the analyte was not detected greater than the laboratory reporting limit.																			
Analytical data results provided by Eurofins Air Toxics, Inc.																			
Bold values indicated that the analyte was detected greater than the NYSDOH Ambient Air Guidelines																			
Shaded Cells indicate that the analyte was detected at a concentration greater than the NYSDOH Recommended Immediate Action Level																			
DUPLICATE sample was collected at 401075-IA-05-B-0318																			

Table 2 Summary of Detected VOCs in Sub-Slab Soil Vapor, December 2017											
Analyte	Building	Structure 01	Structure 02	Structure 03	Structure 04	Structure 06					
	Sample ID	401075-SS-01	401075-SS-02	401075-SS-03	401075-SS-04	401075-SS-06					
	Laboratory ID	1712429-08A/B	1712429-10A/B	1712429-02A/B	1712429-04A/B	1712429-11A/B					
	Room	Basement	Basement	Basement	Basement	Basement					
	Sample Date	12/12/2017	12/12/2017	12/12/2017	12/12/2017	12/13/2017					
	Sample Type	Sub-Slab Soil Vapor	Sub-Slab Soil Vapor	Sub-Slab Soil Vapor	Sub-Slab Soil Vapor	Sub-Slab Soil Vapor					
VOCs (TO15)											
1,2,4-Trimethylbenzene	µg/m ³	4		4.8		3.2		1.7		4	
1,3,5-Trimethylbenzene (Mesitylene)	µg/m ³	(< 0.75)	U	1.2		(< 0.33)	U	(< 0.13)	U	0.96	
1,3-Butadiene	µg/m ³	(< 0.28)	U	(< 0.055)	U	(< 0.21)	U	2.3		(< 0.06)	U
4-Ethyltoluene	µg/m ³	(< 0.89)	U	3.4		2.8		1.5		3	
Acetone	µg/m ³	35		30		55		9.1		83	
Carbon Disulfide	µg/m ³	(< 0.99)	U	2.7		(< 0.55)	U	(< 0.22)	U	(< 0.21)	U
Carbon Tetrachloride	µg/m ³	20		0.57		(< 0.5)	U	0.37		0.42	
Chloroform	µg/m ³	850		150		110		3.4		(< 0.075)	U
Cyclohexane	µg/m ³	(< 0.29)	U	0.56		(< 0.24)	U	(< 0.095)	U	(< 0.062)	U
Dichlorodifluoromethane	µg/m ³	(< 0.39)	U	2.1		2		2.3		1.9	
Ethanol	µg/m ³	(< 0.59)	U	8.1		12		4.4		9.6	
Isopropanol	µg/m ³	(< 0.35)	U	2.4		9.6		(< 0.17)	U	(< 0.074)	U
Methyl Ethyl Ketone (2-Butanone)	µg/m ³	(< 0.42)	U	5.1		(< 0.64)	U	(< 0.25)	U	5.3	
N-Heptane	µg/m ³	(< 0.32)	U	0.86		(< 1.1)	U	1.4		0.74	
N-Hexane	µg/m ³	(< 0.6)	U	1.3		(< 0.22)	U	1.3		1.1	
Trichlorofluoromethane	µg/m ³	(< 0.47)	U	1.3		(< 0.45)	U	1.3		1.3	
VOCs (TO15 SIM)											
1,1,1-Trichloroethane	µg/m ³	6.6		1.3		(< 0.021)	U	(< 0.0084)	U	(< 0.004)	U
1,1-Dichloroethene	µg/m ³	(< 0.024)	U	(< 0.0047)	U	0.17		(< 0.0099)	U	(< 0.0051)	U
Benzene	µg/m ³	2.8		2.5		1.1		2.4		1.8	
Cis-1,2-Dichloroethylene	µg/m ³	(< 0.029)	U	(< 0.0056)	U	2.5		(< 0.0077)	U	0.95	
Ethylbenzene	µg/m ³	1.1		1.6		1.5		1.3		2.1	
M,P-Xylene (Sum Of Isomers)	µg/m ³	5.1		6.7		6.6		5		4.5	
O-Xylene (1,2-Dimethylbenzene)	µg/m ³	2.4		2.6		2.6		2		1.8	
Tetrachloroethylene (PCE)	µg/m ³	150		14		320		5.6		11	
Toluene	µg/m ³	3.9		5.6		5.4		5.6		3.1	
Trichloroethylene (TCE)	µg/m ³	(< 0.26)	U	(< 0.051)	U	11		(< 0.0078)	U	3.1	
NOTES:											
ID = Identification											
NYSDOH = New York State Department of Health											
VOC = Volatile organic compound											
µg/m ³ = Micrograms per cubic meter = parts per billion											
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.											
U = Indicates the analyte was not detected greater than the laboratory reporting limit.											
Analytical data results provided by Eurofins Air Toxics, Inc.											
Per the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, New York State currently does any not have standards, criteria, or guidance values for concentrations of compounds in sub-slab vapor.											

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Table 3 Summary of Detected VOCs in Indoor and Outdoor Air (March 2018)

Analyte	Building	Structure 05								Structure 06				Structure 10		Outdoor Air				NYSDOH Ambient Air Quality Guideline ¹	NYSDOH Ambient Air Quality Recommended Immediate Action Level ²
	Sample ID	401075-IA-05-B-0318	401075-IA-FD-0318	401075-IA-05-F1-0318	401075-IA-05-F2-0318	401075-IA-06-B-0318	401075-IA-06-F1-0318	401075-IA-10-0318	401075-OA-DW-0318	401075-OA-UW-0318											
	Laboratory ID	1803401A-04A/B	1803401A-12A/B	1803401A-05A/B	1803401A-06A/B	1803401A-01A/B	1803401A-02A/B	1803401A-07A/B	1803401A-11A/B	1803401A-10A/B											
	Room	Basement	Basement-Dup	1st Floor Living Room	2nd Floor Office	Basement	1st Floor	1st Floor Center	Outdoors - Downwind	Outdoors - Upwind											
	Sample Date	3/14/2018	3/14/2018	3/14/2018	3/14/2018	3/14/2018	3/13/2018	3/14/2018	3/13/2018	3/13/2018											
	Sample Type	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Outdoor Air	Outdoor Air										
VOCs (TO15)																					
1,2,4-Trimethylbenzene	µg/m ³	(< 0.15)	UJ	(< 0.16)	U	(< 0.16)	U	(< 0.14)	U	(< 0.17)	U	(< 0.16)	U	1.2		(< 0.16)	U	(< 0.16)	U	--	--
4-Ethyltoluene	µg/m ³	(< 0.16)	U	(< 0.17)	U	(< 0.17)	U	(< 0.16)	U	(< 0.18)	U	(< 0.17)	U	1.3	J+	(< 0.17)	U	(< 0.17)	U	--	--
Acetone	µg/m ³	6.8		6.8		22		24		3.3		21		9.8		9.5		13		--	--
Ethanol	µg/m ³	2.5		2.5		22		130	J	(< 0.12)	U	15		5.6		2		1.7		--	--
Isopropanol	µg/m ³	(< 0.062)	U	(< 0.068)	U	(< 0.066)	U	7.7		(< 0.069)	U	(< 0.067)	U	2.4		(< 0.065)	U	(< 0.067)	U	--	--
Methylene Chloride	µg/m ³	(< 0.09)	U	1.4		(< 0.094)	U	2.7		(< 0.099)	U	(< 0.096)	U	1.4		(< 0.093)	U	(< 0.096)	U	--	--
N-Heptane	µg/m ³	(< 0.058)	U	1.5	J	1.3		1.2		1.6		(< 0.062)	U	2.6		(< 0.06)	U	(< 0.062)	U	--	--
N-Hexane	µg/m ³	0.59	UJ	1.1		0.94		1.1		1.5		9.9		4.4		(< 0.11)	U	0.54	J	--	--
Trichlorofluoromethane	µg/m ³	1.2		1.2		1.3		1.4		1.4		1.4		1.2		1.2		1.2		--	--
VOCs (TO15 SIM)																					
1,2-Dichloroethane	µg/m ³	(< 0.0039)	U	(< 0.0042)	U	0.3		0.19		(< 0.0043)	U	(< 0.0042)	U	(< 0.0047)	U	(< 0.004)	U	(< 0.0042)	U	--	--
Benzene	µg/m ³	0.42		0.46		0.52		0.81		0.41		0.43		1.1		0.4		0.44			
Carbon Tetrachloride	µg/m ³	0.41	J	0.41	J	0.42	J	0.42	J	0.41	J	0.41	J	0.41	J	0.41	J	0.4	J		
Chloroform	µg/m ³	0.15		(< 0.003)	U	0.94		1.5		0.28		0.62		0.2		(< 0.0029)	U	(< 0.003)	U		
Cis-1,2-Dichloroethylene	µg/m ³	(< 0.0052)	U	(< 0.0056)	U	(< 0.0054)	U	(< 0.005)	U	0.61		0.53		0.16		(< 0.0053)	U	(< 0.0055)	U		
Dichlorodifluoromethane	µg/m ³	2.2		2		2		2		2.4		2.4		2		2		2			
Ethylbenzene	µg/m ³	(< 0.0035)	U	0.15		0.16		0.8		0.17		0.2		1		0.18		0.33		--	--
M,P-Xylene (Sum Of Isomers)	µg/m ³	0.31		0.38		0.4		2.4		0.42		0.63		3.8		0.7		1.4		--	--
O-Xylene (1,2-Dimethylbenzene)	µg/m ³	(< 0.0066)	U	0.15		0.16		0.79		0.17		0.22		1.5		0.26		0.5		--	--
Tetrachloroethylene (PCE)	µg/m ³	2.3		2.3		0.68		1		2.5		23		85		(< 0.0061)	U	(< 0.0063)	U	30	300
Toluene	µg/m ³	0.72		0.95		0.96		5.1		0.75		1.2		4.9		0.63		1.1		--	--
Trichloroethylene (TCE)	µg/m ³	(< 0.047)	U	(< 0.051)	U	(< 0.05)	U	0.51		2.5		6.2		0.36		(< 0.049)	U	(< 0.05)	U	2	20
¹ . NYSDOH Ambient Air Guidelines and Immediate Action Levels based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013 and August 2015.																					
² . NYSDOH Immediate Action Levels for TCE and PCE based on NYSDOH Soil Vapor Intrusion Updates dated September 2013 and August 2015.																					
NOTES:																					
ID = Identification																					
NYSDEC = New York State Department of Environmental Conservation																					
NYSDOH = New York State Department of Health																					
VOC = Volatile organic compound																					
µg/m3 = Microgram(s) per cubic meter = parts per billion																					
VOC = Volatile organic compound																					
J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.																					
J+ = The result is an estimated quantity, but the result may be biased high.																					
U = Indicates the analyte was not detected greater than the laboratory reporting limit.																					
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.																					
Analytical data results provided by Eurofins Air Toxics, Inc.																					
Bold values indicated that the analyte was detected greater than the NYSDOH Ambient Air Guidelines																					
Shaded Cells indicate that the analyte was detected at a concentration greater than the NYSDOH Recommended Immediate Action Level																					
DUPLICATE sample was collected at 401075-IA-05-B-0318																					

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Table 4 Summary of Detected VOCs in Sub-Slab Soil Vapor (March 2018)

Analyte	Building	Structure 06		Structure 10			
	Sample ID	401075-SS-06-0318		401075-SS-10A-0318		401075-SS-10B-0318	
	Laboratory ID	1803401B-03A		1803401B-08A		1803401B-09A	
	Room	Basement		1st Floor - West		1st Floor - East	
	Sample Date	3/14/2018		3/14/2018		3/14/2018	
	Sample Type	Sub-Slab Soil Vapor		Sub-Slab Soil Vapor		Sub-Slab Soil Vapor	
VOCs (TO15)							
1,2,4-Trimethylbenzene	µg/m ³	2.1		(< 0.61)	U	(< 0.69)	U
1,3-Butadiene	µg/m ³	0.9		(< 0.61)	U	(< 2.6)	U
4-Ethyltoluene	µg/m ³	1.8		3.5		(< 1.6)	U
Acetone	µg/m ³	290	J	180		(< 4.3)	U
Benzene	µg/m ³	3.1		9.5		(< 1.1)	U
Carbon Disulfide	µg/m ³	8		(< 1.8)	U	(< 3)	U
Cis-1,2-Dichloroethylene	µg/m ³	(< 0.23)	U	7.4		(< 1.7)	U
Ethanol	µg/m ³	8.2		9.9		(< 4.5)	U
Ethylbenzene	µg/m ³	1.4		4		(< 1.4)	U
Isopropanol	µg/m ³	4.4		(< 1.1)	U	(< 2.3)	U
M,P-Xylene (Sum Of Isomers)	µg/m ³	5.8		17		(< 1.4)	U
Methyl Ethyl Ketone (2-Butanone)	µg/m ³	19		(< 2.7)	U	(< 4.8)	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	µg/m ³	1.5		(< 0.82)	U	(< 2.6)	U
N-Heptane	µg/m ³	1.7		4.1		(< 1.8)	U
N-Hexane	µg/m ³	1.7		5.2		(< 1.1)	U
O-Xylene (1,2-Dimethylbenzene)	µg/m ³	2.2		6.4		(< 0.65)	U
Tetrachloroethylene (PCE)	µg/m ³	8.2		700		5900	
Toluene	µg/m ³	6.1		23		20	
Trichloroethylene (TCE)	µg/m ³	1.1		17		72	
Trichlorofluoromethane	µg/m ³	1.5		(< 0.64)	U	(< 1.6)	U
NOTES: ID = Identification NYSDOH = New York State Department of Health VOC = Volatile organic compound µg/m ³ = Micrograms per cubic meter = parts per billion J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. U = Indicates the analyte was not detected greater than the laboratory reporting limit. Analytical data results provided by Eurofins Air Toxics, Inc. Per the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, New York State currently does any not have standards, criteria, or guidance values for concentrations of compounds in sub-slab vapor.							

Table 5 Summary of VOCs in Surface Soil Samples (April 2018)*

Analyte	Sample ID	401075-SS-01-0-6		401075-SS-02-0-6		401075-SS-03-0-6		401075-SS-04-0-6		401075-SS-05-0-6		401075-DUP-040218		Unrestricted Use Soil Cleanup Objective (mg/kg)	Residential Use Soil Cleanup Objective (mg/kg)	Commercial Use Soil Cleanup Objective (mg/kg)
	Laboratory ID	18D0057-02		18D0057-03		18D0057-05		18D0057-08		18D0057-10		18D0057-14				
	Interval (in. bgs)	0-6		0-6		0-6		0-6		0-6		0-6				
	Sample Date	4/2/2018		4/2/2018		4/2/2018		4/2/2018		4/2/2018		4/2/2018				
	Sample Type	Surface Soil		Surface Soil		Surface Soil		Surface Soil		Surface Soil		Surface Soil				
VOCs by USEPA Method 8260C																
Tetrachloroethylene (PCE)	mg/kg	0.015		0.0083		0.0075		0.0022 J	J	(< 0.0015)	U	0.0078		1.3	5.5	150
NOTES: ID = Identification NYSDEC = New York State Department of Environmental Conservation USEPA = United States Environmental Protection Agency mg/kg = Milligram(s) per kilogram = parts per million J = Result is estimated concentration. U = Analyte was analyzed for, but not detected below the laboratory detection limit. D = Indicates the compound concentration is the result of a dilution. VOC = Volatile organic compound * Data presented in this table is preliminary, unvalidated data. Analytical data results provided by Con-Test Analytical. Bold values indicate that the analyte was detected greater than the NYSDEC Unrestricted Use Soil Cleanup Objective Bold Italicized values indicate that the analyte was detected greater than the NYSDEC Residential Use Soil Cleanup Objective Shaded cells indicate that the analyte was detected greater than the NYSDEC Commercial Use Cleanup Objective DUPLICATE sample was collected at SS-02																

Table 6 Summary of Detected SVOCs, Metals, Pesticides, PCBs, and Cyanide in Surface Soil Samples (April 2018)*

Analyte	Sample ID	401075-SS-01-0-2	401075-SS-02-0-2	401075-SS-03-0-2	401075-SS-04-0-2	401075-SS-05-0-2	401075-DUP-040218	Unrestricted Use Soil Cleanup Objective (mg/kg)	Residential Use Soil Cleanup Objective (mg/kg)	Commercial Use Soil Cleanup Objective (mg/kg)						
	Laboratory ID	18D0057-01	18D0057-04	18D0057-06	18D0057-07	18D0057-09	18D0057-14									
	Interval (in. bgs)	0-2	0-2	0-2	0-2	0-2	0-2									
	Sample Date	4/2/2018	4/2/2018	4/2/2018	4/2/2018	4/2/2018	4/2/2018									
Sample Type																
Surface Soil																
SVOCs by USEPA Method 8270D																
Anthracene	mg/kg	0.071	J (< 0.055)	U	(< 0.057)	U	(< 0.063)	U	(< 0.061)	U	(< 0.055)	U	100	100	500	
Benzo(a)anthracene	mg/kg	0.27		0.11	J	0.11	J	0.083	J	0.37		0.069	J	1	1	5.6
Benzo(a)pyrene	mg/kg	0.29		0.12	J	0.11	J	0.093	J	0.37		0.073	J	1	1	1
Benzo(b)fluoranthene	mg/kg	0.35		0.17	J	0.14	J	0.14	J	0.59		0.11	J	1	1	5.6
Benzo(g,h,i)perylene	mg/kg	0.16	J	0.087	J	(< 0.088)	U	(< 0.096)	U	0.27		(< 0.08)	U	100	100	500
Benzo(k)fluoranthene	mg/kg	0.17	J	0.067	J	(< 0.062)	U	(< 0.068)	U	0.23		(<0.06)	U	0.8	1	56
Benzyl Butyl Phthalate	mg/kg	0.12	J	(< 0.091)	U	(< 0.095)	U	(< 0.1)	U	(< 0.1)	U	(< 0.091)	U	--	--	--
Bis(2-Ethylhexyl) Phthalate	mg/kg	0.69		0.15	J	(< 0.15)	U	(< 0.17)	U	0.73		(< 0.15)	U	--	--	--
Chrysene	mg/kg	0.31		0.14	J	0.12	J	0.11	J	0.46		0.083	J	1	1	56
Fluoranthene	mg/kg	0.51		0.21		0.16	J	0.16	J	0.73		0.13	J	100	100	500
Indeno(1,2,3-C,D)Pyrene	mg/kg	0.18	J	(< 0.14)	U	(< 0.14)	U	(< 0.16)	U	0.3		(< 0.14)	U	0.5	0.5	5.6
Phenanthrene	mg/kg	0.32		(< 0.099)	U	(< 0.1)	U	(< 0.11)	U	0.23		(< 0.099)	U	100	100	500
Pyrene	mg/kg	0.43		0.19	J	0.15	J	0.16	J	0.7		0.11	J	100	100	500
4,4'-DDD	mg/kg	0.0035	JD	0.0046	JD	0.00064	J	(< 0.0049)	U	0.086	D	0.0027	J	0.0033	1.8	62
4,4'-DDE	mg/kg	0.019	JD	0.0086	JD	0.00095	J	0.034	JD	0.63	D	0.0063		0.0033	1.7	47
4,4'-DDT	mg/kg	0.061	D	0.023	D	0.0028	J	0.077	D	1.2	D	0.013		0.0033	2.6	92
Metals by USEPA Method 6010C, Mercury by USEPA Method 7471B																
Aluminum	mg/kg	8500		14,000	D	9600		8200		9200		14,000	D	--	--	--
Antimony	mg/kg	(< 1.3)	U	4.3		(< 1.3)	U	4.4		(< 1.4)	U	12		--	--	--
Arsenic	mg/kg	8.3		8.6		8		8.7		7.5		8.5		13	16	16
Barium	mg/kg	180		130		110		250		180		130		350	350	400
Beryllium	mg/kg	0.5		0.59		0.58		0.7		0.57		0.6		7.2	14	290
Cadmium	mg/kg	3.3		1.3		0.68		5.3		2		1.2		2.5	2.5	9.3
Calcium	mg/kg	9300		5700		2900		7600		15,000	D	4800		--	--	--
Chromium, Total	mg/kg	19		21		16		17		29		22		30	36	1500
Cobalt	mg/kg	9.5		9		7.9		9.2		9.8		8.5		---	---	---
Copper	mg/kg	210		490		97		2000		160		130		50	270	270
Iron	mg/kg	31,000	D	38,000	D	32,00	D	22,000	D	37,000	D	39,000	D	---	---	---
Lead	mg/kg	520		1700		420		780		360		2500		63	400	1000
Magnesium	mg/kg	6,500	D	7,300	D	4,400	D	2,500	D	6,200	D	5,900	D	---	---	---
Manganese	mg/kg	500		360		480		380		610		350		1600	2000	10000
Mercury	mg/kg	0.7	D	0.38		1.7	D	1.2	D	0.87	D	0.33		0.18	0.81	2.8
Nickel	mg/kg	25		24		17		27		26		24		30	140	310
Potassium	mg/kg	1400		1500		1400		1800		1600		1500		---	---	---
Silver	mg/kg	(< 0.23)	U	(< 0.45)	U	(< 0.23)	U	0.61		(< 0.49)	U	(< 0.42)	U	2	36	1500
Sodium	mg/kg	97		76	J	59	J	160		140		140		---	---	---
Vanadium	mg/kg	22		22		20		28		25		21		---	---	---
Zinc	mg/kg	380		210		130		870	D	790	D	200		109	2200	10000
Pesticides by USEPA Method 8081B																
Chlordane	mg/kg	(< 0.034)	U	(< 0.032)	U	(< 0.0068)	U	0.18	JD	(< 0.071)	U	(< 0.0062)	U	0.094	0.097	3.4
Dieldrin	mg/kg	0.017	JD	0.0066	JD	0.00084	J	0.037	JD	0.022	JD	0.0034	J	0.005	0.039	1.4
Hexachlorobenzene	mg/kg	(< 0.0042)	U	(< 0.0039)	U	(< 0.00082)	U	(< 0.0086)	U	(< 0.0086)	U	0.0019	J	--	--	--
PCBs by USEPA Method 8082A																
Aroclor 1248	mg/kg	0.1	D	0.071	JD	(< 0.056)	U	0.48	D	0.085	JD	0.27	D	0.1	1	1
Aroclor 1254	mg/kg	0.27	D	0.12	D	(< 0.061)	U	1	D	0.42	D	0.14	D	0.1	1	1
Aroclor 1260	mg/kg	0.28	D	0.069	JD	(< 0.065)	U	0.29	D	0.19	D	0.071	JD	0.1	1	1
Total Cyanide by USEPA Method SW9014																
Cyanide	mg/kg	(< 0.28)	U	(< 0.23)	U	0.25	J	0.7		(< 0.29)	U	(< 0.22)	U	27	27	27
Percent Solids by USEPA Method A2540G																
Solids, Percent	%	82.7		88.6		85.6		78		80.1		88.7		--	--	--
NOTES:																
ID = Identification																
NYSDEC = New York State Department of Environmental Conservation																
USEPA = United States Environmental Protection Agency																
mg/kg = Milligram(s) per kilogram = parts per million																
J = Result is estimated concentration.																
U = Analyte was analyzed for, but not detected below the laboratory detection limit.																
D = Indicates the compound concentration is the result of a dilution.																
SVOC = Semi-volatile organic compound																
PCBs = Polychlorinated Biphenyls																
* Data presented in this table is preliminary, unvalidated data.																
Analytical data results provided by Con-Test Analytical.																
Bold values indicate that the analyte was detected greater than the NYSDEC Unrestricted Use Soil Cleanup Objective																
Bold Italicized values indicate that the analyte was detected greater than the NYSDEC Residential Use Soil Cleanup Objective																
Shaded cells indicate that the analyte was detected greater than the NYSDEC Commercial Use Cleanup Objective																
DUPLICATE sample was collected at SS-02																

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Table 7 Summary of Detections in Floor Drain Debris, April 2018*

Analyte	Sample ID	401075-SL-FLOORDRAIN01	401075-SL-FLOORDRAIN02	Unrestricted Use Soil Cleanup Objective (mg/kg)	Residential Use Soil Cleanup Objective (mg/kg)	Commercial Use Soil Cleanup Objective (mg/kg)		
	Labratory ID	18D0057-11	18D0057-12					
	Sample Date	4/2/2018	4/2/2018					
	Sample Type	Soil	Soil					
VOCs (8260C)								
Acetone	mg/kg	0.24		0.2	J	0.05	100	500
Ethylbenzene	mg/kg	(<0.0014)	U	0.0018	J	1	30	390
m,p-Xylene	mg/kg	0.0055	J	0.008	J	0.26	100	500
O-Xylene	mg/kg	0.0032	J	0.0039	J	0.26	100	500
Tetrachloroethylene	mg/kg	(<0.0023)	U	0.0031	J	1.3	5.5	150
NOTES:								
ID = Identification								
NYSDEC = New York State Department of Environmental Conservation								
USEPA = United States Environmental Protection Agency								
mg/kg = milligrams per kilogram = parts per million								
% = percent								
J = Result is estimated concentration.								
U = Analyte was analyzed for, but not detected below the laboratory detection limit.								
* Data presented in this table is preliminary, unvalidated data.								
Analytical data results provided by Con-Test Analytical.								
Bold values indicate that the analyte was detected greater than the NYSDEC Unrestricted Use Soil Cleanup Objective								
Bold Italicized values indicate that the analyte was detected greater than the NYSDEC Residential Use Soil Cleanup Objective								
Shaded cells indicate that the analyte was detected greater than the NYSDEC Commercial Use Cleanup Objective								

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Table 8 Soil Boring, Monitoring Well, and Soil Vapor Point Construction Details

	Location ID	MW-01/SV-01	MW-02/SV-02	MW-03/SV-03	MW-04/SV-04	SB-07/MW-05	SB-14/MW-06	SB-05/MW-07	SB-01	SB-02	SB-03	SB-04
	Location Type	Monitoring Well, Soil Vapor Point	Monitoring Well, Soil Vapor Point, Soil Boring	Monitoring Well, Soil Vapor Point, Soil Boring	Monitoring Well, Soil Vapor Point, Soil Boring	Monitoring Well, Soil Boring	Monitoring Well, Soil Boring	Monitoring Well, Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
	Install Date	5/2/2018	5/1/2018	5/1/2018	5/1/2018	5/2/2018	5/2/2018	5/1/2018	4/30/2018	5/2/2018	4/30/2018	5/1/2018
Soil Boring Details												
Location Description		Outdoor; West side of building; with SVP-01	Outdoor; Northwest portion of grass parcel; with SVP-02	Outdoor; Northeast portion of grass parcel	Outdoor; Southeast portion of grass parcel.	Indoor; Northeast corner of building	Indoor; center of building	Outdoor; Center of grass parcel.	Indoor: in front of dry cleaning machine.	Indoor; Northwestern corner of building, behind dry cleaning machine.	Indoor; In front of dry cleaning machine.	Outdoor; North of building's back door.
Depth to Refusal	ft bgs	8.75	10	13	10	11	11	13	9	8	12	12
Primary Soil Types		Primarily Clay, some fine sand, silt, and gravel. Shale bedrock	Clay, pulverized shale fragments	Sand and Clay, some gravel	Clay, sand, silt, trace gravel	Clay, some sand and silt, trace gravel	Clay, trace sand and gravel	Clay, some sand and gravel	Clay, trace pebbles	Clay, trace fine sand	Clay, trace pebbles and shale gravel	Clay, trace pebbles
Max PID reading	ppm	42.8	0.5	1.6	0	124	369	60	314.5	170	666	6.5
Depth Interval of Max PID reading	ft bgs	3-4	5-10	10-13	NA	4-5	10-11	6-7	2-3	5-6	8-8.5	11-12
Additional Location Notes		--	--	--	--	MW-05 installed at SB-07 location.	Installed monitoring well at SB-14 instead of at planned MW-06 location.	MW-07 installed at SB-05 location.	--	Drill rod encountered metal obstruction beneath concrete slab; moved location to NW corner of building.	--	--
Monitoring Well Construction Details												
PCV Casing (1 inch diameter)	ft bgs	0 - 2.68	0 - 4.41	0 - 5.59	0 - 4.55	0 - 6.85	0 - 6.56	0 - 1.32				
PCV Screen	ft bgs	2.68 - 7.68	4.41 - 9.41	5.59 - 10.59	4.55 - 9.55	6.85 - 11.85	6.56 - 11.56	1.32 - 6.32				
Cement Grout Annular Backfill	ft bgs	0 - 0.5	0 - 2	0 - 3.5	0 - 2.5	0 - 4.5	0 - 4.5	0 - 1				
Sand Pack	ft bgs	0.5 - 7.68	2 - 9.41	3.5 - 10.59	2.5 - 9.55	4.5 - 11.85	4.5 - 11.56	1 - 6.32				
DTW at Well Development	ft bgs	7.19	7.28	6.49	6.12	7.5	7.5	4.01				
DTB at Well Development	ft bgs	7.64	9.35	10.54	9.53	11.8	7.91	6.3				
Headspace PID during Well Development	ppm	0	0.8	0	0	48.5	57.1	0				
Soil Vapor Point Construction Details												
Stainless Steel Tubing (0.25 inch diameter)	ft bgs	0 - 7	0 - 8.5	0 - 7.5	0 - 9.5							
Steel screen	ft bgs	7 - 7.5	8.5 - 9	7.5 - 8	9.5 - 10							
Surface Sand	ft bgs	0 - 0.75	0 - 1	NA	0 - 0.5							
Bentonite	ft bgs	0.75 - 6	1 - 7.5	0 - 6	0.5 - 8.25							
Glass Beads	ft bgs	6 - 7.5	7.5 - 9	6 - 7.5	8.25 - 10							
NOTES: ft bgs = Feet below ground surface ppm = Parts per million PVC = Polyvinyl chloride DTW = Depth to water DTW = Depth to bottom												

Table 8 Soil Boring, Monitoring Well, and Soil Vapor Point Construction Details

	Location ID	SB-06	SB-08	SB-09	SB-10	SB-11	SB-11A	SB-12	SB-13	SB-15	MW-06
	Location Type	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring	Soil Boring
	Install Date	5/2/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	4/30/2018	5/2/2018	5/2/2018
Location Description		Indoor; Northern half of building, near former restrooms.	Outdoor; Northeast portion of grass parcel	Outdoor; In driveway behind 611 19th St.	Outdoor; Center of northern part of alleyway.	Outdoor; In center of sourthern party of alleyway.	Outdoor; In center of sourthern party of alleyway.	Outdoor; In front of building on sidewalk.	Indoor; Southwestern corner of building.	Indoor; Adjacent to garage door.	Indoor; Near center portion of eastern wall
Depth to Refusal	ft bgs	9.5	9.5	10	9.5	6	3.66	9	12.5	7.5	7
Primary Soil Types		Clay, some sand, trace gravel	Clay, sand, gravel	Clay, little sand and gravel	Clay, sand, silt, trace gravel	Clay with gravel	Clay with gravel	Clay with gravel	Clay, some fine sand and pebbles	Clay with trace fine sand and gravel	Sand and clay
Max PID reading	ppm	325	74.3	0.1	0.2	0.3	--	1.2	0.4	0	16.5
Depth Interval of Max PID reading	ft bgs	8-9	7-8	0-1	5-6	1-4	--	8-9	0-9	NA	7
		--	--	--	--	Encountered refusal at 6 ft bgs, attenmpted another soil boring ~ 10 ft north at SB-11A, encountered refusal at 3.66 ft bgs. Soil samples collected from both borings.		--	--	--	Encountered refusal above the water table; monitoring well not installed here, but soil boring location retained MW-06 name for consistency.
Monitoring Well Construction Details											
PCV Casing (1 inch diameter)	ft bgs										
PCV Screen	ft bgs										
Cement Grout Annular Backfill	ft bgs										
Sand Pack	ft bgs										
DTW at Well Development	ft bgs										
DTB at Well Development	ft bgs										
Headspace PID during Well Development	ppm										
Soil Vapor Point Construction Details											
Stainless Steel Tubing (0.25 inch diameter)	ft bgs										
Steel screen	ft bgs										
Surface Sand	ft bgs										
Bentonite	ft bgs										
Glass Beads	ft bgs										
NOTES: ft bgs = Feet Below Ground Surface ppm = Parts Per Million PVC = Polyvinyl Chloride DTW = Depth to Water DTW = Depth to Bottom											

Table 9 Summary of Detected VOCs in Soil Boring Samples, May 2018*																						
Analyte	Sample ID	401075-MW-01-3-6	401075-MW-01-8-8.5	401075-MW-02-5-10	401075-MW-03-10-13	401075-MW-04-5-10	401075-MW-06-5-7	401075-MW-06-7	401075-SB-01-5-9	401075-SB-02-3-6	Unrestricted Use Soil Cleanup Objective (mg/kg)	Residential Use Soil Cleanup Objective (mg/kg)	Commercial Use Soil Cleanup Objective (mg/kg)									
	Laboratory ID	18E0198-09	18E0198-11	18E0084-01	18E0084-07	18E0084-09	18E0198-12	18E0198-13	18E0010-03	18E0198-05												
	Interval (ft. bgs)	3-6	8-8.5	5-10	10-13	5-10	5-7	7	5-9	3-6												
	Sample Date	5/2/2018	5/2/2018	5/1/2018	5/1/2018	5/1/2018	5/2/2018	5/2/2018	4/30/2018	5/2/2018												
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				Soil								
VOCs by USEPA Method 8260C																						
1,2,4-Trimethylbenzene	mg/kg	0.0067		0.001	J	(< 0.0009)	U	(< 0.00095)	U	(< 0.00091)	U	0.0013	J	0.65		1.2	JD	3.8		3.6	47	190
1,3,5-Trimethylbenzene	mg/kg	0.0033		(< 0.00077)	U	(< 0.00067)	U	(< 0.00071)	U	(< 0.00068)	U	(< 0.00085)		0.22		1.2	JD	0.2		8.4	47	190
Acetone	mg/kg	0.041	J	(< 0.03)	U	0.043	J	0.07	J	(< 0.027)	U	(< 0.033)	U	(< 0.62)	U	(< 66)	U	0.08	J	0.05	100	500
Chloroform	mg/kg	(< 0.00089)	U	(< 0.0009)	U	(< 0.00079)	U	(< 0.00083)	U	(< 0.0008)	U	(< 0.00099)	U	0.033	J	(< 1.5)	U	(< 0.00091)	U	0.37	10	350
Cis-1,2-Dichloroethylene	mg/kg	0.056		0.043		(< 0.0009)	U	(< 0.00095)	U	0.017		0.021		1.3		9.3	D	0.75	E	0.25	59	500
Cymene	mg/kg	(< 0.001)	U	(< 0.001)	U	(< 0.0009)	U	(< 0.00095)	U	(< 0.00091)	U	(< 0.0011)	U	0.12		(< 1)	U	0.047		--	--	--
Ethylbenzene	mg/kg	0.0011	J	(< 0.001)	U	(< 0.0009)	U	(< 0.00095)	U	(< 0.00091)	U	(< 0.0011)	U	0.02	J	(< 0.89)	U	0.033		1	30	390
Isopropylbenzene	mg/kg	(< 0.00089)	U	(< 0.0009)	U	(< 0.00079)	U	(< 0.00083)	U	(< 0.0008)	U	(< 0.00099)	U	0.044	J	(< 0.82)	U	0.032		--	--	--
m,p-Xylene	mg/kg	(< 0.0022)	U	(< 0.0022)	U	(< 0.0019)	U	(< 0.002)	U	(< 0.0019)	U	(< 0.0024)	U	0.024	J	(< 1.7)	U	0.043		0.26	100	500
Methyl Acetate	mg/kg	(< 0.002)	U	(< 0.002)	U	(< 0.0018)	U	(< 0.0019)	U	(< 0.0018)	U	(< 0.0023)	U	0.035	J	(< 2.9)	U	(< 0.0021)	U	--	--	--
Methyl Ethyl Ketone	mg/kg	(< 0.022)	U	(< 0.022)	U	(< 0.02)	U	(< 0.021)	U	(< 0.02)	U	(< 0.025)	U	(< 0.15)	U	(< 16)	U	(< 0.023)	U	0.12	100	500
Methylcyclohexane	mg/kg	(< 0.0013)	U	(< 0.0013)	U	(< 0.0011)	U	(< 0.0012)	U	(< 0.0011)	U	(< 0.0014)	U	(< 0.04)	U	(< 4.3)	U	(< 0.0013)	U	--	--	--
Naphthalene	mg/kg	(< 0.00089)	U	(< 0.0009)	U	(< 0.00079)	U	(< 0.00083)	U	(< 0.0008)	U	(< 0.00099)	U	0.25		(< 0.83)	U	0.088		--	--	--
N-Butylbenzene	mg/kg	(< 0.00089)	U	(< 0.0009)	U	(< 0.00079)	U	(< 0.00083)	U	(< 0.0008)	U	(< 0.00099)	U	0.37		1.2	JD	0.088		--	--	--
N-Propylbenzene	mg/kg	0.0013	J	(< 0.0009)	U	(< 0.00079)	U	(< 0.00083)	U	(< 0.0008)	U	(< 0.00099)	U	0.12		(< 0.89)	U	0.09		3.9	100	500
O-Xylene	mg/kg	0.0019	J	(< 0.0009)	U	(< 0.00079)	U	(< 0.00083)	U	(< 0.0008)	U	(< 0.00099)	U	0.017	J	(< 0.9)	U	0.029		0.26	100	500
Sec-Butylbenzene	mg/kg	(< 0.0013)	U	(< 0.0013)	U	(< 0.0011)	U	(< 0.0012)	U	(< 0.0011)	U	(< 0.0014)	U	0.13		(< 0.89)	U	0.042		11	100	500
Styrene	mg/kg	(< 0.00077)	U	(< 0.00077)	U	(< 0.00067)	U	(< 0.00071)	U	(< 0.00068)	U	(< 0.00085)	U	(< 0.0096)	U	(< 1)	U	0.00078	J	--	--	--
T-Butylbenzene	mg/kg	(< 0.0011)	U	(< 0.0012)	U	(< 0.001)	U	(< 0.0011)	U	(< 0.001)	U	(< 0.0013)	U	0.022	J	(< 0.83)	U	0.0053		5.9	100	500
Tetrachloroethylene	mg/kg	0.22		0.42		(< 0.0015)	U	(< 0.0015)	U	0.0049		0.0033		1.3		240	D	0.11		1.3	5.5	150
Toluene	mg/kg	(< 0.001)	U	(< 0.001)	U	(< 0.0009)	U	(< 0.00095)	U	(< 0.00091)	U	(< 0.0011)	U	(< 0.011)	U	(< 1.2)	U	0.0012	J	0.7	100	500
Trans-1,2-Dichloroethene	mg/kg	(< 0.0011)	U	(< 0.0012)	U	(< 0.001)	U	(< 0.0011)	U	(< 0.001)	U	(< 0.0013)	U	0.012	J	(< 1)	U	0.015		--	--	--
Trichloroethylene	mg/kg	0.027		0.041		(< 0.0011)	U	(< 0.0012)	U	0.0084		(< 0.0014)	U	0.054	J	8.3	D	0.1		0.47	10	200
NOTES: ID = Identification NYSDEC = New York State Department of Environmental Conservation USEPA = United States Environmental Protection Agency mg/kg = Milligram(s) per kilogram = parts per million J = Result is estimated concentration; detected below Reporting Level. U = Analyte was analyzed for, but not detected below the laboratory detection limit. D = Indicates the compound concentration is the result of a dilution. E = Result is estimated concentration; value reported over verified calibration range. ft. bgs = Feet below ground surface * Data presented in this table is preliminary, unvalidated data. Analytical data results provided by Con-Test Analytical. Bold values indicate that the analyte was detected greater than the NYSDEC Unrestricted Use Soil Cleanup Objective <i>Bold Italicized</i> values indicate that the analyte was detected greater than the NYSDEC Residential Use Soil Cleanup Objective <i>Shaded cells</i> indicate that the analyte was detected greater than the NYSDEC Commercial Use Cleanup Objective FD-01 collected at MW-01																						

Table 9 Summary of Detected VOCs in Soil Boring Samples, May 2018*																						
Analyte	Sample ID	401075-SB-03-5-10		401075-SB-04-10-12		401075-SB-05-5-10		401075-SB-06-6-9		401075-SB-07-3-6		401075-SB-08-5-9.5		401075-SB-09-5-10		401075-SB-10-5-9.5		401075-11-0-5		Unrestricted Use Soil Cleanup Objective (mg/kg)	Residential Use Soil Cleanup Objective (mg/kg)	Commercial Use Soil Cleanup Objective (mg/kg)
	Laboratory ID	18E0010-02		18E0084-02		18E0084-11		18E0198-03		18E198-01		18E0084-13		18E0084-10		18E0084-08		18E0084-04				
	Interval (ft. bgs)	5-10		10-12		5-10		6-9		3-6		5-9.5		5-10		5-9.5		0-5				
	Sample Date			5/1/2018		5/1/2018		5/2/2018		5/2/2018		5/1/2018		5/1/2018		5/1/2018		5/1/2018				
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil				
VOCs by USEPA Method 8260C																						
1,2,4-Trimethylbenzene	mg/kg	0.39	JD	2.5	D	4.5	D	210	D	0.0015 J	J	5.9	D	(< 0.00092)	U	(< 0.00086)	U	(< 0.0008)	U	3.6	47	190
1,3,5-Trimethylbenzene	mg/kg	0.12	JD	1	D	2.6	D	86	D	0.0008	J	3.3	D	(< 0.00069)	U	(< 0.00064)	U	(< 0.0006)	U	8.4	47	190
Acetone	mg/kg	(< 5.6)	U	(< 2.3)	U	(< 2.6)	U	(< 14)	U	0.39		(< 2.4)	U	(< 0.027)	U	(< 0.025)	U	(< 0.023)	U	0.05	100	500
Chloroform	mg/kg	(< 0.13)	U	(< 0.052)	U	(< 0.059)	U	(< 0.33)	U	(< 0.00087)	U	(< 0.055)	U	(< 0.0008)	U	(< 0.00075)	U	(< 0.0007)	U	0.37	10	350
Cis-1,2-Dichloroethylene	mg/kg	21	D	0.63	D	0.053	JD	29	D	0.037		2.2	D	(< 0.00092)	U	0.0034		(< 0.0008)	U	0.25	59	500
Cymene	mg/kg	0.087	JD	0.31	D	0.57	D	26	D	0.0012	J	0.95	D	(< 0.00092)	U	(< 0.00086)	U	(< 0.0008)	U	--	--	--
Ethylbenzene	mg/kg	0.19	JD	0.1	JD	0.075	JD	10	D	(< 0.001)	U	0.32	D	(< 0.00092)	U	(< 0.00086)	U	(< 0.0008)	U	1	30	390
Isopropylbenzene	mg/kg	0.12	JD	0.13	JD	0.22	JD	13	D	(< 0.00087)	U	0.44	D	(< 0.0008)	U	(< 0.00075)	U	(< 0.0007)	U	--	--	--
m,p-Xylene	mg/kg	0.16	JD	0.21	JD	0.13	JD	18	D	(< 0.0021)	U	0.27	JD	(< 0.002)	U	(< 0.0018)	U	(< 0.0017)	U	0.26	100	500
Methyl Acetate	mg/kg	(< 0.24)	U	(< 0.099)	U	(< 0.11)	U	(< 0.62)	U	(< 0.002)	U	(< 0.1)	U	(< 0.0018)	U	(< 0.0017)	U	(< 0.0016)	U	--	--	--
Methyl Ethyl Ketone	mg/kg	(< 1.4)	U	(< 0.56)	U	(< 0.63)	U	(< 3.5)	U	0.067		(< 0.59)	U	(< 0.02)	U	(< 0.019)	U	(< 0.018)	U	0.12	100	500
Methylcyclohexane	mg/kg	(< 0.36)	U	(< 0.15)	U	(< 0.17)	U	1.2	JD	(< 0.0012)	U	(< 0.16)	U	(< 0.0011)	U	(< 0.0011)	U	(< 0.001)	U	--	--	--
Naphthalene	mg/kg	0.68	JD	0.57	D	0.86	D	39	D	(< 0.00087)	U	1.8	D	(< 0.0008)	U	(< 0.00075)	U	(< 0.0007)	U	--	--	--
N-Butylbenzene	mg/kg	0.2	JD	0.69	D	1.2	D	61	D	(< 0.00087)	U	2	D	(< 0.0008)	U	(< 0.00075)	U	(< 0.0007)	U	--	--	--
N-Propylbenzene	mg/kg	0.2	JD	0.37	D	0.6	D	36	D	0.00087	J	1.1	D	(< 0.0008)	U	(< 0.00075)	U	(< 0.0007)	U	3.9	100	500
O-Xylene	mg/kg	0.11	JD	0.13	JD	(< 0.035)	U	12	D	0.0009	J	0.05	JD	(< 0.0008)	U	(< 0.00075)	U	(< 0.0007)	U	0.26	100	500
Sec-Butylbenzene	mg/kg	0.092	JD	0.26	D	0.43	D	22	D	0.013		0.81	D	(< 0.0011)	U	(< 0.0011)	U	(< 0.001)	U	11	100	500
Styrene	mg/kg	(< 0.087)	U	(< 0.035)	U	(< 0.04)	U	(< 0.22)	U	(< 0.00075)	U	(< 0.037)	U	(< 0.00069)	U	(< 0.00064)	U	(< 0.0006)	U	--	--	--
T-Butylbenzene	mg/kg	(< 0.07)	U	(< 0.028)	U	0.22	JD	2.4	D	0.0031		0.27	D	(< 0.001)	U	(< 0.00096)	U	(< 0.0009)	U	5.9	100	500
Tetrachloroethylene	mg/kg	170	D	19	D	16	D	120	D	0.0063		23	D	(< 0.0015)	U	(< 0.0014)		0.049		1.3	5.5	150
Toluene	mg/kg	0.1	JD	(< 0.04)	U	(< 0.045)	U	0.86	JD	(< 0.001)	U	(< 0.042)	U	(< 0.00092)	U	(< 0.00086)	U	(< 0.0008)	U	0.7	100	500
Trans-1,2-Dichloroethene	mg/kg	0.13	JD	(< 0.035)	U	(< 0.04)	U	(< 0.22)	U	0.0018	J	(< 0.037)	U	(< 0.001)	U	(< 0.00096)	U	(< 0.0009)	U	--	--	--
Trichloroethylene	mg/kg	35	D	0.54	D	0.28	D	8.5	D	0.0047		4.3	D	(< 0.0011)	U	(< 0.0011)	U	(< 0.001)	U	0.47	10	200
NOTES: ID = Identification NYSDEC = New York State Department of Environmental Conservation USEPA = United States Environmental Protection Agency mg/kg = Milligram(s) per kilogram = parts per million J = Result is estimated concentration; detected below Reporting Level. U = Analyte was analyzed for, but not detected below the laboratory detection limit. D = Indicates the compound concentration is the result of a dilution. E = Result is estimated concentration; value reported over verified calibration range. ft. bgs = Feet below ground surface * Data presented in this table is preliminary, unvalidated data. Analytical data results provided by Con-Test Analytical. Bold values indicate that the analyte was detected greater than the NYSDEC Unrestricted Use Soil Cleanup Objective <i>Bold Italicized</i> values indicate that the analyte was detected greater than the NYSDEC Residential Use Soil Cleanup Objective <i>Shaded cells</i> indicate that the analyte was detected greater than the NYSDEC Commercial Use Cleanup Objective FD-01 collected at MW-01																						

Table 9 Summary of Detected VOCs in Soil Boring Samples, May 2018*																
Analyte	Sample ID	401075-SB-11A-0-5		401075-SB-12-5-9		401075-SB-13-0-5		401075-SB-14-9-11		401075-SB-15-6-7.5		401075-FD-01		Unrestricted Use Soil Cleanup Objective (mg/kg)	Residential Use Soil Cleanup Objective (mg/kg)	Commercial Use Soil Cleanup Objective (mg/kg)
	Laboratory ID	18E0084-05		18E0084-03		18E0010-01		18E0198-14		18E0198-02		18E0198-10				
	Interval (ft. bgs)	0-5		5-9		0-5		9-11		6-7.5		3-6				
	Sample Date	5/1/2018		5/1/2018		4/30/2018		5/2/2018		5/2/2018		5/2/2018				
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil				
VOCs by USEPA Method 8260C																
1,2,4-Trimethylbenzene	mg/kg	(< 0.0008)	U	6.1		(< 0.0011)	U	33	D	0.00091	J	(< 0.0011)	U	3.6	47	190
1,3,5-Trimethylbenzene	mg/kg	(< 0.0006)	U	1.4		(< 0.00079)	U	13	D	(< 0.00067)	U	(< 0.00079)	U	8.4	47	190
Acetone	mg/kg	33	E	(< 0.66)	U	(< 0.031)	U	(< 5.4)	U	0.079	J	(< 0.031)	U	0.05	100	500
Chloroform	mg/kg	(< 0.0007)	U	(< 0.015)	U	(< 0.00092)	U	(< 0.12)	U	(< 0.00078)	U	(< 0.00092)	U	0.37	10	350
Cis-1,2-Dichloroethylene	mg/kg	(< 0.0008)	U	0.32		(< 0.0011)	U	7.6	D	0.014		0.012		0.25	59	500
Cymene	mg/kg	(< 0.0008)	U	1.8		(< 0.0011)	U	4.4	D	(< 0.00089)	U	(< 0.0011)	U	--	--	--
Ethylbenzene	mg/kg	(< 0.0008)	U	0.3		(< 0.0011)	U	1.1	D	(< 0.00089)	U	(< 0.0011)	U	1	30	390
Isopropylbenzene	mg/kg	(< 0.0007)	U	0.83		(< 0.00092)	U	2	D	(< 0.00078)	U	(< 0.00092)	U	--	--	--
m,p-Xylene	mg/kg	(< 0.0017)	U	0.034	J	(< 0.0022)	U	2	D	(< 0.0019)	U	(< 0.0022)	U	0.26	100	500
Methyl Acetate	mg/kg	(< 0.0016)	U	(< 0.029)	U	(< 0.0021)	U	(< 0.23)	U	(< 0.0018)	U	(< 0.0021)	U	--	--	--
Methyl Ethyl Ketone	mg/kg	(< 0.018)	U	(< 0.16)	U	(< 0.023)	U	(< 1.3)	U	(< 0.019)	U	(< 0.023)	U	0.12	100	500
Methylcyclohexane	mg/kg	(< 0.001)	U	0.48		(< 0.0013)	U	0.73	D	(< 0.0011)	U	(< 0.0013)	U	--	--	--
Naphthalene	mg/kg	(< 0.0007)	U	1		(< 0.00092)	U	7.9	D	(< 0.00078)	U	(< 0.00092)	U	--	--	--
N-Butylbenzene	mg/kg	(< 0.0007)	U	5.1		(< 0.00092)	U	10	D	(< 0.00078)	U	(< 0.00092)	U	--	--	--
N-Propylbenzene	mg/kg	(< 0.0007)	U	2.1		(< 0.00092)	U	5.1	D	(< 0.00078)	U	(< 0.00092)	U	3.9	100	500
O-Xylene	mg/kg	(< 0.0007)	U	0.042	J	(< 0.00092)	U	1.6	D	(< 0.00078)	U	(< 0.00092)	U	0.26	100	500
Sec-Butylbenzene	mg/kg	(< 0.001)	U	2.2		(< 0.0013)	U	4.1	D	(< 0.0011)	U	(< 0.0013)	U	11	100	500
Styrene	mg/kg	(< 0.0006)	U	(< 0.01)	U	(< 0.00079)	U	(< 0.084)	U	(< 0.00067)	U	(< 0.00079)	U	--	--	--
T-Butylbenzene	mg/kg	(< 0.0009)	U	0.25		(< 0.0012)	U	0.46	JD	(< 0.001)	U	(< 0.0012)	U	5.9	100	500
Tetrachloroethylene	mg/kg	0.06		0.2		0.0082		0.4	JD	0.002	J	0.17		1.3	5.5	150
Toluene	mg/kg	(< 0.0008)	U	(< 0.012)	U	(< 0.0011)	U	0.14	JD	(< 0.00089)	U	(< 0.0011)	U	0.7	100	500
Trans-1,2-Dichloroethene	mg/kg	(< 0.0009)	U	(< 0.01)	U	(< 0.0012)	U	(< 0.084)	U	(< 0.001)	U	(< 0.0012)	U	--	--	--
Trichloroethylene	mg/kg	(< 0.001)	U	(< 0.014)	U	(< 0.0013)	U	0.35	JD	(< 0.0011)	U	0.022		0.47	10	200
NOTES:																
ID = Identification																
NYSDEC = New York State Department of Environmental Conservation																
USEPA = United States Environmental Protection Agency																
mg/kg = Milligram(s) per kilogram = parts per million																
J = Result is estimated concentration; detected below Reporting Level.																
U = Analyte was analyzed for, but not detected below the laboratory detection limit.																
D = Indicates the compound concentration is the result of a dilution.																
E = Result is estimated concentration; value reported over verified calibration range.																
ft. bgs = Feet below ground surface																
* Data presented in this table is preliminary, unvalidated data.																
Analytical data results provided by Con-Test Analytical.																
Bold values indicate that the analyte was detected greater than the NYSDEC Unrestricted Use Soil Cleanup Objective																
Bold Italicized values indicate that the analyte was detected greater than the NYSDEC Residential Use Soil Cleanup Objective																
Shaded cells indicate that the analyte was detected greater than the NYSDEC Commercial Use Cleanup Objective																
FD-01 collected at MW-01																

Table 10 Summary of Detected Metals, Pesticides, Polychlorinated Biphenyls, Semi-Volatile Organic Compounds, and Cyanide in Soil Boring Samples (May 2018)*																						
Analyte	Sample ID	401075-MW-01-3-6	401075-MW-01-8-8.5	401075-MW-02-5-10	401075-MW-03-10-13	401075-MW-04-5-10	401075-MW-06-5-7	401075-MW-06-7	401075-SB-01-5-9	401075-SB-02-3-6	Unrestricted Use Soil Cleanup Objective (mg/kg)	Residential Use Soil Cleanup Objective (mg/kg)	Commercial Use Soil Cleanup Objective (mg/kg)									
	Laboratory ID	18E0198-09	18E0198-11	18E0084-01	18E0084-07	18E0084-09	18E0198-12	18E0198-13	18E0010-03	18E0198-05												
	Interval (ft bgs)	3-6	8-8.5	5-10	10-13	5-10	5-7	6-7	5-9	3-6												
	Sample Date	5/2/2018	5/2/2018	5/1/2018	5/1/2018	5/1/2018	5/2/2018	5/2/2018	4/30/2018	5/2/2018												
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				Soil								
Metals by USEPA Methods 6010C and 7471B (Mercury)																						
Aluminum	mg/kg	15,000		--		13,000		12,000		16,000		21,000		--		13,000		19,000		--	--	--
Arsenic	mg/kg	5.2		--		10		6.1		9.1		8.4		--		8.5		5.4		13	16	16
Barium	mg/kg	160		--		110		91		110		210		--		110		320		350	350	400
Beryllium	mg/kg	0.75		--		0.77		0.56		0.77		1.2		--		0.83		1.5		7.2	14	290
Cadmium	mg/kg	0.21	J	--		0.27		0.19		0.26		0.2	J	--		0.28		(< 0.14)	U	2.5	2.5	9.3
Calcium	mg/kg	3,300		--		920		1,600		11,000		5,900		--		7,900		1,800		--	--	--
Chromium, Total	mg/kg	18		--		19		17		20		25		--		22		25		30	36	1500
Cobalt	mg/kg	9.8		--		7.9		11		8.6		11		--		14		20		---	---	---
Copper	mg/kg	30		--		42	B	37	B	34	B	37		--		53		43		50	270	270
Iron	mg/kg	28,000	D	--		38,000	D	35,000	D	45,000	D	55,000	D	--		44,000	D	47,000	D	---	---	---
Lead	mg/kg	130		--		17		14		13		19		--		22		16		63	400	1000
Magnesium	mg/kg	4,000		--		3,800		4,500		4,100		4,200		--		8,700	D	4,200		---	---	---
Manganese	mg/kg	560		--		260		670		150		210		--		460		410		1600	2000	10000
Mercury	mg/kg	0.11		--		0.032		0.039		0.042		0.028	J	--		0.045		0.026	J	0.18	0.81	2.8
Nickel	mg/kg	20		--		22		25		25		25		--		30		37		30	140	310
Potassium	mg/kg	2,200	D	--		2,300	D	1,800	D	2,400	D	2,700	D	--		1,600	D	4,000	D	---	---	---
Sodium	mg/kg	270		--		240		72	J	83	J	150		--		94		200		---	---	---
Vanadium	mg/kg	26		--		19		16		17		26		--		20		27		---	---	---
Zinc	mg/kg	77		--		86	B	80	B	76	B	76		--		76		77		109	2200	10000
Pesticides by USEPA Method 8081B																						
4,4'-DDD	mg/kg	(< 0.00056)	U	--		--		--		--		--		--		--		--		0.0033	1.8	62
4,4'-DDE	mg/kg	(< 0.00042)	U	--		--		--		--		--		--		--		--		0.0033	1.7	47
4,4'-DDT	mg/kg	(< 0.00056)	U	--		--		--		--		--		--		--		--		0.0033	2.6	92
PCBs by USEPA Method 8082A																						
Aroclor 1254	mg/kg	(< 0.073)	U	--		(< 0.06)	U	(< 0.059)	U	(< 0.06)	U	(< 0.065)	U	--		(< 0.015)	U	(< 0.068)	U	0.1	1	1
SVOCs by USEPA Method 8270D																						
1-Methylnaphthalene	mg/kg	(< 0.092)	U	--		(< 0.076)	U	(< 0.076)	U	(< 0.08)	U	(< 0.084)	U	--		0.37		0.11	J	--	--	--
2-Methylnaphthalene	mg/kg	(< 0.084)	U	--		(< 0.069)	U	(< 0.069)	U	(< 0.072)	U	(< 0.076)	U	--		0.1	J	0.15	J	--	--	--
Acenaphthene	mg/kg	(< 0.072)	U	--		(< 0.059)	U	(< 0.059)	U	(< 0.063)	U	(< 0.066)	U	--		(< 0.06)	U	(< 0.069)	U	20	100	500
Bis(2-Ethylhexyl) Phthalate	mg/kg	(< 0.19)	U	--		(< 0.15)	U	(< 0.15)	U	(< 0.16)	U	(< 0.17)	U	--		(< 0.16)	U	0.28	J	--	--	--
Dibenzofuran	mg/kg	(< 0.084)	U	--		(< 0.069)	U	(< 0.069)	U	(< 0.072)	U	(< 0.076)	U	--		(< 0.069)	U	(< 0.079)	U	--	--	--
Fluorene	mg/kg	(< 0.078)	U	--		(< 0.064)	U	(< 0.064)	U	(< 0.067)	U	(< 0.071)	U	--		0.1	J	(< 0.074)	U	30	100	500
Naphthalene	mg/kg	(< 0.12)	U	--		(< 0.1)	U	(< 0.1)	U	(< 0.11)	U	(< 0.11)	U	--		(< 0.1)	U	0.71		12	100	500
Phenanthrene	mg/kg	(< 0.12)	U	--		(< 0.1)	U	(< 0.1)	U	(< 0.11)	U	(< 0.11)	U	--		0.28		(< 0.12)	U	100	100	500
Pyrene	mg/kg	(< 0.08)	U	--		(< 0.065)	U	(< 0.065)	U	(< 0.069)	U	(< 0.072)	U	--		(< 0.066)	U	(< 0.075)	U	100	100	500
Total Cyanide by USEPA Method SW9014																						
Cyanide	mg/kg	(< 0.34)	U	--		(< 0.23)	U	0.28	J	0.29	J	(< 0.31)	U	--		(< 0.25)	U	(< 0.23)	U	27	27	27
Percent Solids by USEPA Method A2540G																						
Solids, Percent	%	69.7		73.5		85.2		86		81.3		77.4		88.8		84.1		73.6		--	--	--
NOTES:																						
ID = Identification NYSDEC = New York State Department of Environmental Conservation USEPA = United States Environmental Protection Agency mg/kg = Milligram(s) per kilogram = parts per million J = Result is estimated concentration; detected below Reporting Level. U = Analyte was analyzed for, but not detected below the laboratory detection limit. D = Indicates the compound concentration is the result of a dilution. E = Result is estimated concentration; value reported over verified calibration range. B = Analyte found in associated laboratory blank as well as in sample. ft. bgs = Feet below ground surface ft = Feet (foot) bgs = Below ground surface PCB = Polychlorinated biphenyl SVOC = Semi-volatile organic compound																						
* Data presented in this table is preliminary, unvalidated data.																						
Analytical data results provided by Con-Test Analytical.																						
Bold values indicate that the analyte was detected greater than the NYSDEC Unrestricted Use Soil Cleanup Objective																						
Bold Italicized values indicate that the analyte was detected greater than the NYSDEC Residential Use Soil Cleanup Objective																						
Shaded cells indicate that the analyte was detected greater than the NYSDEC Commercial Use Cleanup Objective																						
FD-01 and FD-01-PEST collected at MW-01																						
SB-FD-01 collected at MW-06																						

Table 10 Summary of Detected Metals, Pesticides, Polychlorinated Biphenyls, Semi-Volatile Organic Compounds, and Cyanide in Soil Boring Samples (May 2018)*																		
Analyte	Sample ID	401075-SB-03-5-10	401075-SB-04-10-12	401075-SB-05-5-10	401075-SB-06-6-9	401075-SB-07-3-6	401075-SB-08-5-9.5	401075-SB-09-5-10	401075-SB-10-5-9.5	401075-11-0-5	Unrestricted Use Soil Cleanup Objective (mg/kg)	Residential Use Soil Cleanup Objective (mg/kg)	Commercial Use Soil Cleanup Objective (mg/kg)					
	Laboratory ID	18E0010-02	18E0084-02	18E0084-11	18E0198-03	18E198-01	18E0084-13	18E0084-10	18E0084-08	18E0084-04								
	Interval (ft bgs)	5-10	10-12	5-10	6-9	3-6	5-9.5	5-10	5-9.5	0-5								
	Sample Date		5/1/2018	5/1/2018	5/2/2018	5/2/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018								
	Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
Metals by USEPA Methods 6010C and 7471B (Mercury)																		
Aluminum	mg/kg	12,000		12,000		15,000		18,000		15,000		15,000		16,000		6,400		--
Arsenic	mg/kg	1.6	J	6.8		21		(< 1.1)	U	8.4		--		15		16		16
Barium	mg/kg	77		89		110		110		170		--		74		80		93
Beryllium	mg/kg	0.62		0.65		1.1		0.65		0.87		--		0.84		1		0.37
Cadmium	mg/kg	0.3		0.15	J	0.72		(< 0.13)	U	0.4		--		0.48		0.39		3.4
Calcium	mg/kg	2,100		1,100		2,600		1,200		1,800		--		920		1,500		1,900
Chromium, Total	mg/kg	20		18		26		23		22		--		21		23		16
Cobalt	mg/kg	6.3		13		16		5.5		17		--		14		19		5.5
Copper	mg/kg	55		39	B	65		21		21		--		41	B	36	B	56
Iron	mg/kg	23,000	D	33,000	D	52,000	D	28,000	D	51,000	BD	--		51,000	D	51,000	D	35,000
Lead	mg/kg	18		13		23		10		13		--		20		22		110
Magnesium	mg/kg	5,500	D	4,100		7,100	D	4,900		4,300	D	--		5,500		5,500		1,600
Manganese	mg/kg	270		330		610		150		2100		--		1600		960		190
Mercury	mg/kg	0.57	D	0.034		0.035		0.016	J	0.025	J	--		0.064		0.03		0.073
Nickel	mg/kg	26		26		37		24		20		--		29		28		11
Potassium	mg/kg	1,000	D	1,900	D	2,500	D	2,100	D	1,700	D	--		1,900	D	2,500	D	1,100
Sodium	mg/kg	120		190		220		130		89		--		120		67	J	1300
Vanadium	mg/kg	16		17		23		20		22		--		20		23		19
Zinc	mg/kg	100		86	B	100		80		62		--		82	B	94	B	520
Pesticides by USEPA Method 8081B																		
4,4'-DDD	mg/kg	--		--		--		0.062		--		--		--		--		0.0033
4,4'-DDE	mg/kg	--		--		--		(< 0.0004)	U	--		--		--		--		0.0033
4,4'-DDT	mg/kg	--		--		--		(< 0.00053)	U	--		--		--		--		0.0033
PCBs by USEPA Method 8082A																		
Aroclor 1254	mg/kg	(< 0.015)	U	(< 0.058)	U	(< 0.061)	U	0.096 JD		(< 0.069)	U	--		(< 0.067)	U	(< 0.059)	U	(< 0.052)
SVOCs by USEPA Method 8270D																		
1-Methylnaphthalene	mg/kg	1.6		0.84		(< 0.076)	U	11	D	(< 0.085)	U	--		(< 0.085)	U	(< 0.075)	U	(< 0.07)
2-Methylnaphthalene	mg/kg	0.9		1.4		0.095 J	J	18	D	(< 0.077)	U	--		(< 0.077)	U	(< 0.068)	U	(< 0.063)
Acenaphthene	mg/kg	(< 0.057)	U	0.072	J	(< 0.059)	U	0.84		(< 0.067)	U	--		(< 0.067)	U	(< 0.059)	U	(< 0.055)
Bis(2-Ethylhexyl) Phthalate	mg/kg	(< 0.15)	U	0.19	J	(< 0.15)	U	2		(< 0.17)	U	--		(< 0.17)	U	(< 0.15)	U	(< 0.14)
Dibenzofuran	mg/kg	0.17	J	(< 0.065)	U	(< 0.069)	U	< 0.073	U	(< 0.077)	U	--		(< 0.077)	U	(< 0.068)	U	(< 0.063)
Fluorene	mg/kg	0.47		0.15	J	(< 0.064)	U	1.7		(< 0.072)	U	--		(< 0.072)	U	(< 0.063)	U	(< 0.059)
Naphthalene	mg/kg	(< 0.097)	U	0.68		(< 0.1)	U	9.3	D	(< 0.11)	U	--		(< 0.11)	U	(< 0.1)	U	(< 0.093)
Phenanthrene	mg/kg	1.3		0.37		(< 0.1)	U	4.5		(< 0.11)	U	--		(< 0.12)	U	(< 0.1)	U	(< 0.094)
Pyrene	mg/kg	(< 0.063)	U	(< 0.062)	U	(< 0.065)	U	0.13	J	(< 0.073)	U	--		(< 0.073)	U	(< 0.065)	U	(< 0.06)
Total Cyanide by USEPA Method SW9014																		
Cyanide	mg/kg	0.28 J		(< 0.22)	U	0.38	J	(< 0.23)	U	(< 0.29)	U	--		(< 0.32)	U	(< 0.25)	U	0.66
Percent Solids by USEPA Method A2540G																		
Solids, Percent	%	87.3		89.4		84.6		80.7		75.2		87		75.9		85.5		92.7
NOTES: ID = Identification NYSDEC = New York State Department of Environmental Conservation USEPA = United States Environmental Protection Agency mg/kg = Milligram(s) per kilogram = parts per million J = Result is estimated concentration; detected below Reporting Level. U = Analyte was analyzed for, but not detected below the laboratory detection limit. D = Indicates the compound concentration is the result of a dilution. E = Result is estimated concentration; value reported over verified calibration range. B = Analyte found in associated laboratory blank as well as in sample. ft. bgs = Feet below ground surface * Data presented in this table is preliminary, unvalidated data. Analytical data results provided by Con-Test Analytical. Bold values indicate that the analyte was detected greater than the NYSDEC Unrestricted Use Soil Cleanup Objective Bold Italicized values indicate that the analyte was detected greater than the NYSDEC Residential Use Soil Cleanup Objective Shaded cells indicate that the analyte was detected greater than the NYSDEC Commercial Use Cleanup Objective FD-01 and FD-01-PEST collected at MW-01 SB-FD-01 collected at MW-06																		

Table 10 Summary of Detected Metals, Pesticides, Polychlorinated Biphenyls, Semi-Volatile Organic Compounds, and Cyanide in Soil Boring Samples (May 2018)*																				
Analyte	Sample ID	401075-SB-11A-0-5		401075-SB-12-5-9		401075-SB-13-0-5		401075-SB-14-9-11		401075-SB-15-6-7.5		401075-FD-01		401075-FD-01-PEST		401075-SB-FD-01		Unrestricted Use Soil Cleanup Objective (mg/kg)	Residential Use Soil Cleanup Objective (mg/kg)	Commercial Use Soil Cleanup Objective (mg/kg)
	Laboratory ID	18E0084-05		18E0084-03		18E0010-01		18E0198-14		18E0198-02		18E0198-10		18E0198-16		18E0198-06				
	Interval (ft bgs)	0-5		5-9		0-5		9-11		6-7.5		3-6		8-8.5		5-7				
	Sample Date	5/1/2018		5/1/2018		4/30/2018		5/2/2018		5/2/2018		5/2/2018		5/2/2018		5/2/2018				
	Sample Type	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil				
Metals by USEPA Methods 6010C and 7471B (Mercury)																				
Aluminum	mg/kg	20,000	D	17,000		16,000		15,000		17,000		--		--		19,000		--	--	--
Arsenic	mg/kg	8.8		6.8		5.6		5		6.6		--		--		5.8		13	16	16
Barium	mg/kg	190		130		130		100		65		--		--		220		350	350	400
Beryllium	mg/kg	0.81		1.1		0.96		0.79		0.95		--		--		1.1		7.2	14	290
Cadmium	mg/kg	0.32		0.27		0.22	J	0.17	J	0.16	J	--		--		0.16	J	2.5	2.5	9.3
Calcium	mg/kg	1,100		6,700		12,000		2,000		2,400		--		--		4,300		--	--	--
Chromium, Total	mg/kg	26		25		22		23		25		--		--		21		30	36	1500
Cobalt	mg/kg	16		12		13		10		8.9		--		--		11		---	---	---
Copper	mg/kg	53	B	60	B	33		41		40		--		--		26		50	270	270
Iron	mg/kg	52,000	D	44,000	D	47,000	D	31,000	D	43,000	D	--		--		31,000	D	---	---	---
Lead	mg/kg	18		23		38		21		18		--		--		22		63	400	1000
Magnesium	mg/kg	6,400		5,900		10,000	D	5,000		5,600		--		--		4,200		---	---	---
Manganese	mg/kg	2000		390		710		440		120		--		--		220		1600	2000	10000
Mercury	mg/kg	0.028		0.043		0.12		0.18		0.042		--		--		0.039		0.18	0.81	2.8
Nickel	mg/kg	40		34		27		28		32		--		--		22		30	140	310
Potassium	mg/kg	2,400	D	2,200	D	2,900	D	2,800	D	3,000	D	--		--		3,900	D	---	---	---
Sodium	mg/kg	110		200		190		100		170		--		--		240		---	---	---
Vanadium	mg/kg	23		25		23		21		25		--		--		27		---	---	---
Zinc	mg/kg	87	B	100	B	92		82		96		--		--		78		109	2200	10000
Pesticides by USEPA Method 8081B																				
4,4'-DDD	mg/kg	--		--		--		(< 0.00042)	U	--		--		0.0012	J	--		0.0033	1.8	62
4,4'-DDE	mg/kg	--		--		--		(< 0.00032)	U	--		--		0.0012	J	--		0.0033	1.7	47
4,4'-DDT	mg/kg	--		--		--		(< 0.00042)	U	--		--		0.0012	J	--		0.0033	2.6	92
PCBs by USEPA Method 8082A																				
Aroclor 1254	mg/kg	(< 0.052)	U	(< 0.06)	U	(< 0.017)	U	(< 0.055)	U	(< 0.062)	U	--		--		(< 0.068)	U	0.1	1	1
SVOCs by USEPA Method 8270D																				
1-Methylnaphthalene	mg/kg	(< 0.068)	U	0.19	J	(< 0.087)	U	(< 0.07)	U	(< 0.077)	U	--		--		(< 0.087)	U	--	--	--
2-Methylnaphthalene	mg/kg	(< 0.062)	U	0.084	J	(< 0.079)	U	(< 0.063)	U	(< 0.07)	U	--		--		(< 0.079)	U	--	--	--
Acenaphthene	mg/kg	(< 0.054)	U	(< 0.06)	U	(< 0.068)	U	(< 0.055)	U	(< 0.061)	U	--		--		(< 0.068)	U	20	100	500
Bis(2-Ethylhexyl) Phthalate	mg/kg	(< 0.14)	U	(< 0.16)	U	(< 0.18)	U	(< 0.14)	U	(< 0.16)	U	--		--		(< 0.18)	U	--	--	--
Dibenzofuran	mg/kg	(< 0.062)	U	(< 0.07)	U	(< 0.079)	U	(< 0.063)	U	(< 0.07)	U	--		--		(< 0.079)	U	--	--	--
Fluorene	mg/kg	(< 0.058)	U	(< 0.065)	U	(< 0.073)	U	(< 0.059)	U	(< 0.066)	U	--		--		(< 0.074)	U	30	100	500
Naphthalene	mg/kg	(< 0.091)	U	(< 0.1)	U	(< 0.12)	U	(< 0.093)	U	(< 0.1)	U	--		--		0.27		12	100	500
Phenanthrene	mg/kg	(< 0.092)	U	0.16	J	(< 0.12)	U	(< 0.094)	U	(< 0.1)	U	--		--		(< 0.12)	U	100	100	500
Pyrene	mg/kg	(< 0.059)	U	(< 0.066)	U	(< 0.075)	U	(< 0.06)	U	(< 0.067)	U	--		--		(< 0.075)	U	100	100	500
Total Cyanide by USEPA Method SW9014																				
Cyanide	mg/kg	1.8		3.7		(< 0.31)	U	(< 0.25)	U	(< 0.22)	U	--		--		(< 0.28)	U	27	27	27
Percent Solids by USEPA Method A2540G																				
Solids, Percent	%	93.6		83.9		74.6		92.6		83.9		75.1		75.1		73.2		--	--	--
NOTES:																				
ID = Identification																				
NYSDEC = New York State Department of Environmental Conservation																				
USEPA = United States Environmental Protection Agency																				
mg/kg = Milligram(s) per kilogram = parts per million																				
J = Result is estimated concentration; detected below Reporting Level.																				
U = Analyte was analyzed for, but not detected below the laboratory detection limit.																				
D = Indicates the compound concentration is the result of a dilution.																				
E = Result is estimated concentration; value reported over verified calibration range.																				
B = Analyte found in associated laboratory blank as well as in sample.																				
ft. bgs = Feet below ground surface																				
* Data presented in this table is preliminary, unvalidated data.																				
Analytical data results provided by Con-Test Analytical.																				
Bold values indicate that the analyte was detected greater than the NYSDEC Unrestricted Use Soil Cleanup Objective																				
<i>Bold Italicized</i> values indicate that the analyte was detected greater than the NYSDEC Residential Use Soil Cleanup Objective																				
<i>Shaded cells</i> indicate that the analyte was detected greater than the NYSDEC Commercial Use Cleanup Objective																				
FD-01 and FD-01-PEST collected at MW-01																				
SB-FD-01 collected at MW-06																				

Table 11 Summary of Detected Volatile Organic Compounds in Groundwater Grab Samples, May 2018*

Volatile Organic Compounds via USEPA 8260C	Sample ID	401075-MW-03-GRAB		401075-SB-05-GW		401075-SB-02-GW-GRAB		401075-SB-14-GW-GRAB		401075-SB-FD-GW-01		NYSDEC Ambient Water Quality Standards
	Laboratory ID	18E0084-06		18E0084-12		18E0198-07		18E0198-15		18E0198-08		
	Sample Date	5/1/2018		5/1/2018		5/2/2018		5/2/2018		5/2/2018		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
1,2,4-Trimethylbenzene	µg/L	0.31	J	0.27	J	68	JD	82	JD	60	JD	5
1,3,5-Trimethylbenzene	µg/L	0.21	J	0.15	J	30	JD	43	JD	26	JD	5
Acetone	µg/L	35	J	(<9.7)	U	(<1,900)	U	(<970)	U	(<1,900)	U	--
Benzene	µg/L	0.24	J	(<0.12)	U	(<24)	U	(<12)	U	(<24)	U	1
Carbon Disulfide	µg/L	1.8	J	(<1.0)	U	(<200)	U	(<100)	U	(<200)	U	--
Chloromethane	µg/L	0.78	J	(<0.55)	U	(<110)	U	(<55)	U	(<110)	U	--
Cis-1,2-Dichloroethylene	µg/L	4.3		30		23,000	D	9,600	D	24,000	D	5
Cymene	µg/L	0.16	J	(<0.15)	U	(<30)	U	(<15)	U	(<30)	U	--
N-Butylbenzene	µg/L	0.34	J	(<0.15)	U	(<30)	U	(<15)	U	(<30)	U	5
Sec-Butylbenzene	µg/L	0.18	J	(<0.13)	U	(<26)	U	(<13)	U	(<26)	U	5
Tetrachloroethylene	µg/L	20		72		170	JD	(<27)	U	150	JD	5
Toluene	µg/L	0.66	J	(<0.17)	U	(<34)	U	(<17)	U	(<34)	U	5
Trans-1,2-Dichloroethene	µg/L	(<0.15)	U	1.1		110	JD	(<15)	U	120	JD	5
Trichloroethylene	µg/L	1.4		19		430	D	76	JD	380	D	5
Vinyl Chloride	µg/L	(<0.13)	U	(<0.13)	U	120	JD	37	JD	140	JD	2
NOTES: ID = Identification NYSDEC = New York State Department of Environmental Conservation USEPA = United States Environmental Protection Agency µg/L = Microgram(s) per liter = parts per billion mg/kg = Milligram(s) per kilogram TPH = Total petroleum hydrocarbon VOC = Volatile organic compound J = Result is estimated concentration. U = Analyte was analyzed for, but not detected below the laboratory detection limit. D = Indicates the compound concentration is the result of a dilution. * Data presented in this table is preliminary, unvalidated data. Analytical data results provided by Con-Test Analytical. Bold values indicate that the analyte was detected greater than the NYSDEC Ambient Water Quality Standards. DUPLICATE sample was collected at 401075-SB-02-GW-GRAB.												

Table 12 Summary of Detections in Petroleum Product Grab Sample (May 2018)*

Analyte	Sample ID	401075-SB-06-GW-GRAB	
	Laboratory Sample ID	18E0198-04	
	Sample Date	5/2/2018	
	Sample Type	Petroleum Product	
TPHs by USEPA Method 8015C			
Total Petroleum Hydrocarbons	mg/kg	710,000	
VOCs by USEPA Method 8260C			
1,2,4-Trimethylbenzene	mg/kg	17,000	D
1,3,5-Trimethylbenzene	mg/kg	6,400	D
Cis-1,2-Dichloroethylene	mg/kg	4,300	D
Cymene	mg/kg	2,000	D
Ethylbenzene	mg/kg	840	D
Isopropylbenzene	mg/kg	980	D
m,p-Xylene	mg/kg	1,400	D
Naphthalene	mg/kg	2,800	D
N-Butylbenzene	mg/kg	4,300	D
N-Propylbenzene	mg/kg	2,700	D
O-Xylene	mg/kg	890	D
Sec-Butylbenzene	mg/kg	1,700	D
Tetrachloroethylene	mg/kg	8,300	D
Trichloroethylene	mg/kg	810	D
NOTES:			
ID = Identification			
NYSDEC = New York State Department of Environmental Conservation			
USEPA = United States Environmental Protection Agency			
mg/kg = Milligram(s) per kilogram			
TPH = Total petroleum hydrocarbon			
VOC = Volatile organic compound			
D = Indicates the compound concentration is the result of a dilution.			
* Data presented in this table is preliminary, unvalidated data.			
Analytical data results provided by Con-Test Analytical.			
Bold values indicate that the analyte was detected greater than the NYSDEC Unrestricted Use Soil Cleanup Objective.			
Bold Italicized values indicate that the analyte was detected greater than the NYSDEC Residential Use Soil Cleanup Objective.			
Shaded cells indicate that the analyte was detected greater than the NYSDEC Commercial Use Cleanup Objective.			

Table 13 Summary of Detected VOCs at Soil Vapor (May 2018)*

	Sample ID	401075-SV-04	401075-FD-01
	Laboratory ID	1806005-01A	1806005-02A
	Sample Date	5/22/2018	5/22/2018
	Sample Type	Soil Vapor	Soil Vapor
VOCs by USEPA Method TO15			
Acetone	$\mu\text{g}/\text{m}^3$	19	16
Ethanol	$\mu\text{g}/\text{m}^3$	4.9	4
Isopropanol	$\mu\text{g}/\text{m}^3$	5.8	6.2
Methyl Ethyl Ketone (2-Butanone)	$\mu\text{g}/\text{m}^3$	3.1	2.9
N-Heptane	$\mu\text{g}/\text{m}^3$	1.2	1
N-Hexane	$\mu\text{g}/\text{m}^4$	1.3	0.88
Trichlorofluoromethane	$\mu\text{g}/\text{m}^5$	1.5	1.5
Benzene	$\mu\text{g}/\text{m}^8$	0.7	0.62
M,P-Xylene (Sum Of Isomers)	$\mu\text{g}/\text{m}^3$	0.76	0.69
Tetrachloroethylene (PCE)	$\mu\text{g}/\text{m}^3$	11	1
Toluene	$\mu\text{g}/\text{m}^3$	1.6	1.5
NOTES: ID = Identification NYSDOH = New York State Department of Health VOC = Volatile organic compound $\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter = parts per billion * Data presented in this table is preliminary, unvalidated data. Analytical data results provided by Eurofins Air Toxics, Inc. Per the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, New York State currently does not have standards, criteria, or guidance values for concentrations of compounds in sub-slab vapor.			

Table 14 Summary of VOCs Detected in Groundwater Samples (May 2018)*

Analyte	Sample ID	401075-MW-01	401075-MW-02	401075-MW-03	401075-MW-04	401075-MW-05	401075-MW-06	401075-MW-07	401075-MW-FD	NYSDEC Ambient Water Quality Standards								
	Laboratory ID	18E1297-03	18E1297-04	18E1297-06	18E1297-05	18E1297-01	18E1297-07	18E1297-02	18E1297-08									
	Sample Date	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018									
	Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater									
VOCs via USEPA Method 8260C																		
Cis-1,2-Dichloroethene	µg/L	240	D	1.8		0.97	J	12		590	D	13,000	D	72	D	86	D	5
Tetrachloroethene	µg/L	1,700	D	2.3		13		16		30	D	(<27)	U	88	D	99	D	5
Trichloroethene	µg/L	140	D	0.31	J	0.68	J	0.98	J	21	D	150	D	61	D	74	D	5
Vinyl Chloride	µg/L	(<6.6)	U	(<0.13)	U	(<0.13)	U	(<0.13)	U	1.5	JD	51	JD	(<0.27)	U	(<0.27)	U	2
NOTES: ID = Identification NYSDEC = New York State Department of Environmental Conservation USEPA = United States Environmental Protection Agency VOC = Volatile organic compound µg/L = Microgram(s) per liter = parts per billion J = Result is estimated concentration. U = Analyte was analyzed for, but not detected below the laboratory detection limit. D = Indicates the compound concentration is the result of a dilution. * Data presented in this table is preliminary, unvalidated data. Analytical data results provided by Con-Test Analytical. Bold values indicate that the analyte was detected greater than the NYSDEC Ambient Water Quality Standards. DUPLICATE sample was collected at MW-07.																		

Table 15 Summary of Other Detected Analytes in Groundwater Samples (May 2018)*

Analyte	Sample ID	401075-MW-01	401075-MW-02	401075-MW-03	401075-MW-04	401075-MW-05	401075-MW-06	401075-MW-07	401075-MW-FD	NYSDEC AWQS Class GA Groundwater					
	Laboratory ID	18E1297-03	18E1297-04	18E1297-06	18E1297-05	18E1297-01	18E1297-07	18E1297-02	18E1297-08						
	Sample Date	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018						
	Sample Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater						
SVOCs by USEPA Method 8270D															
	µg/L	Insufficient Volume No Sample Collected	No Detections											--	
Pesticides by USEPA Method 8081															
4,4'-DDE [1]	µg/L	Insufficient Volume	Insufficient Volume	(< 0.0016)	U	Insufficient Volume	(< 0.0016)	U	0.0055	J	(< 0.0016)	U	(< 0.0016)	U	0.2
4,4'-DDT [1]	µg/L	No Sample Collected	No Sample Collected	(< 0.0024)	U	No Sample Collected	(< 0.0024)	U	0.016	J	(< 0.0024)	U	(< 0.0024)	U	0.2
PCBs by USEPA Method 8082A															
	µg/L	Insufficient Volume No Sample Collected	Insufficient Volume No Sample Collected	No Detections		Insufficient Volume No Sample Collected	No Detections						--		
Metals by USEPA Method 6010															
Aluminum	mg/L	Insufficient Volume No Sample Collected	Insufficient Volume No Sample Collected	0.098	U	Insufficient Volume No Sample Collected	0.062	U	2.7		0.13		(< 0.037)	U	--
Arsenic	mg/L			(< 0.008)	U		(< 0.008)	U	(< 0.008)	U	0.01		0.0097	J	0.025
Barium	mg/L			0.02	J		0.067		0.25		0.03	J	0.028	J	1
Calcium	mg/L			19			56		100		120		120		--
Cobalt	mg/L			(< 0.008)	U		(< 0.008)	U	0.0091	J	0.013	J	0.012	J	--
Copper	mg/L			0.0065	J		(< 0.0028)	U	0.0085	J	0.0079	J	0.0072	J	0.2
Iron	mg/L			0.14			0.21		3.2		6.9		6.5		0.3
Magnesium	mg/L			1.8			32		67		19		19		35
Manganese	mg/L			0.032			1.5		7.1		3.1		2.9		0.3
Mercury	mg/L			(< 0.000034)	U		(< 0.000034)	U	(< 0.000034)	U	0.00012		0.00011		0.0007
Potassium	mg/L			3.9			(< 0.32)	U	4.5		14		14		--
Sodium	mg/L			3.6			(< 2.8)	U	67		20		20		20
Vanadium	mg/L	(< 0.0047)	U	(< 0.0047)	U	0.01		(< 0.004)	U	(< 0.0047)	U	--			
Zinc	mg/L	0.0062	J	(< 0.0052)	U	0.0096	J	0.01		0.0093		--			
NOTES: DDE = Dichlorodiphenyldichloroethylene DDT = Dichlorodiphenyltrichloroethane ID = Identification NYSDEC = New York State Department of Environmental Conservation SVOC = Semi-volatile organic compound USEPA = United States Environmental Protection Agency µg/L = Microgram(s) per liter = parts per billion mg/L = milligram(s) per liter = parts per million J = Result is estimated concentration. U = Analyte was analyzed for, but not detected below the laboratory detection limit. SVOC = Semi-Volatile Organic Compounds * Data presented in this table is preliminary, unvalidated data. Analytical data results provided by Con-Test Analytical. Bold values indicate that the analyte was detected greater than the NYSDEC Ambient Water Quality Standards. DUPLICATE sample was collected at MW-07.															

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Attachment 1

Phase I Remedial Investigation Soil Boring Logs Groundwater Purge Logs

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EA Engineering, P.C.
EA Science and Technology

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: B-01

Drilling Method: Geoprobe Direct-Push
Sampling Method: 60 10 DT

Soil Boring Number:

Sheet 1 of

LOG OF SOIL BORING
Coordinates: Northing Easting:

Surface Elevation:

Casing Below Surface:

Reference Elevation:

Reference Description:

Macrocore®
Water Level: Start Finish
Time: Date: 4/30/18 Date: 4/30/18
Date: 1320 Time: 1345

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Surface Conditions: <i>Inside AC building</i>
	5/2.0			0		0' - 10" Cement + pulverized
				1		10" - 1'3" dry crumbly med. brown clay w/ trace shale frags
			84.5	2		1'3" - 2.0' med brown malleable clay dense
				3		
				4		
				5		5.0 - 6.11" Tan to light brown dry crumbly clay w/ trace pebbles
	5/3.10"		79.4	6		6.11" - 8.0' med brown dry crumbly clay w/ pebbles
				7		8.0
			79	8		8.0 - 9.0' powdered silty w/ shale frags.
				9		VOC collected @ 8.0 - 9.0'
				10		Refusal @ 9.0'
				11		
				12		
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech

Date: 4/30/18
Driller: JEFF M...



EA Engineering, P.C.
EA Science and Technology

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: B-03

Drilling Method: Geoprobe Direct-Push
Sampling Method: 6610DT

Soil Boring Number:

LOG OF SOIL BORING
Coordinates: Northing Easting:

Surface Elevation:

Casing Below Surface:

Reference Elevation:

Reference Description:

Macrocore® Drilling
Water Level: Start Finish
Time: Date: 4/30/18 Date: 4/30/18
Date: 1240 Time: 1315

Surface Conditions: Inside AC building
Weather:
Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log
	5/2'6"			0	0-6" cement
				1	6"-1'3" med brown silty clay w/ trace pebbles
				2	1'3"-2'6" brown clay 10.6 ppm @ 2'3"
				3	
				4	
	5/3'9"			5	5.0-7.3" Dry crumbly light tan clay
				6	
				7	7'3"-8.0' med brown dense moist clay
				8	8.0-8'6" moist clay silty (vacuolated) 6.6 ppm @ 8'2"
				9	8'6"-8'9" silty dark brown
	5/2'0"			10	water table @ 10-11' moist brown clay
				11	11-12.0' Dry crumbly gray/white clay w/ trace shale frags 11'6"-12.0' 2 ppm
				12	Ref-sol @ 12.0'
				13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
				29	

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech

Date: 4/30/18
Driller: Jeff Marra



EA Engineering, P.C.
EA Science and Technology

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: B-~~12~~ 13

Drilling Method:
Geoprobe Direct-Push (GPR) (GPR)
Sampling Method:

Soil Boring Number:

Sheet 1 of

LOG OF SOIL BORING
Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Macrocore®
Water Level: _____ Start _____ Finish _____
Time: _____ Date: 4/30/18 Date: 4/30/18
Date: _____ Time: 0945 Time: 1005

Surface Conditions: Inside AC building
Weather: _____
Temperature: _____

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log
	5/3		0.4	0	
				1	
				2	
				3	
				4	
	5/208"		0.4	5	
				6	
				7	
				8	
				9	
				10	
				11	
				12	
	3 5/8"			13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
				29	

0-0.6" concrete gravel
0.6'-1.4" tan-brown fine sand compact, dry sand packed rubble
1.4'-2.0' compact clay light brown
4.0'-5.0' - 6.8" Light brown compact dense clay: dry medium.
6.8'-7.0' dry brown clay with some pebbles dry
0-1' SAA CLAY
1'-2' Dry, LOOSE, VERY FINE, ROCK DUST INTO SHALEY ROCK
REFUSAL @ 12.5'

Monitoring Well Construction Information				Soil Vapor Point Installation Information			
Monitoring Well Diameter:	_____	in		Depth of Soil Vapor Point:	_____	ft	
Bottom of Monitoring Well:	_____	ft bgs		Bottom of Tubing:	_____	ft	
Stick Up or Flush Mount:	_____			Top of Sand Pack:	_____	ft	
Screen Interval:	_____	To _____	ft bgs	Top of Bentonite Seal:	_____	ft	
Riser Interval:	_____	To _____	ft bgs				
Sand Pack Interval:	_____	To _____	ft bgs				
Bentonite Seal:	_____	To _____	ft bgs				
Grout Interval:	_____	To _____	ft bgs				

Logged by: Stephen Soldner/Justin Marra Date: 4/30/18
Drilling Contractor: Aztech Driller: JEFF MORGAN

0.4 Ambient air PID reading



EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____

Surface Elevation: _____

Casing Below Surface: _____

Reference Elevation: _____

Reference Description: _____

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: SB-05

Drilling Method: _____

Geoprobe Direct-Push BB10DT

Sampling Method: _____

Soil Boring Number: _____

Sheet 1 of _____

Macrocore® _____

Drilling _____

Water Level: _____

Start _____

Finish _____

Time: _____

Date: 5/1/18

Date: _____

Date: _____

Time: _____

Time: _____

Surface Conditions: _____

Weather: _____

Temperature: _____

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log
	5/11"		0.2	0	
			↓	1	
				2	
				3	
				4	
	5/24"		5	5	
			60	6	
			45	7	
			15	8	
				9	
				10	
				11	
				12	
				13	
			3	14	
				15	
			2	16	
			1.5	17	
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
				29	

0.5" Topsoil

5" - 14" poorly sorted dark brown sand, gravel, little clay trace
fine sand

5.0' - 5.6" moist gray clay with some rock frags

5.6" - 7.4" light brown dry clay with little gravel
trace sand, slight petroleum odor

Refusal @ 13.0'

Collect 401075-SB-05-5-5-10

loc collect from depth 6.0' - 6.6'

10.0' - 11.6" wet poorly sorted fine sand, gravel and
clay like brown

11.6" - 12.0' dry light brown clay full w/ rock frags

12.0' - 13.0' bedrock / shale below

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra

Drilling Contractor: Aztech

Date: 5/1/18

Driller: Jeff Morgan



EA Engineering, P.C.
EA Science and Technology

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location:

SB-08

Drilling Method:
Geoprobe Direct-Push
Sampling Method:

Soil Boring Number:

Sheet 1 of

LOG OF SOIL BORING
Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Macrocore®
Water Level: _____ Start _____ Finish _____
Time: _____ Date: 5/1/18 Time: 1500 Date: 5/1/18
Date: _____ Time: _____

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Surface Conditions: <u>grass</u>
	5/3.0'		0	0		0-3" Topsoil 3"-1'2" poorly graded med brown clay, sil + fine little shale frags
			1	1		
			2	2		1'2"-2'1" Med brown stiff clay + fine sil, must
			3	3		2'1"-3.0' Med brown clay, stiff, dense
			4	4		
	5/4.5		5	5		5.0-6'5" SAA
			6	6		6'5"-7'0" light gray gravel w/ dry clay
			7	7	713	7.0-7'6" poorly graded clay w/ gravel + sil (H.H.)
			8	8	63.3	7'6"-9'6" Med brown clay w/ fine sil + gravel
			9	9		
			10	10		Ref-1 @ 9.5'
			11	11		Collect 401075-SB-08-5-9.5 @ 1510
			12	12		Collect VOC grab @ 7.5-9.5'
			13	13		(MS/MSD collected)
			14	14		
			15	15		
			16	16		
			17	17		
			18	18		
			19	19		
			20	20		
			21	21		
			22	22		
			23	23		
			24	24		
			25	25		
			26	26		
			27	27		
			28	28		
			29	29		

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech

Date: 5/1/18
Driller: Jeff Morgan



EA Engineering, P.C.
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LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____

Surface Elevation: _____

Casing Below Surface: _____

Reference Elevation: _____

Reference Description: _____

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: SB-09

Drilling Method: Geoprobe Direct-Push
Sampling Method: 6610 DT

Soil Boring Number:

Sheet 1 of

Macrocore®

Drilling

Water Level:

Start

Finish

Time:

Date:

Time:

Date:

Date:

Time:

Date:

Blow Counts (140-lb) Ft. Driven/ Ft. Recvd Boring Diagram PID (ppm) Depth in Feet USCS Log

Surface Conditions:

Weather:

Temperature:

0-3" pavement

3"-1' poorly graded med brown clay w/ sand sil, trace gravel

1.0'-2.3" light brown st. & clay little sand + gravel. 7.11

5.0'-5.11" poorly graded sand w/ clay little fines + gravel med brown

5.11'-9.0' moist dense, stiff clay with little fine sand / fine gravel

9.0'-10.0' light tan / gray very fine shale / bedrock

Refusal @ 10.0'

Collect @ 401075-SB-09-5-10 @ 1440

vac grab 8.0-8.05'

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra

Drilling Contractor: Aztech

Date: 5/1/18

Driller: Jeff Morgan



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LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Job No. 1490738	Client: Project:	NYSDEC 401075 - Admiral Cleaners	Location: MW-04/SU-04
Drilling Method: Geoprobe Direct-Push			Soil Boring Number:
Sampling Method:			Sheet 1 of
Macrocore®		Drilling	
Water Level:		Start	Finish
Time:		Date: 5/1/18	Date: 5/1/18
Date:		Time: 12/5	Time: 1450

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Surface Conditions: Weather: Temperature:
	5/19'			0		0-5" Topsoil
				1		5"-8" blue shale fog
				2		8"-1'9" med brown clay, sand, silt w/ trace gravel
				3		dry, crumbly, fill
				4		
	5/5.0'			5		5.0'-9.0' SAA down, compact
				6		
				7		
				8		
				9		9.0'-10.0' pulverized shale bedrock, thin layer of
				10		grit-like (~1") above bedrock
				11		
				12		Collect 401075-MW-04-5-10 @ 1350
				13		VOC collected @ 8.5'-9.0'
				14		
				15		
				16		8.25'-10.0'-Glass beads
				17		8.25'-0.5' Bentonite
				18		0.5'-5' thick sand
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Monitoring Well Construction Information		Soil Vapor Point Installation Information	
Monitoring Well Diameter: _____ in		Depth of Soil Vapor Point: _____ ft	
Bottom of Monitoring Well: _____ ft bgs		Bottom of Tubing: _____ ft	
Stick Up or Flush Mount: _____		Top of Sand Pack: _____ ft	
Screen Interval: _____ To _____ ft bgs		Top of Bentonite Seal: _____ ft	
Riser Interval: _____ To _____ ft bgs			
Sand Pack Interval: _____ To _____ ft bgs			
Bentonite Seal: _____ To _____ ft bgs			
Grout Interval: _____ To _____ ft bgs			
Logged by: Stephen Soldner/Justin Marra		Date: 5/1/18	
Drilling Contractor: Aztech		Driller: JCFE Mergo	



EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location:

Drilling Method: Geoprobe Direct-Push
Sampling Method: 6610 DPT

Soil Boring Number: MW-03/SV-03
Sheet 1 of

Macrocore®
Water Level: _____ Start _____ Finish _____
Time: _____ Date: 5/1/18 Time: 11:15 Date: 5/1/18
Date: _____ Time: 12:10

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Surface Conditions: Weather: Temperature:	
	5/2.0'		0.2	0		0-6" Topsoil	
				1		6"-1'1" Brown crumbly soil w/ little shale frags throughout	
				2		1'1"-1'5" light tan crumbly soil	
				3		1'5"-2.0' crumbly brown clay w/ gravel	
				4			
	5/5.0'			0.5	5		Light brown dy clay with gravel throughout (5-7.0')
					6		
					7		7'-10' SAA but most more sand at 9'-10'
					8		
					9		
	5/3.5'		1.6	10		Saturated Med brown soil + clay (10-10.5') glacial fill	
				11		11.0-12.5 Med brown dense clay w/ little gravel	
				12		12.5-13.0 gray dy block	
				13		Refined C 13.0'	
				14			
				15		Collect 401075-MW-03-GRAB @ 1132	
				16		Collect 401075-MW-03-10-13 @ 1140	
				17		VOC from 11.5-12.0'	
				18			
				19			
				20			
				21		SV-03	
				22		8' bgs	
				23			
				24		6" steel screen (8-7.5")	
				25		6-7.5' glass beads	
				26		6.0-Surface - Bentonite	
				27			
				28			
				29			

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech

Date: 5/1/18
Driller: Jeff Morgan



EA Engineering, P.C.
EA Science and Technology

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: SB-10

Drilling Method: Geoprobe Direct-Push (6610DT)
Sampling Method:

Soil Boring Number:

Sheet 1 of

LOG OF SOIL BORING
Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Macrocore®
Water Level: _____ Start _____ Finish _____
Time: _____ Date: 5/1/18 Date: 5/1/18
Date: _____ Time: 11:15 Time: _____

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Surface Conditions: <i>Partly Rock / P1</i>
	5/2'8"		0.1	0		0-6" Cont, top soil
				1		6"-1.0' Red colored sand + gravel
				2		1'-2'8" Med brown silt, sand, clay with little gravel
				3		
				4		
	5/4.0		0.2	5		5.0'-6'8" SAA
				6		
				7		6'8"-8'0" Med brown dense clay little gravel. moist
				8		8'0"-9'5" silty brownish gray
				9		
				10		Refusal @ 9'5"
				11		
				12		
				13		Collect 401075-SB-10-5-9.5 @ 13'5"
				14		VOC collected from 8.5'-9.0'
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech

Date: 5/1/18
Driller: Jeff Morgan



EA Engineering P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____

Surface Elevation: _____

Casing Below Surface: _____

Reference Elevation: _____

Reference Description: _____

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: SD-11

Drilling Method: _____
Geoprobe Direct-Push 6661 ODT
Sampling Method: _____

Soil Boring Number: _____

Sheet 1 of _____

Macrocore® _____
Drilling _____
Water Level: _____ Start _____ Finish _____
Time: _____ Date: 5/1/12 Date: 5/1/12
Date: _____ Time: 10:25 Time: 11:05

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Surface Conditions: <u>Parent</u>
	<u>5/3'8"</u>			0		Weather: <u>Sing</u>
				1		Temperature: <u>68°</u>
			<u>0.3</u>	2		<u>0-8" Cement/parent</u>
			<u>1</u>	3		<u>8"-1'8" light brown dry crumbly clay with little</u>
				4		<u>gravel throughout, shale frags</u>
				5		
	<u>5/6'6"</u>			6		<u>6" Recovery</u>
				7		
				8		<u>Refusal @ 6.0'</u>
				9		<u>Moved Geoprobe 2' with try SB-11 in new location</u>
				10		<u>SB-11 SAA 0-1'8"</u>
				11		
				12		
				13		
				14		
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech

Date: 5/1/12
Driller: Jeff Mury



EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Job. No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: SB-12

Drilling Method: _____
Geoprobe Direct-Push: 6410DT
Sampling Method: _____

Soil Boring Number: _____

Sheet 1 of _____

Macrocore® _____
Drilling _____
Water Level: _____ Start _____ Finish _____
Time: _____ Date: 5/1/18 Date: 5/1/18
Date: _____ Time: 0955 Time: _____

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Surface Conditions: Weather: Temperature:
	5/2' 10"		0.3	0		0-10" Cement
				1		10"-2' 10" Brown dense clay trace gravel
				2		
				3		
				4		
				5		5.0-6' 10" SSA SAA
	5/4.0			6		
				7		6' 10"-8' 10" Prg crumbly brown clay w/ ^{1" H₂O} trace gravel
			1.2	8		8' 6"-8' 10" VOC grab, petroleum odor
				9		
				10		Refusal @ 9.0'
				11		
				12		VOC grab at depth 8' 6"-8' 10"
				13		
				14		Collect 401075-SB-12-5-9 @ 10' 10"
				15		
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech

Date: 5/1/18
Driller: _____



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LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____

Surface Elevation: _____

Casing Below Surface: _____

Reference Elevation: _____

Reference Description: _____

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: SB-04

Drilling Method: _____

Geoprobe Direct-Push 10610DT

Soil Boring Number: SB-04

Sampling Method: _____

Sheet 1 of _____

Macrocore®

Drilling

Water Level: _____

Start

Finish

Time: _____

Date: 5/1/18

Date: 5/1/18

Date: _____

Time: 0910

Time: 0920

Surface Conditions: Topsoil / Grass

Weather: Sunny

Temperature: 60°

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	
	<u>5'2 1/2"</u>		<u>0.3</u>	<u>0</u>		<u>0-7" Brown Topsoil</u>
				<u>1</u>		<u>7" - 10" gray crumbly clay w/ trace pebbles</u>
				<u>2</u>		<u>10" - 1'9" dry crumbly red brown clay w/ 1/4" pebbles</u>
				<u>3</u>		<u>1'9" - 2'2" Brown dense clay compact</u>
				<u>4</u>		
	<u>5'2'10"</u>		<u>2.9</u>	<u>5</u>		<u>5.0 - 6.0' SAA</u>
			<u>5.6</u>	<u>6</u>		<u>6.0 - 7'2" poorly compacted brown clay dry crumbly trace pebbles</u>
	<u>5'</u>			<u>7</u>		<u>7'2" - 7'10" light brown poorly sorted dry clay w/ 1/4" pebbles</u>
				<u>8</u>		<u>light brown clay</u>
				<u>9</u>		
	<u>5'1/2'0"</u>		<u>6.2</u>	<u>10</u>		<u>10.0 - 11.0' Dense fairly sorted brown clay pebbles</u>
			<u>6.5</u>	<u>11</u>		<u>11.0 - 11'6" Dry crumbly light brown clay w/ trace pebbles</u>
				<u>12</u>		<u>Refusal @ 12.0' 11'6" - 12.0' Pulverized rubble / broken rock</u>
				<u>13</u>		<u>dry</u>
				<u>14</u>		
				<u>15</u>		<u>Collect sample @ 0920 from 10'-12'</u>
				<u>16</u>		<u>100 grab from 10.5'-11.0'</u>
				<u>17</u>		
				<u>18</u>		
				<u>19</u>		
				<u>20</u>		
				<u>21</u>		
				<u>22</u>		
				<u>23</u>		
				<u>24</u>		
				<u>25</u>		
				<u>26</u>		
				<u>27</u>		
				<u>28</u>		
				<u>29</u>		

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra

Drilling Contractor: Aztech

Date: 5/1/18

Driller: Jeff Mann

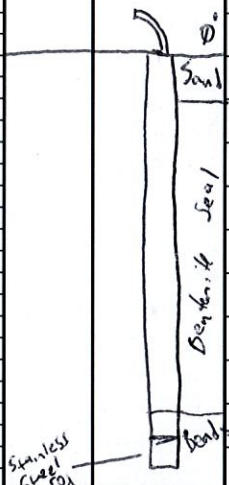


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Job No. 1490738	Client: Project: NYSDEC 401075 - Admiral Cleaners	Location: Mw/2 / SV02
Drilling Method: Geoprobe Direct-Push		Soil Boring Number:
Sampling Method:		Sheet 1 of
Macrocore®		Drilling
Water Level:	Start	Finish
Time:	Date: 5/1/18	Date: 5/1/18
Date:	Time: 0805	Time: 0900

LOG OF SOIL BORING
Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Surface Conditions: Topsoil / Grass Weather: Clear, Sunny Temperature: 55°
	5/2'3"		0.3	0		0-1" Topsoil Brown Org
				1		11"-1'8" Light brown soil w/ trace shale frag. little clay
				2		1'8"-2'3" Med brown soil trace pebbles
				3		
				4		
	5/5.0		0.5	5		5.0'-9'4" Med brown druse clay
				6		
				7		
				8		
				9		9'4"-10'9'10" Light brown dry crumbly clay
				10		9'10"-10.0' ggy pulverized rock
				11		A little moist directly above bedrock
				12		VOC grab collected directly above bedrock (9'4"-9'10")
				13		Sample Interval 5-10' 0.5-0 - SAND
				14		5'-0.5' soil
				15		Refusal @ 10.0' 9' 10-5' SAND
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		



Monitoring Well Construction Information			Soil Vapor Point Installation Information		
Monitoring Well Diameter:	in		Depth of Soil Vapor Point:	4.0	ft
Bottom of Monitoring Well:	ft bgs		Bottom of Tubing:		ft
Stick Up or Flush Mount:			Top of Sand Pack:		ft
Screen Interval:	To	ft bgs	Top of Bentonite Seal:		ft
Riser Interval:	To	ft bgs			
Sand Pack Interval:	To	ft bgs			
Bentonite Seal:	To	ft bgs			
Grout Interval:	To	ft bgs			

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech
Date: 5/1/18
Driller: Jeff Morgan

0.3 Ambient Air PPM



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LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: SB-14

Drilling Method: Geoprobe Direct-Push
Sampling Method: 420 M

Soil Boring Number:

Sheet 1 of

Macrocore® Drilling
Water Level: _____ Start _____ Finish _____
Time: _____ Date: 5/2/18 Time: _____ Date: 5/2/18
Date: _____ Time: _____

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Surface Conditions: <i>Inter concrete slab</i>
	8/19"			0		
			1.7	1		0'-1'7" <i>partly sorted med sand + gravel, little clay</i>
				2		1'7"-1'9" <i>med brown clay, stiff, trace sand/gravel</i>
	3/3.0		1.5	3		3'0"-3'2" <i>SAA</i>
			1.3	4		3'2"-6'0' <i>med brown stiff dense clay</i>
			3.3	5		
	3/3.0		100 800	6		6'0"-7'6" <i>SAA</i>
			160	7		7'6"-9'0" <i>very fine med brown fill trace gravel</i>
			113	8		
	3/2.0		86.8	9		9'0"-9'6" <i>med brown dense stiff clay</i>
			36.9	10		9'6"-10'8" <i>very fine med brown, gravel fill, trace gravel</i>
			103	11		10'8"-11'0" <i>partially bedrock/shale</i>
			44.9	12		
			22.7	13		Refusal @ 11.0'
				14		
				15		Collect 401075-SB-14-9-11 @ 1420
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech

Date: 5/2/18
Driller: Jeff Morgan



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LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____

Surface Elevation: _____

Casing Below Surface: _____

Reference Elevation: _____

Reference Description: _____

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: MW-06

Drilling Method: _____

Geoprobe Direct-Push 420 A

Sampling Method: _____

Soil Boring Number: _____

Sheet 1 of _____

Macrocore®

Drilling

Water Level: _____

Start

Finish

Time: _____

Date: 5/2/18

Date: 5/2/18

Date: _____

Time: _____

Time: _____

Surface Conditions: Interior concrete slab

Weather: _____

Temperature: _____

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log
	3/1/011		1.9	0	
				1	
				2	
	3/3.0'		2.0	3	
				4	
				5	
	3/4.0'		14.5	6	
			16.5	7	
				8	
				9	
				10	
				11	
				12	
				13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
				29	

0-1'9" Mud brown and sand w/ little clay, shale
frag. loosely compacted crumbly, dry

3.0-6.0 Mud brown dense, stiff clay dry

6-6.75 SAA

6.75-7.0 - Bedrock / shale

Refusal @ 7.0'

Collect 401075-MW-06-5-7

VOC collected from 6-6.5'

FD-01 for SVOC/PCB/TAL-M/TCN

collected here

Collect 401075-MW-06-7

-VOC only

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra

Drilling Contractor: Aztech

Date: 5/2/18

Driller: Jeff Morgan



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Job No. 1490738
Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: MW-01/SV-01

Drilling Method:
Geoprobe Direct-Push 420 M
Sampling Method:

Soil Boring Number:

Sheet 1 of

LOG OF SOIL BORING
Coordinates: Northing _____ Easting: _____
Surface Elevation: _____
Casing Below Surface: _____
Reference Elevation: _____
Reference Description: _____

Macrocore®
Water Level: _____ Start _____ Finish _____
Time: _____ Date: 5/2/18 Date: 5/2/18
Date: _____ Time: _____ Time: _____

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log	Surface Conditions: 30.1 lbs/sq ft Weather: Sunny Temperature: 80.0
	3/1'6"		114	0		0'-6" Grass, topsoil
			14.2	1		6'-1'6" Fine Sand w/ little clay, gravel trace silt, med. st
				2		
	3/2'3"		42.8	3		3.0-4.5 SAA
			22.3	4		4.5-6.0 med brown clay w/ trace gravel
				5		
	3/3.0		6.0	6		6.0-8.0 - Med brown dense clay, stiff
			5.2	7		
			16.9	8		8.0-8.75 pulverized bedrock, shale
			15.8	9		
				10		Refusal @ 8.75'
				11		
				12		Collect 401075-MW-01-3-6
				13		401075-FD-01 (VOC Soil only)
				14		401075-MW-01-8-8.5 (VOC Soil only)
				15		401075-FD-01-PEST
				16		
				17		
				18		
				19		
				20		
				21		
				22		
				23		
				24		
				25		
				26		
				27		
				28		
				29		

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech

Date: 5/2/18
Driller: JCF Moya



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LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____

Surface Elevation: _____

Casing Below Surface: _____

Reference Elevation: _____

Reference Description: _____

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: SB-02

Drilling Method: Geoprobe Direct-Push 920M

Soil Boring Number:

Sampling Method:

Sheet 1 of

Macrocore®

Drilling

Water Level:

Start

Finish

Time:

Date:

5/2/18

Date:

5/2/18

Date:

Time:

11:30

Time:

Surface Conditions: Indoor

Weather:

Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log
	3/1		10.3	0	
				1	
				2	
	3/3		12.5	3	
			7	4	
			170	5	
	3/3		172	6	
			92.9	7	
			47.2	8	
				9	
				10	
				11	
				12	
				13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
				29	

Fall back from core cannot floor

3.0-6.0 st. ff. dense med brown clay trace gravel

5'8"-6'0" med brown dense clay w/ 1 1/4" fine sand

0-25' med brown st. ff. dense clay w/ 1 1/4" fine sand 114

2.5-8.0' pulverized bedrock, shale

Refined e p.o.

Collect 401075-SB-02-3-6 C 1150

VOC Collect from 5'8"

FD-01 collected here for SVOC/PCB/THA/TCN

Collect 401075-SB-02-6W-6 GRAB

401075-SB-FD-6W-01

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra

Drilling Contractor: Aztech

Date: 5/2/18

Driller: Jeff Morgan

Amount core 4 ppm



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LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____

Surface Elevation: _____

Casing Below Surface: _____

Reference Elevation: _____

Reference Description: _____

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: 8B-06

Drilling Method: Geoprobe Direct-Push

Sampling Method: 420M

Soil Boring Number:

Sheet 1 of

Macrocore®

Water Level: _____

Time: _____

Date: _____

Start

Date: 5/2/18

Time: _____

Drilling

Finish

Date: 5/2/18

Time: _____

Surface Conditions: *Under*

Weather:

Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvrd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log
	3'1'6"		0	0	
				1	
				2	
				3	
	3'1'2.0'		3.7	4	
			14.1	5	
				6	
	3'1'2.0'		17.3	7	
			28.0	8	
			32.5	9	
			55	10	
			41.5	11	
				12	
				13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
				29	

0-6" fine - med sand w/ trace gravel little clay
6"-1'6" med brown clay w/ little med/fine sand + trace gravel
Shale Frag. heaviest
3.0- med brown silty clay w/ trace gravel
8.0-8.0 SAA. Strong petroleum odor @ 7.0-8.0'
Shun on outside of clay from 8.0-9.0'
Much looser compacted @ 7.5-9.0' more sand
9.0-9.5 loosely compacted clay w/ some fine sand
587 pl. 54-oz shun / odor
Refers @ 9.5'
Collect 401075-SB-06-6-9 C1020
VOC collected @ 7.5'

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra

Drilling Contractor: Aztech

Date: 5/2/18

Driller: Jeff Morgan



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LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____

Surface Elevation: _____

Casing Below Surface: _____

Reference Elevation: _____

Reference Description: _____

Job. No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: Admiral B-15

Drilling Method: _____

Geoprobe Direct-Push ✓20A

Sampling Method: _____

Soil Boring Number: _____

Sheet 1 of _____

Macrocore® 3' core

Water Level: _____

Time: _____

Date: _____

Start

Drilling

Finish

Date: 5/2/18

Time: _____

Date: 5/2/18

Time: _____

Surface Conditions: _____

Weather: _____

Temperature: _____

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log
	3/17"			0	
				1	
				2	
	3/3.0'			3	
				4	
				5	
	3/1.5"			6	
				7	
				8	
				9	
				10	
				11	
				12	
				13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
				29	

0-8" moist mud brown clay w/ some mud sand & gravel
8"-9" fine tan sand
9"-17" dry crumbly mud brown clay w/ little fine sand & gravel
3-6' mud brown dry stiff clay w/ trace gravel
6.0-7.0' SAA
7.0-7.5' Dry crumbly clay w/ trace gravel, shale frag.
Refusal @ 7.5'
Collect ~~core~~ 401075-SB-15-6-7.5
Loc collected @ 6.0-6.5'
w/o restrictions

Monitoring Well Construction Information

Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech

Date: 5/2/18
Driller: Jeff Morgan



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LOG OF SOIL BORING

Coordinates: Northing _____ Easting: _____

Surface Elevation: _____

Casing Below Surface: _____

Reference Elevation: _____

Reference Description: _____

Job No. 1490738 Client: NYSDEC
Project: 401075 - Admiral Cleaners

Location: SB-07

Drilling Method: Geoprobe Direct-Push

Sampling Method: Macrocore® 3' runs

Soil Boring Number:

Sheet 1 of

Water Level: _____ Start Date: 5/2/18 Time: 0900
Finish Date: 5/2/18 Time: 0930

Surface Conditions:

Weather:

Temperature:

Blow Counts (140-lb)	Ft. Driven/ Ft. Recvd	Boring Diagram	PID (ppm)	Depth in Feet	USCS Log
	2/14"			0	
			0.3	1	
				2	
	3/3.0'		0.7	3	
			124	4	
			62	5	
	3/2.0'		7.0	6	
			8.7	7	
			2.8	8	
	3/2.0'		5.7	9	
			1.1	10	
			1.8	11	
				12	
				13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
				29	

0-1'8" Med brown moist coarse sand + gravel w/ 14% clay
1'6"-1'9" SAA w/ some clay
3.0'-6.0' Med brown dense clay w/ trace gravel
124 ppm PDP naty @ 4.0' Retention above 4'
6.0'-7.0' SAA. Dry sandy bottom
7.0'-9.0' Dry fine silt + clay crumbly trace gravel
8.0'-9.0' Moist clay med brown w/ trace gravel
9'6"-11.0' Dry clay w/ fine sand trace gravel. H.S.
Refusal @ 11'
Collect 401075-SB-07-3-6
VOC collected @ depth 3'6"-4.0'
MS/MSD collected w/o preservatives

Monitoring Well Construction Information

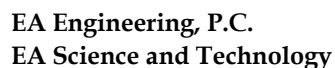
Monitoring Well Diameter: _____ in
Bottom of Monitoring Well: _____ ft bgs
Stick Up or Flush Mount: _____
Screen Interval: _____ To _____ ft bgs
Riser Interval: _____ To _____ ft bgs
Sand Pack Interval: _____ To _____ ft bgs
Bentonite Seal: _____ To _____ ft bgs
Grout Interval: _____ To _____ ft bgs

Soil Vapor Point Installation Information

Depth of Soil Vapor Point: _____ ft
Bottom of Tubing: _____ ft
Top of Sand Pack: _____ ft
Top of Bentonite Seal: _____ ft

Logged by: Stephen Soldner/Justin Marra
Drilling Contractor: Aztech

Date: 5/2/18
Driller: Jeff Mays



Well I.D.: MW-01	EA Personnel: J.Marra/L.Mairs	Client: NYSDEC
Location: Admiral Cleaners, Watervliet, NY	Well Condition: New	Weather: 50 F/Overcast/Light rain
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 5/22/2018	Measurement Ref:
	Gauge Time: 9:35	Top of Casing (TOC)
Stick Up/Down (ft): Down 0.5-ft	PID Headspace Reading (ppb): 0	Well Diameter (in): 1

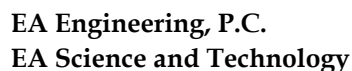
Purge Date: 22-May-18	Purge Time: 12:26
Purge Method: Low Flow via Peristaltic Pump	Field Technician: J.Marra/L.Mairs

A. Well Depth (ft): 7.64	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down 0.5-ft
B. Depth to Water (ft): 7.19	E. Well Volume (gal) (C*D): 0.01845	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 0.45	F. Three Well Volumes (gal) (E3): 0.05535	Pump Intake Depth: NA

[illegible]

Total Quantity of Water Removed (gal):	0.00	Sampling Time:	17:01
Samplers:	JM/LM	Split Sample With:	--
Sampling Date:	5/22/2018	Sample Type:	VOC-GW Grab

COMMENTS AND OBSERVATIONS: No recordings, well purged dry immediately. Allowed time to recharge. Sampled at 1701 for VOCs



Well I.D.: MW-02	EA Personnel: J.Marra/L.Mairs	Client: NYSDEC
Location: Admiral Cleaners, Watervliet, NY	Well Condition: New	Weather: 43°F / Partly cloudy
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 5/22/2018	Measurement Ref:
	Gauge Time: 9:25:00	Top of Casing (TOC)
Stick Up/Down (ft): Down 0.3-ft	PID Headspace Reading (ppb): 0.8	Well Diameter (in): 1

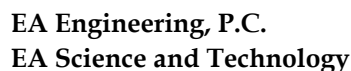
Purge Date: 22-May-18	Purge Time: 12:16
Purge Method: Low Flow via Peristaltic Pump	Field Technician: JM

A. Well Depth (ft): 9.35	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down 0.3-ft
B. Depth to Water (ft): 7.28	E. Well Volume (gal) (C*D): 0.08487	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 2.07	F. Three Well Volumes (gal) (E3): 0.25461	Pump Intake Depth: NA

[illegible]

Total Quantity of Water Removed (gal):	0.00	Sampling Time:	17:10
Samplers:	JM/LM	Split Sample With:	--
Sampling Date:	5/22/2018	Sample Type:	GW Grab

COMMENTS AND OBSERVATIONS: Well purged dry at 1218. Sampled at 1710 after recharge for VOC and SVOC



Well I.D.: MW-03	EA Personnel: J.Marra/L.Mairs	Client: NYSDEC
Location: Admiral Cleaners, Watervliet, NY	Well Condition: New	Weather: 55 Light rain
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 5/22/2018 Gauge Time: 9:20	Measurement Ref: Top of Casing (TOC)
Stick Up/Down (ft): Down 0.1-ft	PID Headspace Reading (ppb): 0	Well Diameter (in): 1.0 in

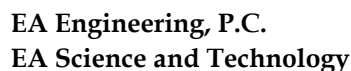
Purge Date: 22-May-18	Purge Time: 9:50
Purge Method: Low Flow via Peristaltic Pump	Field Technician: J.Marra/L.Mairs

A. Well Depth (ft): 10.54	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down 0.1-ft
B. Depth to Water (ft): 6.49	E. Well Volume (gal) (C*D): 0.16605	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 4.05	F. Three Well Volumes (gal) (E3): 0.49815	Pump Intake Depth: NA

[illegible]

Total Quantity of Water Removed (gal):	1.22	Sampling Time:	14:11
Samplers:	ET	Split Sample With:	--
Sampling Date:	5/22/2018	Sample Type:	GW Grab

COMMENTS AND OBSERVATIONS: Well purged dry at 1014. Sampled at 1730 after allowing time to recharge.
Sampled for VOC, SVOC, PCB, Pesticide and metal



Well I.D.: MW-04	EA Personnel: J.Marra/L.Mairs	Client: NYSDEC
Location: Admiral Cleaners, Watervliet, NY	Well Condition: Good	Weather: 60°F/Overcast/Light rain
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 5/22/2018 Gauge Time: 9:30:00	Measurement Ref: Top of Casing (TOC)
Stick Up/Down (ft): Down 0.5-ft	PID Headspace Reading (ppb): 0	Well Diameter (in): 1.0 in

Purge Date: 22-May-18	Purge Time: 9:39
Purge Method: Low Flow via Peristaltic Pump	Field Technician: J.Marra/L.Mairs

A. Well Depth (ft): 9.53	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down 0.5-ft
B. Depth to Water (ft): 6.12	E. Well Volume (gal) (C*D): 0.13981	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 3.41	F. Three Well Volumes (gal) (E3): 0.41943	Pump Intake Depth: NA

[illegible]

Total Quantity of Water Removed (gal):	0.16	Sampling Time:	15:18
Samplers:	JM/LM	Split Sample With:	-
Sampling Date:	5/22/2018	Sample Type:	GW Grab

COMMENTS AND OBSERVATIONS: Well purged dry at 0945. Sampled at 1518 for VOC and SVOC



EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-05	EA Personnel: J.Marra/L.Mairs	Client: NYSDEC
Location: Admiral Cleaners, Watervliet, NY	Well Condition: Good	Weather: 60°F/Overcast rain
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 5/22/2018 Gauge Time: 9:36:00	Measurement Ref: Top of Casing (TOC)
Stick Up/Down (ft): Down 0.16-ft	PID Headspace Reading (ppb): 48.5	Well Diameter (in): 1

Purge Date: 22-May-18	Purge Time: 12:40
Purge Method: Low Flow via Peristaltic Pump	Field Technician: J.Marra/L.Mairs

Well Volume

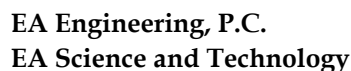
A. Well Depth (ft): 11.81	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down 0.16-ft
B. Depth to Water (ft): 7.5	E. Well Volume (gal) (C*D): 0.17671	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 4.31	F. Three Well Volumes (gal) (E3): 0.53013	Pump Intake Depth: NA

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1242	6.82	0.795	>1000	0.56	11.5	105	10.1	0.22	--
1245	6.76	0.789	>1000	2.91	11.48	119	10.8	0.22	0.66
1248	6.76	0.797	>1000	5.31	11.36	126	11.18	0.22	1.32
1251	6.76	0.791	967.0	7.67	11.72	124	11.01	0.22	1.98
1254	6.79	0.793	675.0	5.50	11.74	121	11.01	0.22	2.64
1257	6.81	0.793	417.0	5.91	11.76	119	11.02	0.22	3.3
1300	6.81	0.794	332.0	6.17	11.74	117	10.8	0.22	3.96
1303	6.80	0.794	244.0	6.26	11.71	116	10.9	0.22	4.62
1306	6.79	0.795	194.0	5.07	11.71	113	10.8	0.22	5.28
1309	6.79	0.806	140.0	4.75	11.43	110	10.81	0.22	5.94
1312	6.75	0.798	128.0	3.63	11.5	112	10.9	0.22	6.6
1315	6.73	0.798	101.0	3.79	11.53	112	10.9	0.22	7.26
1318	6.73	0.799	90.8	3.87	11.51	113	10.89	0.22	7.92
1321	6.71	0.799	91.9	3.91	11.49	112	10.91	0.22	8.58

Total Quantity of Water Removed (gal):	2.27	Sampling Time:	13:35
Samplers:	JM	Split Sample With:	--
Sampling Date:	5/22/2018	Sample Type:	GW Grab

COMMENTS AND OBSERVATIONS: Sampled at 1321. MS/MSD collected here



Well I.D.: MW-06	EA Personnel: J.Marra/L.Mairs	Client: NYSDEC
Location: Admiral Cleaners, Watervliet, NY	Well Condition: New	Weather: 60°F rain
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 5/22/2018	Measurement Ref:
	Gauge Time: 9:38:00	Top of Casing (TOC)
Stick Up/Down (ft): Down 0.33-ft	PID Headspace Reading (ppb): 57.1	Well Diameter (in): 1

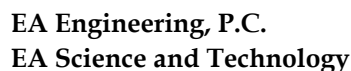
Purge Date: 22-May-18	Purge Time: 16:09
Purge Method: Low Flow via Peristaltic Pump	Field Technician: J.Marra/L.Mairs

A. Well Depth (ft): 11.49	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: Down 0.33-ft
B. Depth to Water (ft): 7.91	E. Well Volume (gal) (C*D): 0.14678	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 3.58	F. Three Well Volumes (gal) (E3): 0.44034	Pump Intake Depth: NA

[illegible]

Total Quantity of Water Removed (gal):	0.79	Sampling Time:	16:25
Samplers:	JM/LM	Split Sample With:	--
Sampling Date:	5/22/2018	Sample Type:	GW Grab

COMMENTS AND OBSERVATIONS:	Sampled at 1625 after purging > 3 well volumes of water from well 10.55 DTW at end of sampling
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Well I.D.: MW-07	EA Personnel: J.Marra/L.Mairs	Client: NYSDEC
Location: Admiral Cleaners, Watervliet, NY	Well Condition: New	Weather: 60°F /Light Rain
Sounding Method: Solinst 100-ft water level tape	Gauge Date: 5/22/2018 Gauge Time: 9:29	Measurement Ref: Top of Casing (TOC)
Stick Up/Down (ft): 4" bgs	PID Headspace Reading (ppb): 0	Well Diameter (in): 1

Purge Date: 22-May-18	Purge Time: 10:17
Purge Method: Low Flow via Peristaltic Pump	Field Technician: J.Marra/L.Mairs

A. Well Depth (ft): 6.30	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: 4" bgs
B. Depth to Water (ft): 4.01	E. Well Volume (gal) (C*D): 0.09389	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 2.29	F. Three Well Volumes (gal) (E3): 0.28167	Pump Intake Depth: NA

[illegible]

Total Quantity of Water Removed (gal):	1.35	Sampling Time:	10:37
Samplers:	JM/LM	Split Sample With:	--
Sampling Date:	5/22/2018	Sample Type:	GW Grab

COMMENTS AND OBSERVATIONS: Sampled at 1037.

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Attachment 2

Phase I Remedial Investigation Analytical Results

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DATA VALIDATION REPORT

Admiral Cleaners

**Select Volatile Organic Compounds
SDGs 1712429 and 1712430**

Chemical Analyses Performed by:

eurofins: Air Toxics

Prepared by

ENVIRONMENTAL DATA SERVICES, LTD.

Prepared for

EA Engineering, Science and Technology, Inc.

January 17, 2018



DATA USABILITY SUMMARY REPORT FOR VOLATILES

SITE: Admiral Cleaners

LABORATORY: Eurofins Air Toxics

SAMPLE DELIVERY GROUP: 1712429 and 1712430

VALIDATION LEVEL: 4

These sample delivery groups consist of the following samples:

401075-IA-03	401075-OA-07
401075-SS-03	401075-OA-03
401075-IA-04	401075-IA-09A
401075-SS-04	401075-IA-09B
401075-IA-08	401075-IA-06-F1
401075-IA-01A	401075-IA-05-B
401075-IA-01B	401075-IA-05-F1
401075-SS-01	401075-IA-05-F2
401075-IA-02	401075-FD
401075-SS-02	401075-SS-06
401075-IA-07	401075-IA-06-B

The samples described above were analyzed via methods USEPA TO-15 and USEPA TO-15 SIM to determine the concentrations of trace volatile organic analytes (VOAs) in air samples.

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15 Data Validation, HW-31, Rev. 6, June 2014 have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R", rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error."

A handwritten signature in black ink, appearing to read 'Hannah Bowie', is positioned above a horizontal line.

Hannah Bowie
Scientist I

Date: 1/17/18

HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this delivery group were prepared and analyzed within the holding time specified in the validation guidelines.

BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

Method blanks were prepared and analyzed in association with the samples in this delivery group at the specified frequency. Upon examination of method blank data, no analyte was positively identified at a concentration equal to or above the method detection limit (MDL) in any associated method blank.

Storage Blanks

No storage blanks were required for these sample delivery groups (SDGs).

Trip Blanks

No trip blanks were submitted in association with these SDGs.

Field Blanks

No field blanks were submitted in association with these SDGs.

MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for volatiles is bromofluorobenzene (BFB).

All tunes associated with these SDGs were fully compliant.

CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 24-hour analytical sequence, denoted as a “closing” calibration verification and ascertains acceptable performance at the conclusion of the analytical sequence.

Note, no closing continuing calibration verifications were performed in association with these SDGs.

Response Factor

The relative response factor (RRF) measures the instruments responses to specific chemical compounds. The RRFs for the volatile organic analysis (VOA) target compound list (TCL) must be ≥ 0.05 in both the initial and continuing calibrations with exception of poor response compounds, where RRFs must be ≥ 0.01 . Additionally, the RRF in the closing continuing calibration must be ≥ 0.01 . A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is < 0.05 , or < 0.01 for poor response compounds, or the RRF for the closing continuing calibration is < 0.01 for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibrations were found to be acceptable in all cases.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instruments daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be $< 30\%$.

An RSD value outside initial calibration limit indicates the potential for quantitation errors. For this reason, all positive results are qualified as estimated. Severe performance failures (RSD $> 90\%$) require qualification of non-detected results as well.

The %D for continuing calibration must be $< 30\%$.

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated, and non-detects are qualified with "UJ".

All initial calibration and continuing calibration %RSD and %D values were within defined QC criteria with the following exceptions.

The %RPD and %D exceeded acceptance limits for bromomethane in one initial calibration and one continuing calibration. The samples listed below were associated with the non-compliant initial and continuing calibrations; affected results were non-detect and were qualified “UJ” on this basis.

401075-IA-03	401075-SS-03
401075-IA-04	401075-SS-04

The %D exceeded acceptance limits for 2,2,4-trimethylpentane in one continuing calibration. The samples listed below were associated with the non-compliant continuing calibration; affected results were non-detect and were qualified "UJ" on this basis.

401075-IA-03	401075-SS-03
401075-IA-04	401075-SS-04

INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatography/mass spectrometry (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than +/- 20 seconds from the associated continuing calibration standard. The area count must be within -60% to +140% range of the associated standard. If area count is >140% non-detected results are not qualified while positive results are qualified "J", estimated. However, when an observed area count is <60%, positive results are qualified "J" estimated while non-detected results are rejected.

The reported analysis for all samples, lab control sample, and associated method blanks had internal standard areas and retention times within QC criteria in all cases.

COMPOUND IDENTIFICATION

Volatile

The TCL compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound, and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All identification criteria were met. Therefore, no analytes were qualified for compound identification.

Volatile Tentatively Identified Compounds

Tentatively Identified Compounds (TICs) were reported by the laboratory and reviewed for quality assurance. For all TIC results where there is presumptive evidence of a match, being greater than or equal to an 85% match, the results are qualified "NJ", tentatively identified. If the non-target compound is reported as an unknown, the result is qualified "J", estimated. Likewise, if it is determined that the identification of a TIC is unacceptable, the tentative identification of the compound is changed to "unknown" and the result is qualified "J", estimated.

Tentatively identified compounds were not reported by the laboratory and were not evaluated for this program.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

All LCS and LCS duplicate (LCSD) evaluations resulted in acceptable recoveries and relative percent differences (RPDs), no qualification was applied on this basis.

REPORTING

Samples 401075-SS-03 and 401075-SS-01 were analyzed at a dilution to bring the concentration of target analytes within the calibrated range; the reported contract required quantitation limits (CRQLs) were adjusted upwards accordingly. No other dilution, re-extraction, or reanalysis was performed on the samples associated with these SDGs.

The observed concentration for ethanol in sample 401075-IA-05-F2 and acetone in sample 401075-IA-05-F1 exceeded the calibrated range. No dilution was performed on the affected samples to bring the affected analyte concentrations within the appropriate range, results were qualified "J", estimated, on this basis.

OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

None.

FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 401075-IA-05-B and 401075-FD and comprise a field duplicate pair associated with this delivery group. Field precision was adequately demonstrated with the following exceptions.

The RPD exceeded acceptance limits for target analytes hexane and heptane. Affected results reported for samples 401075-IA-05-B and 401075-FD were qualified "J" or "UJ" on this basis.

SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Clean canisters were used to transport air samples in these SDGs. All criteria were met to ensure containers were appropriate for sample storage.

Overall the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Volatiles		Major	Minor
Holding Time	x		
Method Blanks	x		
Storage Blanks	n/a		
Trip Blanks	n/a		
Field Blanks	n/a		
Mass Spectrometer Tuning	x		
Calibration Response Factor	x		
Calibration Percent Relative Standard Deviation and Percent Difference			x
Internal Standards	x		
Compound Identification - Volatile	x		
Tentatively Identified Compounds - Volatile	x		
Laboratory Control Sample	x		
Reporting			x
Other Quality Control Data out of Specification	x		
Field Duplicate			x

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Client Sample ID: 401075-IA-03

Lab ID#: 1712429-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	20122215	Date of Collection:	12/12/17 11:45:00 A
Dil. Factor:	1.64	Date of Analysis:	12/22/17 05:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.48	0.81	2.4
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.82	Not Detected	1.7	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.16	0.19	0.92	1.0
Ethanol	0.82	18	1.5	34
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.82	4.0	1.9	9.4
2-Propanol	0.82	6.1	2.0	15
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.1	Not Detected
Hexane	0.16	Not Detected	0.58	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.16	Not Detected	0.67	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.67	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
2-Hexanone	0.82	Not Detected	3.4	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Styrene	0.16	Not Detected	0.70	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected
Propylbenzene	0.16	Not Detected	0.81	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.81	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected



Air Toxics

Client Sample ID: 401075-IA-03

Lab ID#: 1712429-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	20122215	Date of Collection:	12/12/17 11:45:00 A
Dil. Factor:	1.64	Date of Analysis:	12/22/17 05:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: 401075-IA-03

Lab ID#: 1712429-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	20122215sim	Date of Collection:	12/12/17 11:45:00 A
Dil. Factor:	1.64	Date of Analysis:	12/22/17 05:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Benzene	0.082	0.17	0.26	0.54
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Toluene	0.033	0.28	0.12	1.0
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.040	0.22	0.27
Ethyl Benzene	0.033	Not Detected	0.14	Not Detected
m,p-Xylene	0.066	0.082	0.28	0.35
o-Xylene	0.033	0.034	0.14	0.15
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: 401075-SS-03

Lab ID#: 1712429-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	20122218	Date of Collection: 12/12/17 11:45:00 A		
Dil. Factor:	4.02	Date of Analysis: 12/22/17 08:00 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.40	0.41	2.0	2.0
Freon 114	0.40	Not Detected	2.8	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
1,3-Butadiene	0.40	Not Detected	0.89	Not Detected
Bromomethane	2.0	Not Detected	7.8	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.40	Not Detected	2.2	Not Detected
Ethanol	2.0	6.4	3.8	12
Freon 113	0.40	Not Detected	3.1	Not Detected
Acetone	2.0	23	4.8	55
2-Propanol	2.0	3.9	4.9	9.6
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.80	Not Detected	2.8	Not Detected
Hexane	0.40	Not Detected	1.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
Tetrahydrofuran	2.0	Not Detected	5.9	Not Detected
Chloroform	0.40	23	2.0	110
Cyclohexane	0.40	Not Detected	1.4	Not Detected
Carbon Tetrachloride	0.40	Not Detected	2.5	Not Detected
2,2,4-Trimethylpentane	2.0	Not Detected	9.4	Not Detected
Heptane	0.40	Not Detected	1.6	Not Detected
1,2-Dichloropropane	0.40	Not Detected	1.8	Not Detected
1,4-Dioxane	0.40	Not Detected	1.4	Not Detected
Bromodichloromethane	0.40	Not Detected	2.7	Not Detected
cis-1,3-Dichloropropene	0.40	Not Detected	1.8	Not Detected
4-Methyl-2-pentanone	0.40	Not Detected	1.6	Not Detected
trans-1,3-Dichloropropene	0.40	Not Detected	1.8	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.40	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.40	Not Detected	3.1	Not Detected
Chlorobenzene	0.40	Not Detected	1.8	Not Detected
Styrene	0.40	Not Detected	1.7	Not Detected
Bromoform	0.40	Not Detected	4.2	Not Detected
Cumene	0.40	Not Detected	2.0	Not Detected
Propylbenzene	0.40	Not Detected	2.0	Not Detected
4-Ethyltoluene	0.40	0.56	2.0	2.8
1,3,5-Trimethylbenzene	0.40	Not Detected	2.0	Not Detected
1,2,4-Trimethylbenzene	0.40	0.65	2.0	3.2
1,3-Dichlorobenzene	0.40	Not Detected	2.4	Not Detected
1,4-Dichlorobenzene	0.40	Not Detected	2.4	Not Detected
alpha-Chlorotoluene	0.40	Not Detected	2.1	Not Detected

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Air Toxics

Client Sample ID: 401075-SS-03

Lab ID#: 1712429-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	20122218	Date of Collection:	12/12/17 11:45:00 A
Dil. Factor:	4.02	Date of Analysis:	12/22/17 08:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.40	Not Detected	2.4	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: 401075-SS-03

Lab ID#: 1712429-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	20122218sim	Date of Collection:	12/12/17 11:45:00 A
Dil. Factor:	4.02	Date of Analysis:	12/22/17 08:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.040	Not Detected	0.10	Not Detected
1,1-Dichloroethene	0.040	0.042	0.16	0.17
1,1-Dichloroethane	0.080	Not Detected	0.32	Not Detected
cis-1,2-Dichloroethene	0.080	0.62	0.32	2.5
1,1,1-Trichloroethane	0.080	Not Detected	0.44	Not Detected
Benzene	0.20	0.34	0.64	1.1
1,2-Dichloroethane	0.080	Not Detected	0.32	Not Detected
Trichloroethene	0.080	2.1	0.43	11
Toluene	0.080	1.4	0.30	5.4
1,1,2-Trichloroethane	0.080	Not Detected	0.44	Not Detected
Tetrachloroethene	0.080	48	0.54	320
Ethyl Benzene	0.080	0.35	0.35	1.5
m,p-Xylene	0.16	1.5	0.70	6.6
o-Xylene	0.080	0.60	0.35	2.6
1,1,2,2-Tetrachloroethane	0.080	Not Detected	0.55	Not Detected
trans-1,2-Dichloroethene	0.40	Not Detected	1.6	Not Detected
Methyl tert-butyl ether	0.40	Not Detected	1.4	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: 401075-IA-04

Lab ID#: 1712429-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

MODIFIED EPA METHOD TO-15 SIMULTANEOUS SCAN				
File Name:	20122219	Date of Collection: 12/12/17 12:51:00 P		
Dil. Factor:	1.64	Date of Analysis: 12/22/17 09:02 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.47	0.81	2.3
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.82	Not Detected	1.7	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.16	0.21	0.92	1.2
Ethanol	0.82	9.1	1.5	17
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.82	1.3	1.9	3.2
2-Propanol	0.82	Not Detected	2.0	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.1	Not Detected
Hexane	0.16	Not Detected	0.58	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.16	Not Detected	0.67	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.67	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
2-Hexanone	0.82	Not Detected	3.4	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Styrene	0.16	Not Detected	0.70	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected
Propylbenzene	0.16	Not Detected	0.81	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.81	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected



Air Toxics

Client Sample ID: 401075-IA-04

Lab ID#: 1712429-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	20122219	Date of Collection:	12/12/17 12:51:00 P
Dil. Factor:	1.64	Date of Analysis:	12/22/17 09:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: 401075-IA-04

Lab ID#: 1712429-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	20122219sim	Date of Collection:	12/12/17 12:51:00 P
Dil. Factor:	1.64	Date of Analysis:	12/22/17 09:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Benzene	0.082	0.18	0.26	0.59
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Toluene	0.033	0.16	0.12	0.62
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.054	0.22	0.36
Ethyl Benzene	0.033	Not Detected	0.14	Not Detected
m,p-Xylene	0.066	0.066	0.28	0.29
o-Xylene	0.033	Not Detected	0.14	Not Detected
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: 401075-SS-04

Lab ID#: 1712429-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	20122220	Date of Collection:	12/12/17 12:51:00 P
Dil. Factor:	1.58	Date of Analysis:	12/22/17 09:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.47	0.78	2.3
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.79	Not Detected	1.6	Not Detected
1,3-Butadiene	0.16	1.0	0.35	2.3
Bromomethane	0.79	Not Detected	3.1	Not Detected
Chloroethane	0.79	Not Detected	2.1	Not Detected
Freon 11	0.16	0.23	0.89	1.3
Ethanol	0.79	2.3	1.5	4.4
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.79	3.8	1.9	9.1
2-Propanol	0.79	Not Detected	1.9	Not Detected
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
3-Chloropropene	0.79	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	Not Detected	1.1	Not Detected
Hexane	0.16	0.38	0.56	1.3
2-Butanone (Methyl Ethyl Ketone)	0.79	Not Detected	2.3	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
Chloroform	0.16	0.70	0.77	3.4
Cyclohexane	0.16	Not Detected	0.54	Not Detected
Carbon Tetrachloride	0.16	Not Detected	0.99	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.7	Not Detected
Heptane	0.16	0.36	0.65	1.4
1,2-Dichloropropane	0.16	Not Detected	0.73	Not Detected
1,4-Dioxane	0.16	Not Detected	0.57	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.65	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
2-Hexanone	0.79	Not Detected	3.2	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.73	Not Detected
Styrene	0.16	Not Detected	0.67	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.78	Not Detected
Propylbenzene	0.16	Not Detected	0.78	Not Detected
4-Ethyltoluene	0.16	0.31	0.78	1.5
1,3,5-Trimethylbenzene	0.16	Not Detected	0.78	Not Detected
1,2,4-Trimethylbenzene	0.16	0.35	0.78	1.7
1,3-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.82	Not Detected



Air Toxics

Client Sample ID: 401075-SS-04

Lab ID#: 1712429-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	20122220	Date of Collection:	12/12/17 12:51:00 P
Dil. Factor:	1.58	Date of Analysis:	12/22/17 09:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2,4-Trichlorobenzene	0.79	Not Detected	5.9	Not Detected
Hexachlorobutadiene	0.79	Not Detected	8.4	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: 401075-SS-04

Lab ID#: 1712429-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	20122220sim	Date of Collection: 12/12/17 12:51:00 P
Dil. Factor:	1.58	Date of Analysis: 12/22/17 09:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Benzene	0.079	0.76	0.25	2.4
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	1.5	0.12	5.6
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	0.83	0.21	5.6
Ethyl Benzene	0.032	0.30	0.14	1.3
m,p-Xylene	0.063	1.2	0.27	5.0
o-Xylene	0.032	0.45	0.14	2.0
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: 401075-IA-08

Lab ID#: 1712429-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122708	Date of Collection:	12/12/17 3:35:00 PM
Dil. Factor:	1.61	Date of Analysis:	12/27/17 11:55 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.46	0.80	2.3
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.80	Not Detected	1.7	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.80	Not Detected	3.1	Not Detected
Chloroethane	0.80	Not Detected	2.1	Not Detected
Freon 11	0.16	0.23	0.90	1.3
Ethanol	0.80	1.8	1.5	3.5
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.80	2.0	1.9	4.9
2-Propanol	0.80	Not Detected	2.0	Not Detected
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	Not Detected	1.1	Not Detected
Hexane	0.16	Not Detected	0.57	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.80	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.79	Not Detected
Cyclohexane	0.16	Not Detected	0.55	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Heptane	0.16	Not Detected	0.66	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.74	Not Detected
1,4-Dioxane	0.16	Not Detected	0.58	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.66	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
2-Hexanone	0.80	Not Detected	3.3	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.74	Not Detected
Styrene	0.16	Not Detected	0.68	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.79	Not Detected
Propylbenzene	0.16	Not Detected	0.79	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.79	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.83	Not Detected



Air Toxics

Client Sample ID: 401075-IA-08

Lab ID#: 1712429-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122708	Date of Collection:	12/12/17 3:35:00 PM
Dil. Factor:	1.61	Date of Analysis:	12/27/17 11:55 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,2,4-Trichlorobenzene	0.80	Not Detected	6.0	Not Detected
Hexachlorobutadiene	0.80	Not Detected	8.6	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: 401075-IA-08

Lab ID#: 1712429-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122708sim	Date of Collection:	12/12/17 3:35:00 PM
Dil. Factor:	1.61	Date of Analysis:	12/27/17 11:55 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Benzene	0.080	0.19	0.26	0.62
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	0.22	0.12	0.82
1,1,2-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	0.051	0.22	0.35
Ethyl Benzene	0.032	0.032	0.14	0.14
m,p-Xylene	0.064	0.097	0.28	0.42
o-Xylene	0.032	0.048	0.14	0.21
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: 401075-IA-01A

Lab ID#: 1712429-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122709	Date of Collection:	12/12/17 4:40:00 PM
Dil. Factor:	1.75	Date of Analysis:	12/27/17 12:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.50	0.86	2.5
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.88	Not Detected	1.8	Not Detected
1,3-Butadiene	0.18	Not Detected	0.39	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.18	0.23	0.98	1.3
Ethanol	0.88	33	1.6	62
Freon 113	0.18	Not Detected	1.3	Not Detected
Acetone	0.88	6.4	2.1	15
2-Propanol	0.88	2.4	2.2	5.8
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
3-Chloropropene	0.88	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Hexane	0.18	0.30	0.62	1.0
2-Butanone (Methyl Ethyl Ketone)	0.88	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.85	Not Detected
Cyclohexane	0.18	Not Detected	0.60	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Heptane	0.18	Not Detected	0.72	Not Detected
1,2-Dichloropropane	0.18	Not Detected	0.81	Not Detected
1,4-Dioxane	0.18	Not Detected	0.63	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
4-Methyl-2-pentanone	0.18	0.21	0.72	0.87
trans-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
2-Hexanone	0.88	Not Detected	3.6	Not Detected
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.3	Not Detected
Chlorobenzene	0.18	Not Detected	0.80	Not Detected
Styrene	0.18	Not Detected	0.74	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.86	Not Detected
Propylbenzene	0.18	Not Detected	0.86	Not Detected
4-Ethyltoluene	0.18	Not Detected	0.86	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,3-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.90	Not Detected



Air Toxics

Client Sample ID: 401075-IA-01A

Lab ID#: 1712429-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122709	Date of Collection:	12/12/17 4:40:00 PM
Dil. Factor:	1.75	Date of Analysis:	12/27/17 12:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.88	Not Detected	6.5	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.3	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	86	70-130



Air Toxics

Client Sample ID: 401075-IA-01A

Lab ID#: 1712429-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122709sim	Date of Collection:	12/12/17 4:40:00 PM
Dil. Factor:	1.75	Date of Analysis:	12/27/17 12:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
1,1-Dichloroethene	0.018	Not Detected	0.069	Not Detected
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Benzene	0.088	0.24	0.28	0.76
1,2-Dichloroethane	0.035	Not Detected	0.14	Not Detected
Trichloroethene	0.035	Not Detected	0.19	Not Detected
Toluene	0.035	0.47	0.13	1.8
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.088	0.24	0.59
Ethyl Benzene	0.035	0.057	0.15	0.25
m,p-Xylene	0.070	0.20	0.30	0.85
o-Xylene	0.035	0.073	0.15	0.32
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: 401075-IA-01B

Lab ID#: 1712429-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122710	Date of Collection:	12/12/17 4:44:00 PM
Dil. Factor:	1.68	Date of Analysis:	12/27/17 01:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.44	0.83	2.2
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.84	Not Detected	1.7	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.17	0.23	0.94	1.3
Ethanol	0.84	45	1.6	86
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	0.84	8.2	2.0	19
2-Propanol	0.84	3.2	2.1	7.9
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Hexane	0.17	0.42	0.59	1.5
2-Butanone (Methyl Ethyl Ketone)	0.84	1.2	2.5	3.5
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
Cyclohexane	0.17	Not Detected	0.58	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Heptane	0.17	0.21	0.69	0.86
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.69	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.82	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.87	Not Detected



Air Toxics

Client Sample ID: 401075-IA-01B

Lab ID#: 1712429-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122710	Date of Collection:	12/12/17 4:44:00 PM
Dil. Factor:	1.68	Date of Analysis:	12/27/17 01:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	89	70-130



Air Toxics

Client Sample ID: 401075-IA-01B

Lab ID#: 1712429-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122710sim	Date of Collection:	12/12/17 4:44:00 PM
Dil. Factor:	1.68	Date of Analysis:	12/27/17 01:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Benzene	0.084	0.23	0.27	0.75
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Toluene	0.034	0.48	0.13	1.8
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.077	0.23	0.52
Ethyl Benzene	0.034	0.058	0.14	0.25
m,p-Xylene	0.067	0.18	0.29	0.78
o-Xylene	0.034	0.068	0.14	0.29
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	88	70-130



Air Toxics

Client Sample ID: 401075-SS-01

Lab ID#: 1712429-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122711	Date of Collection:	12/12/17 4:40:00 PM
Dil. Factor:	8.20	Date of Analysis:	12/27/17 01:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Chloromethane	4.1	Not Detected	8.5	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	4.1	Not Detected	16	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
Ethanol	4.1	Not Detected	7.7	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Acetone	4.1	15	9.7	35
2-Propanol	4.1	Not Detected	10	Not Detected
Carbon Disulfide	4.1	Not Detected	13	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
Methylene Chloride	1.6	Not Detected	5.7	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	Not Detected	12	Not Detected
Tetrahydrofuran	4.1	Not Detected	12	Not Detected
Chloroform	0.82	170	4.0	850
Cyclohexane	0.82	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.82	3.1	5.2	20
2,2,4-Trimethylpentane	4.1	Not Detected	19	Not Detected
Heptane	0.82	Not Detected	3.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
1,4-Dioxane	0.82	Not Detected	3.0	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	0.82	4.0	4.0
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected



Air Toxics

Client Sample ID: 401075-SS-01

Lab ID#: 1712429-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122711	Date of Collection:	12/12/17 4:40:00 PM
Dil. Factor:	8.20	Date of Analysis:	12/27/17 01:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: 401075-SS-01

Lab ID#: 1712429-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122711sim	Date of Collection:	12/12/17 4:40:00 PM
Dil. Factor:	8.20	Date of Analysis:	12/27/17 01:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.082	Not Detected	0.21	Not Detected
1,1-Dichloroethene	0.082	Not Detected	0.32	Not Detected
1,1-Dichloroethane	0.16	Not Detected	0.66	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
1,1,1-Trichloroethane	0.16	1.2	0.89	6.6
Benzene	0.41	0.89	1.3	2.8
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected
Toluene	0.16	1.0	0.62	3.9
1,1,2-Trichloroethane	0.16	Not Detected	0.89	Not Detected
Tetrachloroethene	0.16	23	1.1	150
Ethyl Benzene	0.16	0.25	0.71	1.1
m,p-Xylene	0.33	1.2	1.4	5.1
o-Xylene	0.16	0.54	0.71	2.4
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: 401075-IA-02

Lab ID#: 1712429-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122712	Date of Collection:	12/12/17 6:14:00 PM
Dil. Factor:	1.64	Date of Analysis:	12/27/17 02:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.40	0.81	2.0
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.82	Not Detected	1.7	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.16	0.24	0.92	1.4
Ethanol	0.82	21	1.5	40
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.82	4.0	1.9	9.5
2-Propanol	0.82	1.2	2.0	2.9
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.1	Not Detected
Hexane	0.16	0.34	0.58	1.2
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.16	0.18	0.67	0.74
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.67	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
2-Hexanone	0.82	Not Detected	3.4	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Styrene	0.16	Not Detected	0.70	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected
Propylbenzene	0.16	Not Detected	0.81	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.81	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected



Air Toxics

Client Sample ID: 401075-IA-02

Lab ID#: 1712429-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122712	Date of Collection:	12/12/17 6:14:00 PM
Dil. Factor:	1.64	Date of Analysis:	12/27/17 02:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	90	70-130



Air Toxics

Client Sample ID: 401075-IA-02

Lab ID#: 1712429-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122712sim	Date of Collection:	12/12/17 6:14:00 PM
Dil. Factor:	1.64	Date of Analysis:	12/27/17 02:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Benzene	0.082	0.23	0.26	0.75
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Toluene	0.033	0.36	0.12	1.3
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.15	0.22	1.0
Ethyl Benzene	0.033	0.057	0.14	0.25
m,p-Xylene	0.066	0.19	0.28	0.81
o-Xylene	0.033	0.066	0.14	0.29
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	89	70-130



Air Toxics

Client Sample ID: 401075-SS-02

Lab ID#: 1712429-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122713	Date of Collection:	12/12/17 6:09:00 PM
Dil. Factor:	1.61	Date of Analysis:	12/27/17 02:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.42	0.80	2.1
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.80	Not Detected	1.7	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.80	Not Detected	3.1	Not Detected
Chloroethane	0.80	Not Detected	2.1	Not Detected
Freon 11	0.16	0.24	0.90	1.3
Ethanol	0.80	4.3	1.5	8.1
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.80	13	1.9	30
2-Propanol	0.80	0.97	2.0	2.4
Carbon Disulfide	0.80	0.87	2.5	2.7
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	Not Detected	1.1	Not Detected
Hexane	0.16	0.37	0.57	1.3
2-Butanone (Methyl Ethyl Ketone)	0.80	1.7	2.4	5.1
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
Chloroform	0.16	31	0.79	150
Cyclohexane	0.16	0.16	0.55	0.56
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Heptane	0.16	0.21	0.66	0.86
1,2-Dichloropropane	0.16	Not Detected	0.74	Not Detected
1,4-Dioxane	0.16	Not Detected	0.58	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.66	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
2-Hexanone	0.80	Not Detected	3.3	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.74	Not Detected
Styrene	0.16	Not Detected	0.68	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.79	Not Detected
Propylbenzene	0.16	Not Detected	0.79	Not Detected
4-Ethyltoluene	0.16	0.69	0.79	3.4
1,3,5-Trimethylbenzene	0.16	0.26	0.79	1.2
1,2,4-Trimethylbenzene	0.16	0.97	0.79	4.8
1,3-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.83	Not Detected



Air Toxics

Client Sample ID: 401075-SS-02

Lab ID#: 1712429-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122713	Date of Collection:	12/12/17 6:09:00 PM
Dil. Factor:	1.61	Date of Analysis:	12/27/17 02:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,2,4-Trichlorobenzene	0.80	Not Detected	6.0	Not Detected
Hexachlorobutadiene	0.80	Not Detected	8.6	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: 401075-SS-02

Lab ID#: 1712429-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122713sim	Date of Collection:	12/12/17 6:09:00 PM
Dil. Factor:	1.61	Date of Analysis:	12/27/17 02:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.032	0.24	0.18	1.3
Benzene	0.080	0.79	0.26	2.5
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	1.5	0.12	5.6
1,1,2-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	2.1	0.22	14
Ethyl Benzene	0.032	0.36	0.14	1.6
m,p-Xylene	0.064	1.5	0.28	6.7
o-Xylene	0.032	0.61	0.14	2.6
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: 401075-IA-07

Lab ID#: 1712430-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122714	Date of Collection:	12/13/17 10:02:00 A
Dil. Factor:	1.27	Date of Analysis:	12/27/17 03:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.13	0.42	0.63	2.1
Freon 114	0.13	Not Detected	0.89	Not Detected
Chloromethane	0.64	Not Detected	1.3	Not Detected
1,3-Butadiene	0.13	Not Detected	0.28	Not Detected
Bromomethane	0.64	Not Detected	2.5	Not Detected
Chloroethane	0.64	Not Detected	1.7	Not Detected
Freon 11	0.13	0.23	0.71	1.3
Ethanol	0.64	13	1.2	25
Freon 113	0.13	Not Detected	0.97	Not Detected
Acetone	0.64	1.9	1.5	4.5
2-Propanol	0.64	Not Detected	1.6	Not Detected
Carbon Disulfide	0.64	Not Detected	2.0	Not Detected
3-Chloropropene	0.64	Not Detected	2.0	Not Detected
Methylene Chloride	0.25	Not Detected	0.88	Not Detected
Hexane	0.13	0.13	0.45	0.47
2-Butanone (Methyl Ethyl Ketone)	0.64	Not Detected	1.9	Not Detected
Tetrahydrofuran	0.64	Not Detected	1.9	Not Detected
Chloroform	0.13	Not Detected	0.62	Not Detected
Cyclohexane	0.13	Not Detected	0.44	Not Detected
Carbon Tetrachloride	0.13	Not Detected	0.80	Not Detected
2,2,4-Trimethylpentane	0.64	Not Detected	3.0	Not Detected
Heptane	0.13	Not Detected	0.52	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.59	Not Detected
1,4-Dioxane	0.13	Not Detected	0.46	Not Detected
Bromodichloromethane	0.13	Not Detected	0.85	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
4-Methyl-2-pentanone	0.13	Not Detected	0.52	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
2-Hexanone	0.64	Not Detected	2.6	Not Detected
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
1,2-Dibromoethane (EDB)	0.13	Not Detected	0.98	Not Detected
Chlorobenzene	0.13	Not Detected	0.58	Not Detected
Styrene	0.13	Not Detected	0.54	Not Detected
Bromoform	0.13	Not Detected	1.3	Not Detected
Cumene	0.13	Not Detected	0.62	Not Detected
Propylbenzene	0.13	Not Detected	0.62	Not Detected
4-Ethyltoluene	0.13	Not Detected	0.62	Not Detected
1,3,5-Trimethylbenzene	0.13	Not Detected	0.62	Not Detected
1,2,4-Trimethylbenzene	0.13	Not Detected	0.62	Not Detected
1,3-Dichlorobenzene	0.13	Not Detected	0.76	Not Detected
1,4-Dichlorobenzene	0.13	Not Detected	0.76	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.66	Not Detected



Air Toxics

Client Sample ID: 401075-IA-07

Lab ID#: 1712430-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122714	Date of Collection:	12/13/17 10:02:00 A
Dil. Factor:	1.27	Date of Analysis:	12/27/17 03:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.13	Not Detected	0.76	Not Detected
1,2,4-Trichlorobenzene	0.64	Not Detected	4.7	Not Detected
Hexachlorobutadiene	0.64	Not Detected	6.8	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	84	70-130



Air Toxics

Client Sample ID: 401075-IA-07

Lab ID#: 1712430-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122714sim	Date of Collection:	12/13/17 10:02:00 A
Dil. Factor:	1.27	Date of Analysis:	12/27/17 03:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.013	Not Detected	0.032	Not Detected
1,1-Dichloroethene	0.013	Not Detected	0.050	Not Detected
1,1-Dichloroethane	0.025	Not Detected	0.10	Not Detected
cis-1,2-Dichloroethene	0.025	Not Detected	0.10	Not Detected
1,1,1-Trichloroethane	0.025	Not Detected	0.14	Not Detected
Benzene	0.064	0.13	0.20	0.43
1,2-Dichloroethane	0.025	Not Detected	0.10	Not Detected
Trichloroethene	0.025	Not Detected	0.14	Not Detected
Toluene	0.025	0.16	0.096	0.59
1,1,2-Trichloroethane	0.025	Not Detected	0.14	Not Detected
Tetrachloroethene	0.025	Not Detected	0.17	Not Detected
Ethyl Benzene	0.025	Not Detected	0.11	Not Detected
m,p-Xylene	0.051	0.077	0.22	0.33
o-Xylene	0.025	0.040	0.11	0.18
1,1,2,2-Tetrachloroethane	0.025	Not Detected	0.17	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.50	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.46	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	84	70-130



Air Toxics

Client Sample ID: 401075-OA-07

Lab ID#: 1712430-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122715	Date of Collection:	12/13/17 10:32:00 A
Dil. Factor:	1.49	Date of Analysis:	12/27/17 04:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.15	0.41	0.74	2.0
Freon 114	0.15	Not Detected	1.0	Not Detected
Chloromethane	0.74	Not Detected	1.5	Not Detected
1,3-Butadiene	0.15	Not Detected	0.33	Not Detected
Bromomethane	0.74	Not Detected	2.9	Not Detected
Chloroethane	0.74	Not Detected	2.0	Not Detected
Freon 11	0.15	0.22	0.84	1.2
Ethanol	0.74	1.6	1.4	3.0
Freon 113	0.15	Not Detected	1.1	Not Detected
Acetone	0.74	3.5	1.8	8.3
2-Propanol	0.74	Not Detected	1.8	Not Detected
Carbon Disulfide	0.74	Not Detected	2.3	Not Detected
3-Chloropropene	0.74	Not Detected	2.3	Not Detected
Methylene Chloride	0.30	Not Detected	1.0	Not Detected
Hexane	0.15	0.26	0.52	0.92
2-Butanone (Methyl Ethyl Ketone)	0.74	0.76	2.2	2.2
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected
Chloroform	0.15	0.24	0.73	1.2
Cyclohexane	0.15	Not Detected	0.51	Not Detected
Carbon Tetrachloride	0.15	Not Detected	0.94	Not Detected
2,2,4-Trimethylpentane	0.74	Not Detected	3.5	Not Detected
Heptane	0.15	Not Detected	0.61	Not Detected
1,2-Dichloropropane	0.15	Not Detected	0.69	Not Detected
1,4-Dioxane	0.15	Not Detected	0.54	Not Detected
Bromodichloromethane	0.15	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.68	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected	0.61	Not Detected
trans-1,3-Dichloropropene	0.15	Not Detected	0.68	Not Detected
2-Hexanone	0.74	Not Detected	3.0	Not Detected
Dibromochloromethane	0.15	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.15	Not Detected	1.1	Not Detected
Chlorobenzene	0.15	Not Detected	0.68	Not Detected
Styrene	0.15	Not Detected	0.63	Not Detected
Bromoform	0.15	Not Detected	1.5	Not Detected
Cumene	0.15	Not Detected	0.73	Not Detected
Propylbenzene	0.15	Not Detected	0.73	Not Detected
4-Ethyltoluene	0.15	0.16	0.73	0.78
1,3,5-Trimethylbenzene	0.15	Not Detected	0.73	Not Detected
1,2,4-Trimethylbenzene	0.15	0.16	0.73	0.81
1,3-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected
1,4-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected
alpha-Chlorotoluene	0.15	Not Detected	0.77	Not Detected



Air Toxics

Client Sample ID: 401075-OA-07

Lab ID#: 1712430-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122715	Date of Collection:	12/13/17 10:32:00 A
Dil. Factor:	1.49	Date of Analysis:	12/27/17 04:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.15	Not Detected	0.90	Not Detected
1,2,4-Trichlorobenzene	0.74	Not Detected	5.5	Not Detected
Hexachlorobutadiene	0.74	Not Detected	7.9	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	86	70-130



Air Toxics

Client Sample ID: 401075-OA-07

Lab ID#: 1712430-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122715sim	Date of Collection:	12/13/17 10:32:00 A
Dil. Factor:	1.49	Date of Analysis:	12/27/17 04:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.015	Not Detected	0.038	Not Detected
1,1-Dichloroethene	0.015	Not Detected	0.059	Not Detected
1,1-Dichloroethane	0.030	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.030	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.030	Not Detected	0.16	Not Detected
Benzene	0.074	0.16	0.24	0.52
1,2-Dichloroethane	0.030	Not Detected	0.12	Not Detected
Trichloroethene	0.030	Not Detected	0.16	Not Detected
Toluene	0.030	0.36	0.11	1.3
1,1,2-Trichloroethane	0.030	Not Detected	0.16	Not Detected
Tetrachloroethene	0.030	0.21	0.20	1.4
Ethyl Benzene	0.030	0.078	0.13	0.34
m,p-Xylene	0.060	0.32	0.26	1.4
o-Xylene	0.030	0.13	0.13	0.56
1,1,2,2-Tetrachloroethane	0.030	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.54	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	86	70-130



Air Toxics

Client Sample ID: 401075-OA-03

Lab ID#: 1712430-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122716	Date of Collection:	12/13/17 11:20:00 A
Dil. Factor:	1.55	Date of Analysis:	12/27/17 04:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.36	0.77	1.8
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.78	Not Detected	1.6	Not Detected
1,3-Butadiene	0.16	Not Detected	0.34	Not Detected
Bromomethane	0.78	Not Detected	3.0	Not Detected
Chloroethane	0.78	Not Detected	2.0	Not Detected
Freon 11	0.16	0.22	0.87	1.2
Ethanol	0.78	1.7	1.5	3.2
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.78	3.7	1.8	8.8
2-Propanol	0.78	Not Detected	1.9	Not Detected
Carbon Disulfide	0.78	Not Detected	2.4	Not Detected
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	0.31	Not Detected	1.1	Not Detected
Hexane	0.16	0.63	0.55	2.2
2-Butanone (Methyl Ethyl Ketone)	0.78	Not Detected	2.3	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
Chloroform	0.16	Not Detected	0.76	Not Detected
Cyclohexane	0.16	Not Detected	0.53	Not Detected
Carbon Tetrachloride	0.16	Not Detected	0.98	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
Heptane	0.16	0.39	0.64	1.6
1,2-Dichloropropane	0.16	Not Detected	0.72	Not Detected
1,4-Dioxane	0.16	Not Detected	0.56	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.70	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.63	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.70	Not Detected
2-Hexanone	0.78	Not Detected	3.2	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.71	Not Detected
Styrene	0.16	Not Detected	0.66	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.76	Not Detected
Propylbenzene	0.16	Not Detected	0.76	Not Detected
4-Ethyltoluene	0.16	0.21	0.76	1.0
1,3,5-Trimethylbenzene	0.16	Not Detected	0.76	Not Detected
1,2,4-Trimethylbenzene	0.16	0.22	0.76	1.1
1,3-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.80	Not Detected



Air Toxics

Client Sample ID: 401075-OA-03

Lab ID#: 1712430-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122716	Date of Collection:	12/13/17 11:20:00 A
Dil. Factor:	1.55	Date of Analysis:	12/27/17 04:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
1,2,4-Trichlorobenzene	0.78	Not Detected	5.8	Not Detected
Hexachlorobutadiene	0.78	Not Detected	8.3	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	85	70-130



Air Toxics

Client Sample ID: 401075-OA-03

Lab ID#: 1712430-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122716sim	Date of Collection:	12/13/17 11:20:00 A
Dil. Factor:	1.55	Date of Analysis:	12/27/17 04:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.061	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	0.19	0.25	0.61
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.44	0.12	1.7
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
Ethyl Benzene	0.031	0.10	0.13	0.45
m,p-Xylene	0.062	0.42	0.27	1.8
o-Xylene	0.031	0.16	0.13	0.70
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	86	70-130



Air Toxics

Client Sample ID: 401075-IA-09A

Lab ID#: 1712430-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122717	Date of Collection:	12/13/17 12:26:00 P
Dil. Factor:	1.64	Date of Analysis:	12/27/17 05:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.42	0.81	2.1
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.82	Not Detected	1.7	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.16	0.22	0.92	1.2
Ethanol	0.82	1.0	1.5	2.0
Freon 113	0.16	0.16	1.2	1.2
Acetone	0.82	8.5	1.9	20
2-Propanol	0.82	Not Detected	2.0	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.1	Not Detected
Hexane	0.16	Not Detected	0.58	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	1.9	2.4	5.6
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.16	0.27	0.67	1.1
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	1.5	0.67	6.2
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
2-Hexanone	0.82	Not Detected	3.4	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Styrene	0.16	Not Detected	0.70	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected
Propylbenzene	0.16	Not Detected	0.81	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.81	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected



Air Toxics

Client Sample ID: 401075-IA-09A

Lab ID#: 1712430-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122717	Date of Collection:	12/13/17 12:26:00 P
Dil. Factor:	1.64	Date of Analysis:	12/27/17 05:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	88	70-130



Air Toxics

Client Sample ID: 401075-IA-09A

Lab ID#: 1712430-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122717sim	Date of Collection:	12/13/17 12:26:00 P
Dil. Factor:	1.64	Date of Analysis:	12/27/17 05:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
1,1-Dichloroethene	0.016	0.026	0.065	0.10
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	0.045	0.13	0.18
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Benzene	0.082	0.15	0.26	0.47
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	0.36	0.18	2.0
Toluene	0.033	0.83	0.12	3.1
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.055	0.22	0.37
Ethyl Benzene	0.033	0.14	0.14	0.63
m,p-Xylene	0.066	0.57	0.28	2.4
o-Xylene	0.033	0.34	0.14	1.5
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	88	70-130



Air Toxics

Client Sample ID: 401075-IA-09B

Lab ID#: 1712430-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122726	Date of Collection:	12/13/17 11:38:00 A
Dil. Factor:	1.44	Date of Analysis:	12/27/17 10:44 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.36	0.71	1.8
Freon 114	0.14	Not Detected	1.0	Not Detected
Chloromethane	0.72	Not Detected	1.5	Not Detected
1,3-Butadiene	0.14	Not Detected	0.32	Not Detected
Bromomethane	0.72	Not Detected	2.8	Not Detected
Chloroethane	0.72	Not Detected	1.9	Not Detected
Freon 11	0.14	0.22	0.81	1.3
Ethanol	0.72	11	1.4	20
Freon 113	0.14	Not Detected	1.1	Not Detected
Acetone	0.72	5.3	1.7	13
2-Propanol	0.72	Not Detected	1.8	Not Detected
Carbon Disulfide	0.72	Not Detected	2.2	Not Detected
3-Chloropropene	0.72	Not Detected	2.2	Not Detected
Methylene Chloride	0.29	Not Detected	1.0	Not Detected
Hexane	0.14	0.16	0.51	0.56
2-Butanone (Methyl Ethyl Ketone)	0.72	0.86	2.1	2.5
Tetrahydrofuran	0.72	Not Detected	2.1	Not Detected
Chloroform	0.14	Not Detected	0.70	Not Detected
Cyclohexane	0.14	Not Detected	0.50	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.91	Not Detected
2,2,4-Trimethylpentane	0.72	Not Detected	3.4	Not Detected
Heptane	0.14	Not Detected	0.59	Not Detected
1,2-Dichloropropane	0.14	Not Detected	0.66	Not Detected
1,4-Dioxane	0.14	Not Detected	0.52	Not Detected
Bromodichloromethane	0.14	Not Detected	0.96	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
4-Methyl-2-pentanone	0.14	0.27	0.59	1.1
trans-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
2-Hexanone	0.72	Not Detected	2.9	Not Detected
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.1	Not Detected
Chlorobenzene	0.14	Not Detected	0.66	Not Detected
Styrene	0.14	Not Detected	0.61	Not Detected
Bromoform	0.14	Not Detected	1.5	Not Detected
Cumene	0.14	Not Detected	0.71	Not Detected
Propylbenzene	0.14	Not Detected	0.71	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.71	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.71	Not Detected
1,2,4-Trimethylbenzene	0.14	Not Detected	0.71	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
1,4-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.74	Not Detected



Air Toxics

Client Sample ID: 401075-IA-09B

Lab ID#: 1712430-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122726	Date of Collection:	12/13/17 11:38:00 A
Dil. Factor:	1.44	Date of Analysis:	12/27/17 10:44 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
1,2,4-Trichlorobenzene	0.72	Not Detected	5.3	Not Detected
Hexachlorobutadiene	0.72	Not Detected	7.7	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: 401075-IA-09B

Lab ID#: 1712430-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122726sim	Date of Collection:	12/13/17 11:38:00 A
Dil. Factor:	1.44	Date of Analysis:	12/27/17 10:44 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.037	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.057	Not Detected
1,1-Dichloroethane	0.029	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.029	Not Detected	0.11	Not Detected
1,1,1-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Benzene	0.072	0.15	0.23	0.47
1,2-Dichloroethane	0.029	Not Detected	0.12	Not Detected
Trichloroethene	0.029	Not Detected	0.15	Not Detected
Toluene	0.029	0.20	0.11	0.77
1,1,2-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Tetrachloroethene	0.029	0.14	0.20	0.92
Ethyl Benzene	0.029	0.035	0.12	0.15
m,p-Xylene	0.058	0.13	0.25	0.55
o-Xylene	0.029	0.054	0.12	0.23
1,1,2,2-Tetrachloroethane	0.029	Not Detected	0.20	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.52	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	87	70-130

Client Sample ID: 401075-IA-06-F1

Lab ID#: 1712430-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122718	Date of Collection:	12/13/17 1:15:00 PM
Dil. Factor:	1.61	Date of Analysis:	12/27/17 05:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.39	0.80	1.9
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.80	Not Detected	1.7	Not Detected
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.80	Not Detected	3.1	Not Detected
Chloroethane	0.80	Not Detected	2.1	Not Detected
Freon 11	0.16	0.26	0.90	1.5
Ethanol	0.80	28	1.5	53
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.80	11	1.9	27
2-Propanol	0.80	Not Detected	2.0	Not Detected
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	Not Detected	1.1	Not Detected
Hexane	0.16	4.3	0.57	15
2-Butanone (Methyl Ethyl Ketone)	0.80	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
Chloroform	0.16	0.19	0.79	0.94
Cyclohexane	0.16	Not Detected	0.55	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Heptane	0.16	Not Detected	0.66	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.74	Not Detected
1,4-Dioxane	0.16	Not Detected	0.58	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.66	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
2-Hexanone	0.80	Not Detected	3.3	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.74	Not Detected
Styrene	0.16	Not Detected	0.68	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.79	Not Detected
Propylbenzene	0.16	Not Detected	0.79	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.79	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.83	Not Detected



Air Toxics

Client Sample ID: 401075-IA-06-F1

Lab ID#: 1712430-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122718	Date of Collection:	12/13/17 1:15:00 PM
Dil. Factor:	1.61	Date of Analysis:	12/27/17 05:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.16	Not Detected	0.97	Not Detected
1,2,4-Trichlorobenzene	0.80	Not Detected	6.0	Not Detected
Hexachlorobutadiene	0.80	Not Detected	8.6	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	90	70-130



Air Toxics

Client Sample ID: 401075-IA-06-F1

Lab ID#: 1712430-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122718sim	Date of Collection:	12/13/17 1:15:00 PM
Dil. Factor:	1.61	Date of Analysis:	12/27/17 05:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	0.30	0.13	1.2
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Benzene	0.080	0.12	0.26	0.40
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	1.5	0.17	8.3
Toluene	0.032	0.39	0.12	1.5
1,1,2-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	3.0	0.22	20
Ethyl Benzene	0.032	0.058	0.14	0.25
m,p-Xylene	0.064	0.20	0.28	0.87
o-Xylene	0.032	0.067	0.14	0.29
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	90	70-130

Client Sample ID: 401075-IA-05-B

Lab ID#: 1712430-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

MODIFIED EPA METHOD 10-15 GC/MS SIM/OLE SCAN				
File Name:	21122719	Date of Collection: 12/13/17 12:42:00 P		
Dil. Factor:	1.55	Date of Analysis: 12/27/17 06:17 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.36	0.77	1.8
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.78	Not Detected	1.6	Not Detected
1,3-Butadiene	0.16	0.34	0.34	0.75
Bromomethane	0.78	Not Detected	3.0	Not Detected
Chloroethane	0.78	Not Detected	2.0	Not Detected
Freon 11	0.16	0.22	0.87	1.3
Ethanol	0.78	1.0	1.5	1.9
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.78	2.9	1.8	6.8
2-Propanol	0.78	Not Detected	1.9	Not Detected
Carbon Disulfide	0.78	Not Detected	2.4	Not Detected
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	0.31	Not Detected	1.1	Not Detected
Hexane	0.16	Not Detected	0.55	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.78	Not Detected	2.3	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
Chloroform	0.16	Not Detected	0.76	Not Detected
Cyclohexane	0.16	Not Detected	0.53	Not Detected
Carbon Tetrachloride	0.16	Not Detected	0.98	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
Heptane	0.16	Not Detected	0.64	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.72	Not Detected
1,4-Dioxane	0.16	Not Detected	0.56	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.70	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.63	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.70	Not Detected
2-Hexanone	0.78	Not Detected	3.2	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.2	Not Detected
Chlorobenzene	0.16	Not Detected	0.71	Not Detected
Styrene	0.16	Not Detected	0.66	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.76	Not Detected
Propylbenzene	0.16	Not Detected	0.76	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.76	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.76	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.76	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.80	Not Detected

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Air Toxics

Client Sample ID: 401075-IA-05-B

Lab ID#: 1712430-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122719	Date of Collection:	12/13/17 12:42:00 P
Dil. Factor:	1.55	Date of Analysis:	12/27/17 06:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.16	Not Detected	0.93	Not Detected
1,2,4-Trichlorobenzene	0.78	Not Detected	5.8	Not Detected
Hexachlorobutadiene	0.78	Not Detected	8.3	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	85	70-130



Air Toxics

Client Sample ID: 401075-IA-05-B

Lab ID#: 1712430-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122719sim	Date of Collection:	12/13/17 12:42:00 P
Dil. Factor:	1.55	Date of Analysis:	12/27/17 06:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.061	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Benzene	0.078	5.6	0.25	18
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.27	0.12	1.0
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.69	0.21	4.7
Ethyl Benzene	0.031	0.038	0.13	0.16
m,p-Xylene	0.062	0.10	0.27	0.44
o-Xylene	0.031	0.040	0.13	0.17
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	85	70-130



Air Toxics

Client Sample ID: 401075-IA-05-F1

Lab ID#: 1712430-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122720	Date of Collection: 12/13/17 1:26:00 PM		
Dil. Factor:	1.68	Date of Analysis: 12/27/17 06:49 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.39	0.83	1.9
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.84	Not Detected	1.7	Not Detected
1,3-Butadiene	0.17	Not Detected	0.37	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.17	0.28	0.94	1.6
Ethanol	0.84	34	1.6	63
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	0.84	190 E	2.0	450 E
2-Propanol	0.84	Not Detected	2.1	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Hexane	0.17	0.48	0.59	1.7
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
Cyclohexane	0.17	Not Detected	0.58	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Heptane	0.17	1.5	0.69	6.1
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.69	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.82	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.87	Not Detected



Air Toxics

Client Sample ID: 401075-IA-05-F1

Lab ID#: 1712430-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122720	Date of Collection:	12/13/17 1:26:00 PM
Dil. Factor:	1.68	Date of Analysis:	12/27/17 06:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	85	70-130



Air Toxics

Client Sample ID: 401075-IA-05-F1

Lab ID#: 1712430-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122720sim	Date of Collection:	12/13/17 1:26:00 PM
Dil. Factor:	1.68	Date of Analysis:	12/27/17 06:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Benzene	0.084	1.0	0.27	3.2
1,2-Dichloroethane	0.034	0.055	0.14	0.22
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Toluene	0.034	0.24	0.13	0.91
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	0.11	0.23	0.77
Ethyl Benzene	0.034	0.037	0.14	0.16
m,p-Xylene	0.067	0.12	0.29	0.51
o-Xylene	0.034	0.045	0.14	0.19
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	85	70-130



Air Toxics

Client Sample ID: 401075-IA-05-F2

Lab ID#: 1712430-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122721	Date of Collection: 12/13/17 12:37:00 P		
Dil. Factor:	1.36	Date of Analysis: 12/27/17 07:41 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.40	0.67	2.0
Freon 114	0.14	Not Detected	0.95	Not Detected
Chloromethane	0.68	Not Detected	1.4	Not Detected
1,3-Butadiene	0.14	Not Detected	0.30	Not Detected
Bromomethane	0.68	Not Detected	2.6	Not Detected
Chloroethane	0.68	Not Detected	1.8	Not Detected
Freon 11	0.14	0.28	0.76	1.6
Ethanol	0.68	110 E	1.3	200 E J
Freon 113	0.14	Not Detected	1.0	Not Detected
Acetone	0.68	30	1.6	72
2-Propanol	0.68	6.8	1.7	17
Carbon Disulfide	0.68	Not Detected	2.1	Not Detected
3-Chloropropene	0.68	Not Detected	2.1	Not Detected
Methylene Chloride	0.27	Not Detected	0.94	Not Detected
Hexane	0.14	0.84	0.48	2.9
2-Butanone (Methyl Ethyl Ketone)	0.68	0.73	2.0	2.2
Tetrahydrofuran	0.68	Not Detected	2.0	Not Detected
Chloroform	0.14	0.22	0.66	1.1
Cyclohexane	0.14	Not Detected	0.47	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.86	Not Detected
2,2,4-Trimethylpentane	0.68	Not Detected	3.2	Not Detected
Heptane	0.14	0.75	0.56	3.1
1,2-Dichloropropane	0.14	Not Detected	0.63	Not Detected
1,4-Dioxane	0.14	Not Detected	0.49	Not Detected
Bromodichloromethane	0.14	Not Detected	0.91	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.56	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.62	Not Detected
2-Hexanone	0.68	Not Detected	2.8	Not Detected
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
1,2-Dibromoethane (EDB)	0.14	Not Detected	1.0	Not Detected
Chlorobenzene	0.14	Not Detected	0.63	Not Detected
Styrene	0.14	Not Detected	0.58	Not Detected
Bromoform	0.14	Not Detected	1.4	Not Detected
Cumene	0.14	Not Detected	0.67	Not Detected
Propylbenzene	0.14	Not Detected	0.67	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.67	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.67	Not Detected
1,2,4-Trimethylbenzene	0.14	Not Detected	0.67	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
1,4-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.70	Not Detected



Air Toxics

Client Sample ID: 401075-IA-05-F2

Lab ID#: 1712430-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122721	Date of Collection:	12/13/17 12:37:00 P
Dil. Factor:	1.36	Date of Analysis:	12/27/17 07:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.14	Not Detected	0.82	Not Detected
1,2,4-Trichlorobenzene	0.68	Not Detected	5.0	Not Detected
Hexachlorobutadiene	0.68	Not Detected	7.2	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	86	70-130



Air Toxics

Client Sample ID: 401075-IA-05-F2

Lab ID#: 1712430-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122721sim	Date of Collection:	12/13/17 12:37:00 P
Dil. Factor:	1.36	Date of Analysis:	12/27/17 07:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.014	Not Detected	0.035	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.054	Not Detected
1,1-Dichloroethane	0.027	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.027	Not Detected	0.11	Not Detected
1,1,1-Trichloroethane	0.027	Not Detected	0.15	Not Detected
Benzene	0.068	0.79	0.22	2.5
1,2-Dichloroethane	0.027	0.054	0.11	0.22
Trichloroethene	0.027	Not Detected	0.15	Not Detected
Toluene	0.027	1.2	0.10	4.7
1,1,2-Trichloroethane	0.027	Not Detected	0.15	Not Detected
Tetrachloroethene	0.027	0.18	0.18	1.2
Ethyl Benzene	0.027	0.12	0.12	0.54
m,p-Xylene	0.054	0.39	0.24	1.7
o-Xylene	0.027	0.14	0.12	0.62
1,1,2,2-Tetrachloroethane	0.027	Not Detected	0.19	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.54	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.49	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	86	70-130



Air Toxics

Client Sample ID: 401075-FD

Lab ID#: 1712430-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

MODIFIED EPA METHOD 10-15 GC/MS SIM/OLE SCAN				
File Name:	21122722	Date of Collection: 12/13/17		
Dil. Factor:	1.64	Date of Analysis: 12/27/17 08:14 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.16	0.41	0.81	2.0
Freon 114	0.16	Not Detected	1.1	Not Detected
Chloromethane	0.82	Not Detected	1.7	Not Detected
1,3-Butadiene	0.16	0.33	0.36	0.73
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.16	0.22	0.92	1.2
Ethanol	0.82	1.4	1.5	2.7
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.82	3.4	1.9	8.1
2-Propanol	0.82	Not Detected	2.0	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.1	Not Detected
Hexane	0.16	0.96	0.58	3.4
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.16	0.84	0.67	3.4
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.67	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
2-Hexanone	0.82	Not Detected	3.4	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Styrene	0.16	Not Detected	0.70	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected
Propylbenzene	0.16	Not Detected	0.81	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.81	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,4-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected



Air Toxics

Client Sample ID: 401075-FD

Lab ID#: 1712430-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122722	Date of Collection:	12/13/17
Dil. Factor:	1.64	Date of Analysis:	12/27/17 08:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	83	70-130



Air Toxics

Client Sample ID: 401075-FD

Lab ID#: 1712430-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122722sim	Date of Collection:	12/13/17
Dil. Factor:	1.64	Date of Analysis:	12/27/17 08:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Benzene	0.082	5.6	0.26	18
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	Not Detected	0.18	Not Detected
Toluene	0.033	0.27	0.12	1.0
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.69	0.22	4.7
Ethyl Benzene	0.033	0.041	0.14	0.18
m,p-Xylene	0.066	0.10	0.28	0.44
o-Xylene	0.033	0.041	0.14	0.18
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	83	70-130



Air Toxics

Client Sample ID: 401075-SS-06

Lab ID#: 1712430-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122723	Date of Collection:	12/13/17 3:05:00 PM
Dil. Factor:	1.75	Date of Analysis:	12/27/17 08:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.18	0.38	0.86	1.9
Freon 114	0.18	Not Detected	1.2	Not Detected
Chloromethane	0.88	Not Detected	1.8	Not Detected
1,3-Butadiene	0.18	Not Detected	0.39	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.18	0.23	0.98	1.3
Ethanol	0.88	5.1	1.6	9.6
Freon 113	0.18	Not Detected	1.3	Not Detected
Acetone	0.88	35	2.1	83
2-Propanol	0.88	Not Detected	2.2	Not Detected
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
3-Chloropropene	0.88	Not Detected	2.7	Not Detected
Methylene Chloride	0.35	Not Detected	1.2	Not Detected
Hexane	0.18	0.31	0.62	1.1
2-Butanone (Methyl Ethyl Ketone)	0.88	1.8	2.6	5.3
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
Chloroform	0.18	Not Detected	0.85	Not Detected
Cyclohexane	0.18	Not Detected	0.60	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Heptane	0.18	0.18	0.72	0.74
1,2-Dichloropropane	0.18	Not Detected	0.81	Not Detected
1,4-Dioxane	0.18	Not Detected	0.63	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.72	Not Detected
trans-1,3-Dichloropropene	0.18	Not Detected	0.79	Not Detected
2-Hexanone	0.88	Not Detected	3.6	Not Detected
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
1,2-Dibromoethane (EDB)	0.18	Not Detected	1.3	Not Detected
Chlorobenzene	0.18	Not Detected	0.80	Not Detected
Styrene	0.18	Not Detected	0.74	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.86	Not Detected
Propylbenzene	0.18	Not Detected	0.86	Not Detected
4-Ethyltoluene	0.18	0.62	0.86	3.0
1,3,5-Trimethylbenzene	0.18	0.20	0.86	0.96
1,2,4-Trimethylbenzene	0.18	0.82	0.86	4.0
1,3-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.90	Not Detected



Air Toxics

Client Sample ID: 401075-SS-06

Lab ID#: 1712430-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122723	Date of Collection:	12/13/17 3:05:00 PM
Dil. Factor:	1.75	Date of Analysis:	12/27/17 08:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.18	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.88	Not Detected	6.5	Not Detected
Hexachlorobutadiene	0.88	Not Detected	9.3	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: 401075-SS-06

Lab ID#: 1712430-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122723sim	Date of Collection:	12/13/17 3:05:00 PM
Dil. Factor:	1.75	Date of Analysis:	12/27/17 08:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
1,1-Dichloroethene	0.018	Not Detected	0.069	Not Detected
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	0.24	0.14	0.95
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Benzene	0.088	0.55	0.28	1.8
1,2-Dichloroethane	0.035	Not Detected	0.14	Not Detected
Trichloroethene	0.035	0.57	0.19	3.1
Toluene	0.035	0.84	0.13	3.1
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	1.6	0.24	11
Ethyl Benzene	0.035	0.48	0.15	2.1
m,p-Xylene	0.070	1.0	0.30	4.5
o-Xylene	0.035	0.41	0.15	1.8
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: 401075-IA-06-B

Lab ID#: 1712430-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122724	Date of Collection:	12/13/17 4:05:00 PM
Dil. Factor:	1.71	Date of Analysis:	12/27/17 09:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.17	0.37	0.84	1.8
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.86	Not Detected	1.8	Not Detected
1,3-Butadiene	0.17	Not Detected	0.38	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.17	0.22	0.96	1.3
Ethanol	0.86	Not Detected	1.6	Not Detected
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	0.86	3.0	2.0	7.0
2-Propanol	0.86	Not Detected	2.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	0.86	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Hexane	0.17	Not Detected	0.60	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
Chloroform	0.17	Not Detected	0.83	Not Detected
Cyclohexane	0.17	Not Detected	0.59	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.1	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Heptane	0.17	Not Detected	0.70	Not Detected
1,2-Dichloropropane	0.17	Not Detected	0.79	Not Detected
1,4-Dioxane	0.17	Not Detected	0.62	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
4-Methyl-2-pentanone	0.17	Not Detected	0.70	Not Detected
trans-1,3-Dichloropropene	0.17	Not Detected	0.78	Not Detected
2-Hexanone	0.86	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.79	Not Detected
Styrene	0.17	Not Detected	0.73	Not Detected
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
Propylbenzene	0.17	Not Detected	0.84	Not Detected
4-Ethyltoluene	0.17	Not Detected	0.84	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected



Air Toxics

Client Sample ID: 401075-IA-06-B

Lab ID#: 1712430-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122724	Date of Collection:	12/13/17 4:05:00 PM
Dil. Factor:	1.71	Date of Analysis:	12/27/17 09:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.86	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.86	Not Detected	9.1	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	86	70-130



Air Toxics

Client Sample ID: 401075-IA-06-B

Lab ID#: 1712430-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122724sim	Date of Collection:	12/13/17 4:05:00 PM
Dil. Factor:	1.71	Date of Analysis:	12/27/17 09:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.017	Not Detected	0.044	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.068	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	0.42	0.14	1.7
1,1,1-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Benzene	0.086	Not Detected	0.27	Not Detected
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	1.1	0.18	6.2
Toluene	0.034	0.077	0.13	0.29
1,1,2-Trichloroethane	0.034	Not Detected	0.19	Not Detected
Tetrachloroethene	0.034	4.5	0.23	30
Ethyl Benzene	0.034	Not Detected	0.15	Not Detected
m,p-Xylene	0.068	0.096	0.30	0.42
o-Xylene	0.034	0.036	0.15	0.16
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.68	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1712430-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122706	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	12/27/17 10:50 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.10	Not Detected	0.49	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1712430-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21122706	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/27/17 10:50 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	89	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1712430-13B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 21122706sim

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 12/27/17 10:50 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	89	70-130



DATA VALIDATION REPORT

Admiral Cleaners

**Select Volatile Organic Compounds
SDGs 1803401A and 1803401B**

Chemical Analyses Performed by:

eurofins: Air Toxics

Prepared by

ENVIRONMENTAL DATA SERVICES, LTD.

Prepared for

EA Engineering, Science and Technology, Inc.

May 17, 2018



DATA USABILITY SUMMARY REPORT FOR VOLATILES

SITE: Admiral Cleaners

LABORATORY: Eurofins Air Toxics

SAMPLE DELIVERY GROUP: 1803401A and 1803401B

VALIDATION LEVEL: 4

These sample delivery groups consist of the following samples:

401075-IA-05-B-0318	401075-IA-FD-0318
401075-IA-05-F1-0318	401075-OA-DW-0318
401075-IA-05-F2-0318	401075-OA-UW-0318
401075-IA-06-B-0318	401075-SS-06-0318
401075-IA-06-F1-0318	401075-SS-10A-0318
401075-IA-10-0318	401075-SS-10B-0318

The samples described above were analyzed via methods USEPA TO-15 and USEPA TO-15 SIM to determine the concentrations of trace volatile organic analytes (VOAs) in air samples.

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15 Data Validation, HW-31, Rev. 6, June 2014 have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R", rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error."

Reviewer Name(s): D. Waldschmidt

A handwritten signature in blue ink, appearing to read "D. Waldschmidt", with a stylized flourish at the end.

Date: 05/17/2018

HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

Samples were received in adequate condition under proper chain of custody with two exceptions. Container identification labels for the following samples did not match that listed on the field chain of custody; 401075-IA-06-B-0318 and 401075-IA-06-F1-0318.

The laboratory proceeded with analysis using container identifications as present on the container labels. No data qualification was performed on this basis.

The samples in this delivery group were prepared and analyzed within the holding time specified in the validation guidelines.

BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

Method blanks were prepared and analyzed in association with the samples in this delivery group at the specified frequency. Upon examination of method blank data, no analyte was positively identified at a concentration equal to or above the method detection limit (MDL) in any associated method blank.

Storage Blanks

No storage blanks were required for these sample delivery groups (SDGs).

Trip Blanks

No trip blanks were submitted in association with these SDGs.

Field Blanks

No field blanks were submitted in association with these SDGs.

MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for volatiles is bromofluorobenzene (BFB).

All tunes associated with these SDGs were fully compliant.

CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 24-hour analytical sequence, denoted as a "closing" calibration verification and ascertains acceptable performance at the conclusion of the analytical sequence.

Note, no closing continuing calibration verifications were performed in association with these SDGs.

Response Factor

The relative response factor (RRF) measures the instruments responses to specific chemical compounds. The RRFs for the volatile organic analysis (VOA) target compound list (TCL) must be ≥ 0.05 in both the initial and continuing calibrations with exception of poor response compounds, where RRFs must be ≥ 0.01 . Additionally, the RRF in the closing continuing calibration must be ≥ 0.01 . A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is < 0.05 , or < 0.01 for poor response compounds, or the RRF for the closing continuing calibration is < 0.01 for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibrations were found to be acceptable in all cases.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instruments daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be $< 30\%$.

An RSD value outside initial calibration limit indicates the potential for quantitation errors. For this reason, all positive results are qualified as estimated. Severe performance failures (RSD $> 90\%$) require qualification of non-detected results as well.

The %D for continuing calibration must be $< 30\%$.

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated, and non-detects are qualified with "UJ".

All initial calibration and continuing calibration %RSD and %D values were within defined QC criteria with the following exceptions.

The %RSD exceeded acceptance limits for 1,4-Dichlorobenzene in one initial calibration. The samples listed below were associated with the non-compliant initial calibration; affected results were non-detect and were qualified "UJ" on this basis.

401075-IA-05-B-0318	401075-IA-10-0318
401075-IA-05-F1-0318	401075-IA-FD-0318
401075-IA-05-F2-0318	401075-OA-DW-0318
401075-IA-06-B-0318	401075-OA-UW-0318
401075-IA-06-F1-0318	

The %D exceeded acceptance limits for carbon tetrachloride 1,4 dichlorobenzene in one continuing calibration. The samples listed below were associated with the non-compliant continuing calibration; affected results were qualified "J" estimated or "UJ" as appropriate on this basis.

401075-IA-05-B-0318	401075-IA-10-0318
401075-IA-05-F1-0318	401075-IA-FD-0318
401075-IA-05-F2-0318	401075-OA-DW-0318
401075-IA-06-B-0318	401075-OA-UW-0318
401075-IA-06-F1-0318	

INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatography/mass spectrometry (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than +/- 20 seconds from the associated continuing calibration standard. The area count must be within -60% to +140% range of the associated standard. If area count is >140% non-detected results are not qualified while positive results are qualified "J", estimated. However, when an observed area count is <60%, positive results are qualified "J" estimated while non-detected results are rejected.

The reported analysis for all samples, lab control sample, and associated method blanks had internal standard areas and retention times within QC criteria in all cases.

COMPOUND IDENTIFICATION

Volatile

The TCL compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound, and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All identification criteria were met. Therefore, no analytes were qualified for compound identification.

Volatile Tentatively Identified Compounds

Tentatively Identified Compounds (TICs) were reported by the laboratory and reviewed for quality assurance. For all TIC results where there is presumptive evidence of a match, being greater than or equal to an 85% match, the results are qualified "NJ", tentatively identified. If the non-target compound is reported as an unknown, the result is qualified "J", estimated. Likewise, if it is determined that the

identification of a TIC is unacceptable, the tentative identification of the compound is changed to “unknown” and the result is qualified “J”, estimated.

Tentatively identified compounds were not reported by the laboratory and were not evaluated for this program.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

All LCS and LCS duplicate (LCSD) evaluations resulted in acceptable recoveries and relative percent differences (RPDs), no qualification was applied on this basis with the following exception.

1,2,4- trichlorobenzene had observed recoveries during both the LCS and LCSD evaluations that are lower than the lowest acceptance limit. Samples associated with the non-compliant LCS determinations are listed below.

401075-IA-05-B-0318	401075-IA-10-0318
401075-IA-05-F1-0318	401075-IA-FD-0318
401075-IA-05-F2-0318	401075-OA-DW-0318
401075-IA-06-B-0318	401075-OA-UW-0318
401075-IA-06-F1-0318	

Low bias is indicated, therefore sample results for the affected compound have been qualified “UJ” estimated non-detect.

REPORTING

Samples 401075-SS-10A-0318 and 401075-SS-10B-0318 were analyzed at a dilution to bring the concentration of target analytes within the calibrated range; the reported contract required quantitation limits (CRQLs) were adjusted upwards accordingly. No other dilution, re-extraction, or reanalysis was performed on the samples associated with these SDGs.

The observed concentration for ethanol in sample 401075-IA-05-F2-0318 and acetone in sample 401075-SS-06-0318 exceeded the calibrated range. No dilution was performed on the affected samples to bring the affected analyte concentrations within the appropriate range, results were qualified “J”, estimated, on this basis.

In addition, the reported result for 4-Ethyltoluene in sample 401075-IA-10-0318 may be biased high due to co-elution with a non target compound with similar characteristic ions. Both the primary and secondary ion for 4-Ethyltoluene exhibited potential interference. The affected sample result has been qualified J+ on this basis.

OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

None.

FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 401075-IA-05-B-0318 and 401075-IA-FD-0318 comprise a field duplicate pair associated with this delivery group. Field precision was adequately demonstrated with the following exceptions.

The RPD exceeded acceptance limits for heptane. Heptane results reported for samples 401075-IA-05-B-0318 and 401075-IA-FD-0318 were qualified "J" or "UJ" on this basis.

SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Clean canisters were used to transport air samples in these SDGs. All criteria were met to ensure containers were appropriate for sample storage.

Overall the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Volatiles		Major	Minor
Holding Time	x		
Method Blanks	x		
Storage Blanks	n/a		
Trip Blanks	n/a		
Field Blanks	n/a		
Mass Spectrometer Tuning	x		
Calibration Response Factor	x		
Calibration Percent Relative Standard Deviation and Percent Difference			x
Internal Standards	x		
Compound Identification - Volatile	x		
Tentatively Identified Compounds - Volatile	x		
Laboratory Control Sample	x		
Reporting			x
Other Quality Control Data out of Specification	x		
Field Duplicate			x

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.



Air Toxics

Client Sample ID: 401075-IA-05-B-0318

Lab ID#: 1803401A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032316	Date of Collection:	3/14/18 2:55:00 PM
Dil. Factor:	1.48	Date of Analysis:	3/23/18 04:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
1,3-Butadiene	0.15	Not Detected	0.33	Not Detected	
Bromomethane	0.74	Not Detected	2.9	Not Detected	
Freon 11	0.15	0.21	0.83	1.2	
Ethanol	0.74	1.4	1.4	2.5	
Freon 113	0.15	Not Detected	1.1	Not Detected	
Acetone	0.74	2.9	1.8	6.8	
2-Propanol	0.74	Not Detected	1.8	Not Detected	
Carbon Disulfide	0.74	Not Detected	2.3	Not Detected	
3-Chloropropene	0.74	Not Detected	2.3	Not Detected	
Methylene Chloride	0.30	Not Detected	1.0	Not Detected	
Hexane	0.15	0.17	0.52	0.59	
2-Butanone (Methyl Ethyl Ketone)	0.74	Not Detected	2.2	Not Detected	
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected	
Cyclohexane	0.15	Not Detected	0.51	Not Detected	
2,2,4-Trimethylpentane	0.74	Not Detected	3.4	Not Detected	
Heptane	0.15	Not Detected	0.61	Not Detected	UJ
1,2-Dichloropropane	0.15	Not Detected	0.68	Not Detected	
1,4-Dioxane	0.15	Not Detected	0.53	Not Detected	
Bromodichloromethane	0.15	Not Detected	0.99	Not Detected	
cis-1,3-Dichloropropene	0.15	Not Detected	0.67	Not Detected	
4-Methyl-2-pentanone	0.15	Not Detected	0.61	Not Detected	
trans-1,3-Dichloropropene	0.15	Not Detected	0.67	Not Detected	
2-Hexanone	0.74	Not Detected	3.0	Not Detected	
Dibromochloromethane	0.15	Not Detected	1.3	Not Detected	
Chlorobenzene	0.15	Not Detected	0.68	Not Detected	
Styrene	0.15	Not Detected	0.63	Not Detected	
Bromoform	0.15	Not Detected	1.5	Not Detected	
Cumene	0.15	Not Detected	0.73	Not Detected	
Propylbenzene	0.15	Not Detected	0.73	Not Detected	
4-Ethyltoluene	0.15	Not Detected	0.73	Not Detected	
1,3,5-Trimethylbenzene	0.15	Not Detected	0.73	Not Detected	
1,2,4-Trimethylbenzene	0.15	Not Detected	0.73	Not Detected	
1,3-Dichlorobenzene	0.15	Not Detected	0.89	Not Detected	
alpha-Chlorotoluene	0.15	Not Detected	0.77	Not Detected	
1,2-Dichlorobenzene	0.15	Not Detected	0.89	Not Detected	
1,2,4-Trichlorobenzene	0.74	Not Detected	5.5	Not Detected	UJ
Hexachlorobutadiene	0.74	Not Detected	7.9	Not Detected	

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130



Air Toxics

Client Sample ID: 401075-IA-05-B-0318

Lab ID#: 1803401A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032316	Date of Collection: 3/14/18 2:55:00 PM
Dil. Factor:	1.48	Date of Analysis: 3/23/18 04:04 PM

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: 401075-IA-05-B-0318

Lab ID#: 1803401A-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 21032316sim

Date of Collection: 3/14/18 2:55:00 PM

Dil. Factor: 1.48

Date of Analysis: 3/23/18 04:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.030	0.44	0.15	2.2
Freon 114	0.030	Not Detected	0.21	Not Detected
Chloromethane	0.74	Not Detected	1.5	Not Detected
Vinyl Chloride	0.015	Not Detected	0.038	Not Detected
Chloroethane	0.074	Not Detected	0.20	Not Detected
1,1-Dichloroethene	0.015	Not Detected	0.059	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.59	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.53	Not Detected
1,1-Dichloroethane	0.030	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.030	Not Detected	0.12	Not Detected
Chloroform	0.030	0.031	0.14	0.15
1,1,1-Trichloroethane	0.030	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.030	0.065	0.19	0.41 J
Benzene	0.074	0.13	0.24	0.42
1,2-Dichloroethane	0.030	Not Detected	0.12	Not Detected
Trichloroethene	0.030	Not Detected	0.16	Not Detected
Toluene	0.030	0.19	0.11	0.72
1,1,2-Trichloroethane	0.030	Not Detected	0.16	Not Detected
Tetrachloroethene	0.030	0.34	0.20	2.3
1,2-Dibromoethane (EDB)	0.030	Not Detected	0.23	Not Detected
Ethyl Benzene	0.030	Not Detected	0.13	Not Detected
m,p-Xylene	0.059	0.071	0.26	0.31
o-Xylene	0.030	Not Detected	0.13	Not Detected
1,1,2,2-Tetrachloroethane	0.030	Not Detected	0.20	Not Detected
1,4-Dichlorobenzene	0.030	Not Detected UJ	0.18	Not Detected UJ UJ

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: 401075-IA-05-F1-0318

Lab ID#: 1803401A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032317	Date of Collection:	3/14/18 3:55:00 PM
Dil. Factor:	1.56	Date of Analysis:	3/23/18 04:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.16	Not Detected	0.34	Not Detected
Bromomethane	0.78	Not Detected	3.0	Not Detected
Freon 11	0.16	0.24	0.88	1.3
Ethanol	0.78	12	1.5	22
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.78	9.1	1.8	22
2-Propanol	0.78	Not Detected	1.9	Not Detected
Carbon Disulfide	0.78	Not Detected	2.4	Not Detected
3-Chloropropene	0.78	Not Detected	2.4	Not Detected
Methylene Chloride	0.31	Not Detected	1.1	Not Detected
Hexane	0.16	0.27	0.55	0.94
2-Butanone (Methyl Ethyl Ketone)	0.78	Not Detected	2.3	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
Cyclohexane	0.16	Not Detected	0.54	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
Heptane	0.16	0.32	0.64	1.3
1,2-Dichloropropane	0.16	Not Detected	0.72	Not Detected
1,4-Dioxane	0.16	Not Detected	0.56	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.71	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.64	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.71	Not Detected
2-Hexanone	0.78	Not Detected	3.2	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.72	Not Detected
Styrene	0.16	Not Detected	0.66	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.77	Not Detected
Propylbenzene	0.16	Not Detected	0.77	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.77	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.77	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.77	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.94	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.81	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.94	Not Detected
1,2,4-Trichlorobenzene	0.78	Not Detected	5.8	Not Detected
Hexachlorobutadiene	0.78	Not Detected	8.3	Not Detected

UJ

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130



Air Toxics

Client Sample ID: 401075-IA-05-F1-0318

Lab ID#: 1803401A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032317	Date of Collection: 3/14/18 3:55:00 PM
Dil. Factor:	1.56	Date of Analysis: 3/23/18 04:37 PM

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: 401075-IA-05-F1-0318

Lab ID#: 1803401A-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032317sim	Date of Collection:	3/14/18 3:55:00 PM
Dil. Factor:	1.56	Date of Analysis:	3/23/18 04:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.41	0.15	2.0
Freon 114	0.031	Not Detected	0.22	Not Detected
Chloromethane	0.78	Not Detected	1.6	Not Detected
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Chloroethane	0.078	Not Detected	0.20	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
Chloroform	0.031	0.19	0.15	0.94
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.031	0.067	0.20	0.42 J
Benzene	0.078	0.16	0.25	0.52
1,2-Dichloroethane	0.031	0.075	0.13	0.30
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.25	0.12	0.96
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.10	0.21	0.68
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.031	0.036	0.14	0.16
m,p-Xylene	0.062	0.091	0.27	0.40
o-Xylene	0.031	0.037	0.14	0.16
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
1,4-Dichlorobenzene	0.031	Not Detected UJ	0.19	Not Detected UJ UJ

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: 401075-IA-05-F2-0318

Lab ID#: 1803401A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032318	Date of Collection:	3/14/18 12:44:00 PM
Dil. Factor:	1.43	Date of Analysis:	3/23/18 05:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.14	Not Detected	0.32	Not Detected
Bromomethane	0.72	Not Detected	2.8	Not Detected
Freon 11	0.14	0.26	0.80	1.4
Ethanol	0.72	70 E	1.3	130 E J
Freon 113	0.14	Not Detected	1.1	Not Detected
Acetone	0.72	10	1.7	24
2-Propanol	0.72	3.1	1.8	7.7
Carbon Disulfide	0.72	Not Detected	2.2	Not Detected
3-Chloropropene	0.72	Not Detected	2.2	Not Detected
Methylene Chloride	0.29	0.77	0.99	2.7
Hexane	0.14	0.31	0.50	1.1
2-Butanone (Methyl Ethyl Ketone)	0.72	Not Detected	2.1	Not Detected
Tetrahydrofuran	0.72	Not Detected	2.1	Not Detected
Cyclohexane	0.14	Not Detected	0.49	Not Detected
2,2,4-Trimethylpentane	0.72	Not Detected	3.3	Not Detected
Heptane	0.14	0.28	0.59	1.2
1,2-Dichloropropane	0.14	Not Detected	0.66	Not Detected
1,4-Dioxane	0.14	Not Detected	0.52	Not Detected
Bromodichloromethane	0.14	Not Detected	0.96	Not Detected
cis-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
4-Methyl-2-pentanone	0.14	Not Detected	0.58	Not Detected
trans-1,3-Dichloropropene	0.14	Not Detected	0.65	Not Detected
2-Hexanone	0.72	Not Detected	2.9	Not Detected
Dibromochloromethane	0.14	Not Detected	1.2	Not Detected
Chlorobenzene	0.14	Not Detected	0.66	Not Detected
Styrene	0.14	Not Detected	0.61	Not Detected
Bromoform	0.14	Not Detected	1.5	Not Detected
Cumene	0.14	Not Detected	0.70	Not Detected
Propylbenzene	0.14	Not Detected	0.70	Not Detected
4-Ethyltoluene	0.14	Not Detected	0.70	Not Detected
1,3,5-Trimethylbenzene	0.14	Not Detected	0.70	Not Detected
1,2,4-Trimethylbenzene	0.14	Not Detected	0.70	Not Detected
1,3-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
alpha-Chlorotoluene	0.14	Not Detected	0.74	Not Detected
1,2-Dichlorobenzene	0.14	Not Detected	0.86	Not Detected
1,2,4-Trichlorobenzene	0.72	Not Detected	5.3	Not Detected UJ
Hexachlorobutadiene	0.72	Not Detected	7.6	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
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Air Toxics

Client Sample ID: 401075-IA-05-F2-0318

Lab ID#: 1803401A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032318	Date of Collection: 3/14/18 12:44:00 PM
Dil. Factor:	1.43	Date of Analysis: 3/23/18 05:10 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: 401075-IA-05-F2-0318

Lab ID#: 1803401A-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032318sim	Date of Collection:	3/14/18 12:44:00 PM
Dil. Factor:	1.43	Date of Analysis:	3/23/18 05:10 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.029	0.41	0.14	2.0
Freon 114	0.029	Not Detected	0.20	Not Detected
Chloromethane	0.72	Not Detected	1.5	Not Detected
Vinyl Chloride	0.014	Not Detected	0.036	Not Detected
Chloroethane	0.072	Not Detected	0.19	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.057	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.52	Not Detected
1,1-Dichloroethane	0.029	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.029	Not Detected	0.11	Not Detected
Chloroform	0.029	0.30	0.14	1.5
1,1,1-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.029	0.067	0.18	0.42 J
Benzene	0.072	0.25	0.23	0.81
1,2-Dichloroethane	0.029	0.046	0.12	0.19
Trichloroethene	0.029	0.095	0.15	0.51
Toluene	0.029	1.4	0.11	5.1
1,1,2-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Tetrachloroethene	0.029	0.15	0.19	1.0
1,2-Dibromoethane (EDB)	0.029	Not Detected	0.22	Not Detected
Ethyl Benzene	0.029	0.18	0.12	0.80
m,p-Xylene	0.057	0.55	0.25	2.4
o-Xylene	0.029	0.18	0.12	0.79
1,1,2,2-Tetrachloroethane	0.029	Not Detected	0.20	Not Detected
1,4-Dichlorobenzene	0.029	Not Detected UJ	0.17	Not Detected UJ UJ

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: 401075-IA-06-B-0318

Lab ID#: 1803401A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032314	Date of Collection:	3/14/18 2:00:00 PM
Dil. Factor:	1.64	Date of Analysis:	3/23/18 02:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.16	Not Detected	0.36	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Freon 11	0.16	0.25	0.92	1.4
Ethanol	0.82	Not Detected	1.5	Not Detected
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.82	1.4	1.9	3.3
2-Propanol	0.82	Not Detected	2.0	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
3-Chloropropene	0.82	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.1	Not Detected
Hexane	0.16	0.44	0.58	1.5
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Cyclohexane	0.16	Not Detected	0.56	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Heptane	0.16	0.38	0.67	1.6
1,2-Dichloropropane	0.16	Not Detected	0.76	Not Detected
1,4-Dioxane	0.16	Not Detected	0.59	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.67	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.74	Not Detected
2-Hexanone	0.82	Not Detected	3.4	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
Chlorobenzene	0.16	Not Detected	0.76	Not Detected
Styrene	0.16	Not Detected	0.70	Not Detected
Bromoform	0.16	Not Detected	1.7	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected
Propylbenzene	0.16	Not Detected	0.81	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.81	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.81	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.85	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.99	Not Detected
1,2,4-Trichlorobenzene	0.82	Not Detected	6.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected

UJ

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130



Air Toxics

Client Sample ID: 401075-IA-06-B-0318

Lab ID#: 1803401A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032314	Date of Collection: 3/14/18 2:00:00 PM
Dil. Factor:	1.64	Date of Analysis: 3/23/18 02:58 PM

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: 401075-IA-06-B-0318

Lab ID#: 1803401A-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032314sim	Date of Collection:	3/14/18 2:00:00 PM
Dil. Factor:	1.64	Date of Analysis:	3/23/18 02:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.50	0.16	2.4
Freon 114	0.033	Not Detected	0.23	Not Detected
Chloromethane	0.82	Not Detected	1.7	Not Detected
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected
Chloroethane	0.082	Not Detected	0.22	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.065	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	0.15	0.13	0.61
Chloroform	0.033	0.058	0.16	0.28
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.066	0.21	0.41 J
Benzene	0.082	0.13	0.26	0.41
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	0.47	0.18	2.5
Toluene	0.033	0.20	0.12	0.75
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	3.8	0.22	25
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.25	Not Detected
Ethyl Benzene	0.033	0.039	0.14	0.17
m,p-Xylene	0.066	0.098	0.28	0.42
o-Xylene	0.033	0.040	0.14	0.17
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.22	Not Detected
1,4-Dichlorobenzene	0.033	Not Detected UJ	0.20	Not Detected UJ UJ

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	93	70-130



Air Toxics

Client Sample ID: 401075-IA-06-F1-0318

Lab ID#: 1803401A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032315	Date of Collection:	3/13/18 4:45:00 PM
Dil. Factor:	1.58	Date of Analysis:	3/23/18 03:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.16	Not Detected	0.35	Not Detected
Bromomethane	0.79	Not Detected	3.1	Not Detected
Freon 11	0.16	0.25	0.89	1.4
Ethanol	0.79	7.9	1.5	15
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.79	9.0	1.9	21
2-Propanol	0.79	Not Detected	1.9	Not Detected
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
3-Chloropropene	0.79	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	Not Detected	1.1	Not Detected
Hexane	0.16	2.8	0.56	9.9
2-Butanone (Methyl Ethyl Ketone)	0.79	Not Detected	2.3	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
Cyclohexane	0.16	Not Detected	0.54	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.7	Not Detected
Heptane	0.16	Not Detected	0.65	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.73	Not Detected
1,4-Dioxane	0.16	Not Detected	0.57	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.65	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
2-Hexanone	0.79	Not Detected	3.2	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.73	Not Detected
Styrene	0.16	Not Detected	0.67	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.78	Not Detected
Propylbenzene	0.16	Not Detected	0.78	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.78	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.78	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.78	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.82	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2,4-Trichlorobenzene	0.79	Not Detected	5.9	Not Detected
Hexachlorobutadiene	0.79	Not Detected	8.4	Not Detected

UJ

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130



Air Toxics

Client Sample ID: 401075-IA-06-F1-0318

Lab ID#: 1803401A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032315	Date of Collection: 3/13/18 4:45:00 PM
Dil. Factor:	1.58	Date of Analysis: 3/23/18 03:31 PM

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: 401075-IA-06-F1-0318

Lab ID#: 1803401A-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032315sim	Date of Collection:	3/13/18 4:45:00 PM
Dil. Factor:	1.58	Date of Analysis:	3/23/18 03:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.49	0.16	2.4
Freon 114	0.032	Not Detected	0.22	Not Detected
Chloromethane	0.79	Not Detected	1.6	Not Detected
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Chloroethane	0.079	Not Detected	0.21	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	0.13	0.12	0.53
Chloroform	0.032	0.13	0.15	0.62
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.066	0.20	0.41 J
Benzene	0.079	0.13	0.25	0.43
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	1.1	0.17	6.2
Toluene	0.032	0.31	0.12	1.2
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	3.4	0.21	23
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.24	Not Detected
Ethyl Benzene	0.032	0.045	0.14	0.20
m,p-Xylene	0.063	0.14	0.27	0.63
o-Xylene	0.032	0.052	0.14	0.22
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
1,4-Dichlorobenzene	0.032	Not Detected UJ	0.19	Not Detected UJ UJ

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	88	70-130



Air Toxics

Client Sample ID: 401075-IA-10-0318

Lab ID#: 1803401A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032319	Date of Collection:	3/14/18 5:03:00 PM
Dil. Factor:	1.79	Date of Analysis:	3/23/18 05:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.18	Not Detected	0.40	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Freon 11	0.18	0.21	1.0	1.2
Ethanol	0.90	3.0	1.7	5.6
Freon 113	0.18	Not Detected	1.4	Not Detected
Acetone	0.90	4.1	2.1	9.8
2-Propanol	0.90	0.99	2.2	2.4
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	0.90	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	0.39	1.2	1.4
Hexane	0.18	1.2	0.63	4.4
2-Butanone (Methyl Ethyl Ketone)	0.90	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
Cyclohexane	0.18	Not Detected	0.62	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Heptane	0.18	0.64	0.73	2.6
1,2-Dichloropropane	0.18	Not Detected	0.83	Not Detected
1,4-Dioxane	0.18	Not Detected	0.64	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
4-Methyl-2-pentanone	0.18	Not Detected	0.73	Not Detected
trans-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
2-Hexanone	0.90	Not Detected	3.7	Not Detected
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
Chlorobenzene	0.18	Not Detected	0.82	Not Detected
Styrene	0.18	Not Detected	0.76	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.88	Not Detected
Propylbenzene	0.18	Not Detected	0.88	Not Detected
4-Ethyltoluene	0.18	0.26	0.88	1.3 J+
1,3,5-Trimethylbenzene	0.18	Not Detected	0.88	Not Detected
1,2,4-Trimethylbenzene	0.18	0.24	0.88	1.2
1,3-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.93	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.90	Not Detected	6.6	Not Detected UJ
Hexachlorobutadiene	0.90	Not Detected	9.5	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130



Air Toxics

Client Sample ID: 401075-IA-10-0318

Lab ID#: 1803401A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032319	Date of Collection: 3/14/18 5:03:00 PM
Dil. Factor:	1.79	Date of Analysis: 3/23/18 05:43 PM

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
4-Bromofluorobenzene	89	70-130

Client Sample ID: 401075-IA-10-0318

Lab ID#: 1803401A-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032319sim	Date of Collection:	3/14/18 5:03:00 PM
Dil. Factor:	1.79	Date of Analysis:	3/23/18 05:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.036	0.41	0.18	2.0
Freon 114	0.036	Not Detected	0.25	Not Detected
Chloromethane	0.90	Not Detected	1.8	Not Detected
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
Chloroethane	0.090	Not Detected	0.24	Not Detected
1,1-Dichloroethene	0.018	Not Detected	0.071	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.64	Not Detected
1,1-Dichloroethane	0.036	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.036	0.041	0.14	0.16
Chloroform	0.036	0.041	0.17	0.20
1,1,1-Trichloroethane	0.036	Not Detected	0.20	Not Detected
Carbon Tetrachloride	0.036	0.064	0.22	0.41 J
Benzene	0.090	0.35	0.28	1.1
1,2-Dichloroethane	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	0.066	0.19	0.36
Toluene	0.036	1.3	0.13	4.9
1,1,2-Trichloroethane	0.036	Not Detected	0.20	Not Detected
Tetrachloroethene	0.036	12	0.24	85
1,2-Dibromoethane (EDB)	0.036	Not Detected	0.28	Not Detected
Ethyl Benzene	0.036	0.24	0.16	1.0
m,p-Xylene	0.072	0.87	0.31	3.8
o-Xylene	0.036	0.34	0.16	1.5
1,1,2,2-Tetrachloroethane	0.036	Not Detected	0.24	Not Detected
1,4-Dichlorobenzene	0.036	Not Detected UJ	0.22	Not Detected UJ UJ

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	86	70-130



Air Toxics

Client Sample ID: 401075-IA-FD-0318

Lab ID#: 1803401A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032322	Date of Collection:	3/14/18 2:55:00 PM
Dil. Factor:	1.60	Date of Analysis:	3/23/18 07:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.16	Not Detected	0.35	Not Detected
Bromomethane	0.80	Not Detected	3.1	Not Detected
Freon 11	0.16	0.22	0.90	1.2
Ethanol	0.80	1.3	1.5	2.5
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.80	2.9	1.9	6.8
2-Propanol	0.80	Not Detected	2.0	Not Detected
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
3-Chloropropene	0.80	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	0.40	1.1	1.4
Hexane	0.16	0.31	0.56	1.1
2-Butanone (Methyl Ethyl Ketone)	0.80	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
Cyclohexane	0.16	Not Detected	0.55	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.7	Not Detected
Heptane	0.16	0.36	0.66	1.5 J
1,2-Dichloropropane	0.16	Not Detected	0.74	Not Detected
1,4-Dioxane	0.16	Not Detected	0.58	Not Detected
Bromodichloromethane	0.16	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.66	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.73	Not Detected
2-Hexanone	0.80	Not Detected	3.3	Not Detected
Dibromochloromethane	0.16	Not Detected	1.4	Not Detected
Chlorobenzene	0.16	Not Detected	0.74	Not Detected
Styrene	0.16	Not Detected	0.68	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.79	Not Detected
Propylbenzene	0.16	Not Detected	0.79	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.79	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.79	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.96	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.83	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.96	Not Detected
1,2,4-Trichlorobenzene	0.80	Not Detected	5.9	Not Detected UJ
Hexachlorobutadiene	0.80	Not Detected	8.5	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130



Air Toxics

Client Sample ID: 401075-IA-FD-0318

Lab ID#: 1803401A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032322	Date of Collection: 3/14/18 2:55:00 PM
Dil. Factor:	1.60	Date of Analysis: 3/23/18 07:23 PM

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: 401075-IA-FD-0318

Lab ID#: 1803401A-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 21032322sim

Date of Collection: 3/14/18 2:55:00 PM

Dil. Factor: 1.60

Date of Analysis: 3/23/18 07:23 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.41	0.16	2.0
Freon 114	0.032	Not Detected	0.22	Not Detected
Chloromethane	0.80	Not Detected	1.6	Not Detected
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Chloroethane	0.080	Not Detected	0.21	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Chloroform	0.032	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.065	0.20	0.41 J
Benzene	0.080	0.14	0.26	0.46
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	0.25	0.12	0.95
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	0.34	0.22	2.3
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.24	Not Detected
Ethyl Benzene	0.032	0.034	0.14	0.15
m,p-Xylene	0.064	0.088	0.28	0.38
o-Xylene	0.032	0.034	0.14	0.15
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
1,4-Dichlorobenzene	0.032	Not Detected UJ	0.19	Not Detected UJ UJ

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	88	70-130



Air Toxics

Client Sample ID: 401075-OA-DW-0318

Lab ID#: 1803401A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032321	Date of Collection:	3/13/18 5:41:00 PM
Dil. Factor:	1.53	Date of Analysis:	3/23/18 06:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.15	Not Detected	0.34	Not Detected
Bromomethane	0.76	Not Detected	3.0	Not Detected
Freon 11	0.15	0.21	0.86	1.2
Ethanol	0.76	1.1	1.4	2.0
Freon 113	0.15	Not Detected	1.2	Not Detected
Acetone	0.76	4.0	1.8	9.5
2-Propanol	0.76	Not Detected	1.9	Not Detected
Carbon Disulfide	0.76	Not Detected	2.4	Not Detected
3-Chloropropene	0.76	Not Detected	2.4	Not Detected
Methylene Chloride	0.31	Not Detected	1.1	Not Detected
Hexane	0.15	Not Detected	0.54	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.76	Not Detected	2.2	Not Detected
Tetrahydrofuran	0.76	Not Detected	2.2	Not Detected
Cyclohexane	0.15	Not Detected	0.53	Not Detected
2,2,4-Trimethylpentane	0.76	Not Detected	3.6	Not Detected
Heptane	0.15	Not Detected	0.63	Not Detected
1,2-Dichloropropane	0.15	Not Detected	0.71	Not Detected
1,4-Dioxane	0.15	Not Detected	0.55	Not Detected
Bromodichloromethane	0.15	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.69	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected	0.63	Not Detected
trans-1,3-Dichloropropene	0.15	Not Detected	0.69	Not Detected
2-Hexanone	0.76	Not Detected	3.1	Not Detected
Dibromochloromethane	0.15	Not Detected	1.3	Not Detected
Chlorobenzene	0.15	Not Detected	0.70	Not Detected
Styrene	0.15	Not Detected	0.65	Not Detected
Bromoform	0.15	Not Detected	1.6	Not Detected
Cumene	0.15	Not Detected	0.75	Not Detected
Propylbenzene	0.15	Not Detected	0.75	Not Detected
4-Ethyltoluene	0.15	Not Detected	0.75	Not Detected
1,3,5-Trimethylbenzene	0.15	Not Detected	0.75	Not Detected
1,2,4-Trimethylbenzene	0.15	Not Detected	0.75	Not Detected
1,3-Dichlorobenzene	0.15	Not Detected	0.92	Not Detected
alpha-Chlorotoluene	0.15	Not Detected	0.79	Not Detected
1,2-Dichlorobenzene	0.15	Not Detected	0.92	Not Detected
1,2,4-Trichlorobenzene	0.76	Not Detected	5.7	Not Detected
Hexachlorobutadiene	0.76	Not Detected	8.2	Not Detected

UJ

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130



Air Toxics

Client Sample ID: 401075-OA-DW-0318

Lab ID#: 1803401A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032321	Date of Collection: 3/13/18 5:41:00 PM
Dil. Factor:	1.53	Date of Analysis: 3/23/18 06:50 PM

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
4-Bromofluorobenzene	89	70-130



Air Toxics

Client Sample ID: 401075-OA-DW-0318

Lab ID#: 1803401A-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: 21032321sim

Date of Collection: 3/13/18 5:41:00 PM

Dil. Factor: 1.53

Date of Analysis: 3/23/18 06:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.41	0.15	2.0
Freon 114	0.031	Not Detected	0.21	Not Detected
Chloromethane	0.76	Not Detected	1.6	Not Detected
Vinyl Chloride	0.015	Not Detected	0.039	Not Detected
Chloroethane	0.076	Not Detected	0.20	Not Detected
1,1-Dichloroethene	0.015	Not Detected	0.061	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.55	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
Chloroform	0.031	Not Detected	0.15	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.031	0.066	0.19	0.41 J
Benzene	0.076	0.12	0.24	0.40
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.16	Not Detected
Toluene	0.031	0.17	0.12	0.63
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.031	0.040	0.13	0.18
m,p-Xylene	0.061	0.16	0.26	0.70
o-Xylene	0.031	0.059	0.13	0.26
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
1,4-Dichlorobenzene	0.031	Not Detected UJ	0.18	Not Detected UJ UJ

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	85	70-130



Air Toxics

Client Sample ID: 401075-OA-UW-0318

Lab ID#: 1803401A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032320	Date of Collection:	3/13/18 5:47:00 PM
Dil. Factor:	1.58	Date of Analysis:	3/23/18 06:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.16	Not Detected	0.35	Not Detected
Bromomethane	0.79	Not Detected	3.1	Not Detected
Freon 11	0.16	0.21	0.89	1.2
Ethanol	0.79	0.91	1.5	1.7
Freon 113	0.16	Not Detected	1.2	Not Detected
Acetone	0.79	5.4	1.9	13
2-Propanol	0.79	Not Detected	1.9	Not Detected
Carbon Disulfide	0.79	Not Detected	2.5	Not Detected
3-Chloropropene	0.79	Not Detected	2.5	Not Detected
Methylene Chloride	0.32	Not Detected	1.1	Not Detected
Hexane	0.16	0.15 J	0.56	0.54 J
2-Butanone (Methyl Ethyl Ketone)	0.79	Not Detected	2.3	Not Detected
Tetrahydrofuran	0.79	Not Detected	2.3	Not Detected
Cyclohexane	0.16	Not Detected	0.54	Not Detected
2,2,4-Trimethylpentane	0.79	Not Detected	3.7	Not Detected
Heptane	0.16	Not Detected	0.65	Not Detected
1,2-Dichloropropane	0.16	Not Detected	0.73	Not Detected
1,4-Dioxane	0.16	Not Detected	0.57	Not Detected
Bromodichloromethane	0.16	Not Detected	1.0	Not Detected
cis-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
4-Methyl-2-pentanone	0.16	Not Detected	0.65	Not Detected
trans-1,3-Dichloropropene	0.16	Not Detected	0.72	Not Detected
2-Hexanone	0.79	Not Detected	3.2	Not Detected
Dibromochloromethane	0.16	Not Detected	1.3	Not Detected
Chlorobenzene	0.16	Not Detected	0.73	Not Detected
Styrene	0.16	Not Detected	0.67	Not Detected
Bromoform	0.16	Not Detected	1.6	Not Detected
Cumene	0.16	Not Detected	0.78	Not Detected
Propylbenzene	0.16	Not Detected	0.78	Not Detected
4-Ethyltoluene	0.16	Not Detected	0.78	Not Detected
1,3,5-Trimethylbenzene	0.16	Not Detected	0.78	Not Detected
1,2,4-Trimethylbenzene	0.16	Not Detected	0.78	Not Detected
1,3-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
alpha-Chlorotoluene	0.16	Not Detected	0.82	Not Detected
1,2-Dichlorobenzene	0.16	Not Detected	0.95	Not Detected
1,2,4-Trichlorobenzene	0.79	Not Detected	5.9	Not Detected
Hexachlorobutadiene	0.79	Not Detected	8.4	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
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Air Toxics

Client Sample ID: 401075-OA-UW-0318

Lab ID#: 1803401A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032320	Date of Collection: 3/13/18 5:47:00 PM
Dil. Factor:	1.58	Date of Analysis: 3/23/18 06:17 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: 401075-OA-UW-0318

Lab ID#: 1803401A-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	21032320sim	Date of Collection:	3/13/18 5:47:00 PM
Dil. Factor:	1.58	Date of Analysis:	3/23/18 06:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.41	0.16	2.0
Freon 114	0.032	Not Detected	0.22	Not Detected
Chloromethane	0.79	Not Detected	1.6	Not Detected
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Chloroethane	0.079	Not Detected	0.21	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.12	Not Detected
Chloroform	0.032	Not Detected	0.15	Not Detected
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.064	0.20	0.40 J
Benzene	0.079	0.14	0.25	0.44
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	Not Detected	0.17	Not Detected
Toluene	0.032	0.28	0.12	1.1
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	Not Detected	0.21	Not Detected
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.24	Not Detected
Ethyl Benzene	0.032	0.076	0.14	0.33
m,p-Xylene	0.063	0.32	0.27	1.4
o-Xylene	0.032	0.12	0.14	0.50
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
1,4-Dichlorobenzene	0.032	Not Detected UJ	0.19	Not Detected UJ UJ

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	90	70-130



Air Toxics

Client Sample ID: 401075-SS-06-0318

Lab ID#: 1803401B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032222	Date of Collection:	3/14/18 1:47:00 PM
Dil. Factor:	1.66	Date of Analysis:	3/22/18 10:19 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.83	Not Detected	4.1	Not Detected
Freon 114	0.17	Not Detected	1.2	Not Detected
Chloromethane	0.83	Not Detected	1.7	Not Detected
Vinyl Chloride	0.17	Not Detected	0.42	Not Detected
1,3-Butadiene	0.17	0.41	0.37	0.90
Bromomethane	0.83	Not Detected	3.2	Not Detected
Chloroethane	0.83	Not Detected	2.2	Not Detected
Freon 11	0.17	0.28	0.93	1.5
Ethanol	0.83	4.4	1.6	8.2
Freon 113	0.17	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Acetone	0.83	120 E	2.0	290 E J
2-Propanol	0.83	1.8	2.0	4.4
Carbon Disulfide	0.83	2.6	2.6	8.0
3-Chloropropene	0.83	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Hexane	0.17	0.48	0.58	1.7
1,1-Dichloroethane	0.17	Not Detected	0.67	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.83	6.4	2.4	19
cis-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Tetrahydrofuran	0.83	Not Detected	2.4	Not Detected
Chloroform	0.17	Not Detected	0.81	Not Detected
1,1,1-Trichloroethane	0.17	Not Detected	0.90	Not Detected
Cyclohexane	0.17	Not Detected	0.57	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
2,2,4-Trimethylpentane	0.83	Not Detected	3.9	Not Detected
Benzene	0.17	0.97	0.53	3.1
1,2-Dichloroethane	0.17	Not Detected	0.67	Not Detected
Heptane	0.17	0.42	0.68	1.7
Trichloroethene	0.17	0.20	0.89	1.1
1,2-Dichloropropane	0.17	Not Detected	0.77	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.75	Not Detected
4-Methyl-2-pentanone	0.17	0.37	0.68	1.5
Toluene	0.17	1.6	0.62	6.1
trans-1,3-Dichloropropene	0.17	Not Detected	0.75	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.90	Not Detected
Tetrachloroethene	0.17	1.2	1.1	8.2
2-Hexanone	0.83	Not Detected	3.4	Not Detected

Client Sample ID: 401075-SS-06-0318

Lab ID#: 1803401B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032222	Date of Collection:	3/14/18 1:47:00 PM
Dil. Factor:	1.66	Date of Analysis:	3/22/18 10:19 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
1,2-Dibromoethane (EDB)	0.17	Not Detected	1.3	Not Detected
Chlorobenzene	0.17	Not Detected	0.76	Not Detected
Ethyl Benzene	0.17	0.32	0.72	1.4
m,p-Xylene	0.17	1.3	0.72	5.8
o-Xylene	0.17	0.50	0.72	2.2
Styrene	0.17	Not Detected	0.71	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.1	Not Detected
Propylbenzene	0.17	Not Detected	0.82	Not Detected
4-Ethyltoluene	0.17	0.37	0.82	1.8
1,3,5-Trimethylbenzene	0.17	Not Detected	0.82	Not Detected
1,2,4-Trimethylbenzene	0.17	0.43	0.82	2.1
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,4-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.86	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.83	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.83	Not Detected	8.8	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	110	70-130



Air Toxics

Client Sample ID: 401075-SS-10A-0318

Lab ID#: 1803401B-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032223	Date of Collection:	3/14/18 4:55:00 PM
Dil. Factor:	6.47	Date of Analysis:	3/22/18 10:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.2	Not Detected	16	Not Detected
Freon 114	0.65	Not Detected	4.5	Not Detected
Chloromethane	3.2	Not Detected	6.7	Not Detected
Vinyl Chloride	0.65	Not Detected	1.6	Not Detected
1,3-Butadiene	0.65	Not Detected	1.4	Not Detected
Bromomethane	3.2	Not Detected	12	Not Detected
Chloroethane	3.2	Not Detected	8.5	Not Detected
Freon 11	0.65	Not Detected	3.6	Not Detected
Ethanol	3.2	5.2	6.1	9.9
Freon 113	0.65	Not Detected	5.0	Not Detected
1,1-Dichloroethene	0.65	Not Detected	2.6	Not Detected
Acetone	3.2	77	7.7	180
2-Propanol	3.2	Not Detected	8.0	Not Detected
Carbon Disulfide	3.2	Not Detected	10	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
Methylene Chloride	1.3	Not Detected	4.5	Not Detected
Methyl tert-butyl ether	0.65	Not Detected	2.3	Not Detected
trans-1,2-Dichloroethene	0.65	Not Detected	2.6	Not Detected
Hexane	0.65	1.5	2.3	5.2
1,1-Dichloroethane	0.65	Not Detected	2.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.2	Not Detected	9.5	Not Detected
cis-1,2-Dichloroethene	0.65	1.9	2.6	7.4
Tetrahydrofuran	3.2	Not Detected	9.5	Not Detected
Chloroform	0.65	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.65	Not Detected	3.5	Not Detected
Cyclohexane	0.65	Not Detected	2.2	Not Detected
Carbon Tetrachloride	0.65	Not Detected	4.1	Not Detected
2,2,4-Trimethylpentane	3.2	Not Detected	15	Not Detected
Benzene	0.65	3.0	2.1	9.5
1,2-Dichloroethane	0.65	Not Detected	2.6	Not Detected
Heptane	0.65	0.99	2.6	4.1
Trichloroethene	0.65	3.2	3.5	17
1,2-Dichloropropane	0.65	Not Detected	3.0	Not Detected
1,4-Dioxane	0.65	Not Detected	2.3	Not Detected
Bromodichloromethane	0.65	Not Detected	4.3	Not Detected
cis-1,3-Dichloropropene	0.65	Not Detected	2.9	Not Detected
4-Methyl-2-pentanone	0.65	Not Detected	2.6	Not Detected
Toluene	0.65	6.1	2.4	23
trans-1,3-Dichloropropene	0.65	Not Detected	2.9	Not Detected
1,1,2-Trichloroethane	0.65	Not Detected	3.5	Not Detected
Tetrachloroethene	0.65	100	4.4	700
2-Hexanone	3.2	Not Detected	13	Not Detected



Air Toxics

Client Sample ID: 401075-SS-10A-0318

Lab ID#: 1803401B-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v032223	Date of Collection:	3/14/18 4:55:00 PM
Dil. Factor:	6.47	Date of Analysis:	3/22/18 10:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.65	Not Detected	5.5	Not Detected
1,2-Dibromoethane (EDB)	0.65	Not Detected	5.0	Not Detected
Chlorobenzene	0.65	Not Detected	3.0	Not Detected
Ethyl Benzene	0.65	0.91	2.8	4.0
m,p-Xylene	0.65	4.0	2.8	17
o-Xylene	0.65	1.5	2.8	6.4
Styrene	0.65	Not Detected	2.8	Not Detected
Bromoform	0.65	Not Detected	6.7	Not Detected
Cumene	0.65	Not Detected	3.2	Not Detected
1,1,2,2-Tetrachloroethane	0.65	Not Detected	4.4	Not Detected
Propylbenzene	0.65	Not Detected	3.2	Not Detected
4-Ethyltoluene	0.65	0.72	3.2	3.5
1,3,5-Trimethylbenzene	0.65	Not Detected	3.2	Not Detected
1,2,4-Trimethylbenzene	0.65	Not Detected	3.2	Not Detected
1,3-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
1,4-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
alpha-Chlorotoluene	0.65	Not Detected	3.3	Not Detected
1,2-Dichlorobenzene	0.65	Not Detected	3.9	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	110	70-130

Client Sample ID: 401075-SS-10B-0318

Lab ID#: 1803401B-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3032308	Date of Collection:	3/14/18 5:05:00 PM
Dil. Factor:	7.22	Date of Analysis:	3/23/18 04:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.6	Not Detected	18	Not Detected
Freon 114	3.6	Not Detected	25	Not Detected
Chloromethane	36	Not Detected	74	Not Detected
Vinyl Chloride	3.6	Not Detected	9.2	Not Detected
1,3-Butadiene	3.6	Not Detected	8.0	Not Detected
Bromomethane	36	Not Detected	140	Not Detected
Chloroethane	14	Not Detected	38	Not Detected
Freon 11	3.6	Not Detected	20	Not Detected
Ethanol	14	Not Detected	27	Not Detected
Freon 113	3.6	Not Detected	28	Not Detected
1,1-Dichloroethene	3.6	Not Detected	14	Not Detected
Acetone	36	Not Detected	86	Not Detected
2-Propanol	14	Not Detected	35	Not Detected
Carbon Disulfide	14	Not Detected	45	Not Detected
3-Chloropropene	14	Not Detected	45	Not Detected
Methylene Chloride	36	Not Detected	120	Not Detected
Methyl tert-butyl ether	14	Not Detected	52	Not Detected
trans-1,2-Dichloroethene	3.6	Not Detected	14	Not Detected
Hexane	3.6	Not Detected	13	Not Detected
1,1-Dichloroethane	3.6	Not Detected	15	Not Detected
2-Butanone (Methyl Ethyl Ketone)	14	Not Detected	42	Not Detected
cis-1,2-Dichloroethene	3.6	Not Detected	14	Not Detected
Tetrahydrofuran	3.6	Not Detected	11	Not Detected
Chloroform	3.6	Not Detected	18	Not Detected
1,1,1-Trichloroethane	3.6	Not Detected	20	Not Detected
Cyclohexane	3.6	Not Detected	12	Not Detected
Carbon Tetrachloride	3.6	Not Detected	23	Not Detected
2,2,4-Trimethylpentane	3.6	Not Detected	17	Not Detected
Benzene	3.6	Not Detected	12	Not Detected
1,2-Dichloroethane	3.6	Not Detected	15	Not Detected
Heptane	3.6	Not Detected	15	Not Detected
Trichloroethene	3.6	13	19	72
1,2-Dichloropropane	3.6	Not Detected	17	Not Detected
1,4-Dioxane	14	Not Detected	52	Not Detected
Bromodichloromethane	3.6	Not Detected	24	Not Detected
cis-1,3-Dichloropropene	3.6	Not Detected	16	Not Detected
4-Methyl-2-pentanone	3.6	Not Detected	15	Not Detected
Toluene	3.6	5.4	14	20
trans-1,3-Dichloropropene	3.6	Not Detected	16	Not Detected
1,1,2-Trichloroethane	3.6	Not Detected	20	Not Detected
Tetrachloroethene	3.6	870	24	5900
2-Hexanone	14	Not Detected	59	Not Detected



Air Toxics

Client Sample ID: 401075-SS-10B-0318

Lab ID#: 1803401B-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3032308	Date of Collection:	3/14/18 5:05:00 PM
Dil. Factor:	7.22	Date of Analysis:	3/23/18 04:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	3.6	Not Detected	31	Not Detected
1,2-Dibromoethane (EDB)	3.6	Not Detected	28	Not Detected
Chlorobenzene	3.6	Not Detected	17	Not Detected
Ethyl Benzene	3.6	Not Detected	16	Not Detected
m,p-Xylene	3.6	Not Detected	16	Not Detected
o-Xylene	3.6	Not Detected	16	Not Detected
Styrene	3.6	Not Detected	15	Not Detected
Bromoform	3.6	Not Detected	37	Not Detected
Cumene	3.6	Not Detected	18	Not Detected
1,1,2,2-Tetrachloroethane	3.6	Not Detected	25	Not Detected
Propylbenzene	3.6	Not Detected	18	Not Detected
4-Ethyltoluene	3.6	Not Detected	18	Not Detected
1,3,5-Trimethylbenzene	3.6	Not Detected	18	Not Detected
1,2,4-Trimethylbenzene	3.6	Not Detected	18	Not Detected
1,3-Dichlorobenzene	3.6	Not Detected	22	Not Detected
1,4-Dichlorobenzene	3.6	Not Detected	22	Not Detected
alpha-Chlorotoluene	3.6	Not Detected	19	Not Detected
1,2-Dichlorobenzene	3.6	Not Detected	22	Not Detected
1,2,4-Trichlorobenzene	14	Not Detected	110	Not Detected
Hexachlorobutadiene	14	Not Detected	150	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	108	70-130

April 17, 2018

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

Project Location: Watervliet, NY
Client Job Number:
Project Number: 1490378.0003
Laboratory Work Order Number: 18D0057

Enclosed are results of analyses for samples received by the laboratory on April 2, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a long horizontal line extending to the right.

Aaron L. Benoit
Project Manager

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

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

REPORT DATE: 4/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490378.0003

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18D0057

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

PROJECT LOCATION: Watervliet, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
401075-SS-01-0-2	18D0057-01	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8270D SW-846 9014	
401075-SS-01-0-6	18D0057-02	Soil		SM 2540G SW-846 8260C	
401075-SS-02-0-6	18D0057-03	Soil		SM 2540G SW-846 8260C	
401075-SS-02-0-2	18D0057-04	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8270D SW-846 9014	
401075-SS-03-0-6	18D0057-05	Soil		SM 2540G SW-846 8260C	
401075-SS-03-0-2	18D0057-06	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8270D SW-846 9014	
401075-SS-04-0-2	18D0057-07	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8270D SW-846 9014	
401075-SS-04-0-6	18D0057-08	Soil		SM 2540G SW-846 8260C	

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

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

REPORT DATE: 4/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490378.0003

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18D0057

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

PROJECT LOCATION: Watervliet, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
401075-SS-05-0-2	18D0057-09	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8270D SW-846 9014	
401075-SS-05-0-6	18D0057-10	Soil		SM 2540G SW-846 8260C	
401075-SL-FloorDrain01	18D0057-11	Soil		SM 2540G SW-846 8260C	
401075-SL-FloorDrain02	18D0057-12	Soil		SM 2540G SW-846 8260C	
401075-RB-040218	18D0057-13	Water		SW-846 6010C-D SW-846 7470A SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-DUP-040218	18D0057-14	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
Trip Blank	18D0057-15	Trip Blank Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

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

dissolved metals sample was received by the laboratory past the recommended holding time for filtration and preservation.

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SW-846 6010C-D

Qualifications:**DL-04**

Elevated reporting limit due to high concentration of an interfering analyte(s).

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

18D0057-04[401075-SS-02-0-2], 18D0057-09[401075-SS-05-0-2], 18D0057-14[401075-DUP-040218]

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:**Sodium**

B200698-BSD1

M-11

The serial dilution RPD is outside of control limits. Increased variability for reported result is expected.

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

18D0057-06RE1[401075-SS-03-0-2], B200571-SRL1

Lead

18D0057-06RE2[401075-SS-03-0-2], B200698-SRL1

MS-07A

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

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

18D0057-06RE2[401075-SS-03-0-2], B200698-MS1, B200698-MSD1

MS-11

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

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

18D0057-06RE2[401075-SS-03-0-2], B200698-MS1, B200698-MSD1

MS-19

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

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

18D0057-06RE1[401075-SS-03-0-2], B200571-MS1, B200571-MSD1

Barium

18D0057-06RE2[401075-SS-03-0-2], B200698-MS1, B200698-MSD1

Calcium

18D0057-06RE2[401075-SS-03-0-2], B200698-MS1, B200698-MSD1

Iron

18D0057-06RE1[401075-SS-03-0-2], B200571-MS1, B200571-MSD1

Lead

18D0057-06RE2[401075-SS-03-0-2], B200698-MS1, B200698-MSD1

Magnesium

18D0057-06RE1[401075-SS-03-0-2], B200571-MS1, B200571-MSD1

Manganese

18D0057-06RE2[401075-SS-03-0-2], B200698-MS1, B200698-MSD1

MS-22

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

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

B200571-MS1

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R-02

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

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

18D0057-06RE1[401075-SS-03-0-2], B200571-DUP1

Zinc

18D0057-06RE2[401075-SS-03-0-2], B200698-DUP1

R-04

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

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

18D0057-06RE2[401075-SS-03-0-2], B200698-DUP1

SW-846 7471B**Qualifications:**

MS-19

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

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

18D0057-06[401075-SS-03-0-2], B200181-MS1, B200181-MSD1

SW-846 8081B**Qualifications:**

A-06

Result could be biased on the low side due to the overloading of the cassette with particulate matter.

Analyte & Samples(s) Qualified:**alpha-BHC**

B200117-BS1, B200117-BSD1

delta-BHC

B200117-BS1, B200117-BSD1

gamma-BHC (Lindane)

B200117-BS1, B200117-BSD1

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18D0057-01[401075-SS-01-0-2], 18D0057-04[401075-SS-02-0-2], 18D0057-07[401075-SS-04-0-2], 18D0057-09[401075-SS-05-0-2]

P-01

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:**4,4'-DDE**

18D0057-04[401075-SS-02-0-2], 18D0057-06[401075-SS-03-0-2], 18D0057-07[401075-SS-04-0-2]

4,4'-DDT [2C]

18D0057-07[401075-SS-04-0-2]

Dieldrin

18D0057-01[401075-SS-01-0-2], 18D0057-04[401075-SS-02-0-2], 18D0057-06[401075-SS-03-0-2], 18D0057-07[401075-SS-04-0-2], 18D0057-09[401075-SS-05-0-2], 18D0057-14[401075-DUP-040218]

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V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**4,4'-DDD**

B200117-BS1, B200117-BSD1

4,4'-DDE

B200117-BS1, B200117-BSD1

4,4'-DDT

B200117-BS1, B200117-BSD1

Aldrin

B200117-BS1, B200117-BSD1

alpha-BHC

B200117-BS1, B200117-BSD1

delta-BHC

B200117-BS1, B200117-BSD1

gamma-BHC (Lindane)

B200117-BS1, B200117-BSD1

SW-846 8082A**Qualifications:****P-01**

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:**Aroclor-1248**

18D0057-04[401075-SS-02-0-2]

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

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

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

B200242-BS1, B200242-BSD1

L-04

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

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

18D0057-02[401075-SS-01-0-6], 18D0057-03[401075-SS-02-0-6], 18D0057-05[401075-SS-03-0-6], 18D0057-08[401075-SS-04-0-6], 18D0057-10[401075-SS-05-0-6], 18D0057-11[401075-SL-FloorDrain01], 18D0057-12[401075-SL-FloorDrain02], 18D0057-14[401075-DUP-040218], B200169-BLK1, B200169-BS1, B200169-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:**Carbon Tetrachloride**

B200242-BS1

PR-15

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

Analyte & Samples(s) Qualified:

18D0057-02[401075-SS-01-0-6], 18D0057-03[401075-SS-02-0-6], 18D0057-05[401075-SS-03-0-6], 18D0057-08[401075-SS-04-0-6], 18D0057-10[401075-SS-05-0-6], 18D0057-11[401075-SL-FloorDrain01], 18D0057-12[401075-SL-FloorDrain02], 18D0057-14[401075-DUP-040218]

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:**trans-1,4-Dichloro-2-butene**

18D0057-13[401075-RB-040218], 18D0057-15[Trip Blank], B200242-BLK1, B200242-BS1, B200242-BSD1

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V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**1,2-Dibromo-3-chloropropane (DB)**

18D0057-13[401075-RB-040218], 18D0057-15[Trip Blank], B200242-BLK1, B200242-BS1, B200242-BSD1

Carbon Disulfide

18D0057-02[401075-SS-01-0-6], 18D0057-03[401075-SS-02-0-6], 18D0057-05[401075-SS-03-0-6], 18D0057-08[401075-SS-04-0-6], 18D0057-10[401075-SS-05-0-6], 18D0057-11[401075-SL-FloorDrain01], 18D0057-12[401075-SL-FloorDrain02], 18D0057-14[401075-DUP-040218], B200169-BLK1, B200169-BS1, B200169-BSD1

tert-Amyl Methyl Ether (TAME)

18D0057-13[401075-RB-040218], 18D0057-15[Trip Blank], B200242-BLK1, B200242-BS1, B200242-BSD1

V-20

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

Analyte & Samples(s) Qualified:**4-Methyl-2-pentanone (MIBK)**

B200169-BS1, B200169-BSD1

Bromomethane

B200242-BS1, B200242-BSD1

Trichlorofluoromethane (Freon 11)

B200242-BS1, B200242-BSD1

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**

18D0057-02[401075-SS-01-0-6], 18D0057-03[401075-SS-02-0-6], 18D0057-05[401075-SS-03-0-6], 18D0057-08[401075-SS-04-0-6], 18D0057-10[401075-SS-05-0-6], 18D0057-11[401075-SL-FloorDrain01], 18D0057-12[401075-SL-FloorDrain02], 18D0057-14[401075-DUP-040218], B200169-BLK1, B200169-BS1, B200169-BSD1

Dichlorodifluoromethane (Freon 1)

18D0057-02[401075-SS-01-0-6], 18D0057-03[401075-SS-02-0-6], 18D0057-05[401075-SS-03-0-6], 18D0057-08[401075-SS-04-0-6], 18D0057-10[401075-SS-05-0-6], 18D0057-11[401075-SL-FloorDrain01], 18D0057-12[401075-SL-FloorDrain02], 18D0057-13[401075-RB-040218], 18D0057-14[401075-DUP-040218], 18D0057-15[Trip Blank], B200169-BLK1, B200169-BS1, B200169-BSD1, B200242-BLK1, B200242-BS1, B200242-BSD1

SW-846 8270D

Qualifications:

L-07

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

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

B200096-BSD1

L-07A

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

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

B200096-BSD1

Benzidine

B200038-BSD1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.

Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

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

18D0057-06[401075-SS-03-0-2], B200096-MS1, B200096-MSD1

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MS-09

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

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

18D0057-06[401075-SS-03-0-2], B200096-MS1, B200096-MSD1

4-Chloroaniline

18D0057-06[401075-SS-03-0-2], B200096-MS1, B200096-MSD1

Aniline

18D0057-06[401075-SS-03-0-2], B200096-MS1, B200096-MSD1

Hexachlorocyclopentadiene

18D0057-06[401075-SS-03-0-2], B200096-MS1, B200096-MSD1

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**

18D0057-01[401075-SS-01-0-2], 18D0057-04[401075-SS-02-0-2], 18D0057-06[401075-SS-03-0-2], 18D0057-07[401075-SS-04-0-2], 18D0057-09[401075-SS-05-0-2], 18D0057-14[401075-DUP-040218], B200096-BLK1, B200096-BS1

Benzidine

18D0057-01[401075-SS-01-0-2], 18D0057-04[401075-SS-02-0-2], 18D0057-06[401075-SS-03-0-2], 18D0057-07[401075-SS-04-0-2], 18D0057-09[401075-SS-05-0-2], 18D0057-13[401075-RB-040218], 18D0057-14[401075-DUP-040218], B200038-BLK1, B200038-BS1, B200096-BLK1, B200096-BS1, B200096-BSD1, B200096-MS1, B200096-MSD1

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**

18D0057-01[401075-SS-01-0-2], 18D0057-04[401075-SS-02-0-2], 18D0057-06[401075-SS-03-0-2], 18D0057-07[401075-SS-04-0-2], 18D0057-09[401075-SS-05-0-2], 18D0057-13[401075-RB-040218], 18D0057-14[401075-DUP-040218], B200038-BLK1, B200038-BS1, B200038-BSD1, B200096-BLK1, B200096-BS1, B200096-BSD1, B200096-MS1, B200096-MSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

18D0057-01[401075-SS-01-0-2], 18D0057-04[401075-SS-02-0-2], 18D0057-06[401075-SS-03-0-2], 18D0057-07[401075-SS-04-0-2], 18D0057-09[401075-SS-05-0-2], 18D0057-13[401075-RB-040218], 18D0057-14[401075-DUP-040218], B200038-BLK1, B200038-BS1, B200038-BSD1, B200096-BLK1, B200096-BS1, B200096-BSD1, B200096-MS1, B200096-MSD1

Indeno(1,2,3-cd)pyrene

18D0057-01[401075-SS-01-0-2], 18D0057-04[401075-SS-02-0-2], 18D0057-06[401075-SS-03-0-2], 18D0057-07[401075-SS-04-0-2], 18D0057-09[401075-SS-05-0-2], 18D0057-13[401075-RB-040218], 18D0057-14[401075-DUP-040218], B200038-BLK1, B200038-BS1, B200038-BSD1, B200096-BLK1, B200096-BS1, B200096-BSD1, B200096-MS1, B200096-MSD1

V-16

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

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

18D0057-01[401075-SS-01-0-2], 18D0057-04[401075-SS-02-0-2], 18D0057-06[401075-SS-03-0-2], 18D0057-07[401075-SS-04-0-2], 18D0057-09[401075-SS-05-0-2], 18D0057-13[401075-RB-040218], 18D0057-14[401075-DUP-040218], B200038-BLK1, B200038-BS1, B200038-BSD1, B200096-BLK1, B200096-BS1, B200096-BSD1, B200096-MS1, B200096-MSD1

V-19

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

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

18D0057-01[401075-SS-01-0-2], 18D0057-04[401075-SS-02-0-2], 18D0057-06[401075-SS-03-0-2], 18D0057-07[401075-SS-04-0-2], 18D0057-09[401075-SS-05-0-2], 18D0057-13[401075-RB-040218], 18D0057-14[401075-DUP-040218], B200038-BLK1, B200038-BS1, B200038-BSD1, B200096-BLK1, B200096-BS1, B200096-BSD1, B200096-MS1, B200096-MSD1

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**

18D0057-01[401075-SS-01-0-2], 18D0057-04[401075-SS-02-0-2], 18D0057-06[401075-SS-03-0-2], 18D0057-07[401075-SS-04-0-2], 18D0057-09[401075-SS-05-0-2], 18D0057-13[401075-RB-040218], 18D0057-14[401075-DUP-040218], B200038-BLK1, B200038-BS1, B200038-BSD1, B200096-BLK1, B200096-BS1, B200096-BSD1, B200096-MS1, B200096-MSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

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

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

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-01-0-2

Sampled: 4/2/2018 09:18

Sample ID: 18D0057-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Acetophenone	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Aniline	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Anthracene	0.071	0.21	0.059	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Benzidine	ND	0.80	0.51	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Benzo(a)anthracene	0.27	0.21	0.054	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Benzo(a)pyrene	0.29	0.21	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Benzo(b)fluoranthene	0.35	0.21	0.058	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Benzo(g,h,i)perylene	0.16	0.21	0.091	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Benzo(k)fluoranthene	0.17	0.21	0.064	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Benzoic Acid	ND	1.2	0.22	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Bis(2-chloroethoxy)methane	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Bis(2-chloroethyl)ether	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Bis(2-chloroisopropyl)ether	ND	0.41	0.088	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Bis(2-Ethylhexyl)phthalate	0.69	0.41	0.16	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
4-Bromophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Butylbenzylphthalate	0.12	0.41	0.098	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Carbazole	ND	0.21	0.053	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
4-Chloroaniline	ND	0.80	0.094	mg/Kg dry	1	V-34	SW-846 8270D	4/3/18	4/5/18 12:49	BGL
4-Chloro-3-methylphenol	ND	0.80	0.088	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2-Chloronaphthalene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2-Chlorophenol	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
4-Chlorophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Chrysene	0.31	0.21	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Dibenzofuran	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Di-n-butylphthalate	ND	0.41	0.090	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
1,2-Dichlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
1,3-Dichlorobenzene	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
1,4-Dichlorobenzene	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
3,3-Dichlorobenzidine	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2,4-Dichlorophenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Diethylphthalate	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2,4-Dimethylphenol	ND	0.41	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Dimethylphthalate	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2,4-Dinitrophenol	ND	0.80	0.23	mg/Kg dry	1	R-05, V-19	SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2,4-Dinitrotoluene	ND	0.41	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2,6-Dinitrotoluene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Di-n-octylphthalate	ND	0.41	0.22	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Fluoranthene	0.51	0.21	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-01-0-2

Sampled: 4/2/2018 09:18

Sample ID: 18D0057-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Hexachlorobutadiene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Hexachlorocyclopentadiene	ND	0.41	0.087	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Hexachloroethane	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Indeno(1,2,3-cd)pyrene	0.18	0.21	0.15	mg/Kg dry	1	V-05, J	SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Isophorone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
1-Methylnaphthalene	ND	0.21	0.079	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
3-Nitroaniline	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
4-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Nitrobenzene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
4-Nitrophenol	ND	0.80	0.090	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
N-Nitrosodimethylamine	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
N-Nitrosodiphenylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
N-Nitrosodi-n-propylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Pentachloronitrobenzene	ND	0.41	0.098	mg/Kg dry	1	V-16	SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Pentachlorophenol	ND	0.41	0.099	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Phenanthrene	0.32	0.21	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Phenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Pyrene	0.43	0.21	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Pyridine	ND	0.41	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
1,2,4-Trichlorobenzene	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2,4,5-Trichlorophenol	ND	0.41	0.093	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
2,4,6-Trichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 12:49	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	73.2		30-130				4/5/18 12:49			
Phenol-d6	77.2		30-130				4/5/18 12:49			
Nitrobenzene-d5	67.9		30-130				4/5/18 12:49			
2-Fluorobiphenyl	63.5		30-130				4/5/18 12:49			
2,4,6-Tribromophenol	76.0		30-130				4/5/18 12:49			
p-Terphenyl-d14	82.6		30-130				4/5/18 12:49			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-01-0-2

Sampled: 4/2/2018 09:18

Sample ID: 18D0057-01

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.12	0.0065	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Aldrin [1]	ND	0.030	0.0018	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
alpha-BHC [1]	ND	0.030	0.0024	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
beta-BHC [1]	ND	0.030	0.0030	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
delta-BHC [1]	ND	0.030	0.0024	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
gamma-BHC (Lindane) [1]	ND	0.012	0.0030	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Chlordane [1]	ND	0.12	0.034	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
4,4'-DDD [2]	0.0035	0.024	0.0024	mg/Kg dry	5	J	SW-846 8081B	4/3/18	4/6/18 1:30	PJG
4,4'-DDE [1]	0.019	0.024	0.0018	mg/Kg dry	5	J	SW-846 8081B	4/3/18	4/6/18 1:30	PJG
4,4'-DDT [2]	0.061	0.024	0.0024	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Dieldrin [1]	0.017	0.024	0.0018	mg/Kg dry	5	P-01, J	SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Endosulfan I [1]	ND	0.030	0.0024	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Endosulfan II [1]	ND	0.047	0.0018	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Endosulfan sulfate [1]	ND	0.047	0.0077	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Endrin [1]	ND	0.047	0.0018	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Endrin aldehyde [1]	ND	0.047	0.0071	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 8:14	PJG
Endrin ketone [1]	ND	0.047	0.0024	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Heptachlor [1]	ND	0.030	0.0030	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Heptachlor epoxide [1]	ND	0.030	0.0024	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Hexachlorobenzene [1]	ND	0.036	0.0042	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Methoxychlor [1]	ND	0.30	0.0036	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Toxaphene [1]	ND	0.59	0.25	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:30	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	72.9		30-150				4/6/18 1:30			
Decachlorobiphenyl [2]	76.6		30-150				4/6/18 1:30			
Tetrachloro-m-xylene [1]	69.8		30-150				4/6/18 1:30			
Tetrachloro-m-xylene [2]	80.3		30-150				4/6/18 1:30			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-01-0-2

Sampled: 4/2/2018 09:18

Sample ID: 18D0057-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	0.057	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:15	JMB
Aroclor-1221 [1]	ND	0.095	0.062	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:15	JMB
Aroclor-1232 [1]	ND	0.095	0.043	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:15	JMB
Aroclor-1242 [1]	ND	0.095	0.047	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:15	JMB
Aroclor-1248 [2]	0.10	0.095	0.057	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:15	JMB
Aroclor-1254 [2]	0.27	0.095	0.062	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:15	JMB
Aroclor-1260 [2]	0.28	0.095	0.066	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:15	JMB
Aroclor-1262 [1]	ND	0.095	0.047	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:15	JMB
Aroclor-1268 [1]	ND	0.095	0.038	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:15	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	67.4		30-150						4/4/18 22:15	
Decachlorobiphenyl [2]	96.9		30-150						4/4/18 22:15	
Tetrachloro-m-xylene [1]	76.1		30-150						4/4/18 22:15	
Tetrachloro-m-xylene [2]	97.7		30-150						4/4/18 22:15	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-01-0-2

Sampled: 4/2/2018 09:18

Sample ID: 18D0057-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	8500	1.9	1.8	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Antimony	ND	1.9	1.3	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Arsenic	8.3	1.9	0.98	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Barium	180	1.9	0.95	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Beryllium	0.50	0.19	0.14	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Cadmium	3.3	0.19	0.12	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Calcium	9300	5.8	4.0	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Chromium	19	0.39	0.24	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Cobalt	9.5	1.9	1.1	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Copper	210	0.39	0.33	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Iron	31000	19	17	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 20:55	QNW
Lead	520	0.58	0.34	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Magnesium	6500	58	31	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 20:55	QNW
Manganese	500	0.39	0.12	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Mercury	0.70	0.060	0.0060	mg/Kg dry	2		SW-846 7471B	4/4/18	4/5/18 13:12	EJB
Nickel	25	0.39	0.31	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Potassium	1400	77	28	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Selenium	ND	3.9	3.2	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Silver	ND	0.39	0.23	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Sodium	97	77	29	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Thallium	ND	1.9	1.4	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Vanadium	22	0.77	0.57	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW
Zinc	380	0.77	0.53	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:37	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-01-0-2

Sampled: 4/2/2018 09:18

Sample ID: 18D0057-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.57	0.28	mg/Kg dry	1		SW-846 9014	4/11/18	4/12/18 12:00	DJM
% Solids	82.7			% Wt	1		SM 2540G	4/3/18	4/4/18 7:47	MJR

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-01-0-6

Sampled: 4/2/2018 09:18

Sample ID: 18D0057-02

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Acrylonitrile	ND	0.0069	0.0029	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Bromobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Bromodichloromethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Bromomethane	ND	0.012	0.0048	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 7:08	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	0.024	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
n-Butylbenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
sec-Butylbenzene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00069	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Carbon Disulfide	ND	0.0069	0.0049	mg/Kg dry	1	V-05	SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Carbon Tetrachloride	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Chlorodibromomethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Chloroform	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Chloromethane	ND	0.012	0.0074	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
2-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
4-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Dibromomethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
trans-1,4-Dichloro-2-butene	ND	0.0046	0.0024	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,3-Dichloropropane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
2,2-Dichloropropane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Diethyl Ether	ND	0.023	0.0021	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-01-0-6

Sampled: 4/2/2018 09:18

Sample ID: 18D0057-02

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	0.00069	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,4-Dioxane	ND	0.12	0.066	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Ethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Hexachlorobutadiene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Methyl Acetate	ND	0.0023	0.0018	mg/Kg dry	1	L-04	SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Methyl Cyclohexane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Methylene Chloride	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0087	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Naphthalene	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
n-Propylbenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Styrene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0021	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Tetrachloroethylene	0.015	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Tetrahydrofuran	ND	0.012	0.0025	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Toluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,3,5-Trichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Trichloroethylene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:08	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	104		70-130				4/4/18 7:08			
Toluene-d8	99.4		70-130				4/4/18 7:08			
4-Bromofluorobenzene	98.6		70-130				4/4/18 7:08			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-01-0-6

Sampled: 4/2/2018 09:18

Sample ID: 18D0057-02

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8			% Wt	1		SM 2540G	4/3/18	4/4/18 7:47	MJR

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-02-0-6

Sampled: 4/2/2018 09:40

Sample ID: 18D0057-03

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.026	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Acrylonitrile	ND	0.0068	0.0028	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Benzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Bromobenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Bromodichloromethane	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Bromomethane	ND	0.011	0.0047	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 7:35	MFF
2-Butanone (MEK)	ND	0.045	0.020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
tert-Butyl Alcohol (TBA)	ND	0.045	0.024	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
n-Butylbenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
sec-Butylbenzene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Carbon Disulfide	ND	0.0068	0.0049	mg/Kg dry	1	V-05	SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Carbon Tetrachloride	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Chlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Chlorodibromomethane	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Chloroform	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Chloromethane	ND	0.011	0.0072	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
2-Chlorotoluene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
4-Chlorotoluene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Dibromomethane	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	0.0024	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,1-Dichloroethane	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,1-Dichloroethylene	ND	0.0045	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,3-Dichloropropane	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
2,2-Dichloropropane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Diethyl Ether	ND	0.023	0.0020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-02-0-6

Sampled: 4/2/2018 09:40

Sample ID: 18D0057-03

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,4-Dioxane	ND	0.11	0.065	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Ethylbenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Hexachlorobutadiene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
2-Hexanone (MBK)	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Methyl Acetate	ND	0.0023	0.0018	mg/Kg dry	1	L-04	SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Methyl Cyclohexane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Methylene Chloride	ND	0.023	0.0080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0086	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Naphthalene	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
n-Propylbenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Styrene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Tetrachloroethylene	0.0083	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Tetrahydrofuran	ND	0.011	0.0025	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Toluene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,3,5-Trichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Trichloroethylene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
m+p Xylene	ND	0.0045	0.0019	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
o-Xylene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 7:35	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	104		70-130				4/4/18 7:35			
Toluene-d8	101		70-130				4/4/18 7:35			
4-Bromofluorobenzene	99.5		70-130				4/4/18 7:35			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-02-0-6

Sampled: 4/2/2018 09:40

Sample ID: 18D0057-03

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.9			% Wt	1		SM 2540G	4/3/18	4/4/18 7:47	MJR

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-02-0-2

Sampled: 4/2/2018 09:40

Sample ID: 18D0057-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Acenaphthylene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Acetophenone	ND	0.38	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Aniline	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Anthracene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Benzidine	ND	0.74	0.48	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Benzo(a)anthracene	0.11	0.19	0.051	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Benzo(a)pyrene	0.12	0.19	0.060	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Benzo(b)fluoranthene	0.17	0.19	0.054	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Benzo(g,h,i)perylene	0.087	0.19	0.085	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Benzo(k)fluoranthene	0.067	0.19	0.060	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Benzoic Acid	ND	1.1	0.20	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Bis(2-chloroethoxy)methane	ND	0.38	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Bis(2-chloroethyl)ether	ND	0.38	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	0.082	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Bis(2-Ethylhexyl)phthalate	0.15	0.38	0.15	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
4-Bromophenylphenylether	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Butylbenzylphthalate	ND	0.38	0.091	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Carbazole	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
4-Chloroaniline	ND	0.74	0.088	mg/Kg dry	1	V-34	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
4-Chloro-3-methylphenol	ND	0.74	0.082	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2-Chloronaphthalene	ND	0.38	0.072	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2-Chlorophenol	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
4-Chlorophenylphenylether	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Chrysene	0.14	0.19	0.060	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Dibenzofuran	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Di-n-butylphthalate	ND	0.38	0.084	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
1,2-Dichlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
1,3-Dichlorobenzene	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
1,4-Dichlorobenzene	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
3,3-Dichlorobenzidine	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2,4-Dichlorophenol	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Diethylphthalate	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2,4-Dimethylphenol	ND	0.38	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Dimethylphthalate	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
4,6-Dinitro-2-methylphenol	ND	0.38	0.36	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2,4-Dinitrophenol	ND	0.74	0.22	mg/Kg dry	1	R-05, V-19	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2,4-Dinitrotoluene	ND	0.38	0.062	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2,6-Dinitrotoluene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Di-n-octylphthalate	ND	0.38	0.20	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	0.062	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Fluoranthene	0.21	0.19	0.063	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Fluorene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-02-0-2

Sampled: 4/2/2018 09:40

Sample ID: 18D0057-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Hexachlorobutadiene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Hexachlorocyclopentadiene	ND	0.38	0.081	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Hexachloroethane	ND	0.38	0.077	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1	V-05	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Isophorone	ND	0.38	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
1-Methylnaphthalene	ND	0.19	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2-Methylnaphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2-Methylphenol	ND	0.38	0.096	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
3/4-Methylphenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Naphthalene	ND	0.19	0.098	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2-Nitroaniline	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
3-Nitroaniline	ND	0.38	0.055	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
4-Nitroaniline	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Nitrobenzene	ND	0.38	0.072	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2-Nitrophenol	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
4-Nitrophenol	ND	0.74	0.084	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
N-Nitrosodimethylamine	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
N-Nitrosodiphenylamine	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
N-Nitrosodi-n-propylamine	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Pentachloronitrobenzene	ND	0.38	0.091	mg/Kg dry	1	V-16	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Pentachlorophenol	ND	0.38	0.093	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Phenanthrene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Phenol	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Pyrene	0.19	0.19	0.063	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Pyridine	ND	0.38	0.062	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
1,2,4-Trichlorobenzene	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2,4,5-Trichlorophenol	ND	0.38	0.087	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
2,4,6-Trichlorophenol	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:14	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	81.2		30-130				4/5/18 13:14			
Phenol-d6	84.1		30-130				4/5/18 13:14			
Nitrobenzene-d5	78.3		30-130				4/5/18 13:14			
2-Fluorobiphenyl	71.4		30-130				4/5/18 13:14			
2,4,6-Tribromophenol	79.6		30-130				4/5/18 13:14			
p-Terphenyl-d14	89.3		30-130				4/5/18 13:14			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-02-0-2

Sampled: 4/2/2018 09:40

Sample ID: 18D0057-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.11	0.0061	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Aldrin [1]	ND	0.028	0.0017	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
alpha-BHC [1]	ND	0.028	0.0022	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
beta-BHC [1]	ND	0.028	0.0028	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
delta-BHC [1]	ND	0.028	0.0022	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
gamma-BHC (Lindane) [1]	ND	0.011	0.0028	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Chlordane [1]	ND	0.11	0.032	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
4,4'-DDD [1]	0.0046	0.022	0.0022	mg/Kg dry	5	J	SW-846 8081B	4/3/18	4/6/18 1:57	PJG
4,4'-DDE [1]	0.0086	0.022	0.0017	mg/Kg dry	5	P-01, J	SW-846 8081B	4/3/18	4/6/18 1:57	PJG
4,4'-DDT [2]	0.023	0.022	0.0022	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Dieldrin [1]	0.0066	0.022	0.0017	mg/Kg dry	5	P-01, J	SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Endosulfan I [1]	ND	0.028	0.0022	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Endosulfan II [1]	ND	0.044	0.0017	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Endosulfan sulfate [1]	ND	0.044	0.0072	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Endrin [1]	ND	0.044	0.0017	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Endrin aldehyde [1]	ND	0.044	0.0066	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 8:41	PJG
Endrin ketone [1]	ND	0.044	0.0022	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Heptachlor [1]	ND	0.028	0.0028	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Heptachlor epoxide [1]	ND	0.028	0.0022	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Hexachlorobenzene [1]	ND	0.033	0.0039	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Methoxychlor [1]	ND	0.28	0.0033	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Toxaphene [1]	ND	0.55	0.24	mg/Kg dry	5		SW-846 8081B	4/3/18	4/6/18 1:57	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	77.8		30-150				4/6/18 1:57			
Decachlorobiphenyl [2]	79.5		30-150				4/6/18 1:57			
Tetrachloro-m-xylene [1]	76.5		30-150				4/6/18 1:57			
Tetrachloro-m-xylene [2]	87.8		30-150				4/6/18 1:57			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-02-0-2

Sampled: 4/2/2018 09:40

Sample ID: 18D0057-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	0.053	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:32	JMB
Aroclor-1221 [1]	ND	0.089	0.058	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:32	JMB
Aroclor-1232 [1]	ND	0.089	0.040	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:32	JMB
Aroclor-1242 [1]	ND	0.089	0.044	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:32	JMB
Aroclor-1248 [1]	0.071	0.089	0.053	mg/Kg dry	4	P-01, J	SW-846 8082A	4/3/18	4/4/18 22:32	JMB
Aroclor-1254 [2]	0.12	0.089	0.058	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:32	JMB
Aroclor-1260 [2]	0.069	0.089	0.062	mg/Kg dry	4	J	SW-846 8082A	4/3/18	4/4/18 22:32	JMB
Aroclor-1262 [1]	ND	0.089	0.044	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:32	JMB
Aroclor-1268 [1]	ND	0.089	0.035	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:32	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	64.3		30-150						4/4/18 22:32	
Decachlorobiphenyl [2]	92.3		30-150						4/4/18 22:32	
Tetrachloro-m-xylene [1]	75.8		30-150						4/4/18 22:32	
Tetrachloro-m-xylene [2]	96.2		30-150						4/4/18 22:32	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-02-0-2

Sampled: 4/2/2018 09:40

Sample ID: 18D0057-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	14000	19	18	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:00	QNW
Antimony	4.3	1.9	1.3	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Arsenic	8.6	1.9	0.97	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Barium	130	1.9	0.95	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Beryllium	0.59	0.19	0.14	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Cadmium	1.3	0.19	0.12	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Calcium	5700	5.8	4.0	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Chromium	21	0.38	0.24	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Cobalt	9.0	1.9	1.1	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Copper	490	0.38	0.33	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Iron	38000	19	17	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:00	QNW
Lead	1700	0.58	0.34	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Magnesium	7300	58	31	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:00	QNW
Manganese	360	0.38	0.12	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Mercury	0.38	0.028	0.0028	mg/Kg dry	1		SW-846 7471B	4/4/18	4/5/18 10:41	EJB
Nickel	24	0.38	0.30	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Potassium	1500	77	28	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Selenium	ND	3.8	3.2	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Silver	ND	0.77	0.45	mg/Kg dry	2	DL-04	SW-846 6010C-D	4/3/18	4/9/18 18:45	QNW
Sodium	76	77	29	mg/Kg dry	1	J	SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Thallium	ND	1.9	1.4	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Vanadium	22	0.77	0.57	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW
Zinc	210	0.77	0.53	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:42	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-02-0-2

Sampled: 4/2/2018 09:40

Sample ID: 18D0057-04

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.47	0.23	mg/Kg dry	1		SW-846 9014	4/11/18	4/12/18 12:00	DJM
% Solids	88.6			% Wt	1		SM 2540G	4/3/18	4/4/18 7:47	MJR

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-03-0-6

Sampled: 4/2/2018 10:05

Sample ID: 18D0057-05

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.030	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Acrylonitrile	ND	0.0076	0.0032	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Benzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Bromobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Bromochloromethane	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Bromodichloromethane	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Bromoform	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Bromomethane	ND	0.013	0.0053	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 8:02	MFF
2-Butanone (MEK)	ND	0.051	0.022	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
tert-Butyl Alcohol (TBA)	ND	0.051	0.026	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
n-Butylbenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
sec-Butylbenzene	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
tert-Butylbenzene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00076	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Carbon Disulfide	ND	0.0076	0.0054	mg/Kg dry	1	V-05	SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Carbon Tetrachloride	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Chlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Chlorodibromomethane	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Chloroethane	ND	0.025	0.0019	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Chloroform	ND	0.0051	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Chloromethane	ND	0.013	0.0081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
2-Chlorotoluene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
4-Chlorotoluene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,2-Dibromoethane (EDB)	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Dibromomethane	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,2-Dichlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,3-Dichlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,4-Dichlorobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
trans-1,4-Dichloro-2-butene	ND	0.0051	0.0027	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	0.0016	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,1-Dichloroethane	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,2-Dichloroethane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,1-Dichloroethylene	ND	0.0051	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
cis-1,2-Dichloroethylene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
trans-1,2-Dichloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,2-Dichloropropane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,3-Dichloropropane	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
2,2-Dichloropropane	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,1-Dichloropropene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Diethyl Ether	ND	0.025	0.0023	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-03-0-6

Sampled: 4/2/2018 10:05

Sample ID: 18D0057-05

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	0.00076	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,4-Dioxane	ND	0.13	0.073	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Ethylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Hexachlorobutadiene	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
2-Hexanone (MBK)	ND	0.025	0.014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Isopropylbenzene (Cumene)	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Methyl Acetate	ND	0.0025	0.0020	mg/Kg dry	1	L-04	SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0051	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Methyl Cyclohexane	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Methylene Chloride	ND	0.025	0.0090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	0.0096	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Naphthalene	ND	0.0051	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
n-Propylbenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Styrene	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,1,1,2-Tetrachloroethane	ND	0.0025	0.0023	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Tetrachloroethylene	0.0075	0.0025	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Tetrahydrofuran	ND	0.013	0.0028	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Toluene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,2,3-Trichlorobenzene	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,2,4-Trichlorobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,3,5-Trichlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,1,1-Trichloroethane	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,1,2-Trichloroethane	ND	0.0025	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Trichloroethylene	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,2,3-Trichloropropane	ND	0.0025	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,2,4-Trimethylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
1,3,5-Trimethylbenzene	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
m+p Xylene	ND	0.0051	0.0022	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
o-Xylene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:02	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	103		70-130				4/4/18 8:02			
Toluene-d8	101		70-130				4/4/18 8:02			
4-Bromofluorobenzene	103		70-130				4/4/18 8:02			

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-03-0-6

Sampled: 4/2/2018 10:05

Sample ID: 18D0057-05

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.8			% Wt	1		SM 2540G	4/3/18	4/4/18 7:48	MJR

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-03-0-2

Sampled: 4/2/2018 10:05

Sample ID: 18D0057-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Acetophenone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Aniline	ND	0.40	0.11	mg/Kg dry	1	MS-09	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Benzidine	ND	0.77	0.50	mg/Kg dry	1	MS-07A, R-05, V-04, V-05	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Benzo(a)anthracene	0.11	0.20	0.053	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Benzo(a)pyrene	0.11	0.20	0.062	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Benzo(b)fluoranthene	0.14	0.20	0.056	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Benzoic Acid	ND	1.2	0.21	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Bis(2-chloroethoxy)methane	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Bis(2-chloroethyl)ether	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	0.085	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
4-Bromophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Butylbenzylphthalate	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Carbazole	ND	0.20	0.051	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
4-Chloroaniline	ND	0.77	0.091	mg/Kg dry	1	MS-09, V-34	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
4-Chloro-3-methylphenol	ND	0.77	0.085	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2-Chloronaphthalene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2-Chlorophenol	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
4-Chlorophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Chrysene	0.12	0.20	0.062	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Dibenzofuran	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Di-n-butylphthalate	ND	0.40	0.086	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
1,2-Dichlorobenzene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
1,3-Dichlorobenzene	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
1,4-Dichlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
3,3-Dichlorobenzidine	ND	0.20	0.061	mg/Kg dry	1	MS-09	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2,4-Dichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Diethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2,4-Dimethylphenol	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Dimethylphthalate	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2,4-Dinitrophenol	ND	0.77	0.23	mg/Kg dry	1	R-05, V-19	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2,4-Dinitrotoluene	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2,6-Dinitrotoluene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Fluoranthene	0.16	0.20	0.065	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:39	BGL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-03-0-2

Sampled: 4/2/2018 10:05

Sample ID: 18D0057-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Hexachlorobenzene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Hexachlorobutadiene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Hexachlorocyclopentadiene	ND	0.40	0.084	mg/Kg dry	1	MS-09	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Hexachloroethane	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1	V-05	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Isophorone	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
1-Methylnaphthalene	ND	0.20	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2-Methylphenol	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
3-Nitroaniline	ND	0.40	0.057	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
4-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Nitrobenzene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
4-Nitrophenol	ND	0.77	0.086	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
N-Nitrosodimethylamine	ND	0.40	0.25	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
N-Nitrosodiphenylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
N-Nitrosodi-n-propylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Pentachloronitrobenzene	ND	0.40	0.095	mg/Kg dry	1	V-16	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Pentachlorophenol	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Phenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Pyrene	0.15	0.20	0.065	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Pyridine	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
1,2,4-Trichlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2,4,5-Trichlorophenol	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
2,4,6-Trichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 13:39	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	80.1		30-130				4/5/18 13:39			
Phenol-d6	83.1		30-130				4/5/18 13:39			
Nitrobenzene-d5	76.8		30-130				4/5/18 13:39			
2-Fluorobiphenyl	69.9		30-130				4/5/18 13:39			
2,4,6-Tribromophenol	79.4		30-130				4/5/18 13:39			
p-Terphenyl-d14	90.1		30-130				4/5/18 13:39			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-03-0-2

Sampled: 4/2/2018 10:05

Sample ID: 18D0057-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	0.0013	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Aldrin [1]	ND	0.0058	0.00035	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
alpha-BHC [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
beta-BHC [1]	ND	0.0058	0.00058	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
delta-BHC [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
gamma-BHC (Lindane) [1]	ND	0.0023	0.00058	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Chlordane [1]	ND	0.023	0.0068	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
4,4'-DDD [2]	0.00064	0.0047	0.00047	mg/Kg dry	1	J	SW-846 8081B	4/3/18	4/6/18 2:24	PJG
4,4'-DDE [1]	0.00095	0.0047	0.00035	mg/Kg dry	1	P-01, J	SW-846 8081B	4/3/18	4/6/18 2:24	PJG
4,4'-DDT [1]	0.0028	0.0047	0.00047	mg/Kg dry	1	J	SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Dieldrin [1]	0.00084	0.0047	0.00035	mg/Kg dry	1	P-01, J	SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Endosulfan I [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Endosulfan II [1]	ND	0.0093	0.00035	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Endosulfan sulfate [1]	ND	0.0093	0.0015	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Endrin [1]	ND	0.0093	0.00035	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Endrin aldehyde [1]	ND	0.0093	0.0014	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 9:08	PJG
Endrin ketone [1]	ND	0.0093	0.00047	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Heptachlor [1]	ND	0.0058	0.00058	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Heptachlor epoxide [1]	ND	0.0058	0.00047	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Hexachlorobenzene [1]	ND	0.0070	0.00082	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Methoxychlor [1]	ND	0.058	0.00070	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Toxaphene [1]	ND	0.12	0.050	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 2:24	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	71.2		30-150				4/6/18 2:24			
Decachlorobiphenyl [2]	73.5		30-150				4/6/18 2:24			
Tetrachloro-m-xylene [1]	66.5		30-150				4/6/18 2:24			
Tetrachloro-m-xylene [2]	73.1		30-150				4/6/18 2:24			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-03-0-2

Sampled: 4/2/2018 10:05

Sample ID: 18D0057-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	0.056	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:50	JMB
Aroclor-1221 [1]	ND	0.093	0.061	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:50	JMB
Aroclor-1232 [1]	ND	0.093	0.042	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:50	JMB
Aroclor-1242 [1]	ND	0.093	0.047	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:50	JMB
Aroclor-1248 [1]	ND	0.093	0.056	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:50	JMB
Aroclor-1254 [1]	ND	0.093	0.061	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:50	JMB
Aroclor-1260 [1]	ND	0.093	0.065	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:50	JMB
Aroclor-1262 [1]	ND	0.093	0.047	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:50	JMB
Aroclor-1268 [1]	ND	0.093	0.037	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 22:50	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	78.9		30-150				4/4/18 22:50			
Decachlorobiphenyl [2]	108		30-150				4/4/18 22:50			
Tetrachloro-m-xylene [1]	92.4		30-150				4/4/18 22:50			
Tetrachloro-m-xylene [2]	112		30-150				4/4/18 22:50			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-03-0-2

Sampled: 4/2/2018 10:05

Sample ID: 18D0057-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9600	2.0	1.8	mg/Kg dry	1	MS-19	SW-846 6010C-D	4/10/18	4/10/18 16:01	QNW
Antimony	ND	2.0	1.3	mg/Kg dry	1		SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Arsenic	8.0	2.0	0.99	mg/Kg dry	1		SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Barium	110	2.0	0.97	mg/Kg dry	1	MS-19	SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Beryllium	0.58	0.20	0.15	mg/Kg dry	1		SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Cadmium	0.68	0.20	0.12	mg/Kg dry	1	R-04	SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Calcium	2900	5.9	4.0	mg/Kg dry	1	MS-19	SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Chromium	16	0.39	0.24	mg/Kg dry	1		SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Cobalt	7.9	2.0	1.1	mg/Kg dry	1		SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Copper	97	0.40	0.34	mg/Kg dry	1	R-02	SW-846 6010C-D	4/10/18	4/10/18 16:01	QNW
Iron	32000	20	17	mg/Kg dry	10	M-11, MS-19	SW-846 6010C-D	4/10/18	4/10/18 15:10	QNW
Lead	420	0.59	0.35	mg/Kg dry	1	MS-19, M-11	SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Magnesium	4400	60	32	mg/Kg dry	10	MS-19	SW-846 6010C-D	4/10/18	4/10/18 15:10	QNW
Manganese	480	0.39	0.12	mg/Kg dry	1	MS-19	SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Mercury	1.7	0.15	0.015	mg/Kg dry	5	MS-19	SW-846 7471B	4/4/18	4/5/18 13:11	EJB
Nickel	17	0.39	0.31	mg/Kg dry	1		SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Potassium	1400	80	29	mg/Kg dry	1		SW-846 6010C-D	4/10/18	4/10/18 16:01	QNW
Selenium	ND	3.9	3.3	mg/Kg dry	1	MS-07A	SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Silver	ND	0.39	0.23	mg/Kg dry	1		SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Sodium	59	79	30	mg/Kg dry	1	J	SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Thallium	ND	2.0	1.4	mg/Kg dry	1		SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Vanadium	20	0.79	0.58	mg/Kg dry	1		SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW
Zinc	130	0.79	0.54	mg/Kg dry	1	MS-11, R-02	SW-846 6010C-D	4/11/18	4/12/18 20:50	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-03-0-2

Sampled: 4/2/2018 10:05

Sample ID: 18D0057-06

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.25	0.47	0.23	mg/Kg dry	1	J	SW-846 9014	4/11/18	4/12/18 12:00	DJM
% Solids	85.6			% Wt	1		SM 2540G	4/3/18	4/4/18 7:48	MJR

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-04-0-2

Sampled: 4/2/2018 10:30

Sample ID: 18D0057-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.065	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Acenaphthylene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Acetophenone	ND	0.44	0.086	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Aniline	ND	0.44	0.12	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Anthracene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Benzidine	ND	0.85	0.55	mg/Kg dry	1	V-05, R-05, V-04	SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Benzo(a)anthracene	0.083	0.22	0.058	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Benzo(a)pyrene	0.093	0.22	0.068	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Benzo(b)fluoranthene	0.14	0.22	0.062	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Benzo(g,h,i)perylene	ND	0.22	0.096	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Benzo(k)fluoranthene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Benzoic Acid	ND	1.3	0.23	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Bis(2-chloroethoxy)methane	ND	0.44	0.083	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Bis(2-chloroethyl)ether	ND	0.44	0.086	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Bis(2-chloroisopropyl)ether	ND	0.44	0.094	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.44	0.17	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
4-Bromophenylphenylether	ND	0.44	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Butylbenzylphthalate	ND	0.44	0.10	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Carbazole	ND	0.22	0.056	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
4-Chloroaniline	ND	0.85	0.10	mg/Kg dry	1	V-34	SW-846 8270D	4/3/18	4/5/18 14:04	BGL
4-Chloro-3-methylphenol	ND	0.85	0.094	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2-Chloronaphthalene	ND	0.44	0.082	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2-Chlorophenol	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
4-Chlorophenylphenylether	ND	0.44	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Chrysene	0.11	0.22	0.068	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Dibenzofuran	ND	0.44	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Di-n-butylphthalate	ND	0.44	0.095	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
1,2-Dichlorobenzene	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
1,3-Dichlorobenzene	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
1,4-Dichlorobenzene	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
3,3-Dichlorobenzidine	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2,4-Dichlorophenol	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Diethylphthalate	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2,4-Dimethylphenol	ND	0.44	0.081	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Dimethylphthalate	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
4,6-Dinitro-2-methylphenol	ND	0.44	0.41	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2,4-Dinitrophenol	ND	0.85	0.25	mg/Kg dry	1	R-05, V-19	SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2,4-Dinitrotoluene	ND	0.44	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2,6-Dinitrotoluene	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Di-n-octylphthalate	ND	0.44	0.23	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.44	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Fluoranthene	0.16	0.22	0.072	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Fluorene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-04-0-2

Sampled: 4/2/2018 10:30

Sample ID: 18D0057-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Hexachlorobutadiene	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Hexachlorocyclopentadiene	ND	0.44	0.092	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Hexachloroethane	ND	0.44	0.087	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1	V-05	SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Isophorone	ND	0.44	0.085	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
1-Methylnaphthalene	ND	0.22	0.083	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2-Methylnaphthalene	ND	0.22	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2-Methylphenol	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
3/4-Methylphenol	ND	0.44	0.14	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2-Nitroaniline	ND	0.44	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
3-Nitroaniline	ND	0.44	0.063	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
4-Nitroaniline	ND	0.44	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Nitrobenzene	ND	0.44	0.082	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2-Nitrophenol	ND	0.44	0.12	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
4-Nitrophenol	ND	0.85	0.095	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
N-Nitrosodimethylamine	ND	0.44	0.28	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
N-Nitrosodiphenylamine	ND	0.44	0.090	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
N-Nitrosodi-n-propylamine	ND	0.44	0.090	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Pentachloronitrobenzene	ND	0.44	0.10	mg/Kg dry	1	V-16	SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Pentachlorophenol	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Phenol	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Pyrene	0.16	0.22	0.072	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Pyridine	ND	0.44	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
1,2,4-Trichlorobenzene	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2,4,5-Trichlorophenol	ND	0.44	0.099	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
2,4,6-Trichlorophenol	ND	0.44	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:04	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	64.4		30-130				4/5/18 14:04			
Phenol-d6	67.9		30-130				4/5/18 14:04			
Nitrobenzene-d5	62.6		30-130				4/5/18 14:04			
2-Fluorobiphenyl	59.1		30-130				4/5/18 14:04			
2,4,6-Tribromophenol	63.7		30-130				4/5/18 14:04			
p-Terphenyl-d14	73.5		30-130				4/5/18 14:04			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-04-0-2

Sampled: 4/2/2018 10:30

Sample ID: 18D0057-07

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.24	0.013	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Aldrin [1]	ND	0.061	0.0037	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
alpha-BHC [1]	ND	0.061	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
beta-BHC [1]	ND	0.061	0.0061	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
delta-BHC [1]	ND	0.061	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
gamma-BHC (Lindane) [1]	ND	0.024	0.0061	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Chlordane [2]	0.18	0.24	0.071	mg/Kg dry	10	J	SW-846 8081B	4/3/18	4/6/18 2:51	PJG
4,4'-DDD [1]	ND	0.049	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
4,4'-DDE [1]	0.034	0.049	0.0037	mg/Kg dry	10	P-01, J	SW-846 8081B	4/3/18	4/6/18 2:51	PJG
4,4'-DDT [2]	0.077	0.049	0.0049	mg/Kg dry	10	P-01	SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Dieldrin [1]	0.037	0.049	0.0037	mg/Kg dry	10	P-01, J	SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Endosulfan I [1]	ND	0.061	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Endosulfan II [1]	ND	0.098	0.0037	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Endosulfan sulfate [1]	ND	0.098	0.016	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Endrin [1]	ND	0.098	0.0037	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Endrin aldehyde [1]	ND	0.098	0.015	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 9:35	PJG
Endrin ketone [1]	ND	0.098	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Heptachlor [1]	ND	0.061	0.0061	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Heptachlor epoxide [1]	ND	0.061	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Hexachlorobenzene [1]	ND	0.073	0.0086	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Methoxychlor [1]	ND	0.61	0.0073	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Toxaphene [1]	ND	1.2	0.53	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 2:51	PJG
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
Decachlorobiphenyl [1]	75.6	30-150							4/6/18 2:51	
Decachlorobiphenyl [2]	77.6	30-150							4/6/18 2:51	
Tetrachloro-m-xylene [1]	74.1	30-150							4/6/18 2:51	
Tetrachloro-m-xylene [2]	89.3	30-150							4/6/18 2:51	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-04-0-2

Sampled: 4/2/2018 10:30

Sample ID: 18D0057-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	0.059	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:08	JMB
Aroclor-1221 [1]	ND	0.098	0.064	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:08	JMB
Aroclor-1232 [1]	ND	0.098	0.044	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:08	JMB
Aroclor-1242 [1]	ND	0.098	0.049	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:08	JMB
Aroclor-1248 [2]	0.48	0.098	0.059	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:08	JMB
Aroclor-1254 [2]	1.0	0.098	0.064	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:08	JMB
Aroclor-1260 [2]	0.29	0.098	0.068	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:08	JMB
Aroclor-1262 [1]	ND	0.098	0.049	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:08	JMB
Aroclor-1268 [1]	ND	0.098	0.039	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:08	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	68.9		30-150				4/4/18 23:08			
Decachlorobiphenyl [2]	99.9		30-150				4/4/18 23:08			
Tetrachloro-m-xylene [1]	83.1		30-150				4/4/18 23:08			
Tetrachloro-m-xylene [2]	105		30-150				4/4/18 23:08			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-04-0-2

Sampled: 4/2/2018 10:30

Sample ID: 18D0057-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	8200	2.0	1.9	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Antimony	4.4	2.0	1.4	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Arsenic	8.7	2.0	1.0	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Barium	250	2.0	1.0	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Beryllium	0.70	0.20	0.15	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Cadmium	5.3	0.20	0.12	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Calcium	7600	6.1	4.2	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Chromium	17	0.40	0.25	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Cobalt	9.2	2.0	1.1	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Copper	2000	0.40	0.34	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Iron	22000	20	18	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:05	QNW
Lead	780	0.61	0.36	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Magnesium	2500	61	33	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:05	QNW
Manganese	380	0.40	0.12	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Mercury	1.2	0.17	0.017	mg/Kg dry	5		SW-846 7471B	4/4/18	4/5/18 13:14	EJB
Nickel	27	0.40	0.32	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Potassium	1800	81	29	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Selenium	ND	4.0	3.4	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Silver	0.61	0.40	0.24	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Sodium	160	81	31	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Thallium	ND	2.0	1.5	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Vanadium	28	0.81	0.60	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:48	QNW
Zinc	870	8.1	5.5	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:05	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-04-0-2

Sampled: 4/2/2018 10:30

Sample ID: 18D0057-07

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.70	0.52	0.26	mg/Kg dry	1		SW-846 9014	4/11/18	4/12/18 12:00	DJM
% Solids	78.0			% Wt	1		SM 2540G	4/3/18	4/4/18 7:48	MJR

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-04-0-6

Sampled: 4/2/2018 10:30

Sample ID: 18D0057-08

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.030	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Acrylonitrile	ND	0.0077	0.0032	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Benzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Bromobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Bromodichloromethane	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Bromomethane	ND	0.013	0.0054	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 8:29	MFF
2-Butanone (MEK)	ND	0.051	0.022	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
tert-Butyl Alcohol (TBA)	ND	0.051	0.027	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
n-Butylbenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
sec-Butylbenzene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
tert-Butylbenzene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00077	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Carbon Disulfide	ND	0.0077	0.0055	mg/Kg dry	1	V-05	SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Chlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Chlorodibromomethane	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Chloroethane	ND	0.026	0.0019	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Chloroform	ND	0.0051	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Chloromethane	ND	0.013	0.0082	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
2-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
4-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Dibromomethane	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
trans-1,4-Dichloro-2-butene	ND	0.0051	0.0027	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,1-Dichloroethane	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,1-Dichloroethylene	ND	0.0051	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
cis-1,2-Dichloroethylene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,3-Dichloropropane	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
2,2-Dichloropropane	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,1-Dichloropropene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Diethyl Ether	ND	0.026	0.0023	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-04-0-6

Sampled: 4/2/2018 10:30

Sample ID: 18D0057-08

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	0.00077	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,4-Dioxane	ND	0.13	0.074	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Ethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Hexachlorobutadiene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Methyl Acetate	ND	0.0026	0.0021	mg/Kg dry	1	L-04	SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0051	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Methyl Cyclohexane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Methylene Chloride	ND	0.026	0.0091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.0097	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Naphthalene	ND	0.0051	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
n-Propylbenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Styrene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	0.0023	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Tetrachloroethylene	0.0022	0.0026	0.0017	mg/Kg dry	1	J	SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Tetrahydrofuran	ND	0.013	0.0028	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,2,4-Trichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,3,5-Trichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Trichloroethylene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,2,3-Trichloropropane	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,2,4-Trimethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
1,3,5-Trimethylbenzene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
m+p Xylene	ND	0.0051	0.0022	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
o-Xylene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:29	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	104		70-130				4/4/18 8:29			
Toluene-d8	100		70-130				4/4/18 8:29			
4-Bromofluorobenzene	101		70-130				4/4/18 8:29			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-04-0-6

Sampled: 4/2/2018 10:30

Sample ID: 18D0057-08

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.4			% Wt	1		SM 2540G	4/3/18	4/4/18 7:48	MJR

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-05-0-2

Sampled: 4/2/2018 10:57

Sample ID: 18D0057-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Acenaphthylene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Acetophenone	ND	0.42	0.084	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Aniline	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Benzidine	ND	0.82	0.53	mg/Kg dry	1	V-04, V-05, R-05	SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Benzo(a)anthracene	0.37	0.21	0.056	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Benzo(a)pyrene	0.37	0.21	0.066	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Benzo(b)fluoranthene	0.59	0.21	0.060	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Benzo(g,h,i)perylene	0.27	0.21	0.094	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Benzo(k)fluoranthene	0.23	0.21	0.066	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Benzoic Acid	ND	1.2	0.23	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Bis(2-chloroethoxy)methane	ND	0.42	0.081	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Bis(2-chloroethyl)ether	ND	0.42	0.084	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Bis(2-chloroisopropyl)ether	ND	0.42	0.091	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Bis(2-Ethylhexyl)phthalate	0.73	0.42	0.16	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
4-Bromophenylphenylether	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Butylbenzylphthalate	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Carbazole	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
4-Chloroaniline	ND	0.82	0.097	mg/Kg dry	1	V-34	SW-846 8270D	4/3/18	4/5/18 14:29	BGL
4-Chloro-3-methylphenol	ND	0.82	0.091	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2-Chloronaphthalene	ND	0.42	0.080	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2-Chlorophenol	ND	0.42	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
4-Chlorophenylphenylether	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Chrysene	0.46	0.21	0.066	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Dibenzofuran	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Di-n-butylphthalate	ND	0.42	0.092	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
1,2-Dichlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
1,3-Dichlorobenzene	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
1,4-Dichlorobenzene	ND	0.42	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
3,3-Dichlorobenzidine	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2,4-Dichlorophenol	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Diethylphthalate	ND	0.42	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2,4-Dimethylphenol	ND	0.42	0.079	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Dimethylphthalate	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
4,6-Dinitro-2-methylphenol	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2,4-Dinitrophenol	ND	0.82	0.24	mg/Kg dry	1	R-05, V-19	SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2,4-Dinitrotoluene	ND	0.42	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2,6-Dinitrotoluene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Di-n-octylphthalate	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Fluoranthene	0.73	0.21	0.070	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-05-0-2

Sampled: 4/2/2018 10:57

Sample ID: 18D0057-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Hexachlorobutadiene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Hexachlorocyclopentadiene	ND	0.42	0.090	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Hexachloroethane	ND	0.42	0.085	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Indeno(1,2,3-cd)pyrene	0.30	0.21	0.15	mg/Kg dry	1	V-05	SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Isophorone	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
1-Methylnaphthalene	ND	0.21	0.081	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2-Methylphenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
3/4-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2-Nitroaniline	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
3-Nitroaniline	ND	0.42	0.061	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
4-Nitroaniline	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Nitrobenzene	ND	0.42	0.080	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2-Nitrophenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
4-Nitrophenol	ND	0.82	0.092	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
N-Nitrosodimethylamine	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
N-Nitrosodiphenylamine	ND	0.42	0.087	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
N-Nitrosodi-n-propylamine	ND	0.42	0.087	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Pentachloronitrobenzene	ND	0.42	0.10	mg/Kg dry	1	V-16	SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Pentachlorophenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Phenanthrene	0.23	0.21	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Phenol	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Pyrene	0.70	0.21	0.070	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Pyridine	ND	0.42	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
1,2,4-Trichlorobenzene	ND	0.42	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2,4,5-Trichlorophenol	ND	0.42	0.096	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
2,4,6-Trichlorophenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:29	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	73.2		30-130				4/5/18 14:29			
Phenol-d6	73.8		30-130				4/5/18 14:29			
Nitrobenzene-d5	71.8		30-130				4/5/18 14:29			
2-Fluorobiphenyl	63.1		30-130				4/5/18 14:29			
2,4,6-Tribromophenol	65.3		30-130				4/5/18 14:29			
p-Terphenyl-d14	79.6		30-130				4/5/18 14:29			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-05-0-2

Sampled: 4/2/2018 10:57

Sample ID: 18D0057-09

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.24	0.013	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Aldrin [1]	ND	0.061	0.0037	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
alpha-BHC [1]	ND	0.061	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
beta-BHC [1]	ND	0.061	0.0061	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
delta-BHC [1]	ND	0.061	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
gamma-BHC (Lindane) [1]	ND	0.024	0.0061	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Chlordane [1]	ND	0.24	0.071	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
4,4'-DDD [2]	0.086	0.049	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
4,4'-DDE [2]	0.63	0.049	0.0037	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
4,4'-DDT [1]	1.2	0.049	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Dieldrin [1]	0.022	0.049	0.0037	mg/Kg dry	10	P-01, J	SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Endosulfan I [1]	ND	0.061	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Endosulfan II [1]	ND	0.098	0.0037	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Endosulfan sulfate [1]	ND	0.098	0.016	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Endrin [1]	ND	0.098	0.0037	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Endrin aldehyde [1]	ND	0.098	0.015	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 10:02	PJG
Endrin ketone [1]	ND	0.098	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Heptachlor [1]	ND	0.061	0.0061	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Heptachlor epoxide [1]	ND	0.061	0.0049	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Hexachlorobenzene [1]	ND	0.073	0.0086	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Methoxychlor [1]	ND	0.61	0.0073	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Toxaphene [1]	ND	1.2	0.53	mg/Kg dry	10		SW-846 8081B	4/3/18	4/6/18 3:18	PJG
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
Decachlorobiphenyl [1]	78.6	30-150							4/6/18 3:18	
Decachlorobiphenyl [2]	82.1	30-150							4/6/18 3:18	
Tetrachloro-m-xylene [1]	74.4	30-150							4/6/18 3:18	
Tetrachloro-m-xylene [2]	88.4	30-150							4/6/18 3:18	

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-05-0-2

Sampled: 4/2/2018 10:57

Sample ID: 18D0057-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	0.059	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:25	JMB
Aroclor-1221 [1]	ND	0.098	0.064	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:25	JMB
Aroclor-1232 [1]	ND	0.098	0.044	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:25	JMB
Aroclor-1242 [1]	ND	0.098	0.049	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:25	JMB
Aroclor-1248 [2]	0.085	0.098	0.059	mg/Kg dry	4	J	SW-846 8082A	4/3/18	4/4/18 23:25	JMB
Aroclor-1254 [2]	0.42	0.098	0.064	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:25	JMB
Aroclor-1260 [2]	0.19	0.098	0.069	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:25	JMB
Aroclor-1262 [1]	ND	0.098	0.049	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:25	JMB
Aroclor-1268 [1]	ND	0.098	0.039	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:25	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	68.1		30-150						4/4/18 23:25	
Decachlorobiphenyl [2]	104		30-150						4/4/18 23:25	
Tetrachloro-m-xylene [1]	84.2		30-150						4/4/18 23:25	
Tetrachloro-m-xylene [2]	107		30-150						4/4/18 23:25	

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-05-0-2

Sampled: 4/2/2018 10:57

Sample ID: 18D0057-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9200	2.1	1.9	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Antimony	ND	2.1	1.4	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Arsenic	7.5	2.1	1.1	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Barium	180	2.1	1.0	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Beryllium	0.57	0.21	0.15	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Cadmium	2.0	0.21	0.13	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Calcium	15000	63	43	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:10	QNW
Chromium	29	0.42	0.26	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Cobalt	9.8	2.1	1.2	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Copper	160	0.42	0.36	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Iron	37000	21	18	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:10	QNW
Lead	360	0.63	0.37	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Magnesium	6200	63	34	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:10	QNW
Manganese	610	0.42	0.13	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Mercury	0.87	0.062	0.0062	mg/Kg dry	2		SW-846 7471B	4/4/18	4/5/18 13:16	EJB
Nickel	26	0.42	0.33	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Potassium	1600	83	30	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Selenium	ND	4.2	3.5	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Silver	ND	0.83	0.49	mg/Kg dry	2	DL-04	SW-846 6010C-D	4/3/18	4/9/18 18:49	QNW
Sodium	140	83	32	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Thallium	ND	2.1	1.5	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Vanadium	25	0.83	0.62	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:52	QNW
Zinc	790	8.3	5.7	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:10	QNW

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-05-0-2

Sampled: 4/2/2018 10:57

Sample ID: 18D0057-09

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.59	0.29	mg/Kg dry	1		SW-846 9014	4/11/18	4/12/18 12:00	DJM
% Solids	80.1			% Wt	1		SM 2540G	4/3/18	4/4/18 7:48	MJR

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-05-0-6

Sampled: 4/2/2018 10:57

Sample ID: 18D0057-10

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.027	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Acrylonitrile	ND	0.0068	0.0029	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Benzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Bromobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Bromodichloromethane	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Bromomethane	ND	0.011	0.0048	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 8:57	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	0.024	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
n-Butylbenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
sec-Butylbenzene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Carbon Disulfide	ND	0.0068	0.0049	mg/Kg dry	1	V-05	SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Carbon Tetrachloride	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Chlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Chlorodibromomethane	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Chloroform	ND	0.0046	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Chloromethane	ND	0.011	0.0073	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
2-Chlorotoluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
4-Chlorotoluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Dibromomethane	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
trans-1,4-Dichloro-2-butene	ND	0.0046	0.0024	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,1-Dichloroethane	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,3-Dichloropropane	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
2,2-Dichloropropane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Diethyl Ether	ND	0.023	0.0021	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-05-0-6

Sampled: 4/2/2018 10:57

Sample ID: 18D0057-10

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,4-Dioxane	ND	0.11	0.066	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Ethylbenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Hexachlorobutadiene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
2-Hexanone (MBK)	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Methyl Acetate	ND	0.0023	0.0018	mg/Kg dry	1	L-04	SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Methyl Cyclohexane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Methylene Chloride	ND	0.023	0.0081	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0087	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Naphthalene	ND	0.0046	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
n-Propylbenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Styrene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0021	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Tetrahydrofuran	ND	0.011	0.0025	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Toluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,3,5-Trichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Trichloroethylene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Vinyl Chloride	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
m+p Xylene	ND	0.0046	0.0019	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
o-Xylene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 8:57	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	105		70-130				4/4/18 8:57			
Toluene-d8	99.9		70-130				4/4/18 8:57			
4-Bromofluorobenzene	101		70-130				4/4/18 8:57			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SS-05-0-6

Sampled: 4/2/2018 10:57

Sample ID: 18D0057-10

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3			% Wt	1		SM 2540G	4/3/18	4/4/18 7:49	MJR

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SL-FloorDrain01

Sampled: 4/2/2018 11:47

Sample ID: 18D0057-11

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.24	0.17	0.041	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Acrylonitrile	ND	0.010	0.0043	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0017	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Benzene	ND	0.0035	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Bromobenzene	ND	0.0035	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Bromochloromethane	ND	0.0035	0.0024	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Bromodichloromethane	ND	0.0035	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Bromoform	ND	0.0035	0.0024	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Bromomethane	ND	0.017	0.0073	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 9:24	MFF
2-Butanone (MEK)	ND	0.070	0.030	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
tert-Butyl Alcohol (TBA)	ND	0.070	0.036	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
n-Butylbenzene	ND	0.0035	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
sec-Butylbenzene	ND	0.0035	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
tert-Butylbenzene	ND	0.0035	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0017	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Carbon Disulfide	ND	0.010	0.0075	mg/Kg dry	1	V-05	SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Carbon Tetrachloride	ND	0.0035	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Chlorobenzene	ND	0.0035	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Chlorodibromomethane	ND	0.0035	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Chloroethane	ND	0.035	0.0026	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Chloroform	ND	0.0070	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Chloromethane	ND	0.017	0.011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
2-Chlorotoluene	ND	0.0035	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
4-Chlorotoluene	ND	0.0035	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0035	0.0019	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,2-Dibromoethane (EDB)	ND	0.0035	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Dibromomethane	ND	0.0035	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,2-Dichlorobenzene	ND	0.0035	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,3-Dichlorobenzene	ND	0.0035	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,4-Dichlorobenzene	ND	0.0035	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
trans-1,4-Dichloro-2-butene	ND	0.0070	0.0037	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.035	0.0023	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,1-Dichloroethane	ND	0.0035	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,2-Dichloroethane	ND	0.0035	0.0023	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,1-Dichloroethylene	ND	0.0070	0.0019	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
cis-1,2-Dichloroethylene	ND	0.0035	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
trans-1,2-Dichloroethylene	ND	0.0035	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,2-Dichloropropane	ND	0.0035	0.0023	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,3-Dichloropropane	ND	0.0017	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
2,2-Dichloropropane	ND	0.0035	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,1-Dichloropropene	ND	0.0035	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
cis-1,3-Dichloropropene	ND	0.0017	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
trans-1,3-Dichloropropene	ND	0.0017	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Diethyl Ether	ND	0.035	0.0031	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SL-FloorDrain01

Sampled: 4/2/2018 11:47

Sample ID: 18D0057-11

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0017	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,4-Dioxane	ND	0.17	0.10	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Ethylbenzene	ND	0.0035	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Hexachlorobutadiene	ND	0.0035	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
2-Hexanone (MBK)	ND	0.035	0.019	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Isopropylbenzene (Cumene)	ND	0.0035	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0035	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Methyl Acetate	ND	0.0035	0.0028	mg/Kg dry	1	L-04	SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0070	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Methyl Cyclohexane	ND	0.0035	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Methylene Chloride	ND	0.035	0.012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.035	0.013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Naphthalene	ND	0.0070	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
n-Propylbenzene	ND	0.0035	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Styrene	ND	0.0035	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,1,1,2-Tetrachloroethane	ND	0.0035	0.0031	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.0017	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Tetrachloroethylene	ND	0.0035	0.0023	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Tetrahydrofuran	ND	0.017	0.0038	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Toluene	ND	0.0035	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,2,3-Trichlorobenzene	ND	0.0035	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,2,4-Trichlorobenzene	ND	0.0035	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,3,5-Trichlorobenzene	ND	0.0035	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,1,1-Trichloroethane	ND	0.0035	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,1,2-Trichloroethane	ND	0.0035	0.0021	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Trichloroethylene	ND	0.0035	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Trichlorofluoromethane (Freon 11)	ND	0.017	0.0019	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,2,3-Trichloropropane	ND	0.0035	0.0019	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.017	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,2,4-Trimethylbenzene	ND	0.0035	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
1,3,5-Trimethylbenzene	ND	0.0035	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Vinyl Chloride	ND	0.017	0.0019	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:24	MFF
m+p Xylene	0.0055	0.0070	0.0030	mg/Kg dry	1	J	SW-846 8260C	4/4/18	4/4/18 9:24	MFF
o-Xylene	0.0032	0.0035	0.0012	mg/Kg dry	1	J	SW-846 8260C	4/4/18	4/4/18 9:24	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	98.6		70-130				4/4/18 9:24			
Toluene-d8	99.2		70-130				4/4/18 9:24			
4-Bromofluorobenzene	98.9		70-130				4/4/18 9:24			

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SL-FloorDrain01

Sampled: 4/2/2018 11:47

Sample ID: 18D0057-11

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	60.1			% Wt	1		SM 2540G	4/3/18	4/4/18 7:50	MJR

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SL-FloorDrain02

Sampled: 4/2/2018 11:55

Sample ID: 18D0057-12

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.20	0.20	0.048	mg/Kg dry	1	J	SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Acrylonitrile	ND	0.012	0.0051	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Benzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Bromobenzene	ND	0.0041	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Bromochloromethane	ND	0.0041	0.0028	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Bromodichloromethane	ND	0.0041	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Bromoform	ND	0.0041	0.0028	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Bromomethane	ND	0.020	0.0085	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 9:51	MFF
2-Butanone (MEK)	ND	0.081	0.036	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
tert-Butyl Alcohol (TBA)	ND	0.081	0.043	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
n-Butylbenzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
sec-Butylbenzene	ND	0.0041	0.0020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
tert-Butylbenzene	ND	0.0041	0.0018	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Carbon Disulfide	ND	0.012	0.0087	mg/Kg dry	1	V-05	SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Carbon Tetrachloride	ND	0.0041	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Chlorobenzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Chlorodibromomethane	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Chloroethane	ND	0.041	0.0031	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Chloroform	ND	0.0081	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Chloromethane	ND	0.020	0.013	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
2-Chlorotoluene	ND	0.0041	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
4-Chlorotoluene	ND	0.0041	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0041	0.0022	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0041	0.0020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Dibromomethane	ND	0.0041	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,2-Dichlorobenzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,3-Dichlorobenzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,4-Dichlorobenzene	ND	0.0041	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
trans-1,4-Dichloro-2-butene	ND	0.0081	0.0043	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.041	0.0026	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,1-Dichloroethane	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,2-Dichloroethane	ND	0.0041	0.0026	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,1-Dichloroethylene	ND	0.0081	0.0022	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
cis-1,2-Dichloroethylene	ND	0.0041	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
trans-1,2-Dichloroethylene	ND	0.0041	0.0018	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,2-Dichloropropane	ND	0.0041	0.0026	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,3-Dichloropropane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
2,2-Dichloropropane	ND	0.0041	0.0018	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,1-Dichloropropene	ND	0.0041	0.0018	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
cis-1,3-Dichloropropene	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
trans-1,3-Dichloropropene	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Diethyl Ether	ND	0.041	0.0037	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SL-FloorDrain02

Sampled: 4/2/2018 11:55

Sample ID: 18D0057-12

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,4-Dioxane	ND	0.20	0.12	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Ethylbenzene	0.0018	0.0041	0.0016	mg/Kg dry	1	J	SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Hexachlorobutadiene	ND	0.0041	0.0020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
2-Hexanone (MBK)	ND	0.041	0.022	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Isopropylbenzene (Cumene)	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0041	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Methyl Acetate	ND	0.0041	0.0033	mg/Kg dry	1	L-04	SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0081	0.0018	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Methyl Cyclohexane	ND	0.0041	0.0020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Methylene Chloride	ND	0.041	0.014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.041	0.015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Naphthalene	ND	0.0081	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
n-Propylbenzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Styrene	ND	0.0041	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,1,1,2-Tetrachloroethane	ND	0.0041	0.0037	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0018	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Tetrachloroethylene	0.0031	0.0041	0.0026	mg/Kg dry	1	J	SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Tetrahydrofuran	ND	0.020	0.0045	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Toluene	ND	0.0041	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,2,3-Trichlorobenzene	ND	0.0041	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,2,4-Trichlorobenzene	ND	0.0041	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,3,5-Trichlorobenzene	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,1,1-Trichloroethane	ND	0.0041	0.0020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,1,2-Trichloroethane	ND	0.0041	0.0024	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Trichloroethylene	ND	0.0041	0.0020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.020	0.0022	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,2,3-Trichloropropane	ND	0.0041	0.0022	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.020	0.0018	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,2,4-Trimethylbenzene	ND	0.0041	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
1,3,5-Trimethylbenzene	ND	0.0041	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Vinyl Chloride	ND	0.020	0.0022	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 9:51	MFF
m+p Xylene	0.0080	0.0081	0.0035	mg/Kg dry	1	J	SW-846 8260C	4/4/18	4/4/18 9:51	MFF
o-Xylene	0.0039	0.0041	0.0014	mg/Kg dry	1	J	SW-846 8260C	4/4/18	4/4/18 9:51	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	102		70-130				4/4/18 9:51			
Toluene-d8	98.3		70-130				4/4/18 9:51			
4-Bromofluorobenzene	98.5		70-130				4/4/18 9:51			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-SL-FloorDrain02

Sampled: 4/2/2018 11:55

Sample ID: 18D0057-12

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	47.4			% Wt	1		SM 2540G	4/4/18	4/5/18 11:23	JBL

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-RB-040218

Sampled: 4/2/2018 11:50

Sample ID: 18D0057-13

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	10	50	9.7	µg/L	1	J	SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1	V-05	SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1	V-05	SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1	R-05	SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	V-34	SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-RB-040218

Sampled: 4/2/2018 11:50

Sample ID: 18D0057-13

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Methyl Acetate	ND	2.0	0.42	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
m+p Xylene	0.33	2.0	0.26	µg/L	1	J	SW-846 8260C	4/5/18	4/5/18 13:09	MFF
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:09	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	106		70-130				4/5/18 13:09			
Toluene-d8	93.8		70-130				4/5/18 13:09			
4-Bromofluorobenzene	92.7		70-130				4/5/18 13:09			

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-RB-040218

Sampled: 4/2/2018 11:50

Sample ID: 18D0057-13

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.2	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Acenaphthylene	ND	5.2	1.4	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Acetophenone	ND	10	1.8	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Aniline	ND	5.2	2.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Anthracene	ND	5.2	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Benzidine	ND	21	10	µg/L	1	V-04, V-05, R-05	SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Benzo(a)anthracene	ND	5.2	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Benzo(a)pyrene	ND	5.2	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Benzo(b)fluoranthene	ND	5.2	1.2	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Benzo(g,h,i)perylene	ND	5.2	2.3	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Benzo(k)fluoranthene	ND	5.2	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Benzoic Acid	ND	10	2.1	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Bis(2-chloroethoxy)methane	ND	10	1.8	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Bis(2-chloroethyl)ether	ND	10	1.8	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Bis(2-chloroisopropyl)ether	ND	10	2.3	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	2.1	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
4-Bromophenylphenylether	ND	10	1.4	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Butylbenzylphthalate	ND	10	2.0	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Carbazole	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
4-Chloroaniline	ND	10	1.6	µg/L	1	V-34	SW-846 8270D	4/3/18	4/5/18 9:18	BGL
4-Chloro-3-methylphenol	ND	10	1.4	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2-Chloronaphthalene	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2-Chlorophenol	ND	10	1.3	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
4-Chlorophenylphenylether	ND	10	1.5	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Chrysene	ND	5.2	1.5	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Dibenz(a,h)anthracene	ND	5.2	2.1	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Dibenzofuran	ND	5.2	1.4	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Di-n-butylphthalate	ND	10	1.9	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
1,2-Dichlorobenzene	ND	5.2	1.4	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
1,3-Dichlorobenzene	ND	5.2	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
1,4-Dichlorobenzene	ND	5.2	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
3,3-Dichlorobenzidine	ND	10	2.4	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2,4-Dichlorophenol	ND	10	1.5	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Diethylphthalate	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2,4-Dimethylphenol	ND	10	3.8	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Dimethylphthalate	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
4,6-Dinitro-2-methylphenol	ND	10	2.1	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2,4-Dinitrophenol	ND	10	3.5	µg/L	1	V-19	SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2,4-Dinitrotoluene	ND	10	1.9	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2,6-Dinitrotoluene	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Di-n-octylphthalate	ND	10	2.2	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.7	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Fluoranthene	ND	5.2	1.9	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Fluorene	ND	5.2	1.5	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-RB-040218

Sampled: 4/2/2018 11:50

Sample ID: 18D0057-13

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Hexachlorobutadiene	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Hexachlorocyclopentadiene	ND	10	2.0	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Hexachloroethane	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Indeno(1,2,3-cd)pyrene	ND	5.2	2.2	µg/L	1	V-05	SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Isophorone	ND	10	2.0	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
1-Methylnaphthalene	ND	5.2	1.9	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2-Methylnaphthalene	ND	5.2	1.7	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2-Methylphenol	ND	10	1.4	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
3/4-Methylphenol	ND	10	1.2	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Naphthalene	ND	5.2	1.7	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2-Nitroaniline	ND	10	2.2	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
3-Nitroaniline	ND	10	2.1	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
4-Nitroaniline	ND	10	2.0	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Nitrobenzene	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2-Nitrophenol	ND	10	1.7	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
4-Nitrophenol	ND	10	1.1	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
N-Nitrosodimethylamine	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
N-Nitrosodi-n-propylamine	ND	10	1.8	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Pentachloronitrobenzene	ND	10	1.7	µg/L	1	V-16	SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Pentachlorophenol	ND	10	1.1	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Phenanthrene	ND	5.2	1.4	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Phenol	ND	10	1.1	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Pyrene	ND	5.2	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Pyridine	ND	5.2	2.2	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	1.7	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
1,2,4-Trichlorobenzene	ND	5.2	1.7	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2,4,5-Trichlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
2,4,6-Trichlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	4/3/18	4/5/18 9:18	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	48.2		15-110				4/5/18 9:18			
Phenol-d6	32.5		15-110				4/5/18 9:18			
Nitrobenzene-d5	73.5		30-130				4/5/18 9:18			
2-Fluorobiphenyl	63.9		30-130				4/5/18 9:18			
2,4,6-Tribromophenol	71.9		15-110				4/5/18 9:18			
p-Terphenyl-d14	88.0		30-130				4/5/18 9:18			

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-RB-040218

Sampled: 4/2/2018 11:50

Sample ID: 18D0057-13

Sample Matrix: Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [2]	ND	0.20	0.025	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Aldrin [2]	ND	0.050	0.0024	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
alpha-BHC [2]	ND	0.050	0.0032	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
beta-BHC [2]	ND	0.050	0.024	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
delta-BHC [2]	ND	0.050	0.030	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
gamma-BHC (Lindane) [2]	ND	0.030	0.0025	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Chlordane [2]	ND	0.20	0.11	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
4,4'-DDD [2]	ND	0.040	0.0018	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
4,4'-DDE [2]	ND	0.040	0.0016	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
4,4'-DDT [2]	ND	0.040	0.0024	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Dieldrin [2]	ND	0.0020	0.0020	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Endosulfan I [2]	ND	0.050	0.0021	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Endosulfan II [2]	ND	0.080	0.0029	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Endosulfan sulfate [2]	ND	0.080	0.0025	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Endrin [2]	ND	0.080	0.0015	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Endrin aldehyde [2]	ND	0.080	0.063	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Endrin ketone [2]	ND	0.080	0.0018	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Heptachlor [2]	ND	0.050	0.0046	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Heptachlor epoxide [2]	ND	0.050	0.0018	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Hexachlorobenzene [2]	ND	0.050	0.0041	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Methoxychlor [2]	ND	0.50	0.0032	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Toxaphene [2]	ND	1.0	0.20	µg/L	1		SW-846 8081B	4/3/18	4/6/18 20:35	JMB
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
Decachlorobiphenyl [1]	54.1	30-150								
Decachlorobiphenyl [2]	62.8	30-150								
Tetrachloro-m-xylene [1]	70.6	30-150								
Tetrachloro-m-xylene [2]	75.0	30-150								

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-RB-040218

Sampled: 4/2/2018 11:50

Sample ID: 18D0057-13

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.11	µg/L	1		SW-846 8082A	4/3/18	4/4/18 18:22	JMB
Aroclor-1221 [1]	ND	0.20	0.12	µg/L	1		SW-846 8082A	4/3/18	4/4/18 18:22	JMB
Aroclor-1232 [1]	ND	0.20	0.076	µg/L	1		SW-846 8082A	4/3/18	4/4/18 18:22	JMB
Aroclor-1242 [1]	ND	0.20	0.11	µg/L	1		SW-846 8082A	4/3/18	4/4/18 18:22	JMB
Aroclor-1248 [1]	ND	0.20	0.13	µg/L	1		SW-846 8082A	4/3/18	4/4/18 18:22	JMB
Aroclor-1254 [1]	ND	0.20	0.14	µg/L	1		SW-846 8082A	4/3/18	4/4/18 18:22	JMB
Aroclor-1260 [1]	ND	0.20	0.15	µg/L	1		SW-846 8082A	4/3/18	4/4/18 18:22	JMB
Aroclor-1262 [1]	ND	0.20	0.12	µg/L	1		SW-846 8082A	4/3/18	4/4/18 18:22	JMB
Aroclor-1268 [1]	ND	0.20	0.080	µg/L	1		SW-846 8082A	4/3/18	4/4/18 18:22	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	57.3		30-150							
Decachlorobiphenyl [2]	59.9		30-150							
Tetrachloro-m-xylene [1]	79.5		30-150							
Tetrachloro-m-xylene [2]	83.1		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-RB-040218

Sampled: 4/2/2018 11:50

Sample ID: 18D0057-13

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.040	0.050	0.037	mg/L	1	J	SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Antimony	ND	0.050	0.031	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Arsenic	ND	0.010	0.0080	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Barium	ND	0.050	0.0053	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Beryllium	ND	0.0040	0.0017	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Cadmium	ND	0.0040	0.00090	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Calcium	0.36	0.15	0.11	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Chromium	ND	0.010	0.0061	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Cobalt	ND	0.050	0.0080	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Copper	ND	0.010	0.0028	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Iron	ND	0.050	0.040	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Magnesium	ND	0.15	0.026	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Manganese	ND	0.010	0.0020	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	4/5/18	4/6/18 9:49	EJB
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Potassium	ND	2.0	0.32	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Selenium	ND	0.050		mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Silver	ND	0.0050	0.0049	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Sodium	0.77	2.0	0.28	mg/L	1	J	SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Thallium	ND	0.050	0.040	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Vanadium	ND	0.010	0.0047	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW
Zinc	ND	0.020	0.0052	mg/L	1		SW-846 6010C-D	4/6/18	4/6/18 19:30	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-RB-040218

Sampled: 4/2/2018 11:50

Sample ID: 18D0057-13

Sample Matrix: Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0080	mg/L	1		SW-846 9014	4/9/18	4/10/18 17:30	DJM

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-DUP-040218

Sampled: 4/2/2018 00:00

Sample ID: 18D0057-14

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.026	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Acrylonitrile	ND	0.0068	0.0028	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Benzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Bromobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Bromodichloromethane	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Bromomethane	ND	0.011	0.0048	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 11:48	MFF
2-Butanone (MEK)	ND	0.045	0.020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
tert-Butyl Alcohol (TBA)	ND	0.045	0.024	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
n-Butylbenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
sec-Butylbenzene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Carbon Disulfide	ND	0.0068	0.0049	mg/Kg dry	1	V-05	SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Carbon Tetrachloride	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Chlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Chlorodibromomethane	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Chloroform	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Chloromethane	ND	0.011	0.0072	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
2-Chlorotoluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
4-Chlorotoluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Dibromomethane	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	0.0024	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1	V-34	SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,1-Dichloroethane	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,1-Dichloroethylene	ND	0.0045	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,3-Dichloropropane	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
2,2-Dichloropropane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Diethyl Ether	ND	0.023	0.0020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-DUP-040218

Sampled: 4/2/2018 00:00

Sample ID: 18D0057-14

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,4-Dioxane	ND	0.11	0.065	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Ethylbenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Hexachlorobutadiene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
2-Hexanone (MBK)	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Methyl Acetate	ND	0.0023	0.0018	mg/Kg dry	1	L-04	SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Methyl Cyclohexane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Methylene Chloride	ND	0.023	0.0080	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0086	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Naphthalene	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
n-Propylbenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Styrene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0020	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Tetrachloroethylene	0.0078	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Tetrahydrofuran	ND	0.011	0.0025	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Toluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,3,5-Trichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Trichloroethylene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
m+p Xylene	ND	0.0045	0.0019	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
o-Xylene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260C	4/4/18	4/4/18 11:48	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	103		70-130				4/4/18 11:48			
Toluene-d8	100		70-130				4/4/18 11:48			
4-Bromofluorobenzene	101		70-130				4/4/18 11:48			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-DUP-040218

Sampled: 4/2/2018 00:00

Sample ID: 18D0057-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Acenaphthylene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Acetophenone	ND	0.38	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Aniline	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Anthracene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Benzidine	ND	0.74	0.48	mg/Kg dry	1	V-04, V-05, R-05	SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Benzo(a)anthracene	0.069	0.19	0.051	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Benzo(a)pyrene	0.073	0.19	0.060	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Benzo(b)fluoranthene	0.11	0.19	0.054	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Benzo(g,h,i)perylene	ND	0.19	0.085	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Benzo(k)fluoranthene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Benzoic Acid	ND	1.1	0.20	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Bis(2-chloroethoxy)methane	ND	0.38	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Bis(2-chloroethyl)ether	ND	0.38	0.076	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	0.082	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
4-Bromophenylphenylether	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Butylbenzylphthalate	ND	0.38	0.091	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Carbazole	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
4-Chloroaniline	ND	0.74	0.088	mg/Kg dry	1	V-34	SW-846 8270D	4/3/18	4/5/18 14:55	BGL
4-Chloro-3-methylphenol	ND	0.74	0.082	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2-Chloronaphthalene	ND	0.38	0.072	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2-Chlorophenol	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
4-Chlorophenylphenylether	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Chrysene	0.083	0.19	0.060	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Dibenzofuran	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Di-n-butylphthalate	ND	0.38	0.083	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
1,2-Dichlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
1,3-Dichlorobenzene	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
1,4-Dichlorobenzene	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
3,3-Dichlorobenzidine	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2,4-Dichlorophenol	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Diethylphthalate	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2,4-Dimethylphenol	ND	0.38	0.071	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Dimethylphthalate	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
4,6-Dinitro-2-methylphenol	ND	0.38	0.36	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2,4-Dinitrophenol	ND	0.74	0.22	mg/Kg dry	1	R-05, V-19	SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2,4-Dinitrotoluene	ND	0.38	0.062	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2,6-Dinitrotoluene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Di-n-octylphthalate	ND	0.38	0.20	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	0.062	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Fluoranthene	0.13	0.19	0.063	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Fluorene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-DUP-040218

Sampled: 4/2/2018 00:00

Sample ID: 18D0057-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Hexachlorobutadiene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Hexachlorocyclopentadiene	ND	0.38	0.081	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Hexachloroethane	ND	0.38	0.077	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1	V-05	SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Isophorone	ND	0.38	0.074	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
1-Methylnaphthalene	ND	0.19	0.073	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2-Methylnaphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2-Methylphenol	ND	0.38	0.096	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
3/4-Methylphenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Naphthalene	ND	0.19	0.098	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2-Nitroaniline	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
3-Nitroaniline	ND	0.38	0.055	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
4-Nitroaniline	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Nitrobenzene	ND	0.38	0.072	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2-Nitrophenol	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
4-Nitrophenol	ND	0.74	0.083	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
N-Nitrosodimethylamine	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
N-Nitrosodiphenylamine	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
N-Nitrosodi-n-propylamine	ND	0.38	0.079	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Pentachloronitrobenzene	ND	0.38	0.091	mg/Kg dry	1	V-16	SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Pentachlorophenol	ND	0.38	0.092	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Phenanthrene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Phenol	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Pyrene	0.11	0.19	0.063	mg/Kg dry	1	J	SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Pyridine	ND	0.38	0.062	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
1,2,4-Trichlorobenzene	ND	0.38	0.069	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2,4,5-Trichlorophenol	ND	0.38	0.087	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
2,4,6-Trichlorophenol	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	4/3/18	4/5/18 14:55	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	65.1		30-130				4/5/18 14:55			
Phenol-d6	68.2		30-130				4/5/18 14:55			
Nitrobenzene-d5	62.9		30-130				4/5/18 14:55			
2-Fluorobiphenyl	56.2		30-130				4/5/18 14:55			
2,4,6-Tribromophenol	62.9		30-130				4/5/18 14:55			
p-Terphenyl-d14	72.1		30-130				4/5/18 14:55			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-DUP-040218

Sampled: 4/2/2018 00:00

Sample ID: 18D0057-14

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	0.0012	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Aldrin [1]	ND	0.0053	0.00032	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
alpha-BHC [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
beta-BHC [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
delta-BHC [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Chlordane [1]	ND	0.021	0.0062	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
4,4'-DDD [1]	0.0027	0.0043	0.00043	mg/Kg dry	1	J	SW-846 8081B	4/3/18	4/6/18 3:45	PJG
4,4'-DDE [1]	0.0063	0.0043	0.00032	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
4,4'-DDT [2]	0.013	0.0043	0.00043	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Dieldrin [1]	0.0034	0.0043	0.00032	mg/Kg dry	1	P-01, J	SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Endosulfan I [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Endosulfan II [1]	ND	0.0085	0.00032	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Endosulfan sulfate [1]	ND	0.0085	0.0014	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Endrin [1]	ND	0.0085	0.00032	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Endrin aldehyde [1]	ND	0.0085	0.0013	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 10:29	PJG
Endrin ketone [1]	ND	0.0085	0.00043	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Heptachlor [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Heptachlor epoxide [1]	ND	0.0053	0.00043	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Hexachlorobenzene [2]	0.0019	0.0064	0.00074	mg/Kg dry	1	J	SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Methoxychlor [1]	ND	0.053	0.00064	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Toxaphene [1]	ND	0.11	0.046	mg/Kg dry	1		SW-846 8081B	4/3/18	4/6/18 3:45	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	65.2		30-150				4/6/18 3:45			
Decachlorobiphenyl [2]	68.5		30-150				4/6/18 3:45			
Tetrachloro-m-xylene [1]	66.7		30-150				4/6/18 3:45			
Tetrachloro-m-xylene [2]	69.1		30-150				4/6/18 3:45			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-DUP-040218

Sampled: 4/2/2018 00:00

Sample ID: 18D0057-14

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	0.051	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:43	JMB
Aroclor-1221 [1]	ND	0.085	0.055	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:43	JMB
Aroclor-1232 [1]	ND	0.085	0.038	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:43	JMB
Aroclor-1242 [1]	ND	0.085	0.043	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:43	JMB
Aroclor-1248 [2]	0.27	0.085	0.051	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:43	JMB
Aroclor-1254 [2]	0.14	0.085	0.055	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:43	JMB
Aroclor-1260 [1]	0.071	0.085	0.060	mg/Kg dry	4	J	SW-846 8082A	4/3/18	4/4/18 23:43	JMB
Aroclor-1262 [1]	ND	0.085	0.043	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:43	JMB
Aroclor-1268 [1]	ND	0.085	0.034	mg/Kg dry	4		SW-846 8082A	4/3/18	4/4/18 23:43	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	65.4		30-150						4/4/18 23:43	
Decachlorobiphenyl [2]	96.1		30-150						4/4/18 23:43	
Tetrachloro-m-xylene [1]	80.0		30-150						4/4/18 23:43	
Tetrachloro-m-xylene [2]	102		30-150						4/4/18 23:43	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-DUP-040218

Sampled: 4/2/2018 00:00

Sample ID: 18D0057-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	14000	18	17	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:15	QNW
Antimony	12	1.8	1.2	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Arsenic	8.5	1.8	0.92	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Barium	130	1.8	0.89	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Beryllium	0.60	0.18	0.13	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Cadmium	1.2	0.18	0.11	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Calcium	4800	5.4	3.7	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Chromium	22	0.36	0.22	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Cobalt	8.5	1.8	1.0	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Copper	130	0.36	0.31	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Iron	39000	18	16	mg/Kg dry	10		SW-846 6010C-D	4/3/18	4/6/18 21:15	QNW
Lead	2500	0.54	0.32	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Magnesium	5900	110	58	mg/Kg dry	20		SW-846 6010C-D	4/3/18	4/9/18 18:53	QNW
Manganese	350	0.36	0.11	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Mercury	0.33	0.029	0.0029	mg/Kg dry	1		SW-846 7471B	4/4/18	4/5/18 10:45	EJB
Nickel	24	0.36	0.29	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Potassium	1500	72	26	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Selenium	ND	3.6	3.0	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Silver	ND	0.72	0.42	mg/Kg dry	2	DL-04	SW-846 6010C-D	4/3/18	4/9/18 18:58	QNW
Sodium	140	72	27	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Thallium	ND	1.8	1.3	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Vanadium	21	0.72	0.54	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW
Zinc	200	0.72	0.50	mg/Kg dry	1		SW-846 6010C-D	4/3/18	4/6/18 15:57	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: 401075-DUP-040218

Sampled: 4/2/2018 00:00

Sample ID: 18D0057-14

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.44	0.22	mg/Kg dry	1		SW-846 9014	4/11/18	4/12/18 12:00	DJM
% Solids	88.7			% Wt	1		SM 2540G	4/3/18	4/4/18 7:50	MJR

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: Trip Blank

Sampled: 4/2/2018 00:00

Sample ID: 18D0057-15

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1	V-05	SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1	V-05	SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1	R-05	SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	V-34	SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18D0057

Date Received: 4/2/2018

Field Sample #: Trip Blank

Sampled: 4/2/2018 00:00

Sample ID: 18D0057-15

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Methyl Acetate	ND	2.0	0.42	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	4/5/18	4/5/18 13:32	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	105	70-130								
Toluene-d8	93.7	70-130								
4-Bromofluorobenzene	97.2	70-130								

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

Lab Number [Field ID]	Batch	Date
18D0057-01 [401075-SS-01-0-2]	B200119	04/03/18
18D0057-02 [401075-SS-01-0-6]	B200119	04/03/18
18D0057-03 [401075-SS-02-0-6]	B200119	04/03/18
18D0057-04 [401075-SS-02-0-2]	B200119	04/03/18
18D0057-05 [401075-SS-03-0-6]	B200119	04/03/18
18D0057-06 [401075-SS-03-0-2]	B200119	04/03/18
18D0057-07 [401075-SS-04-0-2]	B200119	04/03/18
18D0057-08 [401075-SS-04-0-6]	B200119	04/03/18
18D0057-09 [401075-SS-05-0-2]	B200119	04/03/18
18D0057-10 [401075-SS-05-0-6]	B200119	04/03/18
18D0057-11 [401075-SL-FloorDrain01]	B200119	04/03/18
18D0057-14 [401075-DUP-040218]	B200119	04/03/18

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18D0057-12 [401075-SL-FloorDrain02]	B200152	04/04/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0057-01 [401075-SS-01-0-2]	B200105	1.56	50.0	04/03/18
18D0057-04 [401075-SS-02-0-2]	B200105	1.47	50.0	04/03/18
18D0057-07 [401075-SS-04-0-2]	B200105	1.59	50.0	04/03/18
18D0057-09 [401075-SS-05-0-2]	B200105	1.50	50.0	04/03/18
18D0057-14 [401075-DUP-040218]	B200105	1.56	50.0	04/03/18

Prep Method: SW-846 3051-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0057-06RE1 [401075-SS-03-0-2]	B200571	1.46	50.0	04/10/18

Prep Method: SW-846 3051-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0057-06RE2 [401075-SS-03-0-2]	B200698	1.49	50.0	04/11/18

Prep Method: SW-846 3005A-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18D0057-13 [401075-RB-040218]	B200354	50.0	50.0	04/06/18

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18D0057-13 [401075-RB-040218]	B200249	6.00	6.00	04/05/18

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0057-01 [401075-SS-01-0-2]	B200181	0.601	50.0	04/04/18
18D0057-04 [401075-SS-02-0-2]	B200181	0.599	50.0	04/04/18
18D0057-06 [401075-SS-03-0-2]	B200181	0.592	50.0	04/04/18
18D0057-07 [401075-SS-04-0-2]	B200181	0.577	50.0	04/04/18
18D0057-09 [401075-SS-05-0-2]	B200181	0.604	50.0	04/04/18
18D0057-14 [401075-DUP-040218]	B200181	0.579	50.0	04/04/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0057-01 [401075-SS-01-0-2]	B200110	10.2	10.0	04/03/18
18D0057-04 [401075-SS-02-0-2]	B200110	10.2	10.0	04/03/18
18D0057-06 [401075-SS-03-0-2]	B200110	10.0	10.0	04/03/18
18D0057-07 [401075-SS-04-0-2]	B200110	10.5	10.0	04/03/18
18D0057-09 [401075-SS-05-0-2]	B200110	10.2	10.0	04/03/18
18D0057-14 [401075-DUP-040218]	B200110	10.6	10.0	04/03/18

Prep Method: SW-846 3510C-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18D0057-13 [401075-RB-040218]	B200117	1000	10.0	04/03/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0057-01 [401075-SS-01-0-2]	B200109	10.2	10.0	04/03/18
18D0057-04 [401075-SS-02-0-2]	B200109	10.2	10.0	04/03/18
18D0057-06 [401075-SS-03-0-2]	B200109	10.0	10.0	04/03/18
18D0057-07 [401075-SS-04-0-2]	B200109	10.5	10.0	04/03/18
18D0057-09 [401075-SS-05-0-2]	B200109	10.2	10.0	04/03/18
18D0057-14 [401075-DUP-040218]	B200109	10.6	10.0	04/03/18

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18D0057-13 [401075-RB-040218]	B200037	1000	10.0	04/03/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0057-02 [401075-SS-01-0-6]	B200169	4.95	10.0	04/04/18
18D0057-03 [401075-SS-02-0-6]	B200169	4.92	10.0	04/04/18
18D0057-05 [401075-SS-03-0-6]	B200169	4.71	10.0	04/04/18
18D0057-08 [401075-SS-04-0-6]	B200169	4.79	10.0	04/04/18
18D0057-10 [401075-SS-05-0-6]	B200169	5.08	10.0	04/04/18
18D0057-11 [401075-SL-FloorDrain01]	B200169	4.78	10.0	04/04/18
18D0057-12 [401075-SL-FloorDrain02]	B200169	5.18	10.0	04/04/18
18D0057-14 [401075-DUP-040218]	B200169	4.98	10.0	04/04/18

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Sample Extraction Data**Prep Method: SW-846 5030B-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18D0057-13 [401075-RB-040218]	B200242	5	5.00	04/05/18
18D0057-15 [Trip Blank]	B200242	5	5.00	04/05/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0057-01 [401075-SS-01-0-2]	B200096	30.0	1.00	04/03/18
18D0057-04 [401075-SS-02-0-2]	B200096	30.0	1.00	04/03/18
18D0057-06 [401075-SS-03-0-2]	B200096	30.0	1.00	04/03/18
18D0057-07 [401075-SS-04-0-2]	B200096	30.0	1.00	04/03/18
18D0057-09 [401075-SS-05-0-2]	B200096	30.0	1.00	04/03/18
18D0057-14 [401075-DUP-040218]	B200096	30.0	1.00	04/03/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18D0057-13 [401075-RB-040218]	B200038	960	1.00	04/03/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18D0057-01 [401075-SS-01-0-2]	B200687	1.07	50.0	04/11/18
18D0057-04 [401075-SS-02-0-2]	B200687	1.21	50.0	04/11/18
18D0057-06 [401075-SS-03-0-2]	B200687	1.24	50.0	04/11/18
18D0057-07 [401075-SS-04-0-2]	B200687	1.24	50.0	04/11/18
18D0057-09 [401075-SS-05-0-2]	B200687	1.05	50.0	04/11/18
18D0057-14 [401075-DUP-040218]	B200687	1.28	50.0	04/11/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18D0057-13 [401075-RB-040218]	B200516	50.0	50.0	04/09/18

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 B200169 - SW-846 5035
Blank (B200169-BLK1)

Prepared & Analyzed: 04/04/18

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							
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							V-05
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							V-34
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							

L-04

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200169 - SW-846 5035

Blank (B200169-BLK1)

Prepared & Analyzed: 04/04/18

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	0.0517		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0514		mg/Kg wet	0.0500		103	70-130			

LCS (B200169-BS1)

Prepared & Analyzed: 04/04/18

Acetone	0.152	0.10	mg/Kg wet	0.200		76.0	70-160			†
Acrylonitrile	0.0205	0.0060	mg/Kg wet	0.0200		102	70-130			
tert-Amyl Methyl Ether (TAME)	0.0189	0.0010	mg/Kg wet	0.0200		94.6	70-130			
Benzene	0.0175	0.0020	mg/Kg wet	0.0200		87.6	70-130			
Bromobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2	70-130			
Bromochloromethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromodichloromethane	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
Bromoform	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
Bromomethane	0.0108	0.010	mg/Kg wet	0.0200		54.2	40-130	V-34		†
2-Butanone (MEK)	0.203	0.040	mg/Kg wet	0.200		101	70-160			†
tert-Butyl Alcohol (TBA)	0.194	0.040	mg/Kg wet	0.200		97.0	40-130			†
n-Butylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
sec-Butylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8	70-130			
tert-Butylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0180	0.0010	mg/Kg wet	0.0200		90.1	70-130			
Carbon Disulfide	0.0149	0.0060	mg/Kg wet	0.0200		74.4	70-130		V-05	
Carbon Tetrachloride	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Chlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Chlorodibromomethane	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130			
Chloroethane	0.0176	0.020	mg/Kg wet	0.0200		87.8	70-130			J
Chloroform	0.0182	0.0040	mg/Kg wet	0.0200		91.0	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200169 - SW-846 5035										
LCS (B200169-BS1)				Prepared & Analyzed: 04/04/18						
Chloromethane	0.0144	0.010	mg/Kg wet	0.0200		72.2	70-130			
2-Chlorotoluene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
4-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,2-Dibromoethane (EDB)	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130			
Dibromomethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
1,2-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2	70-130			
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
1,4-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130			
trans-1,4-Dichloro-2-butene	0.0213	0.0040	mg/Kg wet	0.0200		106	70-130			
Dichlorodifluoromethane (Freon 12)	0.0104	0.020	mg/Kg wet	0.0200		51.9	40-160			V-34, J †
1,1-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
1,2-Dichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1-Dichloroethylene	0.0145	0.0040	mg/Kg wet	0.0200		72.6	70-130			
cis-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
trans-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
1,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
2,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
1,1-Dichloropropene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
cis-1,3-Dichloropropene	0.0192	0.0010	mg/Kg wet	0.0200		96.2	70-130			
trans-1,3-Dichloropropene	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130			
Diethyl Ether	0.0183	0.020	mg/Kg wet	0.0200		91.7	70-130			J
Diisopropyl Ether (DIPE)	0.0187	0.0010	mg/Kg wet	0.0200		93.3	70-130			
1,4-Dioxane	0.178	0.10	mg/Kg wet	0.200		89.1	40-160			†
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
Hexachlorobutadiene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-160			†
2-Hexanone (MBK)	0.212	0.020	mg/Kg wet	0.200		106	70-160			†
Isopropylbenzene (Cumene)	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
p-Isopropyltoluene (p-Cymene)	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
Methyl Acetate	0.0111	0.0020	mg/Kg wet	0.0200		55.6 *	70-130			L-04
Methyl tert-Butyl Ether (MTBE)	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			
Methyl Cyclohexane	0.0172	0.0020	mg/Kg wet	0.0200		86.0	70-130			
Methylene Chloride	0.0187	0.020	mg/Kg wet	0.0200		93.5	40-160			J †
4-Methyl-2-pentanone (MIBK)	0.212	0.020	mg/Kg wet	0.200		106	70-160			V-20 †
Naphthalene	0.0192	0.0040	mg/Kg wet	0.0200		95.9	40-130			†
n-Propylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130			
Styrene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,1,1,2-Tetrachloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2,2-Tetrachloroethane	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
Tetrachloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0180	0.010	mg/Kg wet	0.0200		90.1	70-130			
Toluene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
1,2,3-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130			
1,2,4-Trichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
1,3,5-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
1,1,1-Trichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
1,1,2-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
Trichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130			
Trichlorofluoromethane (Freon 11)	0.0183	0.010	mg/Kg wet	0.0200		91.5	70-130			
1,2,3-Trichloropropane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200169 - SW-846 5035										
LCS (B200169-BS1)				Prepared & Analyzed: 04/04/18						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0145	0.010	mg/Kg wet	0.0200		72.5	70-130			
1,2,4-Trimethylbenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130			
1,3,5-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Vinyl Chloride	0.0156	0.010	mg/Kg wet	0.0200		78.1	40-130			†
m+p Xylene	0.0390	0.0040	mg/Kg wet	0.0400		97.6	70-130			
o-Xylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0505		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0501		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0511		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B200169-BSD1)				Prepared & Analyzed: 04/04/18						
Acetone	0.149	0.10	mg/Kg wet	0.200		74.4	70-160	2.13	25	†
Acrylonitrile	0.0200	0.0060	mg/Kg wet	0.0200		99.9	70-130	2.37	25	
tert-Amyl Methyl Ether (TAME)	0.0179	0.0010	mg/Kg wet	0.0200		89.6	70-130	5.43	25	
Benzene	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130	0.229	25	
Bromobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	7.16	25	
Bromochloromethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	3.49	25	
Bromodichloromethane	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130	1.53	25	
Bromoform	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130	8.55	25	
Bromomethane	0.0113	0.010	mg/Kg wet	0.0200		56.5	40-130	4.16	25	V-34 †
2-Butanone (MEK)	0.205	0.040	mg/Kg wet	0.200		103	70-160	1.08	25	†
tert-Butyl Alcohol (TBA)	0.207	0.040	mg/Kg wet	0.200		103	40-130	6.38	25	†
n-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	5.36	25	
sec-Butylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	0.728	25	
tert-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-160	3.62	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0178	0.0010	mg/Kg wet	0.0200		88.8	70-130	1.45	25	
Carbon Disulfide	0.0146	0.0060	mg/Kg wet	0.0200		73.1	70-130	1.76	25	V-05
Carbon Tetrachloride	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130	4.61	25	
Chlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.19	25	
Chlorodibromomethane	0.0219	0.0010	mg/Kg wet	0.0200		110	70-130	3.62	25	
Chloroethane	0.0169	0.020	mg/Kg wet	0.0200		84.3	70-130	4.07	25	J
Chloroform	0.0188	0.0040	mg/Kg wet	0.0200		94.0	70-130	3.24	25	
Chloromethane	0.0143	0.010	mg/Kg wet	0.0200		71.5	70-130	0.974	25	
2-Chlorotoluene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130	4.63	25	
4-Chlorotoluene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	6.07	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0239	0.0020	mg/Kg wet	0.0200		119	70-130	20.0	25	
1,2-Dibromoethane (EDB)	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130	3.68	25	
Dibromomethane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130	0.626	25	
1,2-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	4.97	25	
1,3-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	7.22	25	
1,4-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130	4.37	25	
trans-1,4-Dichloro-2-butene	0.0224	0.0040	mg/Kg wet	0.0200		112	70-130	5.13	25	
Dichlorodifluoromethane (Freon 12)	0.0107	0.020	mg/Kg wet	0.0200		53.6	40-160	3.22	25	V-34, J †
1,1-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130	0.107	25	
1,2-Dichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	0.487	25	
1,1-Dichloroethylene	0.0149	0.0040	mg/Kg wet	0.0200		74.6	70-130	2.72	25	
cis-1,2-Dichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130	1.60	25	
trans-1,2-Dichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130	0.432	25	
1,2-Dichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	0.727	25	
1,3-Dichloropropane	0.0197	0.0010	mg/Kg wet	0.0200		98.3	70-130	2.11	25	
2,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130	0.412	25	
1,1-Dichloropropene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130	0.654	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200169 - SW-846 5035										
LCS Dup (B200169-BSD1)				Prepared & Analyzed: 04/04/18						
cis-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.0200		95.0	70-130	1.26	25	
trans-1,3-Dichloropropene	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	4.50	25	
Diethyl Ether	0.0178	0.020	mg/Kg wet	0.0200		89.0	70-130	2.99	25	J
Diisopropyl Ether (DIPE)	0.0187	0.0010	mg/Kg wet	0.0200		93.5	70-130	0.214	25	
1,4-Dioxane	0.201	0.10	mg/Kg wet	0.200		101	40-160	12.2	50	† ‡
Ethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130	0.416	25	
Hexachlorobutadiene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-160	3.76	25	
2-Hexanone (MBK)	0.223	0.020	mg/Kg wet	0.200		111	70-160	4.90	25	†
Isopropylbenzene (Cumene)	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	0.649	25	
p-Isopropyltoluene (p-Cymene)	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	4.97	25	
Methyl Acetate	0.0117	0.0020	mg/Kg wet	0.0200		58.7	* 70-130	5.42	25	L-04
Methyl tert-Butyl Ether (MTBE)	0.0197	0.0040	mg/Kg wet	0.0200		98.4	70-130	2.61	25	
Methyl Cyclohexane	0.0173	0.0020	mg/Kg wet	0.0200		86.6	70-130	0.695	25	
Methylene Chloride	0.0180	0.020	mg/Kg wet	0.0200		89.9	40-160	3.93	25	J †
4-Methyl-2-pentanone (MIBK)	0.219	0.020	mg/Kg wet	0.200		109	70-160	3.21	25	V-20 †
Naphthalene	0.0198	0.0040	mg/Kg wet	0.0200		98.9	40-130	3.08	25	†
n-Propylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	2.61	25	
Styrene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	0.300	25	
1,1,1,2-Tetrachloroethane	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	6.75	25	
1,1,2,2-Tetrachloroethane	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130	9.43	25	
Tetrachloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.66	25	
Tetrahydrofuran	0.0189	0.010	mg/Kg wet	0.0200		94.3	70-130	4.56	25	
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130	1.65	25	
1,2,3-Trichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	6.49	25	
1,2,4-Trichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	6.15	25	
1,3,5-Trichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	6.30	25	
1,1,1-Trichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	2.77	25	
1,1,2-Trichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	4.23	25	
Trichloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130	2.07	25	
Trichlorofluoromethane (Freon 11)	0.0182	0.010	mg/Kg wet	0.0200		90.8	70-130	0.768	25	
1,2,3-Trichloropropane	0.0235	0.0020	mg/Kg wet	0.0200		118	70-130	6.41	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0152	0.010	mg/Kg wet	0.0200		76.2	70-130	4.98	25	
1,2,4-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130	5.30	25	
1,3,5-Trimethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.80	25	
Vinyl Chloride	0.0159	0.010	mg/Kg wet	0.0200		79.4	40-130	1.65	25	†
m+p Xylene	0.0386	0.0040	mg/Kg wet	0.0400		96.4	70-130	1.19	25	
o-Xylene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	0.609	25	
Surrogate: 1,2-Dichloroethane-d4	0.0497		mg/Kg wet	0.0500		99.5	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0519		mg/Kg wet	0.0500		104	70-130			

Batch B200242 - SW-846 5030B

Blank (B200242-BLK1)				Prepared & Analyzed: 04/05/18						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							V-05
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200242 - SW-846 5030B										
Blank (B200242-BLK1)				Prepared & Analyzed: 04/05/18						
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							V-05
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							R-05
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							V-34
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200242 - SW-846 5030B										
Blank (B200242-BLK1)										
Prepared & Analyzed: 04/05/18										
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	25.3		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	24.2		µg/L	25.0		96.9	70-130			
LCS (B200242-BS1)										
Prepared & Analyzed: 04/05/18										
Acetone	97.3	50	µg/L	100		97.3	70-160			†
Acrylonitrile	11.3	5.0	µg/L	10.0		113	70-130			
tert-Amyl Methyl Ether (TAME)	7.17	0.50	µg/L	10.0		71.7	70-130			V-05
Benzene	10.6	1.0	µg/L	10.0		106	70-130			
Bromobenzene	10.6	1.0	µg/L	10.0		106	70-130			
Bromochloromethane	11.8	1.0	µg/L	10.0		118	70-130			
Bromodichloromethane	11.6	0.50	µg/L	10.0		116	70-130			
Bromoform	11.3	1.0	µg/L	10.0		113	70-130			
Bromomethane	10.7	2.0	µg/L	10.0		107	40-160			V-20 †
2-Butanone (MEK)	106	20	µg/L	100		106	40-160			†
tert-Butyl Alcohol (TBA)	66.2	20	µg/L	100		66.2	40-160			†
n-Butylbenzene	11.5	1.0	µg/L	10.0		115	70-130			
sec-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.55	0.50	µg/L	10.0		95.5	70-130			
Carbon Disulfide	14.6	4.0	µg/L	10.0		146	* 70-130			L-02
Carbon Tetrachloride	13.9	5.0	µg/L	10.0		139	* 70-130			L-07
Chlorobenzene	11.6	1.0	µg/L	10.0		116	70-130			
Chlorodibromomethane	12.3	0.50	µg/L	10.0		123	70-130			
Chloroethane	11.8	2.0	µg/L	10.0		118	70-130			
Chloroform	10.8	2.0	µg/L	10.0		108	70-130			
Chloromethane	9.66	2.0	µg/L	10.0		96.6	40-160			†
2-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			
4-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.15	5.0	µg/L	10.0		91.5	70-130			V-05
1,2-Dibromoethane (EDB)	11.6	0.50	µg/L	10.0		116	70-130			
Dibromomethane	10.3	1.0	µg/L	10.0		103	70-130			
1,2-Dichlorobenzene	11.8	1.0	µg/L	10.0		118	70-130			
1,3-Dichlorobenzene	12.0	1.0	µg/L	10.0		120	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200242 - SW-846 5030B										
LCS (B200242-BS1)				Prepared & Analyzed: 04/05/18						
1,4-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
trans-1,4-Dichloro-2-butene	11.3	2.0	µg/L	10.0		113	70-130			R-05
Dichlorodifluoromethane (Freon 12)	7.44	2.0	µg/L	10.0		74.4	40-160			V-34 †
1,1-Dichloroethane	11.4	1.0	µg/L	10.0		114	70-130			
1,2-Dichloroethane	11.2	1.0	µg/L	10.0		112	70-130			
1,1-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130			
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dichloropropane	9.69	1.0	µg/L	10.0		96.9	70-130			
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			
2,2-Dichloropropane	9.33	1.0	µg/L	10.0		93.3	40-130			†
1,1-Dichloropropene	10.9	2.0	µg/L	10.0		109	70-130			
cis-1,3-Dichloropropene	9.54	0.50	µg/L	10.0		95.4	70-130			
trans-1,3-Dichloropropene	9.83	0.50	µg/L	10.0		98.3	70-130			
Diethyl Ether	10.5	2.0	µg/L	10.0		105	70-130			
Diisopropyl Ether (DIPE)	10.8	0.50	µg/L	10.0		108	70-130			
1,4-Dioxane	91.7	50	µg/L	100		91.7	40-130			†
Ethylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Hexachlorobutadiene	11.9	0.60	µg/L	10.0		119	70-130			
2-Hexanone (MBK)	100	10	µg/L	100		100	70-160			†
Isopropylbenzene (Cumene)	11.7	1.0	µg/L	10.0		117	70-130			
p-Isopropyltoluene (p-Cymene)	11.5	1.0	µg/L	10.0		115	70-130			
Methyl Acetate	8.06	1.0	µg/L	10.0		80.6	70-130			
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.0		104	70-130			
Methyl Cyclohexane	9.26	1.0	µg/L	10.0		92.6	70-130			
Methylene Chloride	11.7	5.0	µg/L	10.0		117	70-130			
4-Methyl-2-pentanone (MIBK)	96.8	10	µg/L	100		96.8	70-160			†
Naphthalene	10.2	2.0	µg/L	10.0		102	40-130			†
n-Propylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
Styrene	11.1	1.0	µg/L	10.0		111	70-130			
1,1,1,2-Tetrachloroethane	11.7	1.0	µg/L	10.0		117	70-130			
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106	70-130			
Tetrachloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
Tetrahydrofuran	11.4	10	µg/L	10.0		114	70-130			
Toluene	10.6	1.0	µg/L	10.0		106	70-130			
1,2,3-Trichlorobenzene	11.2	5.0	µg/L	10.0		112	70-130			
1,2,4-Trichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,3,5-Trichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
1,1,1-Trichloroethane	12.1	1.0	µg/L	10.0		121	70-130			
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111	70-130			
Trichloroethylene	11.5	1.0	µg/L	10.0		115	70-130			
Trichlorofluoromethane (Freon 11)	11.7	2.0	µg/L	10.0		117	70-130			V-20
1,2,3-Trichloropropane	9.35	2.0	µg/L	10.0		93.5	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	1.0	µg/L	10.0		105	70-130			
1,2,4-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Vinyl Chloride	10.1	2.0	µg/L	10.0		101	40-160			†
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130			
o-Xylene	9.93	1.0	µg/L	10.0		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.1		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.9		µg/L	25.0		99.8	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200242 - SW-846 5030B										
LCS (B200242-BS1)				Prepared & Analyzed: 04/05/18						
Surrogate: 4-Bromofluorobenzene	23.3		µg/L	25.0		93.3	70-130			
LCS Dup (B200242-BSD1)				Prepared & Analyzed: 04/05/18						
Acetone	112	50	µg/L	100		112	70-160	14.0	25	†
Acrylonitrile	11.9	5.0	µg/L	10.0		119	70-130	5.34	25	
tert-Amyl Methyl Ether (TAME)	7.03	0.50	µg/L	10.0		70.3	70-130	1.97	25	V-05
Benzene	10.6	1.0	µg/L	10.0		106	70-130	0.377	25	
Bromobenzene	10.3	1.0	µg/L	10.0		103	70-130	2.88	25	
Bromochloromethane	11.5	1.0	µg/L	10.0		115	70-130	3.09	25	
Bromodichloromethane	10.7	0.50	µg/L	10.0		107	70-130	8.01	25	
Bromoform	11.1	1.0	µg/L	10.0		111	70-130	2.14	25	
Bromomethane	10.6	2.0	µg/L	10.0		106	40-160	0.0939	25	V-20 †
2-Butanone (MEK)	110	20	µg/L	100		110	40-160	4.26	25	†
tert-Butyl Alcohol (TBA)	70.7	20	µg/L	100		70.7	40-160	6.55	25	†
n-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130	8.17	25	
sec-Butylbenzene	9.83	1.0	µg/L	10.0		98.3	70-130	9.50	25	
tert-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130	5.21	25	
tert-Butyl Ethyl Ether (TBEE)	8.20	0.50	µg/L	10.0		82.0	70-130	15.2	25	
Carbon Disulfide	13.2	4.0	µg/L	10.0		132 *	70-130	10.8	25	L-02
Carbon Tetrachloride	12.2	5.0	µg/L	10.0		122	70-130	12.7	25	
Chlorobenzene	11.9	1.0	µg/L	10.0		119	70-130	2.72	25	
Chlorodibromomethane	12.3	0.50	µg/L	10.0		123	70-130	0.569	25	
Chloroethane	11.1	2.0	µg/L	10.0		111	70-130	5.67	25	
Chloroform	9.87	2.0	µg/L	10.0		98.7	70-130	9.46	25	
Chloromethane	8.51	2.0	µg/L	10.0		85.1	40-160	12.7	25	†
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130	2.86	25	
4-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130	0.459	25	
1,2-Dibromo-3-chloropropane (DBCP)	8.93	5.0	µg/L	10.0		89.3	70-130	2.43	25	V-05
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.0		114	70-130	2.26	25	
Dibromomethane	10.4	1.0	µg/L	10.0		104	70-130	1.55	25	
1,2-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	6.81	25	
1,3-Dichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130	5.91	25	
1,4-Dichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	7.48	25	
trans-1,4-Dichloro-2-butene	8.55	2.0	µg/L	10.0		85.5	70-130	27.4 *	25	R-05
Dichlorodifluoromethane (Freon 12)	6.74	2.0	µg/L	10.0		67.4	40-160	9.87	25	V-34 †
1,1-Dichloroethane	11.5	1.0	µg/L	10.0		115	70-130	1.49	25	
1,2-Dichloroethane	9.59	1.0	µg/L	10.0		95.9	70-130	15.7	25	
1,1-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130	6.79	25	
cis-1,2-Dichloroethylene	9.90	1.0	µg/L	10.0		99.0	70-130	8.70	25	
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130	3.82	25	
1,2-Dichloropropane	9.62	1.0	µg/L	10.0		96.2	70-130	0.725	25	
1,3-Dichloropropane	9.73	0.50	µg/L	10.0		97.3	70-130	4.62	25	
2,2-Dichloropropane	9.25	1.0	µg/L	10.0		92.5	40-130	0.861	25	†
1,1-Dichloropropene	9.67	2.0	µg/L	10.0		96.7	70-130	12.3	25	
cis-1,3-Dichloropropene	9.09	0.50	µg/L	10.0		90.9	70-130	4.83	25	
trans-1,3-Dichloropropene	9.44	0.50	µg/L	10.0		94.4	70-130	4.05	25	
Diethyl Ether	10.1	2.0	µg/L	10.0		101	70-130	3.99	25	
Diisopropyl Ether (DIPE)	10.8	0.50	µg/L	10.0		108	70-130	0.464	25	
1,4-Dioxane	123	50	µg/L	100		123	40-130	28.8	50	† ‡
Ethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	2.48	25	
Hexachlorobutadiene	10.7	0.60	µg/L	10.0		107	70-130	11.0	25	
2-Hexanone (MBK)	103	10	µg/L	100		103	70-160	2.46	25	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200242 - SW-846 5030B										
LCS Dup (B200242-BSD1)				Prepared & Analyzed: 04/05/18						
Isopropylbenzene (Cumene)	11.4	1.0	µg/L	10.0		114	70-130	2.78	25	
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.0		105	70-130	9.73	25	
Methyl Acetate	8.54	1.0	µg/L	10.0		85.4	70-130	5.78	25	
Methyl tert-Butyl Ether (MTBE)	9.42	1.0	µg/L	10.0		94.2	70-130	9.50	25	
Methyl Cyclohexane	8.99	1.0	µg/L	10.0		89.9	70-130	2.96	25	
Methylene Chloride	10.1	5.0	µg/L	10.0		101	70-130	14.9	25	
4-Methyl-2-pentanone (MIBK)	98.0	10	µg/L	100		98.0	70-160	1.19	25	†
Naphthalene	10.4	2.0	µg/L	10.0		104	40-130	1.95	25	†
n-Propylbenzene	10.9	1.0	µg/L	10.0		109	70-130	4.93	25	
Styrene	11.4	1.0	µg/L	10.0		114	70-130	2.58	25	
1,1,1,2-Tetrachloroethane	12.2	1.0	µg/L	10.0		122	70-130	3.43	25	
1,1,2,2-Tetrachloroethane	11.2	0.50	µg/L	10.0		112	70-130	4.95	25	
Tetrachloroethylene	11.4	1.0	µg/L	10.0		114	70-130	5.60	25	
Tetrahydrofuran	12.3	10	µg/L	10.0		123	70-130	7.66	25	
Toluene	9.71	1.0	µg/L	10.0		97.1	70-130	8.39	25	
1,2,3-Trichlorobenzene	9.94	5.0	µg/L	10.0		99.4	70-130	12.2	25	
1,2,4-Trichlorobenzene	9.59	1.0	µg/L	10.0		95.9	70-130	7.43	25	
1,3,5-Trichlorobenzene	8.86	1.0	µg/L	10.0		88.6	70-130	24.1	25	
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130	11.9	25	
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130	6.20	25	
Trichloroethylene	9.85	1.0	µg/L	10.0		98.5	70-130	15.8	25	
Trichlorofluoromethane (Freon 11)	12.0	2.0	µg/L	10.0		120	70-130	2.78	25	V-20
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.0		101	70-130	7.61	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	1.0	µg/L	10.0		100	70-130	4.96	25	
1,2,4-Trimethylbenzene	9.58	1.0	µg/L	10.0		95.8	70-130	13.1	25	
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	1.87	25	
Vinyl Chloride	10.3	2.0	µg/L	10.0		103	40-160	2.15	25	†
m+p Xylene	21.4	2.0	µg/L	20.0		107	70-130	1.32	25	
o-Xylene	9.89	1.0	µg/L	10.0		98.9	70-130	0.404	25	
Surrogate: 1,2-Dichloroethane-d4	25.5		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	25.6		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.0		97.6	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200038 - SW-846 3510C

Blank (B200038-BLK1)

Prepared: 04/03/18 Analyzed: 04/05/18

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							R-05, V-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-19
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							V-05
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200038 - SW-846 3510C

Blank (B200038-BLK1)

Prepared: 04/03/18 Analyzed: 04/05/18

2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	82.0		µg/L	200		41.0	15-110			
Surrogate: Phenol-d6	55.6		µg/L	200		27.8	15-110			
Surrogate: Nitrobenzene-d5	67.1		µg/L	100		67.1	30-130			
Surrogate: 2-Fluorobiphenyl	57.4		µg/L	101		56.9	30-130			
Surrogate: 2,4,6-Tribromophenol	137		µg/L	200		68.6	15-110			
Surrogate: p-Terphenyl-d14	80.1		µg/L	101		79.3	30-130			

LCS (B200038-BS1)

Prepared: 04/03/18 Analyzed: 04/05/18

Acenaphthene	45.7	5.0	µg/L	50.0		91.4	40-140			
Acenaphthylene	43.9	5.0	µg/L	50.0		87.9	40-140			
Acetophenone	47.5	10	µg/L	50.0		95.1	40-140			
Aniline	38.6	5.0	µg/L	50.0		77.2	40-140			
Anthracene	47.0	5.0	µg/L	50.0		94.0	40-140			
Benzidine	22.0	20	µg/L	50.0		44.0	40-140			R-05, V-04, V-05
Benzo(a)anthracene	46.2	5.0	µg/L	50.0		92.4	40-140			
Benzo(a)pyrene	46.5	5.0	µg/L	50.0		93.0	40-140			
Benzo(b)fluoranthene	43.7	5.0	µg/L	50.0		87.4	40-140			
Benzo(g,h,i)perylene	45.5	5.0	µg/L	50.0		91.0	40-140			
Benzo(k)fluoranthene	46.7	5.0	µg/L	50.0		93.5	40-140			
Benzoic Acid	20.6	10	µg/L	50.0		41.3	10-130			†
Bis(2-chloroethoxy)methane	53.3	10	µg/L	50.0		107	40-140			
Bis(2-chloroethyl)ether	47.4	10	µg/L	50.0		94.8	40-140			
Bis(2-chloroisopropyl)ether	51.7	10	µg/L	50.0		103	40-140			
Bis(2-Ethylhexyl)phthalate	47.5	10	µg/L	50.0		95.1	40-140			
4-Bromophenylphenylether	46.2	10	µg/L	50.0		92.4	40-140			
Butylbenzylphthalate	49.0	10	µg/L	50.0		98.1	40-140			
Carbazole	47.3	10	µg/L	50.0		94.6	40-140			
4-Chloroaniline	41.5	10	µg/L	50.0		83.0	40-140			V-34
4-Chloro-3-methylphenol	45.5	10	µg/L	50.0		91.1	30-130			
2-Chloronaphthalene	41.5	10	µg/L	50.0		83.0	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200038 - SW-846 3510C										
LCS (B200038-BS1)				Prepared: 04/03/18 Analyzed: 04/05/18						
2-Chlorophenol	42.1	10	µg/L	50.0		84.2	30-130			
4-Chlorophenylphenylether	46.1	10	µg/L	50.0		92.2	40-140			
Chrysene	47.1	5.0	µg/L	50.0		94.2	40-140			
Dibenz(a,h)anthracene	42.8	5.0	µg/L	50.0		85.6	40-140			
Dibenzofuran	46.9	5.0	µg/L	50.0		93.8	40-140			
Di-n-butylphthalate	46.2	10	µg/L	50.0		92.5	40-140			
1,2-Dichlorobenzene	41.7	5.0	µg/L	50.0		83.3	40-140			
1,3-Dichlorobenzene	41.4	5.0	µg/L	50.0		82.7	40-140			
1,4-Dichlorobenzene	41.1	5.0	µg/L	50.0		82.2	40-140			
3,3-Dichlorobenzidine	50.0	10	µg/L	50.0		99.9	40-140			
2,4-Dichlorophenol	45.5	10	µg/L	50.0		91.0	30-130			
Diethylphthalate	45.7	10	µg/L	50.0		91.4	40-140			
2,4-Dimethylphenol	44.5	10	µg/L	50.0		89.0	30-130			
Dimethylphthalate	47.0	10	µg/L	50.0		93.9	40-140			
4,6-Dinitro-2-methylphenol	39.8	10	µg/L	50.0		79.5	30-130			
2,4-Dinitrophenol	38.9	10	µg/L	50.0		77.7	30-130			V-19
2,4-Dinitrotoluene	44.7	10	µg/L	50.0		89.5	40-140			
2,6-Dinitrotoluene	47.7	10	µg/L	50.0		95.4	40-140			
Di-n-octylphthalate	40.4	10	µg/L	50.0		80.8	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	48.4	10	µg/L	50.0		96.9	40-140			
Fluoranthene	46.6	5.0	µg/L	50.0		93.2	40-140			
Fluorene	45.6	5.0	µg/L	50.0		91.3	40-140			
Hexachlorobenzene	46.0	10	µg/L	50.0		92.0	40-140			
Hexachlorobutadiene	42.2	10	µg/L	50.0		84.4	40-140			
Hexachlorocyclopentadiene	39.8	10	µg/L	50.0		79.6	30-140			†
Hexachloroethane	43.4	10	µg/L	50.0		86.7	40-140			
Indeno(1,2,3-cd)pyrene	38.4	5.0	µg/L	50.0		76.7	40-140			V-05
Isophorone	49.0	10	µg/L	50.0		98.1	40-140			
1-Methylnaphthalene	48.0	5.0	µg/L	50.0		96.0	40-140			
2-Methylnaphthalene	48.1	5.0	µg/L	50.0		96.3	40-140			
2-Methylphenol	34.4	10	µg/L	50.0		68.8	30-130			
3/4-Methylphenol	37.0	10	µg/L	50.0		74.0	30-130			
Naphthalene	45.5	5.0	µg/L	50.0		91.1	40-140			
2-Nitroaniline	47.1	10	µg/L	50.0		94.3	40-140			
3-Nitroaniline	44.2	10	µg/L	50.0		88.4	40-140			
4-Nitroaniline	47.5	10	µg/L	50.0		95.1	40-140			
Nitrobenzene	44.0	10	µg/L	50.0		88.0	40-140			
2-Nitrophenol	43.5	10	µg/L	50.0		87.1	30-130			
4-Nitrophenol	21.2	10	µg/L	50.0		42.3	10-130			†
N-Nitrosodimethylamine	29.2	10	µg/L	50.0		58.5	40-140			
N-Nitrosodiphenylamine	58.1	10	µg/L	50.0		116	40-140			
N-Nitrosodi-n-propylamine	47.8	10	µg/L	50.0		95.6	40-140			
Pentachloronitrobenzene	46.3	10	µg/L	50.0		92.5	40-140			V-16
Pentachlorophenol	38.2	10	µg/L	50.0		76.5	30-130			
Phenanthrene	46.7	5.0	µg/L	50.0		93.4	40-140			
Phenol	18.8	10	µg/L	50.0		37.5	20-130			†
Pyrene	46.6	5.0	µg/L	50.0		93.2	40-140			
Pyridine	16.6	5.0	µg/L	50.0		33.1	10-140			†
1,2,4,5-Tetrachlorobenzene	45.4	10	µg/L	50.0		90.8	40-140			
1,2,4-Trichlorobenzene	42.6	5.0	µg/L	50.0		85.1	40-140			
2,4,5-Trichlorophenol	44.1	10	µg/L	50.0		88.1	30-130			
2,4,6-Trichlorophenol	43.2	10	µg/L	50.0		86.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200038 - SW-846 3510C										
LCS (B200038-BS1)										
					Prepared: 04/03/18 Analyzed: 04/05/18					
Surrogate: 2-Fluorophenol	117		µg/L	200		58.3	15-110			
Surrogate: Phenol-d6	79.1		µg/L	200		39.5	15-110			
Surrogate: Nitrobenzene-d5	93.1		µg/L	100		93.1	30-130			
Surrogate: 2-Fluorobiphenyl	83.2		µg/L	101		82.3	30-130			
Surrogate: 2,4,6-Tribromophenol	193		µg/L	200		96.5	15-110			
Surrogate: p-Terphenyl-d14	103		µg/L	101		102	30-130			
LCS Dup (B200038-BSD1)										
					Prepared: 04/03/18 Analyzed: 04/05/18					
Acenaphthene	42.7	5.0	µg/L	50.0		85.4	40-140	6.81	20	
Acenaphthylene	40.4	5.0	µg/L	50.0		80.7	40-140	8.50	20	
Acetophenone	42.5	10	µg/L	50.0		85.0	40-140	11.2	20	
Aniline	34.3	5.0	µg/L	50.0		68.5	40-140	11.9	50	‡
Anthracene	43.2	5.0	µg/L	50.0		86.4	40-140	8.42	20	
Benzdine	14.2	20	µg/L	50.0		28.4	* 40-140	43.0	* 20	L-07A, V-04, V-05, J
Benzo(a)anthracene	41.9	5.0	µg/L	50.0		83.8	40-140	9.85	20	
Benzo(a)pyrene	42.4	5.0	µg/L	50.0		84.8	40-140	9.25	20	
Benzo(b)fluoranthene	40.4	5.0	µg/L	50.0		80.7	40-140	7.94	20	
Benzo(g,h,i)perylene	40.3	5.0	µg/L	50.0		80.6	40-140	12.1	20	
Benzo(k)fluoranthene	44.5	5.0	µg/L	50.0		89.1	40-140	4.82	20	
Benzoic Acid	20.1	10	µg/L	50.0		40.3	10-130	2.50	50	‡ ‡
Bis(2-chloroethoxy)methane	47.8	10	µg/L	50.0		95.6	40-140	10.8	20	
Bis(2-chloroethyl)ether	42.7	10	µg/L	50.0		85.4	40-140	10.4	20	
Bis(2-chloroisopropyl)ether	46.3	10	µg/L	50.0		92.6	40-140	10.9	20	
Bis(2-Ethylhexyl)phthalate	42.4	10	µg/L	50.0		84.9	40-140	11.3	20	
4-Bromophenylphenylether	41.6	10	µg/L	50.0		83.3	40-140	10.4	20	
Butylbenzylphthalate	43.9	10	µg/L	50.0		87.7	40-140	11.1	20	
Carbazole	43.8	10	µg/L	50.0		87.6	40-140	7.62	20	
4-Chloroaniline	37.9	10	µg/L	50.0		75.7	40-140	9.20	20	V-34
4-Chloro-3-methylphenol	42.1	10	µg/L	50.0		84.1	30-130	7.92	20	
2-Chloronaphthalene	35.0	10	µg/L	50.0		69.9	40-140	17.2	20	
2-Chlorophenol	38.3	10	µg/L	50.0		76.6	30-130	9.50	20	
4-Chlorophenylphenylether	42.4	10	µg/L	50.0		84.8	40-140	8.43	20	
Chrysene	42.5	5.0	µg/L	50.0		85.0	40-140	10.2	20	
Dibenz(a,h)anthracene	39.5	5.0	µg/L	50.0		79.0	40-140	7.97	20	
Dibenzofuran	43.4	5.0	µg/L	50.0		86.8	40-140	7.82	20	
Di-n-butylphthalate	42.6	10	µg/L	50.0		85.3	40-140	8.10	20	
1,2-Dichlorobenzene	37.6	5.0	µg/L	50.0		75.2	40-140	10.3	20	
1,3-Dichlorobenzene	37.6	5.0	µg/L	50.0		75.3	40-140	9.42	20	
1,4-Dichlorobenzene	37.1	5.0	µg/L	50.0		74.2	40-140	10.3	20	
3,3-Dichlorobenzidine	46.1	10	µg/L	50.0		92.2	40-140	8.01	20	
2,4-Dichlorophenol	41.2	10	µg/L	50.0		82.4	30-130	9.90	20	
Diethylphthalate	42.6	10	µg/L	50.0		85.1	40-140	7.10	20	
2,4-Dimethylphenol	39.8	10	µg/L	50.0		79.6	30-130	11.2	20	
Dimethylphthalate	44.4	10	µg/L	50.0		88.7	40-140	5.67	50	‡
4,6-Dinitro-2-methylphenol	36.7	10	µg/L	50.0		73.3	30-130	8.09	50	‡
2,4-Dinitrophenol	37.3	10	µg/L	50.0		74.6	30-130	4.12	50	V-19 ‡
2,4-Dinitrotoluene	42.5	10	µg/L	50.0		84.9	40-140	5.21	20	
2,6-Dinitrotoluene	45.1	10	µg/L	50.0		90.2	40-140	5.54	20	
Di-n-octylphthalate	38.0	10	µg/L	50.0		76.0	40-140	6.09	20	
1,2-Diphenylhydrazine (as Azobenzene)	43.9	10	µg/L	50.0		87.8	40-140	9.86	20	
Fluoranthene	43.4	5.0	µg/L	50.0		86.7	40-140	7.23	20	
Fluorene	42.4	5.0	µg/L	50.0		84.9	40-140	7.27	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200038 - SW-846 3510C

LCS Dup (B200038-BSD1)

Prepared: 04/03/18 Analyzed: 04/05/18

Hexachlorobenzene	41.7	10	µg/L	50.0		83.5	40-140	9.78	20	
Hexachlorobutadiene	38.4	10	µg/L	50.0		76.8	40-140	9.43	20	
Hexachlorocyclopentadiene	36.6	10	µg/L	50.0		73.3	30-140	8.32	50	† ‡
Hexachloroethane	38.6	10	µg/L	50.0		77.1	40-140	11.7	50	‡
Indeno(1,2,3-cd)pyrene	35.1	5.0	µg/L	50.0		70.2	40-140	8.90	50	V-05 ‡
Isophorone	44.8	10	µg/L	50.0		89.6	40-140	9.06	20	
1-Methylnaphthalene	43.3	5.0	µg/L	50.0		86.6	40-140	10.4	20	
2-Methylnaphthalene	43.8	5.0	µg/L	50.0		87.6	40-140	9.40	20	
2-Methylphenol	30.8	10	µg/L	50.0		61.7	30-130	10.9	20	
3/4-Methylphenol	34.6	10	µg/L	50.0		69.2	30-130	6.68	20	
Naphthalene	41.0	5.0	µg/L	50.0		82.1	40-140	10.3	20	
2-Nitroaniline	43.7	10	µg/L	50.0		87.4	40-140	7.62	20	
3-Nitroaniline	42.0	10	µg/L	50.0		84.1	40-140	4.96	20	
4-Nitroaniline	45.5	10	µg/L	50.0		91.0	40-140	4.43	20	
Nitrobenzene	40.4	10	µg/L	50.0		80.8	40-140	8.48	20	
2-Nitrophenol	40.0	10	µg/L	50.0		79.9	30-130	8.53	20	
4-Nitrophenol	20.2	10	µg/L	50.0		40.4	10-130	4.64	50	† ‡
N-Nitrosodimethylamine	26.0	10	µg/L	50.0		51.9	40-140	11.9	20	
N-Nitrosodiphenylamine	52.3	10	µg/L	50.0		105	40-140	10.5	20	
N-Nitrosodi-n-propylamine	42.4	10	µg/L	50.0		84.7	40-140	12.0	20	
Pentachloronitrobenzene	41.2	10	µg/L	50.0		82.4	40-140	11.6	20	V-16
Pentachlorophenol	35.3	10	µg/L	50.0		70.6	30-130	7.97	50	‡
Phenanthrene	42.7	5.0	µg/L	50.0		85.3	40-140	9.08	20	
Phenol	16.6	10	µg/L	50.0		33.2	20-130	12.2	20	†
Pyrene	42.0	5.0	µg/L	50.0		84.1	40-140	10.4	20	
Pyridine	13.0	5.0	µg/L	50.0		26.0	10-140	24.1	50	† ‡
1,2,4,5-Tetrachlorobenzene	41.3	10	µg/L	50.0		82.5	40-140	9.53	20	
1,2,4-Trichlorobenzene	39.1	5.0	µg/L	50.0		78.2	40-140	8.45	20	
2,4,5-Trichlorophenol	40.1	10	µg/L	50.0		80.3	30-130	9.33	20	
2,4,6-Trichlorophenol	39.8	10	µg/L	50.0		79.6	30-130	8.17	50	‡
Surrogate: 2-Fluorophenol	105		µg/L	200		52.6	15-110			
Surrogate: Phenol-d6	70.6		µg/L	200		35.3	15-110			
Surrogate: Nitrobenzene-d5	83.6		µg/L	100		83.6	30-130			
Surrogate: 2-Fluorobiphenyl	75.4		µg/L	101		74.7	30-130			
Surrogate: 2,4,6-Tribromophenol	185		µg/L	200		92.4	15-110			
Surrogate: p-Terphenyl-d14	92.4		µg/L	101		91.5	30-130			

Batch B200096 - SW-846 3546

Blank (B200096-BLK1)

Prepared: 04/03/18 Analyzed: 04/05/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzdine	ND	0.66	mg/Kg wet							V-04, V-05, R-05
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200096 - SW-846 3546										
Blank (B200096-BLK1)				Prepared: 04/03/18 Analyzed: 04/05/18						
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							R-05, V-19
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							V-05
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200096 - SW-846 3546										
Blank (B200096-BLK1)				Prepared: 04/03/18 Analyzed: 04/05/18						
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	5.84		mg/Kg wet	6.67		87.7	30-130			
Surrogate: Phenol-d6	6.02		mg/Kg wet	6.67		90.3	30-130			
Surrogate: Nitrobenzene-d5	2.85		mg/Kg wet	3.33		85.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.50		mg/Kg wet	3.37		74.1	30-130			
Surrogate: 2,4,6-Tribromophenol	5.72		mg/Kg wet	6.67		85.7	30-130			
Surrogate: p-Terphenyl-d14	3.45		mg/Kg wet	3.37		102	30-130			
LCS (B200096-BS1)				Prepared: 04/03/18 Analyzed: 04/05/18						
Acenaphthene	1.21	0.17	mg/Kg wet	1.67		72.8	40-140			
Acenaphthylene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Acetophenone	1.28	0.34	mg/Kg wet	1.67		76.6	40-140			
Aniline	1.03	0.34	mg/Kg wet	1.67		61.6	10-140			†
Anthracene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140			
Benazidine	0.883	0.66	mg/Kg wet	1.67		53.0	40-140			R-05, V-04, V-05
Benzo(a)anthracene	1.26	0.17	mg/Kg wet	1.67		75.5	40-140			
Benzo(a)pyrene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140			
Benzo(b)fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140			
Benzo(g,h,i)perylene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140			
Benzo(k)fluoranthene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Benzoic Acid	0.550	1.0	mg/Kg wet	1.67		33.0	30-130			J
Bis(2-chloroethoxy)methane	1.44	0.34	mg/Kg wet	1.67		86.5	40-140			
Bis(2-chloroethyl)ether	1.33	0.34	mg/Kg wet	1.67		79.5	40-140			
Bis(2-chloroisopropyl)ether	1.37	0.34	mg/Kg wet	1.67		82.4	40-140			
Bis(2-Ethylhexyl)phthalate	1.28	0.34	mg/Kg wet	1.67		76.7	40-140			
4-Bromophenylphenylether	1.26	0.34	mg/Kg wet	1.67		75.6	40-140			
Butylbenzylphthalate	1.35	0.34	mg/Kg wet	1.67		80.8	40-140			
Carbazole	1.29	0.17	mg/Kg wet	1.67		77.3	40-140			
4-Chloroaniline	0.785	0.66	mg/Kg wet	1.67		47.1	10-140			V-34 †
4-Chloro-3-methylphenol	1.25	0.66	mg/Kg wet	1.67		75.1	30-130			
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.1	40-140			
2-Chlorophenol	1.22	0.34	mg/Kg wet	1.67		73.3	30-130			
4-Chlorophenylphenylether	1.27	0.34	mg/Kg wet	1.67		76.4	40-140			
Chrysene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140			
Dibenz(a,h)anthracene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Dibenzofuran	1.29	0.34	mg/Kg wet	1.67		77.3	40-140			
Di-n-butylphthalate	1.26	0.34	mg/Kg wet	1.67		75.6	40-140			
1,2-Dichlorobenzene	1.15	0.34	mg/Kg wet	1.67		68.9	40-140			
1,3-Dichlorobenzene	1.13	0.34	mg/Kg wet	1.67		67.9	40-140			
1,4-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.5	40-140			
3,3-Dichlorobenzidine	1.04	0.17	mg/Kg wet	1.67		62.6	20-140			†
2,4-Dichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.5	30-130			
Diethylphthalate	1.25	0.34	mg/Kg wet	1.67		74.9	40-140			
2,4-Dimethylphenol	1.14	0.34	mg/Kg wet	1.67		68.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200096 - SW-846 3546										
LCS (B200096-BS1)				Prepared: 04/03/18 Analyzed: 04/05/18						
Dimethylphthalate	1.30	0.34	mg/Kg wet	1.67		78.0	40-140			
4,6-Dinitro-2-methylphenol	1.05	0.34	mg/Kg wet	1.67		62.9	30-130			
2,4-Dinitrophenol	0.666	0.66	mg/Kg wet	1.67		39.9	30-130			R-05, V-19
2,4-Dinitrotoluene	1.23	0.34	mg/Kg wet	1.67		73.7	40-140			
2,6-Dinitrotoluene	1.30	0.34	mg/Kg wet	1.67		78.1	40-140			
Di-n-octylphthalate	1.14	0.34	mg/Kg wet	1.67		68.4	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.33	0.34	mg/Kg wet	1.67		79.8	40-140			
Fluoranthene	1.23	0.17	mg/Kg wet	1.67		74.1	40-140			
Fluorene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140			
Hexachlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.7	40-140			
Hexachlorobutadiene	1.18	0.34	mg/Kg wet	1.67		70.9	40-140			
Hexachlorocyclopentadiene	1.14	0.34	mg/Kg wet	1.67		68.4	40-140			
Hexachloroethane	1.18	0.34	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140			V-05
Isophorone	1.33	0.34	mg/Kg wet	1.67		79.8	40-140			
1-Methylnaphthalene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140			
2-Methylnaphthalene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140			
2-Methylphenol	1.10	0.34	mg/Kg wet	1.67		66.3	30-130			
3/4-Methylphenol	1.35	0.34	mg/Kg wet	1.67		80.9	30-130			
Naphthalene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140			
2-Nitroaniline	1.26	0.34	mg/Kg wet	1.67		75.6	40-140			
3-Nitroaniline	1.11	0.34	mg/Kg wet	1.67		66.5	30-140			†
4-Nitroaniline	1.28	0.34	mg/Kg wet	1.67		76.9	40-140			
Nitrobenzene	1.22	0.34	mg/Kg wet	1.67		73.3	40-140			
2-Nitrophenol	1.22	0.34	mg/Kg wet	1.67		73.4	30-130			
4-Nitrophenol	1.10	0.66	mg/Kg wet	1.67		66.0	30-130			
N-Nitrosodimethylamine	1.23	0.34	mg/Kg wet	1.67		73.8	40-140			
N-Nitrosodiphenylamine	1.58	0.34	mg/Kg wet	1.67		94.7	40-140			
N-Nitrosodi-n-propylamine	1.25	0.34	mg/Kg wet	1.67		74.7	40-140			
Pentachloronitrobenzene	1.27	0.34	mg/Kg wet	1.67		76.2	40-140			V-16
Pentachlorophenol	0.989	0.34	mg/Kg wet	1.67		59.3	30-130			
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140			
Phenol	1.28	0.34	mg/Kg wet	1.67		76.5	30-130			
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140			
Pyridine	1.04	0.34	mg/Kg wet	1.67		62.4	30-140			†
1,2,4,5-Tetrachlorobenzene	1.28	0.34	mg/Kg wet	1.67		76.8	40-140			
1,2,4-Trichlorobenzene	1.19	0.34	mg/Kg wet	1.67		71.3	40-140			
2,4,5-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.6	30-130			
2,4,6-Trichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.4	30-130			
Surrogate: 2-Fluorophenol	5.32		mg/Kg wet	6.67		79.9	30-130			
Surrogate: Phenol-d6	5.38		mg/Kg wet	6.67		80.7	30-130			
Surrogate: Nitrobenzene-d5	2.57		mg/Kg wet	3.33		77.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.30		mg/Kg wet	3.37		68.2	30-130			
Surrogate: 2,4,6-Tribromophenol	5.28		mg/Kg wet	6.67		79.3	30-130			
Surrogate: p-Terphenyl-d14	2.88		mg/Kg wet	3.37		85.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200096 - SW-846 3546										
LCS Dup (B200096-BSD1)										
Prepared: 04/03/18 Analyzed: 04/05/18										
Acenaphthene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140	10.7	30	
Acenaphthylene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140	12.0	30	
Acetophenone	1.41	0.34	mg/Kg wet	1.67		84.8	40-140	10.1	30	
Aniline	1.17	0.34	mg/Kg wet	1.67		70.2	10-140	13.0	50	† ‡
Anthracene	1.45	0.17	mg/Kg wet	1.67		86.7	40-140	11.6	30	
Benzidine	1.21	0.66	mg/Kg wet	1.67		72.4	40-140	31.0 *	30	R-05, V-04, V-05
Benzo(a)anthracene	1.44	0.17	mg/Kg wet	1.67		86.3	40-140	13.3	30	
Benzo(a)pyrene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140	11.8	30	
Benzo(b)fluoranthene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140	11.8	30	
Benzo(g,h,i)perylene	1.41	0.17	mg/Kg wet	1.67		84.4	40-140	13.0	30	
Benzo(k)fluoranthene	1.48	0.17	mg/Kg wet	1.67		88.6	40-140	11.0	30	
Benzoic Acid	0.413	1.0	mg/Kg wet	1.67		24.8 *	30-130	28.4	50	L-07, J ‡
Bis(2-chloroethoxy)methane	1.64	0.34	mg/Kg wet	1.67		98.3	40-140	12.7	30	
Bis(2-chloroethyl)ether	1.49	0.34	mg/Kg wet	1.67		89.4	40-140	11.7	30	
Bis(2-chloroisopropyl)ether	1.55	0.34	mg/Kg wet	1.67		92.8	40-140	11.9	30	
Bis(2-Ethylhexyl)phthalate	1.43	0.34	mg/Kg wet	1.67		85.6	40-140	10.9	30	
4-Bromophenylphenylether	1.43	0.34	mg/Kg wet	1.67		85.7	40-140	12.5	30	
Butylbenzylphthalate	1.52	0.34	mg/Kg wet	1.67		91.2	40-140	12.1	30	
Carbazole	1.46	0.17	mg/Kg wet	1.67		87.7	40-140	12.7	30	
4-Chloroaniline	0.990	0.66	mg/Kg wet	1.67		59.4	10-140	23.1	30	V-34 †
4-Chloro-3-methylphenol	1.45	0.66	mg/Kg wet	1.67		86.8	30-130	14.4	30	
2-Chloronaphthalene	1.30	0.34	mg/Kg wet	1.67		78.0	40-140	19.6	30	
2-Chlorophenol	1.38	0.34	mg/Kg wet	1.67		82.5	30-130	11.9	30	
4-Chlorophenylphenylether	1.41	0.34	mg/Kg wet	1.67		84.9	40-140	10.4	30	
Chrysene	1.43	0.17	mg/Kg wet	1.67		85.8	40-140	11.4	30	
Dibenz(a,h)anthracene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140	7.74	30	
Dibenzofuran	1.43	0.34	mg/Kg wet	1.67		85.8	40-140	10.4	30	
Di-n-butylphthalate	1.42	0.34	mg/Kg wet	1.67		85.2	40-140	11.9	30	
1,2-Dichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.2	40-140	11.4	30	
1,3-Dichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.8	40-140	10.9	30	
1,4-Dichlorobenzene	1.27	0.34	mg/Kg wet	1.67		76.4	40-140	13.8	30	
3,3-Dichlorobenzidine	1.24	0.17	mg/Kg wet	1.67		74.7	20-140	17.7	50	† ‡
2,4-Dichlorophenol	1.41	0.34	mg/Kg wet	1.67		84.8	30-130	12.8	30	
Diethylphthalate	1.41	0.34	mg/Kg wet	1.67		84.8	40-140	12.4	30	
2,4-Dimethylphenol	1.34	0.34	mg/Kg wet	1.67		80.5	30-130	16.5	30	
Dimethylphthalate	1.45	0.34	mg/Kg wet	1.67		86.8	40-140	10.6	30	
4,6-Dinitro-2-methylphenol	0.964	0.34	mg/Kg wet	1.67		57.9	30-130	8.28	30	
2,4-Dinitrophenol	0.421	0.66	mg/Kg wet	1.67		25.3 *	30-130	45.0 *	30	L-07A, V-19, J
2,4-Dinitrotoluene	1.36	0.34	mg/Kg wet	1.67		81.8	40-140	10.4	30	
2,6-Dinitrotoluene	1.45	0.34	mg/Kg wet	1.67		87.3	40-140	11.1	30	
Di-n-octylphthalate	1.29	0.34	mg/Kg wet	1.67		77.2	40-140	12.1	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.49	0.34	mg/Kg wet	1.67		89.3	40-140	11.2	30	
Fluoranthene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140	13.8	30	
Fluorene	1.40	0.17	mg/Kg wet	1.67		84.2	40-140	12.1	30	
Hexachlorobenzene	1.40	0.34	mg/Kg wet	1.67		83.8	40-140	10.2	30	
Hexachlorobutadiene	1.36	0.34	mg/Kg wet	1.67		81.6	40-140	14.1	30	
Hexachlorocyclopentadiene	1.25	0.34	mg/Kg wet	1.67		74.8	40-140	8.94	30	
Hexachloroethane	1.33	0.34	mg/Kg wet	1.67		79.6	40-140	12.0	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	10.5	30	V-05
Isophorone	1.49	0.34	mg/Kg wet	1.67		89.4	40-140	11.4	30	
1-Methylnaphthalene	1.48	0.17	mg/Kg wet	1.67		88.8	40-140	12.2	30	
2-Methylnaphthalene	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	12.8	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200096 - SW-846 3546										
LCS Dup (B200096-BSD1)					Prepared: 04/03/18 Analyzed: 04/05/18					
2-Methylphenol	1.23	0.34	mg/Kg wet	1.67		73.8	30-130	10.8	30	
3/4-Methylphenol	1.46	0.34	mg/Kg wet	1.67		87.9	30-130	8.27	30	
Naphthalene	1.41	0.17	mg/Kg wet	1.67		84.8	40-140	12.3	30	
2-Nitroaniline	1.44	0.34	mg/Kg wet	1.67		86.1	40-140	13.0	30	
3-Nitroaniline	1.32	0.34	mg/Kg wet	1.67		78.9	30-140	17.1	30	†
4-Nitroaniline	1.45	0.34	mg/Kg wet	1.67		87.1	40-140	12.4	30	
Nitrobenzene	1.39	0.34	mg/Kg wet	1.67		83.5	40-140	13.0	30	
2-Nitrophenol	1.39	0.34	mg/Kg wet	1.67		83.3	30-130	12.7	30	
4-Nitrophenol	1.28	0.66	mg/Kg wet	1.67		76.6	30-130	14.8	50	‡
N-Nitrosodimethylamine	1.40	0.34	mg/Kg wet	1.67		84.2	40-140	13.3	30	
N-Nitrosodiphenylamine	1.79	0.34	mg/Kg wet	1.67		107	40-140	12.4	30	
N-Nitrosodi-n-propylamine	1.41	0.34	mg/Kg wet	1.67		84.4	40-140	12.1	30	
Pentachloronitrobenzene	1.38	0.34	mg/Kg wet	1.67		83.1	40-140	8.59	30	V-16
Pentachlorophenol	1.03	0.34	mg/Kg wet	1.67		61.6	30-130	3.74	30	
Phenanthrene	1.45	0.17	mg/Kg wet	1.67		86.9	40-140	12.3	30	
Phenol	1.42	0.34	mg/Kg wet	1.67		85.5	30-130	11.1	30	
Pyrene	1.48	0.17	mg/Kg wet	1.67		89.0	40-140	12.3	30	
Pyridine	1.20	0.34	mg/Kg wet	1.67		71.9	30-140	14.1	30	†
1,2,4,5-Tetrachlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	8.22	30	
1,2,4-Trichlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.5	40-140	13.3	30	
2,4,5-Trichlorophenol	1.35	0.34	mg/Kg wet	1.67		80.8	30-130	16.3	30	
2,4,6-Trichlorophenol	1.33	0.34	mg/Kg wet	1.67		80.0	30-130	11.3	30	
Surrogate: 2-Fluorophenol	5.82		mg/Kg wet	6.67		87.3	30-130			
Surrogate: Phenol-d6	5.93		mg/Kg wet	6.67		89.0	30-130			
Surrogate: Nitrobenzene-d5	2.90		mg/Kg wet	3.33		86.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.52		mg/Kg wet	3.37		75.0	30-130			
Surrogate: 2,4,6-Tribromophenol	5.89		mg/Kg wet	6.67		88.3	30-130			
Surrogate: p-Terphenyl-d14	3.23		mg/Kg wet	3.37		95.8	30-130			
Matrix Spike (B200096-MS1)					Source: 18D0057-06		Prepared: 04/03/18 Analyzed: 04/05/18			
Acenaphthene	1.56	0.20	mg/Kg dry	1.95	ND	80.2	40-140			
Acenaphthylene	1.52	0.20	mg/Kg dry	1.95	ND	78.0	40-140			
Acetophenone	1.54	0.40	mg/Kg dry	1.95	ND	78.9	40-140			
Aniline	0.608	0.40	mg/Kg dry	1.95	ND	31.2	* 40-140			MS-09
Anthracene	1.61	0.20	mg/Kg dry	1.95	ND	82.4	40-140			
Benzidine	ND	0.77	mg/Kg dry	1.95	ND	*	40-140			MS-07A, R-05, V-04, V-05
Benzo(a)anthracene	1.69	0.20	mg/Kg dry	1.95	0.107	81.5	40-140			
Benzo(a)pyrene	1.73	0.20	mg/Kg dry	1.95	0.106	83.6	40-140			
Benzo(b)fluoranthene	1.69	0.20	mg/Kg dry	1.95	0.144	79.3	40-140			
Benzo(g,h,i)perylene	1.36	0.20	mg/Kg dry	1.95	ND	69.8	40-140			
Benzo(k)fluoranthene	1.70	0.20	mg/Kg dry	1.95	ND	87.5	40-140			
Benzoic Acid	1.51	1.2	mg/Kg dry	1.95	ND	77.7	40-140			
Bis(2-chloroethoxy)methane	1.77	0.40	mg/Kg dry	1.95	ND	90.7	40-140			
Bis(2-chloroethyl)ether	1.56	0.40	mg/Kg dry	1.95	ND	80.3	40-140			
Bis(2-chloroisopropyl)ether	1.65	0.40	mg/Kg dry	1.95	ND	84.6	40-140			
Bis(2-Ethylhexyl)phthalate	1.74	0.40	mg/Kg dry	1.95	ND	89.5	40-140			
4-Bromophenylphenylether	1.59	0.40	mg/Kg dry	1.95	ND	81.9	40-140			
Butylbenzylphthalate	1.68	0.40	mg/Kg dry	1.95	ND	86.4	40-140			
Carbazole	1.60	0.20	mg/Kg dry	1.95	ND	82.4	40-140			
4-Chloroaniline	0.712	0.77	mg/Kg dry	1.95	ND	36.6	* 40-140			MS-09, V-34, J
4-Chloro-3-methylphenol	1.64	0.77	mg/Kg dry	1.95	ND	84.0	30-130			
2-Chloronaphthalene	1.34	0.40	mg/Kg dry	1.95	ND	68.8	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200096 - SW-846 3546										
Matrix Spike (B200096-MS1)	Source: 18D0057-06			Prepared: 04/03/18 Analyzed: 04/05/18						
2-Chlorophenol	1.48	0.40	mg/Kg dry	1.95	ND	75.8	30-130			
4-Chlorophenylphenylether	1.62	0.40	mg/Kg dry	1.95	ND	82.9	40-140			
Chrysene	1.66	0.20	mg/Kg dry	1.95	0.118	79.0	40-140			
Dibenz(a,h)anthracene	1.34	0.20	mg/Kg dry	1.95	ND	69.0	40-140			
Dibenzofuran	1.65	0.40	mg/Kg dry	1.95	ND	84.6	40-140			
Di-n-butylphthalate	1.64	0.40	mg/Kg dry	1.95	ND	84.0	40-140			
1,2-Dichlorobenzene	1.37	0.40	mg/Kg dry	1.95	ND	70.2	40-140			
1,3-Dichlorobenzene	1.32	0.40	mg/Kg dry	1.95	ND	67.7	40-140			
1,4-Dichlorobenzene	1.32	0.40	mg/Kg dry	1.95	ND	67.8	40-140			
3,3-Dichlorobenzidine	0.558	0.20	mg/Kg dry	1.95	ND	28.6	* 40-140			MS-09
2,4-Dichlorophenol	1.62	0.40	mg/Kg dry	1.95	ND	83.3	30-130			
Diethylphthalate	1.63	0.40	mg/Kg dry	1.95	ND	83.5	40-140			
2,4-Dimethylphenol	1.55	0.40	mg/Kg dry	1.95	ND	79.8	30-130			
Dimethylphthalate	1.67	0.40	mg/Kg dry	1.95	ND	85.7	40-140			
4,6-Dinitro-2-methylphenol	1.07	0.40	mg/Kg dry	1.95	ND	54.7	30-130			
2,4-Dinitrophenol	0.975	0.77	mg/Kg dry	1.95	ND	50.0	30-130			V-19
2,4-Dinitrotoluene	1.56	0.40	mg/Kg dry	1.95	ND	80.1	40-140			
2,6-Dinitrotoluene	1.67	0.40	mg/Kg dry	1.95	ND	85.8	40-140			
Di-n-octylphthalate	1.95	0.40	mg/Kg dry	1.95	ND	100	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.64	0.40	mg/Kg dry	1.95	ND	84.4	40-140			
Fluoranthene	1.84	0.20	mg/Kg dry	1.95	0.159	86.4	40-140			
Fluorene	1.58	0.20	mg/Kg dry	1.95	ND	81.2	40-140			
Hexachlorobenzene	1.56	0.40	mg/Kg dry	1.95	ND	79.9	40-140			
Hexachlorobutadiene	1.39	0.40	mg/Kg dry	1.95	ND	71.1	40-140			
Hexachlorocyclopentadiene	0.577	0.40	mg/Kg dry	1.95	ND	29.6	* 30-130			MS-09
Hexachloroethane	1.32	0.40	mg/Kg dry	1.95	ND	67.6	40-140			
Indeno(1,2,3-cd)pyrene	1.41	0.20	mg/Kg dry	1.95	ND	72.6	40-140			V-05
Isophorone	1.65	0.40	mg/Kg dry	1.95	ND	84.6	40-140			
1-Methylnaphthalene	1.64	0.20	mg/Kg dry	1.95	ND	84.2	40-140			
2-Methylnaphthalene	1.65	0.20	mg/Kg dry	1.95	ND	84.8	40-140			
2-Methylphenol	1.51	0.40	mg/Kg dry	1.95	ND	77.4	30-130			
3/4-Methylphenol	1.61	0.40	mg/Kg dry	1.95	ND	82.8	30-130			
Naphthalene	1.55	0.20	mg/Kg dry	1.95	ND	79.5	40-140			
2-Nitroaniline	1.62	0.40	mg/Kg dry	1.95	ND	83.1	40-140			
3-Nitroaniline	1.24	0.40	mg/Kg dry	1.95	ND	63.5	40-140			
4-Nitroaniline	1.37	0.40	mg/Kg dry	1.95	ND	70.3	40-140			
Nitrobenzene	1.51	0.40	mg/Kg dry	1.95	ND	77.4	40-140			
2-Nitrophenol	1.52	0.40	mg/Kg dry	1.95	ND	77.8	30-130			
4-Nitrophenol	1.60	0.77	mg/Kg dry	1.95	ND	82.0	30-130			
N-Nitrosodimethylamine	1.41	0.40	mg/Kg dry	1.95	ND	72.4	40-140			
N-Nitrosodiphenylamine	1.96	0.40	mg/Kg dry	1.95	ND	100	40-140			
N-Nitrosodi-n-propylamine	1.53	0.40	mg/Kg dry	1.95	ND	78.5	40-140			
Pentachloronitrobenzene	1.58	0.40	mg/Kg dry	1.95	ND	81.1	40-140			V-16
Pentachlorophenol	1.18	0.40	mg/Kg dry	1.95	ND	60.8	30-130			
Phenanthrene	1.70	0.20	mg/Kg dry	1.95	ND	87.5	40-140			
Phenol	1.61	0.40	mg/Kg dry	1.95	ND	82.7	30-130			
Pyrene	1.71	0.20	mg/Kg dry	1.95	0.146	80.2	40-140			
Pyridine	0.973	0.40	mg/Kg dry	1.95	ND	49.9	40-140			
1,2,4,5-Tetrachlorobenzene	1.59	0.40	mg/Kg dry	1.95	ND	81.4	40-140			
1,2,4-Trichlorobenzene	1.45	0.40	mg/Kg dry	1.95	ND	74.7	40-140			
2,4,5-Trichlorophenol	1.61	0.40	mg/Kg dry	1.95	ND	82.7	30-130			
2,4,6-Trichlorophenol	1.55	0.40	mg/Kg dry	1.95	ND	79.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200096 - SW-846 3546										
Matrix Spike (B200096-MS1)		Source: 18D0057-06		Prepared: 04/03/18 Analyzed: 04/05/18						
Surrogate: 2-Fluorophenol	6.41		mg/Kg dry	7.79		82.2	30-130			
Surrogate: Phenol-d6	6.46		mg/Kg dry	7.79		82.9	30-130			
Surrogate: Nitrobenzene-d5	3.17		mg/Kg dry	3.90		81.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.91		mg/Kg dry	3.93		73.9	30-130			
Surrogate: 2,4,6-Tribromophenol	6.57		mg/Kg dry	7.79		84.3	30-130			
Surrogate: p-Terphenyl-d14	3.42		mg/Kg dry	3.93		86.9	30-130			
Matrix Spike Dup (B200096-MSD1)		Source: 18D0057-06		Prepared: 04/03/18 Analyzed: 04/05/18						
Acenaphthene	1.42	0.20	mg/Kg dry	1.95	ND	73.1	40-140	9.27	30	
Acenaphthylene	1.35	0.20	mg/Kg dry	1.95	ND	69.3	40-140	11.9	30	
Acetophenone	1.34	0.40	mg/Kg dry	1.95	ND	68.8	40-140	13.6	30	
Aniline	0.557	0.40	mg/Kg dry	1.95	ND	28.6	* 40-140	8.69	30	MS-09
Anthracene	1.45	0.20	mg/Kg dry	1.95	ND	74.4	40-140	10.3	30	
Benzidine	ND	0.77	mg/Kg dry	1.95	ND	*	40-140	NC	30	MS-07A, R-05, V-04, V-05
Benzo(a)anthracene	1.58	0.20	mg/Kg dry	1.95	0.107	75.5	40-140	7.19	30	
Benzo(a)pyrene	1.57	0.20	mg/Kg dry	1.95	0.106	75.0	40-140	10.2	30	
Benzo(b)fluoranthene	1.54	0.20	mg/Kg dry	1.95	0.144	71.8	40-140	9.06	30	
Benzo(g,h,i)perylene	1.32	0.20	mg/Kg dry	1.95	ND	67.9	40-140	2.82	30	
Benzo(k)fluoranthene	1.52	0.20	mg/Kg dry	1.95	ND	78.2	40-140	11.2	30	
Benzoic Acid	1.36	1.2	mg/Kg dry	1.95	ND	69.6	40-140	11.0	30	
Bis(2-chloroethoxy)methane	1.59	0.40	mg/Kg dry	1.95	ND	81.7	40-140	10.4	30	
Bis(2-chloroethyl)ether	1.40	0.40	mg/Kg dry	1.95	ND	71.7	40-140	11.4	30	
Bis(2-chloroisopropyl)ether	1.45	0.40	mg/Kg dry	1.95	ND	74.3	40-140	12.9	30	
Bis(2-Ethylhexyl)phthalate	1.64	0.40	mg/Kg dry	1.95	ND	84.3	40-140	5.94	30	
4-Bromophenylphenylether	1.43	0.40	mg/Kg dry	1.95	ND	73.3	40-140	11.1	30	
Butylbenzylphthalate	1.57	0.40	mg/Kg dry	1.95	ND	80.4	40-140	7.12	30	
Carbazole	1.46	0.20	mg/Kg dry	1.95	ND	75.1	40-140	9.27	30	
4-Chloroaniline	0.720	0.77	mg/Kg dry	1.95	ND	37.0	* 40-140	1.09	30	MS-09, V-34, J
4-Chloro-3-methylphenol	1.41	0.77	mg/Kg dry	1.95	ND	72.5	30-130	14.7	30	
2-Chloronaphthalene	1.25	0.40	mg/Kg dry	1.95	ND	64.2	40-140	6.95	30	
2-Chlorophenol	1.34	0.40	mg/Kg dry	1.95	ND	68.9	30-130	9.46	30	
4-Chlorophenylphenylether	1.41	0.40	mg/Kg dry	1.95	ND	72.6	40-140	13.3	30	
Chrysene	1.54	0.20	mg/Kg dry	1.95	0.118	73.1	40-140	7.11	30	
Dibenz(a,h)anthracene	1.29	0.20	mg/Kg dry	1.95	ND	66.1	40-140	4.27	30	
Dibenzofuran	1.47	0.40	mg/Kg dry	1.95	ND	75.6	40-140	11.2	30	
Di-n-butylphthalate	1.49	0.40	mg/Kg dry	1.95	ND	76.6	40-140	9.12	30	
1,2-Dichlorobenzene	1.15	0.40	mg/Kg dry	1.95	ND	59.0	40-140	17.3	30	
1,3-Dichlorobenzene	1.12	0.40	mg/Kg dry	1.95	ND	57.5	40-140	16.2	30	
1,4-Dichlorobenzene	1.13	0.40	mg/Kg dry	1.95	ND	58.1	40-140	15.4	30	
3,3-Dichlorobenzidine	0.617	0.20	mg/Kg dry	1.95	ND	31.7	* 40-140	10.0	30	MS-09
2,4-Dichlorophenol	1.41	0.40	mg/Kg dry	1.95	ND	72.6	30-130	13.8	30	
Diethylphthalate	1.44	0.40	mg/Kg dry	1.95	ND	74.1	40-140	11.9	30	
2,4-Dimethylphenol	1.36	0.40	mg/Kg dry	1.95	ND	70.0	30-130	13.1	30	
Dimethylphthalate	1.50	0.40	mg/Kg dry	1.95	ND	77.1	40-140	10.5	30	
4,6-Dinitro-2-methylphenol	0.981	0.40	mg/Kg dry	1.95	ND	50.4	30-130	8.30	30	
2,4-Dinitrophenol	0.933	0.77	mg/Kg dry	1.95	ND	47.9	30-130	4.41	30	V-19
2,4-Dinitrotoluene	1.37	0.40	mg/Kg dry	1.95	ND	70.5	40-140	12.8	30	
2,6-Dinitrotoluene	1.49	0.40	mg/Kg dry	1.95	ND	76.7	40-140	11.2	30	
Di-n-octylphthalate	1.83	0.40	mg/Kg dry	1.95	ND	93.7	40-140	6.74	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.51	0.40	mg/Kg dry	1.95	ND	77.8	40-140	8.24	30	
Fluoranthene	1.68	0.20	mg/Kg dry	1.95	0.159	78.3	40-140	8.88	30	
Fluorene	1.40	0.20	mg/Kg dry	1.95	ND	72.1	40-140	11.9	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200096 - SW-846 3546										
Matrix Spike Dup (B200096-MSD1)		Source: 18D0057-06		Prepared: 04/03/18 Analyzed: 04/05/18						
Hexachlorobenzene	1.43	0.40	mg/Kg dry	1.95	ND	73.4	40-140	8.46	30	
Hexachlorobutadiene	1.25	0.40	mg/Kg dry	1.95	ND	64.3	40-140	10.1	30	
Hexachlorocyclopentadiene	0.489	0.40	mg/Kg dry	1.95	ND	25.1	* 30-130	16.4	30	MS-09
Hexachloroethane	1.13	0.40	mg/Kg dry	1.95	ND	57.9	40-140	15.5	30	
Indeno(1,2,3-cd)pyrene	1.40	0.20	mg/Kg dry	1.95	ND	71.8	40-140	1.08	30	V-05
Isophorone	1.46	0.40	mg/Kg dry	1.95	ND	75.1	40-140	11.9	30	
1-Methylnaphthalene	1.43	0.20	mg/Kg dry	1.95	ND	73.4	40-140	13.8	30	
2-Methylnaphthalene	1.43	0.20	mg/Kg dry	1.95	ND	73.6	40-140	14.1	30	
2-Methylphenol	1.42	0.40	mg/Kg dry	1.95	ND	72.9	30-130	6.04	30	
3/4-Methylphenol	1.41	0.40	mg/Kg dry	1.95	ND	72.1	30-130	13.7	30	
Naphthalene	1.34	0.20	mg/Kg dry	1.95	ND	68.6	40-140	14.7	30	
2-Nitroaniline	1.47	0.40	mg/Kg dry	1.95	ND	75.5	40-140	9.61	30	
3-Nitroaniline	1.16	0.40	mg/Kg dry	1.95	ND	59.4	40-140	6.77	30	
4-Nitroaniline	1.20	0.40	mg/Kg dry	1.95	ND	61.5	40-140	13.4	30	
Nitrobenzene	1.32	0.40	mg/Kg dry	1.95	ND	68.0	40-140	13.0	30	
2-Nitrophenol	1.33	0.40	mg/Kg dry	1.95	ND	68.5	30-130	12.8	30	
4-Nitrophenol	1.40	0.77	mg/Kg dry	1.95	ND	72.0	30-130	13.0	30	
N-Nitrosodimethylamine	1.21	0.40	mg/Kg dry	1.95	ND	62.1	40-140	15.3	30	
N-Nitrosodiphenylamine	1.78	0.40	mg/Kg dry	1.95	ND	91.3	40-140	9.55	30	
N-Nitrosodi-n-propylamine	1.35	0.40	mg/Kg dry	1.95	ND	69.4	40-140	12.3	30	
Pentachloronitrobenzene	1.35	0.40	mg/Kg dry	1.95	ND	69.2	40-140	15.8	30	V-16
Pentachlorophenol	0.924	0.40	mg/Kg dry	1.95	ND	47.4	30-130	24.7	30	
Phenanthrene	1.53	0.20	mg/Kg dry	1.95	ND	78.7	40-140	10.6	30	
Phenol	1.45	0.40	mg/Kg dry	1.95	ND	74.5	30-130	10.5	30	
Pyrene	1.61	0.20	mg/Kg dry	1.95	0.146	75.2	40-140	5.87	30	
Pyridine	0.788	0.40	mg/Kg dry	1.95	ND	40.5	40-140	21.0	30	
1,2,4,5-Tetrachlorobenzene	1.41	0.40	mg/Kg dry	1.95	ND	72.3	40-140	11.8	30	
1,2,4-Trichlorobenzene	1.25	0.40	mg/Kg dry	1.95	ND	64.2	40-140	15.0	30	
2,4,5-Trichlorophenol	1.45	0.40	mg/Kg dry	1.95	ND	74.3	30-130	10.8	30	
2,4,6-Trichlorophenol	1.39	0.40	mg/Kg dry	1.95	ND	71.4	30-130	10.5	30	
Surrogate: 2-Fluorophenol	5.58		mg/Kg dry	7.79		71.7	30-130			
Surrogate: Phenol-d6	5.78		mg/Kg dry	7.79		74.2	30-130			
Surrogate: Nitrobenzene-d5	2.73		mg/Kg dry	3.90		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.59		mg/Kg dry	3.93		65.7	30-130			
Surrogate: 2,4,6-Tribromophenol	5.74		mg/Kg dry	7.79		73.7	30-130			
Surrogate: p-Terphenyl-d14	3.11		mg/Kg dry	3.93		79.1	30-130			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200110 - SW-846 3546
Blank (B200110-BLK1)

Prepared: 04/03/18 Analyzed: 04/05/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.133		mg/Kg wet	0.200		66.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.136		mg/Kg wet	0.200		68.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.123		mg/Kg wet	0.200		61.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.135		mg/Kg wet	0.200		67.4	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200110 - SW-846 3546										
LCS (B200110-BS1)					Prepared: 04/03/18 Analyzed: 04/05/18					
alpha-Chlordane	0.067	0.0050	mg/Kg wet	0.100		66.7	40-140			
alpha-Chlordane [2C]	0.063	0.0050	mg/Kg wet	0.100		63.3	40-140			
gamma-Chlordane	0.063	0.0050	mg/Kg wet	0.100		63.1	40-140			
gamma-Chlordane [2C]	0.064	0.0050	mg/Kg wet	0.100		63.9	40-140			
Alachlor	0.062	0.020	mg/Kg wet	0.100		62.3	40-140			
Alachlor [2C]	0.069	0.020	mg/Kg wet	0.100		68.6	40-140			
Aldrin	0.064	0.0050	mg/Kg wet	0.100		64.2	40-140			
Aldrin [2C]	0.067	0.0050	mg/Kg wet	0.100		66.6	40-140			
alpha-BHC	0.055	0.0050	mg/Kg wet	0.100		54.5	40-140			
alpha-BHC [2C]	0.062	0.0050	mg/Kg wet	0.100		61.6	40-140			
beta-BHC	0.056	0.0050	mg/Kg wet	0.100		56.1	40-140			
beta-BHC [2C]	0.055	0.0050	mg/Kg wet	0.100		55.1	40-140			
delta-BHC	0.058	0.0050	mg/Kg wet	0.100		57.9	40-140			
delta-BHC [2C]	0.063	0.0050	mg/Kg wet	0.100		62.9	40-140			
gamma-BHC (Lindane)	0.058	0.0020	mg/Kg wet	0.100		57.5	40-140			
gamma-BHC (Lindane) [2C]	0.063	0.0020	mg/Kg wet	0.100		63.5	40-140			
4,4'-DDD	0.070	0.0040	mg/Kg wet	0.100		70.2	40-140			
4,4'-DDD [2C]	0.071	0.0040	mg/Kg wet	0.100		71.3	40-140			
4,4'-DDE	0.068	0.0040	mg/Kg wet	0.100		68.4	40-140			
4,4'-DDE [2C]	0.067	0.0040	mg/Kg wet	0.100		66.5	40-140			
4,4'-DDT	0.069	0.0040	mg/Kg wet	0.100		69.1	40-140			
4,4'-DDT [2C]	0.063	0.0040	mg/Kg wet	0.100		62.7	40-140			
Dieldrin	0.070	0.0040	mg/Kg wet	0.100		70.0	40-140			
Dieldrin [2C]	0.067	0.0040	mg/Kg wet	0.100		67.5	40-140			
Endosulfan I	0.066	0.0050	mg/Kg wet	0.100		66.4	40-140			
Endosulfan I [2C]	0.064	0.0050	mg/Kg wet	0.100		64.1	40-140			
Endosulfan II	0.068	0.0080	mg/Kg wet	0.100		68.2	40-140			
Endosulfan II [2C]	0.065	0.0080	mg/Kg wet	0.100		65.4	40-140			
Endosulfan Sulfate	0.066	0.0080	mg/Kg wet	0.100		65.9	40-140			
Endosulfan Sulfate [2C]	0.065	0.0080	mg/Kg wet	0.100		64.6	40-140			
Endrin	0.072	0.0080	mg/Kg wet	0.100		71.6	40-140			
Endrin [2C]	0.067	0.0080	mg/Kg wet	0.100		67.0	40-140			
Endrin Aldehyde	0.071	0.0080	mg/Kg wet	0.100		70.8	40-140			
Endrin Aldehyde [2C]	0.071	0.0080	mg/Kg wet	0.100		71.0	40-140			
Endrin Ketone	0.057	0.0080	mg/Kg wet	0.100		56.7	40-140			
Endrin Ketone [2C]	0.056	0.0080	mg/Kg wet	0.100		56.4	40-140			
Heptachlor	0.048	0.0050	mg/Kg wet	0.100		47.9	40-140			
Heptachlor [2C]	0.066	0.0050	mg/Kg wet	0.100		65.9	40-140			
Heptachlor Epoxide	0.065	0.0050	mg/Kg wet	0.100		64.9	40-140			
Heptachlor Epoxide [2C]	0.064	0.0050	mg/Kg wet	0.100		64.3	40-140			
Hexachlorobenzene	0.064	0.0060	mg/Kg wet	0.100		63.8	40-140			
Hexachlorobenzene [2C]	0.069	0.0060	mg/Kg wet	0.100		69.1	40-140			
Methoxychlor	0.070	0.050	mg/Kg wet	0.100		70.0	40-140			
Methoxychlor [2C]	0.077	0.050	mg/Kg wet	0.100		76.5	40-140			
Surrogate: Decachlorobiphenyl	0.137		mg/Kg wet	0.200		68.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.141		mg/Kg wet	0.200		70.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.120		mg/Kg wet	0.200		60.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.137		mg/Kg wet	0.200		68.4	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200110 - SW-846 3546										
LCS Dup (B200110-BSD1)					Prepared: 04/03/18 Analyzed: 04/05/18					
alpha-Chlordane	0.066	0.0050	mg/Kg wet	0.100		66.3	40-140	0.647	30	
alpha-Chlordane [2C]	0.065	0.0050	mg/Kg wet	0.100		64.9	40-140	2.49	30	
gamma-Chlordane	0.063	0.0050	mg/Kg wet	0.100		63.5	40-140	0.591	30	
gamma-Chlordane [2C]	0.065	0.0050	mg/Kg wet	0.100		64.7	40-140	1.29	30	
Alachlor	0.065	0.020	mg/Kg wet	0.100		64.9	40-140	3.99	30	
Alachlor [2C]	0.067	0.020	mg/Kg wet	0.100		67.1	40-140	2.13	30	
Aldrin	0.064	0.0050	mg/Kg wet	0.100		64.2	40-140	0.0125	30	
Aldrin [2C]	0.066	0.0050	mg/Kg wet	0.100		65.8	40-140	1.13	30	
alpha-BHC	0.057	0.0050	mg/Kg wet	0.100		56.9	40-140	4.19	30	
alpha-BHC [2C]	0.062	0.0050	mg/Kg wet	0.100		62.4	40-140	1.34	30	
beta-BHC	0.057	0.0050	mg/Kg wet	0.100		56.7	40-140	1.04	30	
beta-BHC [2C]	0.056	0.0050	mg/Kg wet	0.100		56.3	40-140	2.07	30	
delta-BHC	0.060	0.0050	mg/Kg wet	0.100		59.5	40-140	2.81	30	
delta-BHC [2C]	0.065	0.0050	mg/Kg wet	0.100		64.8	40-140	3.09	30	
gamma-BHC (Lindane)	0.060	0.0020	mg/Kg wet	0.100		59.9	40-140	4.02	30	
gamma-BHC (Lindane) [2C]	0.064	0.0020	mg/Kg wet	0.100		64.5	40-140	1.58	30	
4,4'-DDD	0.070	0.0040	mg/Kg wet	0.100		70.2	40-140	0.0399	30	
4,4'-DDD [2C]	0.074	0.0040	mg/Kg wet	0.100		73.9	40-140	3.45	30	
4,4'-DDE	0.068	0.0040	mg/Kg wet	0.100		67.8	40-140	0.991	30	
4,4'-DDE [2C]	0.070	0.0040	mg/Kg wet	0.100		69.7	40-140	4.68	30	
4,4'-DDT	0.070	0.0040	mg/Kg wet	0.100		69.9	40-140	1.10	30	
4,4'-DDT [2C]	0.064	0.0040	mg/Kg wet	0.100		64.1	40-140	2.11	30	
Dieldrin	0.069	0.0040	mg/Kg wet	0.100		69.1	40-140	1.26	30	
Dieldrin [2C]	0.070	0.0040	mg/Kg wet	0.100		70.3	40-140	4.12	30	
Endosulfan I	0.066	0.0050	mg/Kg wet	0.100		65.9	40-140	0.685	30	
Endosulfan I [2C]	0.065	0.0050	mg/Kg wet	0.100		65.3	40-140	1.75	30	
Endosulfan II	0.068	0.0080	mg/Kg wet	0.100		68.0	40-140	0.380	30	
Endosulfan II [2C]	0.069	0.0080	mg/Kg wet	0.100		68.7	40-140	5.00	30	
Endosulfan Sulfate	0.069	0.0080	mg/Kg wet	0.100		69.2	40-140	4.84	30	
Endosulfan Sulfate [2C]	0.068	0.0080	mg/Kg wet	0.100		68.2	40-140	5.39	30	
Endrin	0.071	0.0080	mg/Kg wet	0.100		70.6	40-140	1.44	30	
Endrin [2C]	0.070	0.0080	mg/Kg wet	0.100		70.0	40-140	4.38	30	
Endrin Aldehyde	0.067	0.0080	mg/Kg wet	0.100		66.8	40-140	5.80	30	
Endrin Aldehyde [2C]	0.072	0.0080	mg/Kg wet	0.100		71.5	40-140	0.675	30	
Endrin Ketone	0.059	0.0080	mg/Kg wet	0.100		58.6	40-140	3.23	30	
Endrin Ketone [2C]	0.059	0.0080	mg/Kg wet	0.100		59.2	40-140	4.95	30	
Heptachlor	0.048	0.0050	mg/Kg wet	0.100		48.4	40-140	1.00	30	
Heptachlor [2C]	0.066	0.0050	mg/Kg wet	0.100		65.7	40-140	0.160	30	
Heptachlor Epoxide	0.065	0.0050	mg/Kg wet	0.100		64.8	40-140	0.105	30	
Heptachlor Epoxide [2C]	0.065	0.0050	mg/Kg wet	0.100		64.6	40-140	0.408	30	
Hexachlorobenzene	0.066	0.0060	mg/Kg wet	0.100		65.8	40-140	3.18	30	
Hexachlorobenzene [2C]	0.069	0.0060	mg/Kg wet	0.100		69.4	40-140	0.361	30	
Methoxychlor	0.072	0.050	mg/Kg wet	0.100		72.0	40-140	2.71	30	
Methoxychlor [2C]	0.077	0.050	mg/Kg wet	0.100		77.5	40-140	1.24	30	
Surrogate: Decachlorobiphenyl	0.137		mg/Kg wet	0.200		68.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.141		mg/Kg wet	0.200		70.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.123		mg/Kg wet	0.200		61.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.136		mg/Kg wet	0.200		68.1	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200110 - SW-846 3546										
Matrix Spike (B200110-MS1)	Source: 18D0057-06			Prepared: 04/03/18 Analyzed: 04/06/18						
Alachlor	0.070	0.022	mg/Kg dry	0.111	ND	62.7	30-150			
Alachlor [2C]	0.073	0.022	mg/Kg dry	0.111	ND	65.8	30-150			
Aldrin	0.072	0.0056	mg/Kg dry	0.111	ND	64.4	30-150			
Aldrin [2C]	0.072	0.0056	mg/Kg dry	0.111	ND	64.4	30-150			
alpha-BHC	0.064	0.0056	mg/Kg dry	0.111	ND	57.5	30-150			
alpha-BHC [2C]	0.069	0.0056	mg/Kg dry	0.111	ND	61.9	30-150			
beta-BHC	0.061	0.0056	mg/Kg dry	0.111	ND	54.7	30-150			
beta-BHC [2C]	0.055	0.0056	mg/Kg dry	0.111	ND	49.6	30-150			
delta-BHC	0.065	0.0056	mg/Kg dry	0.111	ND	58.3	30-150			
delta-BHC [2C]	0.067	0.0056	mg/Kg dry	0.111	ND	59.9	30-150			
gamma-BHC (Lindane)	0.066	0.0022	mg/Kg dry	0.111	ND	59.6	30-150			
gamma-BHC (Lindane) [2C]	0.070	0.0022	mg/Kg dry	0.111	ND	63.3	30-150			
4,4'-DDD	0.075	0.0045	mg/Kg dry	0.111	0.00063	66.5	30-150			
4,4'-DDD [2C]	0.075	0.0045	mg/Kg dry	0.111	0.00064	67.1	30-150			
4,4'-DDE	0.072	0.0045	mg/Kg dry	0.111	0.00095	63.4	30-150			
4,4'-DDE [2C]	0.073	0.0045	mg/Kg dry	0.111	0.00057	65.2	30-150			
4,4'-DDT	0.078	0.0045	mg/Kg dry	0.111	0.0028	67.8	30-150			
4,4'-DDT [2C]	0.072	0.0045	mg/Kg dry	0.111	0.0027	62.4	30-150			
Dieldrin	0.076	0.0045	mg/Kg dry	0.111	0.00084	67.6	30-150			
Dieldrin [2C]	0.075	0.0045	mg/Kg dry	0.111	0.00042	66.7	30-150			
Endosulfan I	0.073	0.0056	mg/Kg dry	0.111	ND	65.3	30-150			
Endosulfan I [2C]	0.068	0.0056	mg/Kg dry	0.111	ND	61.0	30-150			
Endosulfan II	0.071	0.0089	mg/Kg dry	0.111	ND	64.2	30-150			
Endosulfan II [2C]	0.073	0.0089	mg/Kg dry	0.111	ND	65.1	30-150			
Endosulfan Sulfate	0.066	0.0089	mg/Kg dry	0.111	ND	59.7	30-150			
Endosulfan Sulfate [2C]	0.068	0.0089	mg/Kg dry	0.111	ND	61.2	30-150			
Endrin	0.077	0.0089	mg/Kg dry	0.111	ND	69.4	30-150			
Endrin [2C]	0.073	0.0089	mg/Kg dry	0.111	ND	65.5	30-150			
Endrin Aldehyde	0.076	0.0089	mg/Kg dry	0.111	ND	68.5	30-150			
Endrin Aldehyde [2C]	0.082	0.0089	mg/Kg dry	0.111	ND	74.0	30-150			
Endrin Ketone	0.060	0.0089	mg/Kg dry	0.111	ND	54.0	30-150			
Endrin Ketone [2C]	0.061	0.0089	mg/Kg dry	0.111	ND	55.1	30-150			
Heptachlor	0.056	0.0056	mg/Kg dry	0.111	ND	50.1	30-150			
Heptachlor [2C]	0.072	0.0056	mg/Kg dry	0.111	ND	64.9	30-150			
Heptachlor Epoxide	0.071	0.0056	mg/Kg dry	0.111	ND	64.2	30-150			
Heptachlor Epoxide [2C]	0.069	0.0056	mg/Kg dry	0.111	ND	62.2	30-150			
Hexachlorobenzene	0.076	0.0067	mg/Kg dry	0.111	ND	68.0	30-150			
Hexachlorobenzene [2C]	0.076	0.0067	mg/Kg dry	0.111	ND	68.4	30-150			
Methoxychlor	0.074	0.056	mg/Kg dry	0.111	ND	66.3	30-150			
Methoxychlor [2C]	0.083	0.056	mg/Kg dry	0.111	ND	74.6	30-150			
Surrogate: Decachlorobiphenyl	0.149		mg/Kg dry	0.223		66.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.155		mg/Kg dry	0.223		69.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.140		mg/Kg dry	0.223		62.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg dry	0.223		70.2	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200110 - SW-846 3546										
Matrix Spike Dup (B200110-MSD1)		Source: 18D0057-06			Prepared: 04/03/18 Analyzed: 04/06/18					
Alachlor	0.084	0.023	mg/Kg dry	0.115	ND	72.9	30-150	17.9	30	
Alachlor [2C]	0.086	0.023	mg/Kg dry	0.115	ND	74.8	30-150	15.7	30	
Aldrin	0.083	0.0057	mg/Kg dry	0.115	ND	72.4	30-150	14.6	30	
Aldrin [2C]	0.081	0.0057	mg/Kg dry	0.115	ND	70.9	30-150	12.6	30	
alpha-BHC	0.072	0.0057	mg/Kg dry	0.115	ND	62.9	30-150	11.9	30	
alpha-BHC [2C]	0.075	0.0057	mg/Kg dry	0.115	ND	65.4	30-150	8.35	30	
beta-BHC	0.072	0.0057	mg/Kg dry	0.115	ND	62.4	30-150	16.2	30	
beta-BHC [2C]	0.063	0.0057	mg/Kg dry	0.115	ND	55.0	30-150	13.2	30	
delta-BHC	0.077	0.0057	mg/Kg dry	0.115	ND	67.5	30-150	17.4	30	
delta-BHC [2C]	0.078	0.0057	mg/Kg dry	0.115	ND	68.3	30-150	16.0	30	
gamma-BHC (Lindane)	0.077	0.0023	mg/Kg dry	0.115	ND	67.3	30-150	14.9	30	
gamma-BHC (Lindane) [2C]	0.079	0.0023	mg/Kg dry	0.115	ND	69.0	30-150	11.6	30	
4,4'-DDD	0.085	0.0046	mg/Kg dry	0.115	0.00063	73.7	30-150	13.0	30	
4,4'-DDD [2C]	0.086	0.0046	mg/Kg dry	0.115	0.00064	74.9	30-150	13.7	30	
4,4'-DDE	0.081	0.0046	mg/Kg dry	0.115	0.00095	70.2	30-150	12.9	30	
4,4'-DDE [2C]	0.084	0.0046	mg/Kg dry	0.115	0.00057	72.6	30-150	13.6	30	
4,4'-DDT	0.089	0.0046	mg/Kg dry	0.115	0.0028	75.1	30-150	12.7	30	
4,4'-DDT [2C]	0.082	0.0046	mg/Kg dry	0.115	0.0027	68.9	30-150	12.3	30	
Dieldrin	0.087	0.0046	mg/Kg dry	0.115	0.00084	75.4	30-150	13.6	30	
Dieldrin [2C]	0.087	0.0046	mg/Kg dry	0.115	0.00042	75.1	30-150	14.7	30	
Endosulfan I	0.084	0.0057	mg/Kg dry	0.115	ND	72.9	30-150	13.9	30	
Endosulfan I [2C]	0.078	0.0057	mg/Kg dry	0.115	ND	68.4	30-150	14.4	30	
Endosulfan II	0.083	0.0092	mg/Kg dry	0.115	ND	72.6	30-150	15.1	30	
Endosulfan II [2C]	0.084	0.0092	mg/Kg dry	0.115	ND	73.6	30-150	15.1	30	
Endosulfan Sulfate	0.084	0.0092	mg/Kg dry	0.115	ND	73.6	30-150	23.7	30	
Endosulfan Sulfate [2C]	0.082	0.0092	mg/Kg dry	0.115	ND	71.3	30-150	18.2	30	
Endrin	0.088	0.0092	mg/Kg dry	0.115	ND	77.2	30-150	13.5	30	
Endrin [2C]	0.084	0.0092	mg/Kg dry	0.115	ND	73.7	30-150	14.6	30	
Endrin Aldehyde	0.080	0.0092	mg/Kg dry	0.115	ND	69.6	30-150	4.55	30	
Endrin Aldehyde [2C]	0.086	0.0092	mg/Kg dry	0.115	ND	75.2	30-150	4.43	30	
Endrin Ketone	0.071	0.0092	mg/Kg dry	0.115	ND	62.3	30-150	17.2	30	
Endrin Ketone [2C]	0.071	0.0092	mg/Kg dry	0.115	ND	62.2	30-150	15.0	30	
Heptachlor	0.065	0.0057	mg/Kg dry	0.115	ND	56.7	30-150	15.2	30	
Heptachlor [2C]	0.082	0.0057	mg/Kg dry	0.115	ND	71.4	30-150	12.4	30	
Heptachlor Epoxide	0.083	0.0057	mg/Kg dry	0.115	ND	72.5	30-150	15.1	30	
Heptachlor Epoxide [2C]	0.079	0.0057	mg/Kg dry	0.115	ND	69.4	30-150	13.7	30	
Hexachlorobenzene	0.086	0.0069	mg/Kg dry	0.115	ND	74.7	30-150	12.2	30	
Hexachlorobenzene [2C]	0.083	0.0069	mg/Kg dry	0.115	ND	72.3	30-150	8.38	30	
Methoxychlor	0.085	0.057	mg/Kg dry	0.115	ND	74.3	30-150	14.3	30	
Methoxychlor [2C]	0.095	0.057	mg/Kg dry	0.115	ND	82.8	30-150	13.3	30	
Surrogate: Decachlorobiphenyl	0.168		mg/Kg dry	0.229		73.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.173		mg/Kg dry	0.229		75.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.150		mg/Kg dry	0.229		65.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg dry	0.229		71.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200117 - SW-846 3510C										
Blank (B200117-BLK1)				Prepared: 04/03/18 Analyzed: 04/06/18						
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.38		µg/L	2.00		69.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.42		µg/L	2.00		70.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.00		µg/L	2.00		50.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.10		µg/L	2.00		55.1	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200117 - SW-846 3510C										
LCS (B200117-BS1)				Prepared: 04/03/18 Analyzed: 04/06/18						
Alachlor	0.92	0.20	µg/L	1.00		92.4	40-140			
Alachlor [2C]	0.96	0.20	µg/L	1.00		96.4	40-140			
Aldrin	0.79	0.050	µg/L	1.00		79.5	40-140			V-06
Aldrin [2C]	0.79	0.050	µg/L	1.00		79.0	40-140			
alpha-BHC	0.68	0.050	µg/L	1.00		67.8	40-140			V-06, A-06
alpha-BHC [2C]	0.59	0.050	µg/L	1.00		59.4	40-140			
beta-BHC	0.62	0.050	µg/L	1.00		62.1	40-140			
beta-BHC [2C]	0.63	0.050	µg/L	1.00		63.5	40-140			
delta-BHC	0.72	0.050	µg/L	1.00		72.5	40-140			V-06, A-06
delta-BHC [2C]	0.70	0.050	µg/L	1.00		69.7	40-140			
gamma-BHC (Lindane)	0.66	0.030	µg/L	1.00		66.1	40-140			V-06, A-06
gamma-BHC (Lindane) [2C]	0.68	0.030	µg/L	1.00		67.5	40-140			
4,4'-DDD	1.0	0.040	µg/L	1.00		99.7	40-140			V-06
4,4'-DDD [2C]	0.87	0.040	µg/L	1.00		87.0	40-140			
4,4'-DDE	0.94	0.040	µg/L	1.00		94.3	40-140			V-06
4,4'-DDE [2C]	0.94	0.040	µg/L	1.00		94.3	40-140			
4,4'-DDT	1.0	0.040	µg/L	1.00		100	40-140			V-06
4,4'-DDT [2C]	0.88	0.040	µg/L	1.00		88.3	40-140			
Dieldrin	0.91	0.0020	µg/L	1.00		91.3	40-140			
Dieldrin [2C]	0.79	0.0020	µg/L	1.00		78.8	40-140			
Endosulfan I	0.87	0.050	µg/L	1.00		86.9	40-140			
Endosulfan I [2C]	0.89	0.050	µg/L	1.00		89.3	40-140			
Endosulfan II	0.96	0.080	µg/L	1.00		95.6	40-140			
Endosulfan II [2C]	0.86	0.080	µg/L	1.00		85.8	40-140			
Endosulfan Sulfate	1.0	0.080	µg/L	1.00		103	40-140			
Endosulfan Sulfate [2C]	0.90	0.080	µg/L	1.00		89.6	40-140			
Endrin	0.94	0.080	µg/L	1.00		94.2	40-140			
Endrin [2C]	0.86	0.080	µg/L	1.00		86.5	40-140			
Endrin Aldehyde	1.0	0.080	µg/L	1.00		100	40-140			
Endrin Aldehyde [2C]	0.91	0.080	µg/L	1.00		91.0	40-140			
Endrin Ketone	0.87	0.080	µg/L	1.00		87.4	40-140			
Endrin Ketone [2C]	0.80	0.080	µg/L	1.00		80.3	40-140			
Heptachlor	0.73	0.050	µg/L	1.00		72.6	40-140			
Heptachlor [2C]	0.72	0.050	µg/L	1.00		72.1	40-140			
Heptachlor Epoxide	0.84	0.050	µg/L	1.00		84.5	40-140			
Heptachlor Epoxide [2C]	0.84	0.050	µg/L	1.00		84.1	40-140			
Hexachlorobenzene	0.59	0.050	µg/L	1.00		59.3	40-140			
Hexachlorobenzene [2C]	0.67	0.050	µg/L	1.00		67.1	40-140			
Methoxychlor	0.99	0.50	µg/L	1.00		99.0	40-140			
Methoxychlor [2C]	0.94	0.50	µg/L	1.00		93.6	40-140			
Surrogate: Decachlorobiphenyl	1.89		µg/L	2.00		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.95		µg/L	2.00		97.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.20		µg/L	2.00		59.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.30		µg/L	2.00		64.8	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200117 - SW-846 3510C										
LCS Dup (B200117-BSD1)					Prepared: 04/03/18 Analyzed: 04/06/18					
Alachlor	0.84	0.20	µg/L	1.00		83.8	40-140	9.74	20	
Alachlor [2C]	0.91	0.20	µg/L	1.00		91.2	40-140	5.48	20	
Aldrin	0.73	0.050	µg/L	1.00		73.3	40-140	8.12	20	V-06
Aldrin [2C]	0.74	0.050	µg/L	1.00		73.7	40-140	6.82	20	
alpha-BHC	0.59	0.050	µg/L	1.00		58.6	40-140	14.6	20	V-06, A-06
alpha-BHC [2C]	0.51	0.050	µg/L	1.00		51.4	40-140	14.4	20	
beta-BHC	0.55	0.050	µg/L	1.00		55.3	40-140	11.5	20	
beta-BHC [2C]	0.57	0.050	µg/L	1.00		57.0	40-140	10.8	20	
delta-BHC	0.67	0.050	µg/L	1.00		67.1	40-140	7.68	20	V-06, A-06
delta-BHC [2C]	0.64	0.050	µg/L	1.00		63.7	40-140	9.01	20	
gamma-BHC (Lindane)	0.58	0.030	µg/L	1.00		58.2	40-140	12.7	20	V-06, A-06
gamma-BHC (Lindane) [2C]	0.60	0.030	µg/L	1.00		59.8	40-140	12.2	20	
4,4'-DDD	0.93	0.040	µg/L	1.00		93.1	40-140	6.84	20	V-06
4,4'-DDD [2C]	0.81	0.040	µg/L	1.00		81.1	40-140	7.09	20	
4,4'-DDE	0.88	0.040	µg/L	1.00		88.4	40-140	6.50	20	V-06
4,4'-DDE [2C]	0.88	0.040	µg/L	1.00		88.0	40-140	6.96	20	
4,4'-DDT	0.93	0.040	µg/L	1.00		93.2	40-140	7.30	20	V-06
4,4'-DDT [2C]	0.81	0.040	µg/L	1.00		81.5	40-140	7.97	20	
Dieldrin	0.86	0.0020	µg/L	1.00		85.9	40-140	6.19	20	
Dieldrin [2C]	0.74	0.0020	µg/L	1.00		73.6	40-140	6.86	20	
Endosulfan I	0.82	0.050	µg/L	1.00		81.5	40-140	6.40	20	
Endosulfan I [2C]	0.83	0.050	µg/L	1.00		83.3	40-140	6.87	20	
Endosulfan II	0.89	0.080	µg/L	1.00		89.2	40-140	6.86	20	
Endosulfan II [2C]	0.80	0.080	µg/L	1.00		80.3	40-140	6.65	20	
Endosulfan Sulfate	0.96	0.080	µg/L	1.00		95.9	40-140	7.56	20	
Endosulfan Sulfate [2C]	0.83	0.080	µg/L	1.00		83.2	40-140	7.49	20	
Endrin	0.88	0.080	µg/L	1.00		87.8	40-140	7.03	20	
Endrin [2C]	0.80	0.080	µg/L	1.00		79.5	40-140	8.39	20	
Endrin Aldehyde	0.93	0.080	µg/L	1.00		92.8	40-140	7.66	20	
Endrin Aldehyde [2C]	0.85	0.080	µg/L	1.00		84.7	40-140	7.15	20	
Endrin Ketone	0.81	0.080	µg/L	1.00		81.0	40-140	7.68	20	
Endrin Ketone [2C]	0.74	0.080	µg/L	1.00		74.4	40-140	7.62	20	
Heptachlor	0.66	0.050	µg/L	1.00		66.4	40-140	9.03	20	
Heptachlor [2C]	0.66	0.050	µg/L	1.00		66.4	40-140	8.25	20	
Heptachlor Epoxide	0.79	0.050	µg/L	1.00		78.7	40-140	7.12	20	
Heptachlor Epoxide [2C]	0.78	0.050	µg/L	1.00		78.5	40-140	6.88	20	
Hexachlorobenzene	0.52	0.050	µg/L	1.00		52.0	40-140	13.2	20	
Hexachlorobenzene [2C]	0.59	0.050	µg/L	1.00		59.1	40-140	12.7	20	
Methoxychlor	0.91	0.50	µg/L	1.00		91.2	40-140	8.16	20	
Methoxychlor [2C]	0.86	0.50	µg/L	1.00		86.1	40-140	8.31	20	
Surrogate: Decachlorobiphenyl	1.69		µg/L	2.00		84.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.73		µg/L	2.00		86.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.05		µg/L	2.00		52.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.14		µg/L	2.00		57.2	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200037 - SW-846 3510C
Blank (B200037-BLK1)

Prepared: 04/03/18 Analyzed: 04/04/18

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.25		µg/L	2.00		62.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.21		µg/L	2.00		60.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.65		µg/L	2.00		82.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.69		µg/L	2.00		84.7	30-150			

LCS (B200037-BS1)

Prepared: 04/03/18 Analyzed: 04/04/18

Aroclor-1016	0.51	0.20	µg/L	0.500		102	40-140			
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		102	40-140			
Aroclor-1260	0.46	0.20	µg/L	0.500		92.1	40-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.8	40-140			
Surrogate: Decachlorobiphenyl	1.36		µg/L	2.00		67.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.35		µg/L	2.00		67.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.68		µg/L	2.00		83.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.75		µg/L	2.00		87.5	30-150			

LCS Dup (B200037-BSD1)

Prepared: 04/03/18 Analyzed: 04/04/18

Aroclor-1016	0.52	0.20	µg/L	0.500		105	40-140	3.06	20	
Aroclor-1016 [2C]	0.55	0.20	µg/L	0.500		110	40-140	6.83	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		92.2	40-140	0.0304	20	
Aroclor-1260 [2C]	0.47	0.20	µg/L	0.500		93.3	40-140	3.78	20	
Surrogate: Decachlorobiphenyl	0.800		µg/L	2.00		40.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.801		µg/L	2.00		40.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.61		µg/L	2.00		80.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.68		µg/L	2.00		83.9	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200109 - SW-846 3546										
Blank (B200109-BLK1)										
Prepared: 04/03/18 Analyzed: 04/04/18										
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	0.170		mg/Kg wet	0.200		85.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.201		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.161		mg/Kg wet	0.200		80.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.199		mg/Kg wet	0.200		99.7	30-150			
LCS (B200109-BS1)										
Prepared: 04/03/18 Analyzed: 04/04/18										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.8	40-140			
Aroclor-1016 [2C]	0.22	0.020	mg/Kg wet	0.200		109	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.1	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		90.7	40-140			
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg wet	0.200		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg wet	0.200		79.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg wet	0.200		98.1	30-150			
LCS Dup (B200109-BSD1)										
Prepared: 04/03/18 Analyzed: 04/04/18										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.4	40-140	4.07	30	
Aroclor-1016 [2C]	0.22	0.020	mg/Kg wet	0.200		108	40-140	0.476	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.7	40-140	0.518	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.1	40-140	0.438	30	
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.203		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.161		mg/Kg wet	0.200		80.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.199		mg/Kg wet	0.200		99.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200109 - SW-846 3546

Matrix Spike (B200109-MS1)

Source: 18D0057-06

Prepared: 04/03/18 Analyzed: 04/05/18

Aroclor-1016	0.25	0.092	mg/Kg dry	0.229	ND	111	40-140			
Aroclor-1016 [2C]	0.26	0.092	mg/Kg dry	0.229	ND	113	40-140			
Aroclor-1260	0.26	0.092	mg/Kg dry	0.229	ND	113	40-140			
Aroclor-1260 [2C]	0.24	0.092	mg/Kg dry	0.229	ND	104	40-140			
Surrogate: Decachlorobiphenyl	0.159		mg/Kg dry	0.229		69.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.227		mg/Kg dry	0.229		98.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.193		mg/Kg dry	0.229		84.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.238		mg/Kg dry	0.229		104	30-150			

Matrix Spike Dup (B200109-MSD1)

Source: 18D0057-06

Prepared: 04/03/18 Analyzed: 04/05/18

Aroclor-1016	0.22	0.093	mg/Kg dry	0.234	ND	95.6	40-140	15.1	30	
Aroclor-1016 [2C]	0.27	0.093	mg/Kg dry	0.234	ND	116	40-140	2.92	30	
Aroclor-1260	0.21	0.093	mg/Kg dry	0.234	ND	89.0	40-140	23.7	30	
Aroclor-1260 [2C]	0.23	0.093	mg/Kg dry	0.234	ND	98.4	40-140	5.21	30	
Surrogate: Decachlorobiphenyl	0.155		mg/Kg dry	0.234		66.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.217		mg/Kg dry	0.234		92.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg dry	0.234		81.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.235		mg/Kg dry	0.234		101	30-150			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200105 - SW-846 3050B
Blank (B200105-BLK1)

Prepared: 04/03/18 Analyzed: 04/06/18

Aluminum	ND	1.7	mg/Kg wet
Antimony	ND	1.7	mg/Kg wet
Arsenic	ND	1.7	mg/Kg wet
Barium	ND	1.7	mg/Kg wet
Beryllium	ND	0.17	mg/Kg wet
Cadmium	ND	0.17	mg/Kg wet
Calcium	ND	5.0	mg/Kg wet
Chromium	ND	0.33	mg/Kg wet
Cobalt	ND	1.7	mg/Kg wet
Copper	ND	0.33	mg/Kg wet
Iron	ND	1.7	mg/Kg wet
Lead	ND	0.50	mg/Kg wet
Magnesium	ND	5.0	mg/Kg wet
Manganese	ND	0.33	mg/Kg wet
Nickel	ND	0.33	mg/Kg wet
Potassium	ND	67	mg/Kg wet
Selenium	ND	3.3	mg/Kg wet
Silver	ND	0.33	mg/Kg wet
Sodium	ND	67	mg/Kg wet
Thallium	ND	1.7	mg/Kg wet
Vanadium	ND	0.67	mg/Kg wet
Zinc	ND	0.67	mg/Kg wet

LCS (B200105-BS1)

Prepared: 04/03/18 Analyzed: 04/06/18

Aluminum	5640	5.1	mg/Kg wet	7580	74.4	47.4-152.5
Antimony	82.7	5.1	mg/Kg wet	107	77.3	3.8-212
Arsenic	106	5.1	mg/Kg wet	114	93.1	83-117
Barium	171	5.1	mg/Kg wet	181	94.3	82.2-117.8
Beryllium	91.2	0.51	mg/Kg wet	93.8	97.2	82.8-117.2
Cadmium	87.6	0.51	mg/Kg wet	93.2	94.0	82.4-117.6
Calcium	5110	15	mg/Kg wet	5630	90.7	80.8-119
Chromium	101	1.0	mg/Kg wet	109	93.1	81.8-118.2
Cobalt	101	5.1	mg/Kg wet	108	93.3	83.4-116.6
Copper	118	1.0	mg/Kg wet	122	96.6	83.6-116.4
Iron	11300	5.1	mg/Kg wet	14600	77.7	60.4-139.7
Lead	90.8	1.5	mg/Kg wet	102	89.0	82.8-117
Magnesium	2540	15	mg/Kg wet	2960	85.7	75.4-125
Manganese	354	1.0	mg/Kg wet	407	87.0	82-118
Nickel	73.4	1.0	mg/Kg wet	79.7	92.1	82.5-118.2
Potassium	2760	200	mg/Kg wet	2910	94.9	69.5-130.5
Selenium	166	10	mg/Kg wet	186	89.0	79.1-121.4
Silver	41.8	1.0	mg/Kg wet	41.8	99.9	79.6-120.4
Sodium	509	200	mg/Kg wet	545	93.4	72.2-127.8
Thallium	195	5.1	mg/Kg wet	200	97.5	81-119
Vanadium	97.8	2.0	mg/Kg wet	103	94.9	77.6-122.4
Zinc	208	2.0	mg/Kg wet	227	91.4	79.9-120.1

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200105 - SW-846 3050B										
LCS Dup (B200105-BSD1)				Prepared: 04/03/18 Analyzed: 04/06/18						
Aluminum	5850	4.9	mg/Kg wet	7580		77.2	47.4-152.5	3.78	30	
Antimony	84.6	4.9	mg/Kg wet	107		79.1	3.8-212	2.29	30	
Arsenic	108	4.9	mg/Kg wet	114		94.7	83-117	1.68	30	
Barium	176	4.9	mg/Kg wet	181		97.5	82.2-117.8	3.35	30	
Beryllium	92.0	0.49	mg/Kg wet	93.8		98.1	82.8-117.2	0.903	30	
Cadmium	88.3	0.49	mg/Kg wet	93.2		94.7	82.4-117.6	0.760	30	
Calcium	5130	15	mg/Kg wet	5630		91.0	80.8-119	0.373	30	
Chromium	102	0.99	mg/Kg wet	109		93.9	81.8-118.2	0.889	30	
Cobalt	102	4.9	mg/Kg wet	108		94.5	83.4-116.6	1.24	30	
Copper	119	0.99	mg/Kg wet	122		97.3	83.6-116.4	0.751	30	
Iron	11700	4.9	mg/Kg wet	14600		80.2	60.4-139.7	3.19	30	
Lead	91.8	1.5	mg/Kg wet	102		90.0	82.8-117	1.13	30	
Magnesium	2600	15	mg/Kg wet	2960		87.9	75.4-125	2.53	30	
Manganese	356	0.99	mg/Kg wet	407		87.4	82-118	0.403	30	
Nickel	74.4	0.99	mg/Kg wet	79.7		93.3	82.5-118.2	1.39	30	
Potassium	2830	200	mg/Kg wet	2910		97.3	69.5-130.5	2.55	30	
Selenium	168	9.9	mg/Kg wet	186		90.1	79.1-121.4	1.20	30	
Silver	42.0	0.99	mg/Kg wet	41.8		101	79.6-120.4	0.646	30	
Sodium	521	200	mg/Kg wet	545		95.6	72.2-127.8	2.31	30	
Thallium	196	4.9	mg/Kg wet	200		98.1	81-119	0.565	30	
Vanadium	99.0	2.0	mg/Kg wet	103		96.1	77.6-122.4	1.22	30	
Zinc	211	2.0	mg/Kg wet	227		93.1	79.9-120.1	1.76	30	
MRL Check (B200105-MRL1)				Prepared: 04/03/18 Analyzed: 04/06/18						
Lead	0.528	0.51	mg/Kg wet	0.505		105	80-120			
Batch B200181 - SW-846 7471										
Blank (B200181-BLK1)				Prepared: 04/04/18 Analyzed: 04/05/18						
Mercury	ND	0.025	mg/Kg wet							
LCS (B200181-BS1)				Prepared: 04/04/18 Analyzed: 04/05/18						
Mercury	9.45	1.9	mg/Kg wet	9.36		101	73.7-126.3			
LCS Dup (B200181-BSD1)				Prepared: 04/04/18 Analyzed: 04/05/18						
Mercury	9.81	1.9	mg/Kg wet	9.36		105	73.7-126.3	3.71	30	
Duplicate (B200181-DUP1)				Source: 18D0057-06 Prepared: 04/04/18 Analyzed: 04/05/18						
Mercury	1.38	0.14	mg/Kg dry		1.69			20.3	35	
Matrix Spike (B200181-MS1)				Source: 18D0057-06 Prepared: 04/04/18 Analyzed: 04/05/18						
Mercury	1.26	0.15	mg/Kg dry	0.195	1.69	-218 *	75-125			MS-19

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200181 - SW-846 7471
Matrix Spike Dup (B200181-MSD1)
Source: 18D0057-06

Prepared: 04/04/18 Analyzed: 04/05/18

Mercury	1.33	0.14	mg/Kg dry	0.193	1.69	-183 *	75-125	5.42	35	MS-19
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Batch B200249 - SW-846 7470A Prep
Blank (B200249-BLK1)

Prepared: 04/05/18 Analyzed: 04/06/18

Mercury	ND	0.00010	mg/L							
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LCS (B200249-BS1)

Prepared: 04/05/18 Analyzed: 04/06/18

Mercury	0.00179	0.00010	mg/L	0.00200		89.3	80-120			
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LCS Dup (B200249-BSD1)

Prepared: 04/05/18 Analyzed: 04/06/18

Mercury	0.00180	0.00010	mg/L	0.00200		89.8	80-120	0.593	20	
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Batch B200354 - SW-846 3005A
Blank (B200354-BLK1)

Prepared & Analyzed: 04/06/18

Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.15	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.050	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.15	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.020	mg/L							

LCS (B200354-BS1)

Prepared & Analyzed: 04/06/18

Aluminum	0.473	0.050	mg/L	0.500		94.6	80-120			
Antimony	0.516	0.050	mg/L	0.500		103	80-120			
Arsenic	0.496	0.010	mg/L	0.500		99.2	80-120			
Barium	0.516	0.050	mg/L	0.500		103	80-120			
Beryllium	0.541	0.0040	mg/L	0.500		108	80-120			
Cadmium	0.506	0.0040	mg/L	0.500		101	80-120			
Calcium	4.21	0.15	mg/L	4.00		105	80-120			
Chromium	0.505	0.010	mg/L	0.500		101	80-120			
Cobalt	0.510	0.050	mg/L	0.500		102	80-120			
Copper	0.985	0.010	mg/L	1.00		98.5	80-120			
Iron	4.03	0.050	mg/L	4.00		101	80-120			
Lead	0.501	0.010	mg/L	0.500		100	80-120			
Magnesium	4.17	0.15	mg/L	4.00		104	80-120			
Manganese	0.505	0.010	mg/L	0.500		101	80-120			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200354 - SW-846 3005A
LCS (B200354-BS1)

Prepared & Analyzed: 04/06/18

Nickel	0.502	0.010	mg/L	0.500		100	80-120			
Potassium	4.07	2.0	mg/L	4.00		102	80-120			
Selenium	0.489	0.050	mg/L	0.500		97.8	80-120			
Silver	0.548	0.0050	mg/L	0.500		110	80-120			
Sodium	4.31	2.0	mg/L	4.00		108	80-120			
Thallium	0.519	0.050	mg/L	0.500		104	80-120			
Vanadium	0.507	0.010	mg/L	0.500		101	80-120			
Zinc	1.00	0.020	mg/L	1.00		100	80-120			

LCS Dup (B200354-BSD1)

Prepared & Analyzed: 04/06/18

Aluminum	0.486	0.050	mg/L	0.500		97.1	80-120	2.65	20	
Antimony	0.510	0.050	mg/L	0.500		102	80-120	1.11	20	
Arsenic	0.489	0.010	mg/L	0.500		97.8	80-120	1.40	20	
Barium	0.517	0.050	mg/L	0.500		103	80-120	0.156	20	
Beryllium	0.530	0.0040	mg/L	0.500		106	80-120	2.03	20	
Cadmium	0.507	0.0040	mg/L	0.500		101	80-120	0.177	20	
Calcium	4.18	0.15	mg/L	4.00		105	80-120	0.569	20	
Chromium	0.505	0.010	mg/L	0.500		101	80-120	0.0593	20	
Cobalt	0.512	0.050	mg/L	0.500		102	80-120	0.257	20	
Copper	0.987	0.010	mg/L	1.00		98.7	80-120	0.249	20	
Iron	4.02	0.050	mg/L	4.00		100	80-120	0.277	20	
Lead	0.494	0.010	mg/L	0.500		98.9	80-120	1.44	20	
Magnesium	4.14	0.15	mg/L	4.00		103	80-120	0.820	20	
Manganese	0.503	0.010	mg/L	0.500		101	80-120	0.447	20	
Nickel	0.502	0.010	mg/L	0.500		100	80-120	0.126	20	
Potassium	4.00	2.0	mg/L	4.00		100	80-120	1.71	20	
Selenium	0.484	0.050	mg/L	0.500		96.8	80-120	1.01	20	
Silver	0.546	0.0050	mg/L	0.500		109	80-120	0.280	20	
Sodium	4.20	2.0	mg/L	4.00		105	80-120	2.50	20	
Thallium	0.507	0.050	mg/L	0.500		101	80-120	2.25	20	
Vanadium	0.508	0.010	mg/L	0.500		102	80-120	0.325	20	
Zinc	1.00	0.020	mg/L	1.00		100	80-120	0.402	20	

Batch B200571 - SW-846 3051
Blank (B200571-BLK1)

Prepared & Analyzed: 04/10/18

Aluminum	ND	1.7	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Iron	ND	1.7	mg/Kg wet							
Magnesium	ND	5.0	mg/Kg wet							
Potassium	ND	67	mg/Kg wet							

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200571 - SW-846 3051
LCS (B200571-BS1)

Prepared & Analyzed: 04/10/18

Aluminum	4490	5.0	mg/Kg wet	8000		56.1	47.4-152.5			
Copper	180	1.0	mg/Kg wet	171		105	83.6-116.4			
Iron	10500	5.0	mg/Kg wet	14100		74.4	60.4-139.7			
Magnesium	1810	15	mg/Kg wet	2240		81.0	75.4-125			
Potassium	1580	200	mg/Kg wet	2000		79.0	69.5-130.5			

LCS Dup (B200571-BSD1)

Prepared & Analyzed: 04/10/18

Aluminum	4330	4.8	mg/Kg wet	8000		54.1	47.4-152.5	3.71	30	
Copper	168	0.97	mg/Kg wet	171		98.0	83.6-116.4	7.00	30	
Iron	9950	4.8	mg/Kg wet	14100		70.5	60.4-139.7	5.35	30	
Magnesium	1740	15	mg/Kg wet	2240		77.5	75.4-125	4.43	30	
Potassium	1540	190	mg/Kg wet	2000		76.9	69.5-130.5	2.73	30	

Duplicate (B200571-DUP1)

Source: 18D0057-06RE1

Prepared & Analyzed: 04/10/18

Aluminum	8980	2.0	mg/Kg dry		9610			6.79	35	
Copper	149	0.39	mg/Kg dry		97.2			42.3 *	35	R-02
Iron	42400	20	mg/Kg dry		32000			28.0	35	
Magnesium	4390	59	mg/Kg dry		4360			0.630	35	
Potassium	1340	78	mg/Kg dry		1420			5.62	35	

Matrix Spike (B200571-MS1)

Source: 18D0057-06RE1

Prepared & Analyzed: 04/10/18

Aluminum	9420	2.0	mg/Kg dry	19.7	9610	-999 *	75-125			MS-19
Copper	125	0.39	mg/Kg dry	39.3	97.2	71.6 *	75-125			MS-22
Iron	34200	20	mg/Kg dry	157	32000	1420 *	75-125			MS-19
Magnesium	5140	59	mg/Kg dry	157	4360	497 *	75-125			MS-19
Potassium	1550	79	mg/Kg dry	157	1420	85.2	75-125			

Matrix Spike Dup (B200571-MSD1)

Source: 18D0057-06RE1

Prepared & Analyzed: 04/10/18

Aluminum	9550	2.0	mg/Kg dry	19.7	9610	-314 *	75-125	1.42	35	MS-19
Copper	131	0.39	mg/Kg dry	39.4	97.2	85.8	75-125	4.42	35	
Iron	33700	20	mg/Kg dry	158	32000	1060 *	75-125	1.65	35	MS-19
Magnesium	4960	59	mg/Kg dry	158	4360	384 *	75-125	3.50	35	MS-19
Potassium	1550	79	mg/Kg dry	158	1420	85.7	75-125	0.0713	35	

Dilution Check (B200571-SRL1)

Source: 18D0057-06RE1

Prepared & Analyzed: 04/10/18

Aluminum	10200	10	mg/Kg dry		9610			6.12	10	
Copper	100	2.0	mg/Kg dry		97.2			3.36	10	
Iron	28800	100	mg/Kg dry		32000			10.4 *	10	M-11
Magnesium	4070	300	mg/Kg dry		4360			6.83	10	

Batch B200698 - SW-846 3051
Blank (B200698-BLK1)

Prepared: 04/11/18 Analyzed: 04/12/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Calcium	4.2	5.0	mg/Kg wet							J
Chromium	ND	0.33	mg/Kg wet							
Cobalt	ND	1.7	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Manganese	ND	0.33	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200698 - SW-846 3051										
Blank (B200698-BLK1) Prepared: 04/11/18 Analyzed: 04/12/18										
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Sodium	ND	67	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							
LCS (B200698-BS1) Prepared: 04/11/18 Analyzed: 04/12/18										
Antimony	112	5.0	mg/Kg wet	65.1		171	3.8-212			
Arsenic	143	5.0	mg/Kg wet	147		97.2	83-117			
Barium	285	5.0	mg/Kg wet	314		90.7	82.2-117.8			
Beryllium	56.3	0.50	mg/Kg wet	53.4		105	82.8-117.2			
Cadmium	191	0.50	mg/Kg wet	193		98.9	82.4-117.6			
Calcium	4260	15	mg/Kg wet	4580		93.1	80.8-119			
Chromium	76.2	0.99	mg/Kg wet	82.6		92.2	81.8-118.2			
Cobalt	81.1	5.0	mg/Kg wet	81.3		99.8	83.4-116.6			
Lead	88.1	1.5	mg/Kg wet	92.3		95.4	82.8-117			
Manganese	189	0.99	mg/Kg wet	222		85.1	82-118			
Nickel	134	0.99	mg/Kg wet	137		97.9	82.5-118.2			
Selenium	182	9.9	mg/Kg wet	187		97.3	79.1-121.4			
Silver	42.3	0.99	mg/Kg wet	40.7		104	79.6-120.4			
Sodium	164	200	mg/Kg wet	216		75.9	72.2-127.8			J
Thallium	153	5.0	mg/Kg wet	153		100	81-119			
Vanadium	78.3	2.0	mg/Kg wet	86.6		90.4	77.6-122.4			
Zinc	177	2.0	mg/Kg wet	189		93.7	79.9-120.1			
LCS Dup (B200698-BSD1) Prepared: 04/11/18 Analyzed: 04/12/18										
Antimony	98.0	4.9	mg/Kg wet	65.1		151	3.8-212	12.9	30	
Arsenic	136	4.9	mg/Kg wet	147		92.6	83-117	4.88	30	
Barium	264	4.9	mg/Kg wet	314		84.2	82.2-117.8	7.43	30	
Beryllium	52.1	0.49	mg/Kg wet	53.4		97.5	82.8-117.2	7.79	30	
Cadmium	173	0.49	mg/Kg wet	193		89.6	82.4-117.6	9.82	30	
Calcium	3860	15	mg/Kg wet	4580		84.3	80.8-119	9.89	30	
Chromium	71.3	0.98	mg/Kg wet	82.6		86.3	81.8-118.2	6.63	30	
Cobalt	74.3	4.9	mg/Kg wet	81.3		91.4	83.4-116.6	8.74	30	
Lead	83.8	1.5	mg/Kg wet	92.3		90.7	82.8-117	5.02	30	
Manganese	197	0.98	mg/Kg wet	222		88.7	82-118	4.20	30	
Nickel	122	0.98	mg/Kg wet	137		89.3	82.5-118.2	9.18	30	
Selenium	172	9.8	mg/Kg wet	187		91.8	79.1-121.4	5.77	30	
Silver	39.6	0.98	mg/Kg wet	40.7		97.2	79.6-120.4	6.73	30	
Sodium	151	200	mg/Kg wet	216		69.9	* 72.2-127.8	8.28	30	L-07, J
Thallium	136	4.9	mg/Kg wet	153		88.8	81-119	11.9	30	
Vanadium	70.6	2.0	mg/Kg wet	86.6		81.6	77.6-122.4	10.3	30	
Zinc	163	2.0	mg/Kg wet	189		86.2	79.9-120.1	8.36	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200698 - SW-846 3051

Duplicate (B200698-DUP1)		Source: 18D0057-06RE2		Prepared: 04/11/18 Analyzed: 04/12/18						
Antimony	ND	2.0	mg/Kg dry		ND		NC	35		
Arsenic	7.97	2.0	mg/Kg dry		8.01		0.516	35		
Barium	106	2.0	mg/Kg dry		113		6.79	35		
Beryllium	0.590	0.20	mg/Kg dry		0.578		2.10	35		
Cadmium	1.04	0.20	mg/Kg dry		0.680		41.7 *	35		R-04
Calcium	2890	5.9	mg/Kg dry		2870		0.595	35		
Chromium	16.3	0.39	mg/Kg dry		16.0		2.18	35		
Cobalt	7.39	2.0	mg/Kg dry		7.89		6.63	35		
Lead	330	0.59	mg/Kg dry		424		24.8	35		
Manganese	361	0.39	mg/Kg dry		482		28.6	35		
Nickel	17.9	0.39	mg/Kg dry		16.7		7.20	35		
Selenium	ND	3.9	mg/Kg dry		ND		NC	35		
Silver	ND	0.39	mg/Kg dry		ND		NC	35		
Sodium	56.3	78	mg/Kg dry		59.2		5.00	35		J
Thallium	ND	2.0	mg/Kg dry		ND		NC	35		
Vanadium	20.1	0.78	mg/Kg dry		20.0		0.762	35		
Zinc	244	0.78	mg/Kg dry		132		59.7 *	35		R-02

MRL Check (B200698-MRL1)

		Prepared: 04/11/18 Analyzed: 04/12/18								
Lead	0.533	0.50	mg/Kg wet	0.497		107		80-120		

Matrix Spike (B200698-MS1)

		Source: 18D0057-06RE2		Prepared: 04/11/18 Analyzed: 04/12/18						
Antimony	24.0	1.9	mg/Kg dry	19.3	ND	125	75-125			
Arsenic	26.1	1.9	mg/Kg dry	19.3	8.01	94.0	75-125			
Barium	144	1.9	mg/Kg dry	19.3	113	161 *	75-125			MS-19
Beryllium	19.8	0.19	mg/Kg dry	19.3	0.578	100	75-125			
Cadmium	19.2	0.19	mg/Kg dry	19.3	0.680	96.0	75-125			
Calcium	3090	5.8	mg/Kg dry	154	2870	145 *	75-125			MS-19
Chromium	38.8	0.39	mg/Kg dry	19.3	16.0	119	75-125			
Cobalt	26.3	1.9	mg/Kg dry	19.3	7.89	95.7	75-125			
Lead	1860	0.58	mg/Kg dry	19.3	424	7470 *	75-125			MS-19
Manganese	448	0.39	mg/Kg dry	19.3	482	-175 *	75-125			MS-19
Nickel	40.2	0.39	mg/Kg dry	19.3	16.7	122	75-125			
Selenium	11.4	3.9	mg/Kg dry	19.3	ND	58.9 *	75-125			MS-07A
Silver	18.8	0.39	mg/Kg dry	19.3	ND	97.5	75-125			
Sodium	220	77	mg/Kg dry	154	59.2	105	75-125			
Thallium	18.5	1.9	mg/Kg dry	19.3	ND	96.2	75-125			
Vanadium	40.7	0.77	mg/Kg dry	19.3	20.0	107	75-125			
Zinc	182	0.77	mg/Kg dry	38.5	132	131 *	75-125			MS-11

Matrix Spike Dup (B200698-MSD1)

		Source: 18D0057-06RE2		Prepared: 04/11/18 Analyzed: 04/12/18						
Antimony	21.4	2.0	mg/Kg dry	19.9	ND	108	75-125	11.4	35	
Arsenic	27.6	2.0	mg/Kg dry	19.9	8.01	98.1	75-125	5.31	35	
Barium	124	2.0	mg/Kg dry	19.9	113	51.2 *	75-125	15.5	35	MS-19
Beryllium	20.8	0.20	mg/Kg dry	19.9	0.578	101	75-125	4.55	35	
Cadmium	19.8	0.20	mg/Kg dry	19.9	0.680	96.0	75-125	3.31	35	
Calcium	3410	6.0	mg/Kg dry	159	2870	341 *	75-125	9.87	35	MS-19
Chromium	34.7	0.40	mg/Kg dry	19.9	16.0	94.2	75-125	11.1	35	
Cobalt	26.0	2.0	mg/Kg dry	19.9	7.89	90.7	75-125	1.37	35	
Lead	351	0.60	mg/Kg dry	19.9	424	-364 *	75-125	137 *	35	MS-19
Manganese	360	0.40	mg/Kg dry	19.9	482	-612 *	75-125	21.8	35	MS-19
Nickel	35.1	0.40	mg/Kg dry	19.9	16.7	92.5	75-125	13.4	35	
Selenium	13.5	4.0	mg/Kg dry	19.9	ND	67.7 *	75-125	17.2	35	MS-07A

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B200698 - SW-846 3051
Matrix Spike Dup (B200698-MSD1)
Source: 18D0057-06RE2

Prepared: 04/11/18 Analyzed: 04/12/18

Silver	19.2	0.40	mg/Kg dry	19.9	ND	96.3	75-125	2.11	35	
Sodium	211	80	mg/Kg dry	159	59.2	95.0	75-125	4.54	35	
Thallium	19.3	2.0	mg/Kg dry	19.9	ND	97.1	75-125	4.26	35	
Vanadium	39.1	0.80	mg/Kg dry	19.9	20.0	95.8	75-125	4.06	35	
Zinc	187	0.80	mg/Kg dry	39.9	132	139 *	75-125	2.83	35	MS-11

Dilution Check (B200698-SRL1)
Source: 18D0057-06RE2

Prepared: 04/11/18 Analyzed: 04/12/18

Calcium	3130	29	mg/Kg dry		2870			8.76	10	
Lead	471	2.9	mg/Kg dry		424			10.7 *	10	M-11
Manganese	530	2.0	mg/Kg dry		482			9.65	10	
Zinc	144	3.9	mg/Kg dry		132			9.21	10	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B200119 - % Solids										
Duplicate (B200119-DUP1)	Source: 18D0057-01			Prepared: 04/03/18 Analyzed: 04/04/18						
% Solids	82.4		% Wt		82.7			0.350	20	
Duplicate (B200119-DUP2)	Source: 18D0057-06			Prepared: 04/03/18 Analyzed: 04/04/18						
% Solids	83.7		% Wt		85.6			2.19	20	
Batch B200516 - SW-846 9014										
Blank (B200516-BLK1)				Prepared: 04/09/18 Analyzed: 04/10/18						
Cyanide	ND	0.010	mg/L							
LCS (B200516-BS1)				Prepared: 04/09/18 Analyzed: 04/10/18						
Cyanide	0.66	0.020	mg/L	0.700		94.6	80-120			
LCS Dup (B200516-BSD1)				Prepared: 04/09/18 Analyzed: 04/10/18						
Cyanide	0.64	0.020	mg/L	0.700		91.9	80-120	2.95	20	
Batch B200687 - SW-846 9014										
Blank (B200687-BLK1)				Prepared: 04/11/18 Analyzed: 04/12/18						
Cyanide	ND	0.48	mg/Kg wet							
LCS (B200687-BS1)				Prepared: 04/11/18 Analyzed: 04/12/18						
Cyanide	55	2.5	mg/Kg wet	63.0		87.7	80-120			
LCS Dup (B200687-BSD1)				Prepared: 04/11/18 Analyzed: 04/12/18						
Cyanide	58	2.5	mg/Kg wet	62.9		92.0	80-120	4.62	20	
Matrix Spike (B200687-MS1)	Source: 18D0057-06			Prepared: 04/11/18 Analyzed: 04/12/18						
Cyanide	15	0.47	mg/Kg dry	15.7	0.25	96.4	75-125			
Matrix Spike Dup (B200687-MSD1)	Source: 18D0057-06			Prepared: 04/11/18 Analyzed: 04/12/18						
Cyanide	16	0.47	mg/Kg dry	15.7	0.25	99.3	75-125	3.00	35	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

401075-SS-01-02

SW-846 8081B

Lab Sample ID: 18D0057-01 Date(s) Analyzed: 04/06/2018 04/06/2018

Instrument ID (1): A Instrument ID (2): B

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.421	-0.030	0.030	0.0035	
	2	7.418	-0.030	0.030	0.0035	0.0
4,4'-DDE	1	6.966	-0.030	0.030	0.019	
	2	6.981	-0.030	0.030	0.015	23.5
4,4'-DDT	1	7.632	-0.030	0.030	0.051	
	2	7.661	-0.030	0.030	0.061	17.9
Aroclor-1248	1	0.000	0.000	0.000	0.093	
	2	0.000	0.000	0.000	0.10	7.3
Aroclor-1254	1	0.000	0.000	0.000	0.22	
	2	0.000	0.000	0.000	0.27	20.4
Aroclor-1260	1	0.000	0.000	0.000	0.24	
	2	0.000	0.000	0.000	0.28	15.4
Dieldrin	1	7.190	-0.030	0.030	0.017	
	2	7.092	-0.030	0.030	0.0087	64.6

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

401075-SS-02-02

Lab Sample ID: 18D0057-04 Date(s) Analyzed: 04/06/2018 04/06/2018
Instrument ID (1): A Instrument ID (2): B
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.414	-0.030	0.030	0.0046	
	2	7.418	-0.030	0.030	0.0041	11.5
4,4'-DDE	1	6.965	-0.030	0.030	0.0086	
	2	6.981	-0.030	0.030	0.0050	52.9
4,4'-DDT	1	7.633	-0.030	0.030	0.020	
	2	7.661	-0.030	0.030	0.023	14.0
Aroclor-1254	1	0.000	0.000	0.000	0.10	
	2	0.000	0.000	0.000	0.12	18.2
Dieldrin	1	7.191	-0.030	0.030	0.0066	
	2	7.092	-0.030	0.030	0.0030	76.3

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

401075-SS-03-02

Lab Sample ID: 18D0057-06 Date(s) Analyzed: 04/06/2018 04/06/2018
Instrument ID (1): A Instrument ID (2): B
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.416	-0.030	0.030	0.00063	
	2	7.417	-0.030	0.030	0.00064	1.6
4,4'-DDE	1	6.966	-0.030	0.030	0.00095	
	2	6.979	-0.030	0.030	0.00057	50.0
4,4'-DDT	1	7.633	-0.030	0.030	0.0028	
	2	7.661	-0.030	0.030	0.0027	3.6
Dieldrin	1	7.191	-0.030	0.030	0.00084	
	2	7.090	-0.030	0.030	0.00042	66.7

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

401075-SS-04-02

Lab Sample ID: 18D0057-07 Date(s) Analyzed: 04/06/2018 04/06/2018
Instrument ID (1): A Instrument ID (2): B
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.964	-0.030	0.030	0.034	
	2	6.983	-0.030	0.030	0.011	102.0
4,4'-DDT	1	7.630	-0.030	0.030	0.032	
	2	7.660	-0.030	0.030	0.077	82.6
Aroclor-1248	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.48	8.7
Aroclor-1254	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	1.0	16.2
Aroclor-1260	1	0.000	0.000	0.000	0.23	
	2	0.000	0.000	0.000	0.29	23.1
Chlordane	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.18	11.8
Dieldrin	1	7.191	-0.030	0.030	0.037	
	2	7.091	-0.030	0.030	0.017	74.1

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

401075-SS-05-02

Lab Sample ID: 18D0057-09 Date(s) Analyzed: 04/06/2018 04/06/2018
Instrument ID (1): A Instrument ID (2): B
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.417	-0.030	0.030	0.086	
	2	7.418	-0.030	0.030	0.086	0.0
4,4'-DDE	1	6.967	-0.030	0.030	0.60	
	2	6.981	-0.030	0.030	0.63	4.9
4,4'-DDT	1	7.634	-0.030	0.030	1.2	
	2	7.661	-0.030	0.030	1.1	8.7
Aroclor-1248	1	0.000	0.000	0.000	0.076	
	2	0.000	0.000	0.000	0.085	11.2
Aroclor-1254	1	0.000	0.000	0.000	0.34	
	2	0.000	0.000	0.000	0.42	21.1
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.19	37.5
Dieldrin	1	7.192	-0.030	0.030	0.022	
	2	7.094	-0.030	0.030	0.012	58.8

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

401075-DUP-040218

SW-846 8081B

Lab Sample ID: 18D0057-14 Date(s) Analyzed: 04/06/2018 04/06/2018

Instrument ID (1): A Instrument ID (2): B

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	7.415	-0.030	0.030	0.0027	
	2	7.417	-0.030	0.030	0.0021	25.0
4,4'-DDE	1	6.967	-0.030	0.030	0.0063	
	2	6.980	-0.030	0.030	0.0048	27.0
4,4'-DDT	1	7.633	-0.030	0.030	0.012	
	2	7.661	-0.030	0.030	0.013	8.0
Aroclor-1248	1	0.000	0.000	0.000	0.26	
	2	0.000	0.000	0.000	0.27	3.8
Aroclor-1254	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.14	24.0
Aroclor-1260	1	0.000	0.000	0.000	0.071	
	2	0.000	0.000	0.000	0.061	16.5
Dieldrin	1	7.189	-0.030	0.030	0.0034	
	2	7.092	-0.030	0.030	0.0016	72.0
Hexachlorobenzene	1	5.454	-0.030	0.030	0.0015	
	2	5.402	-0.030	0.030	0.0019	23.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
A-06	Result could be biased on the low side due to the overloading of the cassette with particulate matter.
DL-03	Elevated reporting limit due to matrix.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
M-11	The serial dilution RPD is outside of control limits. Increased variability for reported result is expected.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
PR-15	According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
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 did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
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.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C-D in Soil</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 6010C-D in Water</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7470A in Water</i>	

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8081B in Soil</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8081B in Water</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8260C 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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
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
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
1,2-Dibromo-3-chloropropane (DBCP)	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
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
1,4-Dioxane	NY
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
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
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
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
<i>SW-846 8260C in Water</i>	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	ME,NH,VA,NY

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
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-Nitrosodiphenylamine	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 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
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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
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 (as 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
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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
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-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	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
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA
SW-846 9014 in Water	
Cyanide	NY,CT,NH,NC,ME,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

Company Name: EA Engineering
Address: 6712 Brooklawn Pkwy Suite 100, Syosset, NY 11791
Phone: 516-565-0565
Project Name: Admiral Crenens
Project Location: Watervliet, NY
Project Number: 1490738 0003
Project Manager: Chris Schroeder
Con-Test Quote Name/Number:

Invoice Recipient: cschroer@east.com
Sampled By: Stephen Soldner, Erica Thiekman

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	401075-SL-Fluoridin 01	4/2/18	1147		X	SL	U
12	401075-SL-Fluoridin 02	4/2/18	1155		X	SL	U
13	401075-RB-040218	4/2/18	1150		X	W	U
14	401075-DUP-040218	4/2/18	-	X	X	S	U
15	Trip Blank					W	

Comments:
DUP has 3 containers - 1 40oz (VOCs), 2 8oz (Everything else).
-VOCs: grab, everything else = composite.
RB: 6-1L jars, 3 VOAs, + 2 plastic preserved bottles
Mod Nitri Trip Blank = 2VOA

Relinquished by: (signature) Date/Time: 4/2/18 1534
Received by: (signature) Date/Time: 4/2/18 1534
Relinquished by: (signature) Date/Time: 4/2/18 1700
Received by: (signature) Date/Time: 4/3/18 13:00
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:
Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐
Data Delivery
Format: PDF ☐ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: cschroer@east.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	401075-SL-Fluoridin 01	4/2/18	1147		X	SL	U
12	401075-SL-Fluoridin 02	4/2/18	1155		X	SL	U
13	401075-RB-040218	4/2/18	1150		X	W	U
14	401075-DUP-040218	4/2/18	-	X	X	S	U
15	Trip Blank					W	

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

Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

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)

Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

**IMPORTANT!**

FedEx is closely monitoring the winter storms across portions of the U.S. [Learn More](#)

FedEx® Tracking

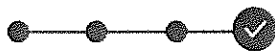


771894279739

Ship date:

Mon 4/02/2018

ALBANY, NY US



Delivered

Signed for by: PBLAKE

Actual delivery:

Tue 4/03/2018 1:00 pm

EAST LONGMEADOW, MA US

Travel History

▲ Date/Time	Activity	Location
■ 4/03/2018 - Tuesday		
1:00 pm	Delivered	East Longmeadow, MA
5:55 am	On FedEx vehicle for delivery	CHICOPEE, MA
5:38 am	At local FedEx facility	CHICOPEE, MA
3:35 am	Left FedEx origin facility	RENSSELAER, NY
■ 4/02/2018 - Monday		
8:55 pm	Arrived at FedEx location	RENSSELAER, NY
6:53 pm	Picked up	RENSSELAER, NY
5:04 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	771894279739	Service	FedEx Ground
Reference	85	Weight	65 lbs / 29.48 kgs
Dimensions	25x14x13 in.	Total pieces	1
Terms	Recipient	Packaging	Package
Standard transit	4/03/2018		

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 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 EA EngineeringReceived By SEDate 4/3/18Time 13:00
 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 # 577 Actual Temp - 3.0
 By Blank # Actual Temp -
Was Custody Seal Intact? N/A Were Samples Tampered with? N/AWas COC Relinquished? T Does Chain Agree With Samples? TAre there broken/leaking/loose caps on any samples? FIs COC in ink/ Legible? T Were samples received within holding time? TDid COC include all Client T Analysis T Sampler Name Tpertinent Information? Project T ID's T Collection Dates/Times TAre Sample labels filled out and legible? TAre there Lab to Filters? T Who was notified? Are there Rushes? F Who was notified? Are there Short Holds? F Who was notified? Is there enough Volume? TIs there Headspace where applicable? F MS/MSD? TProper Media/Containers Used? T Is splitting samples required? FWere trip blanks received? T On COC? TDo all samples have the proper pH? T Acid pH < 2 Base pH > 12

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	<u>6</u>	1 Liter Plastic		16 oz Amb.	
HCL-	<u>5</u>	500 mL Amb.		500 mL Plastic		8oz Amb /Clear	<u>16</u>
Meoh-		250 mL Amb.		250 mL Plastic	<u>2</u>	4oz Amb /Clear	<u>10</u>
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		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:

May 17, 2018

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

Project Location: Watervliet, NY
Client Job Number:
Project Number: 1490378.0003
Laboratory Work Order Number: 18E0084

Enclosed are results of analyses for samples received by the laboratory on May 2, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a long horizontal line extending to the right.

Aaron L. Benoit
Project Manager

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

REPORT DATE: 5/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490378.0003

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18E0084

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

PROJECT LOCATION: Watervliet, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
401075-MW-02-5-10	18E0084-01	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-04-10-12	18E0084-02	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-12-5-9	18E0084-03	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-11-0-5	18E0084-04	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-11A-0-5	18E0084-05	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-MW-03-GRAB	18E0084-06	Ground Water		SW-846 8260C	

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Syracuse, NY 13211
ATTN: Christopher Schroer

REPORT DATE: 5/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490378.0003

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18E0084

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

PROJECT LOCATION: Watervliet, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
401075-MW-03-10-13	18E0084-07	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-10-5-9,5	18E0084-08	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-MW-04-5-10	18E0084-09	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-09-5-10	18E0084-10	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-05-5-10	18E0084-11	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-05-GW	18E0084-12	Ground Water		SW-846 8260C	
401075-SB-08-5-9,5	18E0084-13	Soil		SM 2540G SW-846 8260C	

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6712 Brooklawn Parkway, Suite 104
Syracuse, NY 13211
ATTN: Christopher Schroer

REPORT DATE: 5/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490378.0003

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18E0084

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

PROJECT LOCATION: Watervliet, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
401075-RB-5-1-2018	18E0084-14	Water		SW-846 6010C-D	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
401075-TRIP BLANK	18E0084-15	Trip Blank Water		SW-846 9014	
				SW-846 8260C	

CASE NARRATIVE SUMMARY

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

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SW-846 6010C-D

Qualifications:**B**

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

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

18E0084-01[401075-MW-02-5-10], 18E0084-02[401075-SB-04-10-12], 18E0084-03[401075-SB-12-5-9], 18E0084-04[401075- 11-0-5], 18E0084-05[401075-SB-11A-0-5], 18E0084-07[401075-MW-03-10-13], 18E0084-08[401075-SB-10-5-9.5], 18E0084-09[401075-MW-04-5-10], 18E0084-10[401075-SB-09-5-10], B203317-BS1, B203317-BSD1

Zinc

18E0084-01[401075-MW-02-5-10], 18E0084-02[401075-SB-04-10-12], 18E0084-03[401075-SB-12-5-9], 18E0084-04[401075- 11-0-5], 18E0084-05[401075-SB-11A-0-5], 18E0084-07[401075-MW-03-10-13], 18E0084-08[401075-SB-10-5-9.5], 18E0084-09[401075-MW-04-5-10], 18E0084-10[401075-SB-09-5-10], B203317-BS1, B203317-BSD1

B-07

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

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

18E0084-01[401075-MW-02-5-10], 18E0084-02[401075-SB-04-10-12], 18E0084-03[401075-SB-12-5-9], 18E0084-04[401075- 11-0-5], 18E0084-05[401075-SB-11A-0-5], 18E0084-07[401075-MW-03-10-13], 18E0084-08[401075-SB-10-5-9.5], 18E0084-09[401075-MW-04-5-10], 18E0084-10[401075-SB-09-5-10], B203317-BLK1

Zinc

18E0084-01[401075-MW-02-5-10], 18E0084-02[401075-SB-04-10-12], 18E0084-03[401075-SB-12-5-9], 18E0084-04[401075- 11-0-5], 18E0084-05[401075-SB-11A-0-5], 18E0084-07[401075-MW-03-10-13], 18E0084-08[401075-SB-10-5-9.5], 18E0084-09[401075-MW-04-5-10], 18E0084-10[401075-SB-09-5-10], B203317-BLK1

DL-04

Elevated reporting limit due to high concentration of an interfering analyte(s).

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

18E0084-01[401075-MW-02-5-10], 18E0084-02[401075-SB-04-10-12], 18E0084-03[401075-SB-12-5-9], 18E0084-04[401075- 11-0-5], 18E0084-05[401075-SB-11A-0-5], 18E0084-07[401075-MW-03-10-13], 18E0084-08[401075-SB-10-5-9.5], 18E0084-09[401075-MW-04-5-10], 18E0084-10[401075-SB-09-5-10]

SW-846 8260C

Qualifications:**E**

Reported result is estimated. Value reported over verified calibration range.

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

18E0084-05[401075-SB-11A-0-5]

L-02

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

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

B202661-BS1, B202661-BSD1

Bromochloromethane

B202587-BS1, B202587-BSD1, B203278-BS1, B203278-BSD1, S023182-CCV1, S023184-CCV1

Carbon Tetrachloride

B202587-BS1, B202587-BSD1, B203278-BS1, B203278-BSD1, S023182-CCV1, S023184-CCV1

L-04

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

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

18E0084-01[401075-MW-02-5-10], 18E0084-04[401075- 11-0-5], 18E0084-05[401075-SB-11A-0-5], 18E0084-07[401075-MW-03-10-13], 18E0084-08[401075-SB-10-5-9.5], 18E0084-09[401075-MW-04-5-10], 18E0084-10[401075-SB-09-5-10], B202592-BLK1, B202592-BS1, B202592-BSD1, B202661-BLK1, B202661-BS1, B202661-BSD1

Methyl Acetate

18E0084-01[401075-MW-02-5-10], 18E0084-04[401075- 11-0-5], 18E0084-05[401075-SB-11A-0-5], 18E0084-07[401075-MW-03-10-13], 18E0084-08[401075-SB-10-5-9.5], 18E0084-09[401075-MW-04-5-10], 18E0084-10[401075-SB-09-5-10], B202592-BLK1, B202592-BS1, B202592-BSD1, B202661-BLK1, B202661-BS1, B202661-BSD1

L-06

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

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

18E0084-02[401075-SB-04-10-12], 18E0084-03[401075-SB-12-5-9], 18E0084-06[401075-MW-03-GRAB], 18E0084-11[401075-SB-05-5-10], 18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], 18E0084-14[401075-RB-5-1-2018], B202587-BS1, B202587-BSD1, B203278-BS1, B203278-BSD1, S023182-CCV1, S023184-CCV1

L-07

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

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

B202587-BS1, B203278-BS1

Carbon Disulfide

B202587-BS1, B203278-BS1

Trichloroethylene

B202587-BS1, B203278-BS1

MS-09

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

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

18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1

Dichlorodifluoromethane (Freon 12)

18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

MS-12

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

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

18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

1,1,2-Trichloro-1,2,2-trifluoroethane

18E0084-03[401075-SB-12-5-9], 18E0084-12[401075-SB-05-GW], B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

1,1-Dichloroethane

18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

1,1-Dichloroethylene

18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

1,1-Dichloropropene

18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

2-Chlorotoluene

18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1

Benzene

18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

Bromochloromethane

18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

Carbon Disulfide

18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

Carbon Tetrachloride

18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

Chloroform

18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

cis-1,2-Dichloroethylene

18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1

Hexachlorobutadiene

18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1

Methyl Acetate

18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1

trans-1,2-Dichloroethylene

18E0084-12[401075-SB-05-GW], B203278-MS1, B203278-MSD1

Trichloroethylene

18E0084-13[401075-SB-08-5-9.5], B202587-MS1, B202587-MSD1

MS-19

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

Analyte & Samples(s) Qualified:**cis-1,2-Dichloroethylene**

B203278-MS1, B203278-MSD1

Tetrachloroethylene

B202587-MS1, B202587-MSD1, B203278-MS1, B203278-MSD1

Trichloroethylene

B203278-MS1, B203278-MSD1

MS-24

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

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

B202587-MSD1

1,2-Dibromoethane (EDB)

B202587-MS1

1,3,5-Trimethylbenzene

B202587-MSD1

Dibromomethane

B202587-MS1

Diethyl Ether

B202587-MS1

Methyl tert-Butyl Ether (MTBE)

B202587-MS1

Toluene

B202587-MS1

trans-1,2-Dichloroethylene

B202587-MS1

PR-15

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

Analyte & Samples(s) Qualified:

18E0084-01[401075-MW-02-5-10], 18E0084-04[401075-11-0-5], 18E0084-05[401075-SB-11A-0-5], 18E0084-07[401075-MW-03-10-13], 18E0084-08[401075-SB-10-5-9.5], 18E0084-09[401075-MW-04-5-10], 18E0084-10[401075-SB-09-5-10]

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:**Methyl Acetate**

18E0084-05[401075-SB-11A-0-5], B202661-BLK1, B202661-BS1, B202661-BSD1

Methylene Chloride

18E0084-05[401075-SB-11A-0-5], B202661-BLK1, B202661-BS1, B202661-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

18E0084-02[401075-SB-04-10-12], 18E0084-11[401075-SB-05-5-10], 18E0084-13[401075-SB-08-5-9.5]

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V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

18E0084-02[401075-SB-04-10-12], 18E0084-03[401075-SB-12-5-9], 18E0084-06[401075-MW-03-GRAB], 18E0084-11[401075-SB-05-5-10], 18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], 18E0084-14[401075-RB-5-1-2018], 18E0084-15[401075- TRIP BLANK], B202587-BLK1, B202587-BS1, B202587-BSD1, B203278-BLK1, B203278-BS1, B203278-BSD1, B203278-MS1, B203278-MSD1, S023182-CCV1, S023184-CCV1

Chloromethane

18E0084-01[401075-MW-02-5-10], 18E0084-02[401075-SB-04-10-12], 18E0084-03[401075-SB-12-5-9], 18E0084-04[401075- 11-0-5], 18E0084-05[401075-SB-11A-0-5], 18E0084-06[401075-MW-03-GRAB], 18E0084-07[401075-MW-03-10-13], 18E0084-08[401075-SB-10-5-9.5], 18E0084-09[401075-MW-04-5-10], 18E0084-10[401075-SB-09-5-10], 18E0084-11[401075-SB-05-5-10], 18E0084-12[401075-SB-05-GW], 18E0084-13[401075-SB-08-5-9.5], 18E0084-14[401075-RB-5-1-2018], 18E0084-15[401075- TRIP BLANK], B202587-BLK1, B202587-BS1, B202587-BSD1, B202587-MS1, B202587-MSD1, B202592-BLK1, B202592-BS1, B202592-BSD1, B202661-BLK1, B202661-BS1, B202661-BSD1, B203278-BLK1, B203278-BS1, B203278-BSD1, B203278-MS1, B203278-MSD1, S022851-CCV1, S022905-CCV1, S023182-CCV1, S023184-CCV1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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

B202661-BS1, B202661-BSD1, S022905-CCV1

V-20

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

Analyte & Samples(s) Qualified:**1,1,2-Trichloro-1,2,2-trifluoroethane**

B202587-BS1, B202587-BSD1, B202661-BS1, B202661-BSD1, B203278-BS1, B203278-BSD1, S022905-CCV1, S023182-CCV1, S023184-CCV1

1,2,3-Trichloropropane

B202592-BS1, B202592-BSD1, B202661-BS1, B202661-BSD1, S022851-CCV1, S022905-CCV1

Bromochloromethane

B202587-BS1, B202587-BSD1, B203278-BS1, B203278-BSD1, S023182-CCV1, S023184-CCV1

Bromoform

B202661-BS1, B202661-BSD1, S022905-CCV1

Dibromomethane

B202661-BS1, B202661-BSD1, S022905-CCV1

tert-Butyl Alcohol (TBA)

B202587-BS1, B202587-BSD1, B203278-BS1, B203278-BSD1, S023182-CCV1, S023184-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**

18E0084-01[401075-MW-02-5-10], 18E0084-04[401075- 11-0-5], 18E0084-05[401075-SB-11A-0-5], 18E0084-07[401075-MW-03-10-13], 18E0084-08[401075-SB-10-5-9.5], 18E0084-09[401075-MW-04-5-10], 18E0084-10[401075-SB-09-5-10], B202592-BLK1, B202592-BS1, B202592-BSD1, B202661-BLK1, B202661-BS1, B202661-BSD1, S022851-CCV1, S022905-CCV1

Dichlorodifluoromethane (Freon 12)

18E0084-01[401075-MW-02-5-10], 18E0084-04[401075- 11-0-5], 18E0084-05[401075-SB-11A-0-5], 18E0084-07[401075-MW-03-10-13], 18E0084-08[401075-SB-10-5-9.5], 18E0084-09[401075-MW-04-5-10], 18E0084-10[401075-SB-09-5-10], B202587-BS1, B202587-BSD1, B202592-BLK1, B202592-BS1, B202592-BSD1, B202661-BLK1, B202661-BS1, B202661-BSD1, B203278-BS1, B203278-BSD1, S022851-CCV1, S022905-CCV1, S023182-CCV1, S023184-CCV1

SW-846 8270D**Qualifications:****L-04**

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

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

18E0084-14[401075-RB-5-1-2018], B202549-BLK1, B202549-BS1, B202549-BSD1

MS-09

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

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

18E0084-04RE1[401075-11-0-5], B203445-MS1, B203445-MSD1

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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-Dimethylphenol**

18E0084-14[401075-RB-5-1-2018], B202549-BLK1, B202549-BS1, B202549-BSD1

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**

18E0084-01RE1[401075-MW-02-5-10], 18E0084-02RE1[401075-SB-04-10-12], 18E0084-03RE1[401075-SB-12-5-9], 18E0084-04RE1[401075- 11-0-5], 18E0084-05RE1[401075-SB-11A-0-5], 18E0084-07RE1[401075-MW-03-10-13], 18E0084-08RE1[401075-SB-10-5-9.5], 18E0084-09RE1[401075-MW-04-5-10], 18E0084-10RE1[401075-SB-09-5-10], 18E0084- 11RE1[401075-SB-05-5-10], 18E0084-14[401075-RB-5-1-2018], B202549-BLK1, B202549-BS1, B202549-BSD1, B203445-BLK1, B203445-BS1, B203445-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

18E0084-14[401075-RB-5-1-2018]

Aniline

18E0084-01RE1[401075-MW-02-5-10], 18E0084-02RE1[401075-SB-04-10-12], 18E0084-03RE1[401075-SB-12-5-9], 18E0084-04RE1[401075- 11-0-5], 18E0084-05RE1[401075-SB-11A-0-5], 18E0084-07RE1[401075-MW-03-10-13], 18E0084-08RE1[401075-SB-10-5-9.5], 18E0084-09RE1[401075-MW-04-5-10], 18E0084-10RE1[401075-SB-09-5-10], 18E0084- 11RE1[401075-SB-05-5-10], 18E0084-14[401075-RB-5-1-2018], B202549-BLK1, B202549-BS1, B202549-BSD1, B203445-MS1, B203445-MSD1

Benzidine

18E0084-01RE1[401075-MW-02-5-10], 18E0084-02RE1[401075-SB-04-10-12], 18E0084-03RE1[401075-SB-12-5-9], 18E0084-04RE1[401075- 11-0-5], 18E0084-05RE1[401075-SB-11A-0-5], 18E0084-07RE1[401075-MW-03-10-13], 18E0084-08RE1[401075-SB-10-5-9.5], 18E0084-09RE1[401075-MW-04-5-10], 18E0084-10RE1[401075-SB-09-5-10], 18E0084- 11RE1[401075-SB-05-5-10], 18E0084-14[401075-RB-5-1-2018], B202549-BLK1, B202549-BS1, B202549-BSD1, B203445-BLK1, B203445-BS1, B203445-BSD1, B203445-MS1, B203445-MSD1

Hexachlorocyclopentadiene

18E0084-01RE1[401075-MW-02-5-10], 18E0084-02RE1[401075-SB-04-10-12], 18E0084-03RE1[401075-SB-12-5-9], 18E0084-04RE1[401075- 11-0-5], 18E0084-05RE1[401075-SB-11A-0-5], 18E0084-07RE1[401075-MW-03-10-13], 18E0084-08RE1[401075-SB-10-5-9.5], 18E0084-09RE1[401075-MW-04-5-10], 18E0084-10RE1[401075-SB-09-5-10], 18E0084- 11RE1[401075-SB-05-5-10], 18E0084-14[401075-RB-5-1-2018], B202549-BLK1, B202549-BS1, B202549-BSD1, B203445-BLK1, B203445-BS1, B203445-BSD1, B203445-MS1, B203445-MSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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

B203445-BS1, B203445-BSD1, B203445-MS1, B203445-MSD1

Bis(2-chloroethyl)ether

B203445-MS1, B203445-MSD1

Bis(2-chloroisopropyl)ether

B203445-BS1, B203445-BSD1, B203445-MS1, B203445-MSD1

N-Nitrosodimethylamine

B203445-BS1, B203445-BSD1

V-16

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

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

18E0084-01RE1[401075-MW-02-5-10], 18E0084-02RE1[401075-SB-04-10-12], 18E0084-03RE1[401075-SB-12-5-9], 18E0084-04RE1[401075- 11-0-5], 18E0084-05RE1[401075-SB-11A-0-5], 18E0084-07RE1[401075-MW-03-10-13], 18E0084-08RE1[401075-SB-10-5-9.5], 18E0084-09RE1[401075-MW-04-5-10], 18E0084-10RE1[401075-SB-09-5-10], 18E0084- 11RE1[401075-SB-05-5-10], 18E0084-14[401075-RB-5-1-2018], B202549-BLK1, B202549-BS1, B202549-BSD1, B203445-BLK1, B203445-BS1, B203445-BSD1

V-19

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

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

18E0084-14[401075-RB-5-1-2018], B202549-BLK1, B202549-BS1, B202549-BSD1

V-20

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

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

18E0084-01RE1[401075-MW-02-5-10], 18E0084-02RE1[401075-SB-04-10-12], 18E0084-03RE1[401075-SB-12-5-9], 18E0084-04RE1[401075- 11-0-5], 18E0084-05RE1[401075-SB-11A-0-5], 18E0084-07RE1[401075-MW-03-10-13], 18E0084-08RE1[401075-SB-10-5-9.5], 18E0084-09RE1[401075-MW-04-5-10], 18E0084-10RE1[401075-SB-09-5-10], 18E0084-11RE1[401075-SB-05-5-10], B203445-BLK1

Bis(2-chloroethyl)ether

18E0084-01RE1[401075-MW-02-5-10], 18E0084-02RE1[401075-SB-04-10-12], 18E0084-03RE1[401075-SB-12-5-9], 18E0084-04RE1[401075- 11-0-5], 18E0084-05RE1[401075-SB-11A-0-5], 18E0084-07RE1[401075-MW-03-10-13], 18E0084-08RE1[401075-SB-10-5-9.5], 18E0084-09RE1[401075-MW-04-5-10], 18E0084-10RE1[401075-SB-09-5-10], 18E0084-11RE1[401075-SB-05-5-10]

Bis(2-chloroisopropyl)ether

18E0084-01RE1[401075-MW-02-5-10], 18E0084-02RE1[401075-SB-04-10-12], 18E0084-03RE1[401075-SB-12-5-9], 18E0084-04RE1[401075- 11-0-5], 18E0084-05RE1[401075-SB-11A-0-5], 18E0084-07RE1[401075-MW-03-10-13], 18E0084-08RE1[401075-SB-10-5-9.5], 18E0084-09RE1[401075-MW-04-5-10], 18E0084-10RE1[401075-SB-09-5-10], 18E0084-11RE1[401075-SB-05-5-10], B203445-BLK1

N-Nitrosodimethylamine

B203445-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**

18E0084-01RE1[401075-MW-02-5-10], 18E0084-02RE1[401075-SB-04-10-12], 18E0084-03RE1[401075-SB-12-5-9], 18E0084-04RE1[401075- 11-0-5], 18E0084-05RE1[401075-SB-11A-0-5], 18E0084-07RE1[401075-MW-03-10-13], 18E0084-08RE1[401075-SB-10-5-9.5], 18E0084-09RE1[401075-MW-04-5-10], 18E0084-10RE1[401075-SB-09-5-10], 18E0084-11RE1[401075-SB-05-5-10], 18E0084-14[401075-RB-5-1-2018], B202549-BLK1, B202549-BS1, B202549-BSD1, B203445-BLK1, B203445-BS1, B203445-BSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

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
Project Manager

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-02-5-10

Sampled: 5/1/2018 08:30

Sample ID: 18E0084-01

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.043	0.11	0.026	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Acrylonitrile	ND	0.0067	0.0028	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Benzene	ND	0.0022	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Bromobenzene	ND	0.0022	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Bromochloromethane	ND	0.0022	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Bromodichloromethane	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Bromoform	ND	0.0022	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Bromomethane	ND	0.011	0.0047	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 16:43	MFF
2-Butanone (MEK)	ND	0.045	0.020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
tert-Butyl Alcohol (TBA)	ND	0.045	0.023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
n-Butylbenzene	ND	0.0022	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
sec-Butylbenzene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
tert-Butylbenzene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Carbon Disulfide	ND	0.0067	0.0048	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Carbon Tetrachloride	ND	0.0022	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Chlorobenzene	ND	0.0022	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Chlorodibromomethane	ND	0.0022	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Chloroethane	ND	0.022	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Chloroform	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Chloromethane	ND	0.011	0.0072	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/4/18	5/4/18 16:43	MFF
2-Chlorotoluene	ND	0.0022	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
4-Chlorotoluene	ND	0.0022	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,2-Dibromoethane (EDB)	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Dibromomethane	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
trans-1,4-Dichloro-2-butene	ND	0.0045	0.0024	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0015	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,1-Dichloroethane	ND	0.0022	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,2-Dichloroethane	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,1-Dichloroethylene	ND	0.0045	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,2-Dichloropropane	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,3-Dichloropropane	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
2,2-Dichloropropane	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,1-Dichloropropene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Diethyl Ether	ND	0.022	0.0020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-02-5-10

Sampled: 5/1/2018 08:30

Sample ID: 18E0084-01

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,4-Dioxane	ND	0.11	0.065	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Ethylbenzene	ND	0.0022	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Hexachlorobutadiene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
2-Hexanone (MBK)	ND	0.022	0.012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Methyl Acetate	ND	0.0022	0.0018	mg/Kg dry	1	L-04	SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Methyl Cyclohexane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Methylene Chloride	ND	0.022	0.0080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0085	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Naphthalene	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
n-Propylbenzene	ND	0.0022	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Styrene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	0.0020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Tetrachloroethylene	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Tetrahydrofuran	ND	0.011	0.0025	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Toluene	ND	0.0022	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,3,5-Trichlorobenzene	ND	0.0022	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Trichloroethylene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,2,3-Trichloropropane	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,2,4-Trimethylbenzene	ND	0.0022	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
1,3,5-Trimethylbenzene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
m+p Xylene	ND	0.0045	0.0019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
o-Xylene	ND	0.0022	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:43	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	96.6	70-130				5/4/18 16:43				
Toluene-d8	98.3	70-130				5/4/18 16:43				
4-Bromofluorobenzene	99.5	70-130				5/4/18 16:43				

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-02-5-10

Sampled: 5/1/2018 08:30

Sample ID: 18E0084-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Acetophenone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Aniline	ND	0.40	0.11	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Benzidine	ND	0.77	0.49	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Benzoic Acid	ND	1.2	0.21	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Bis(2-chloroethoxy)methane	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Bis(2-chloroethyl)ether	ND	0.40	0.078	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Bis(2-chloroisopropyl)ether	ND	0.40	0.085	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
4-Bromophenylphenylether	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Butylbenzylphthalate	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Carbazole	ND	0.20	0.051	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
4-Chloroaniline	ND	0.77	0.091	mg/Kg dry	1	V-34	SW-846 8270D	5/15/18	5/16/18 18:03	CDT
4-Chloro-3-methylphenol	ND	0.77	0.085	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2-Chloronaphthalene	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2-Chlorophenol	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
4-Chlorophenylphenylether	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Dibenzofuran	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Di-n-butylphthalate	ND	0.40	0.086	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
1,2-Dichlorobenzene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
1,3-Dichlorobenzene	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
1,4-Dichlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
3,3-Dichlorobenzidine	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2,4-Dichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Diethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2,4-Dimethylphenol	ND	0.40	0.073	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Dimethylphthalate	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2,4-Dinitrophenol	ND	0.77	0.23	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2,4-Dinitrotoluene	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2,6-Dinitrotoluene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-02-5-10

Sampled: 5/1/2018 08:30

Sample ID: 18E0084-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Hexachlorobutadiene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Hexachlorocyclopentadiene	ND	0.40	0.084	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Hexachloroethane	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Isophorone	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
1-Methylnaphthalene	ND	0.20	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2-Methylphenol	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2-Nitroaniline	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
3-Nitroaniline	ND	0.40	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
4-Nitroaniline	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Nitrobenzene	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2-Nitrophenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
4-Nitrophenol	ND	0.77	0.086	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
N-Nitrosodimethylamine	ND	0.40	0.25	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
N-Nitrosodiphenylamine	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
N-Nitrosodi-n-propylamine	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Pentachloronitrobenzene	ND	0.40	0.094	mg/Kg dry	1	V-16	SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Pentachlorophenol	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Phenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Pyridine	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
1,2,4-Trichlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2,4,5-Trichlorophenol	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
2,4,6-Trichlorophenol	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:03	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	81.1		30-130				5/16/18 18:03			
Phenol-d6	87.6		30-130				5/16/18 18:03			
Nitrobenzene-d5	75.0		30-130				5/16/18 18:03			
2-Fluorobiphenyl	64.6		30-130				5/16/18 18:03			
2,4,6-Tribromophenol	76.9		30-130				5/16/18 18:03			
p-Terphenyl-d14	78.5		30-130				5/16/18 18:03			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-02-5-10

Sampled: 5/1/2018 08:30

Sample ID: 18E0084-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	0.055	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:01	JMB
Aroclor-1221 [1]	ND	0.092	0.060	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:01	JMB
Aroclor-1232 [1]	ND	0.092	0.041	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:01	JMB
Aroclor-1242 [1]	ND	0.092	0.046	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:01	JMB
Aroclor-1248 [1]	ND	0.092	0.055	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:01	JMB
Aroclor-1254 [1]	ND	0.092	0.060	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:01	JMB
Aroclor-1260 [1]	ND	0.092	0.064	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:01	JMB
Aroclor-1262 [1]	ND	0.092	0.046	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:01	JMB
Aroclor-1268 [1]	ND	0.092	0.037	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:01	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	80.7		30-150				5/11/18 17:01			
Decachlorobiphenyl [2]	101		30-150				5/11/18 17:01			
Tetrachloro-m-xylene [1]	84.4		30-150				5/11/18 17:01			
Tetrachloro-m-xylene [2]	86.9		30-150				5/11/18 17:01			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-02-5-10

Sampled: 5/1/2018 08:30

Sample ID: 18E0084-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	13000	2.0	1.9	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 20:22	MJH
Antimony	ND	2.0	1.4	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Arsenic	10	2.0	1.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Barium	110	2.0	1.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Beryllium	0.77	0.20	0.15	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Cadmium	0.27	0.20	0.12	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Calcium	920	6.1	4.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Chromium	19	0.41	0.25	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Cobalt	7.9	2.0	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Copper	42	0.41	0.35	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Iron	38000	20	18	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 10:41	QNW
Lead	17	0.61	0.36	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Magnesium	3800	6.1	3.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Manganese	260	0.41	0.12	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Mercury	0.032	0.030	0.0030	mg/Kg dry	1		SW-846 7471B	5/14/18	5/15/18 10:53	EJB
Nickel	22	0.41	0.32	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Potassium	2300	820	290	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 10:41	QNW
Selenium	ND	4.1	3.4	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Silver	ND	0.82	0.48	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 10:46	QNW
Sodium	240	82	31	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Thallium	ND	2.0	1.5	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Vanadium	19	0.82	0.60	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW
Zinc	86	0.82	0.56	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:09	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-02-5-10

Sampled: 5/1/2018 08:30

Sample ID: 18E0084-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.47	0.23	mg/Kg dry	1		SW-846 9014	5/9/18	5/10/18 16:30	DJM
% Solids	85.2			% Wt	1		SM 2540G	5/9/18	5/10/18 7:22	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-04-10-12

Sampled: 5/1/2018 09:20

Sample ID: 18E0084-02

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	12	2.3	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Acrylonitrile	ND	1.2	0.14	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.12	0.025	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Benzene	ND	0.23	0.028	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Bromobenzene	ND	0.23	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Bromochloromethane	ND	0.23	0.052	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Bromodichloromethane	ND	0.23	0.069	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Bromoform	ND	0.23	0.049	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Bromomethane	ND	0.47	0.22	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
2-Butanone (MEK)	ND	4.7	0.56	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
tert-Butyl Alcohol (TBA)	ND	4.7	0.51	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
n-Butylbenzene	0.69	0.23	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
sec-Butylbenzene	0.26	0.23	0.031	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
tert-Butylbenzene	ND	0.23	0.028	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.12	0.022	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Carbon Disulfide	ND	0.70	0.24	mg/Kg dry	4	V-05	SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Carbon Tetrachloride	ND	0.23	0.058	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Chlorobenzene	ND	0.23	0.038	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Chlorodibromomethane	ND	0.12	0.024	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Chloroethane	ND	0.47	0.066	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Chloroform	ND	0.47	0.052	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Chloromethane	ND	0.47	0.13	mg/Kg dry	4	V-05	SW-846 8260C	5/4/18	5/15/18 1:48	LBD
2-Chlorotoluene	ND	0.23	0.028	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
4-Chlorotoluene	ND	0.23	0.033	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.2	0.087	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,2-Dibromoethane (EDB)	ND	0.12	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Dibromomethane	ND	0.23	0.038	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,2-Dichlorobenzene	ND	0.23	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,3-Dichlorobenzene	ND	0.23	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,4-Dichlorobenzene	ND	0.23	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
trans-1,4-Dichloro-2-butene	ND	0.47	0.073	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.47	0.067	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,1-Dichloroethane	ND	0.23	0.037	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,2-Dichloroethane	ND	0.23	0.046	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,1-Dichloroethylene	ND	0.23	0.049	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
cis-1,2-Dichloroethylene	0.63	0.23	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
trans-1,2-Dichloroethylene	ND	0.23	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,2-Dichloropropane	ND	0.23	0.031	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,3-Dichloropropane	ND	0.12	0.031	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
2,2-Dichloropropane	ND	0.23	0.050	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,1-Dichloropropene	ND	0.47	0.030	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
cis-1,3-Dichloropropene	ND	0.12	0.028	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
trans-1,3-Dichloropropene	ND	0.12	0.026	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Diethyl Ether	ND	0.47	0.052	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-04-10-12

Sampled: 5/1/2018 09:20

Sample ID: 18E0084-02

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.12	0.042	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,4-Dioxane	ND	23	6.2	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Ethylbenzene	0.10	0.23	0.031	mg/Kg dry	4	J	SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Hexachlorobutadiene	ND	0.23	0.14	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
2-Hexanone (MBK)	ND	2.3	0.36	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Isopropylbenzene (Cumene)	0.13	0.23	0.028	mg/Kg dry	4	J	SW-846 8260C	5/4/18	5/15/18 1:48	LBD
p-Isopropyltoluene (p-Cymene)	0.31	0.23	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Methyl Acetate	ND	2.3	0.099	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.23	0.021	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Methyl Cyclohexane	ND	0.23	0.15	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Methylene Chloride	ND	1.2	0.75	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
4-Methyl-2-pentanone (MIBK)	ND	2.3	0.34	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Naphthalene	0.57	0.47	0.028	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
n-Propylbenzene	0.37	0.23	0.031	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Styrene	ND	0.23	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,1,1,2-Tetrachloroethane	ND	0.23	0.028	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,1,2,2-Tetrachloroethane	ND	0.12	0.038	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Tetrachloroethylene	19	0.23	0.064	mg/Kg dry	4	L-06	SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Tetrahydrofuran	ND	2.3	0.25	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Toluene	ND	0.23	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,2,3-Trichlorobenzene	ND	1.2	0.033	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,2,4-Trichlorobenzene	ND	0.23	0.045	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,3,5-Trichlorobenzene	ND	0.23	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,1,1-Trichloroethane	ND	0.23	0.031	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,1,2-Trichloroethane	ND	0.23	0.055	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Trichloroethylene	0.54	0.23	0.047	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Trichlorofluoromethane (Freon 11)	ND	0.47	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,2,3-Trichloropropane	ND	0.47	0.050	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.23	0.046	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,2,4-Trimethylbenzene	2.5	0.23	0.042	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
1,3,5-Trimethylbenzene	1.0	0.23	0.031	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Vinyl Chloride	ND	0.47	0.031	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 1:48	LBD
m+p Xylene	0.21	0.47	0.060	mg/Kg dry	4	J	SW-846 8260C	5/4/18	5/15/18 1:48	LBD
o-Xylene	0.13	0.23	0.031	mg/Kg dry	4	J	SW-846 8260C	5/4/18	5/15/18 1:48	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	100		70-130				5/15/18 1:48			
Toluene-d8	102		70-130				5/15/18 1:48			
4-Bromofluorobenzene	105		70-130				5/15/18 1:48			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-04-10-12

Sampled: 5/1/2018 09:20

Sample ID: 18E0084-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.072	0.19	0.056	mg/Kg dry	1	J	SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Acenaphthylene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Acetophenone	ND	0.38	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Aniline	ND	0.38	0.11	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Anthracene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Benzidine	ND	0.73	0.47	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Benzo(a)anthracene	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Benzo(a)pyrene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Benzo(b)fluoranthene	ND	0.19	0.053	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Benzo(g,h,i)perylene	ND	0.19	0.083	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Benzo(k)fluoranthene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Benzoic Acid	ND	1.1	0.20	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Bis(2-chloroethoxy)methane	ND	0.38	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Bis(2-chloroethyl)ether	ND	0.38	0.074	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Bis(2-chloroisopropyl)ether	ND	0.38	0.081	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Bis(2-Ethylhexyl)phthalate	0.19	0.38	0.15	mg/Kg dry	1	J	SW-846 8270D	5/15/18	5/16/18 18:28	CDT
4-Bromophenylphenylether	ND	0.38	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Butylbenzylphthalate	ND	0.38	0.090	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Carbazole	ND	0.19	0.049	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
4-Chloroaniline	ND	0.73	0.086	mg/Kg dry	1	V-34	SW-846 8270D	5/15/18	5/16/18 18:28	CDT
4-Chloro-3-methylphenol	ND	0.73	0.081	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2-Chloronaphthalene	ND	0.38	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2-Chlorophenol	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
4-Chlorophenylphenylether	ND	0.38	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Chrysene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Dibenzofuran	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Di-n-butylphthalate	ND	0.38	0.082	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
1,2-Dichlorobenzene	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
1,3-Dichlorobenzene	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
1,4-Dichlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
3,3-Dichlorobenzidine	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2,4-Dichlorophenol	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Diethylphthalate	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2,4-Dimethylphenol	ND	0.38	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Dimethylphthalate	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
4,6-Dinitro-2-methylphenol	ND	0.38	0.36	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2,4-Dinitrophenol	ND	0.73	0.21	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2,4-Dinitrotoluene	ND	0.38	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2,6-Dinitrotoluene	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Di-n-octylphthalate	ND	0.38	0.20	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Fluoranthene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Fluorene	0.15	0.19	0.061	mg/Kg dry	1	J	SW-846 8270D	5/15/18	5/16/18 18:28	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-04-10-12

Sampled: 5/1/2018 09:20

Sample ID: 18E0084-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Hexachlorobutadiene	ND	0.38	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Hexachlorocyclopentadiene	ND	0.38	0.080	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Hexachloroethane	ND	0.38	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Isophorone	ND	0.38	0.073	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
1-Methylnaphthalene	0.84	0.19	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2-Methylnaphthalene	1.4	0.19	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2-Methylphenol	ND	0.38	0.094	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
3/4-Methylphenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Naphthalene	0.68	0.19	0.096	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2-Nitroaniline	ND	0.38	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
3-Nitroaniline	ND	0.38	0.054	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
4-Nitroaniline	ND	0.38	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Nitrobenzene	ND	0.38	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2-Nitrophenol	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
4-Nitrophenol	ND	0.73	0.082	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
N-Nitrosodimethylamine	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
N-Nitrosodiphenylamine	ND	0.38	0.077	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
N-Nitrosodi-n-propylamine	ND	0.38	0.077	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Pentachloronitrobenzene	ND	0.38	0.090	mg/Kg dry	1	V-16	SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Pentachlorophenol	ND	0.38	0.091	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Phenanthrene	0.37	0.19	0.097	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Phenol	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Pyrene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Pyridine	ND	0.38	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
1,2,4-Trichlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2,4,5-Trichlorophenol	ND	0.38	0.085	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
2,4,6-Trichlorophenol	ND	0.38	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:28	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	87.7		30-130				5/16/18 18:28			
Phenol-d6	91.4		30-130				5/16/18 18:28			
Nitrobenzene-d5	75.3		30-130				5/16/18 18:28			
2-Fluorobiphenyl	60.8		30-130				5/16/18 18:28			
2,4,6-Tribromophenol	84.7		30-130				5/16/18 18:28			
p-Terphenyl-d14	76.8		30-130				5/16/18 18:28			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-04-10-12

Sampled: 5/1/2018 09:20

Sample ID: 18E0084-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	0.053	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:18	JMB
Aroclor-1221 [1]	ND	0.089	0.058	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:18	JMB
Aroclor-1232 [1]	ND	0.089	0.040	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:18	JMB
Aroclor-1242 [1]	ND	0.089	0.044	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:18	JMB
Aroclor-1248 [1]	ND	0.089	0.053	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:18	JMB
Aroclor-1254 [1]	ND	0.089	0.058	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:18	JMB
Aroclor-1260 [1]	ND	0.089	0.062	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:18	JMB
Aroclor-1262 [1]	ND	0.089	0.044	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:18	JMB
Aroclor-1268 [1]	ND	0.089	0.035	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:18	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	74.1		30-150							
Decachlorobiphenyl [2]	90.9		30-150							
Tetrachloro-m-xylene [1]	68.0		30-150							
Tetrachloro-m-xylene [2]	70.1		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-04-10-12

Sampled: 5/1/2018 09:20

Sample ID: 18E0084-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	12000	1.9	1.7	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 20:29	MJH
Antimony	ND	1.9	1.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Arsenic	6.8	1.9	0.94	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Barium	89	1.9	0.92	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Beryllium	0.65	0.19	0.14	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Cadmium	0.15	0.19	0.11	mg/Kg dry	1	J	SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Calcium	1100	5.6	3.8	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Chromium	18	0.37	0.23	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Cobalt	13	1.9	1.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Copper	39	0.37	0.32	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Iron	33000	19	16	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 10:52	QNW
Lead	13	0.56	0.33	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Magnesium	4100	5.6	3.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Manganese	330	0.37	0.11	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Mercury	0.034	0.026	0.0026	mg/Kg dry	1		SW-846 7471B	5/14/18	5/15/18 10:55	EJB
Nickel	26	0.37	0.29	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Potassium	1900	740	270	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 10:52	QNW
Selenium	ND	3.7	3.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Silver	ND	0.74	0.43	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 10:58	QNW
Sodium	190	74	28	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Thallium	ND	1.9	1.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Vanadium	17	0.74	0.55	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW
Zinc	86	0.74	0.51	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:14	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-04-10-12

Sampled: 5/1/2018 09:20

Sample ID: 18E0084-02

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.45	0.22	mg/Kg dry	1		SW-846 9014	5/9/18	5/10/18 16:30	DJM
% Solids	89.4			% Wt	1		SM 2540G	5/9/18	5/10/18 7:22	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-12-5-9

Sampled: 5/1/2018 10:10

Sample ID: 18E0084-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	3.4	0.66	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Acrylonitrile	ND	0.34	0.040	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.034	0.0073	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Benzene	ND	0.068	0.0082	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Bromobenzene	ND	0.068	0.010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Bromochloromethane	ND	0.068	0.015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Bromodichloromethane	ND	0.068	0.020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Bromoform	ND	0.068	0.014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Bromomethane	ND	0.14	0.064	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
2-Butanone (MEK)	ND	1.4	0.16	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
tert-Butyl Alcohol (TBA)	ND	1.4	0.15	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
n-Butylbenzene	5.1	0.068	0.010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
sec-Butylbenzene	2.2	0.068	0.0089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
tert-Butylbenzene	0.25	0.068	0.0083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.034	0.0065	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Carbon Disulfide	ND	0.21	0.070	mg/Kg dry	1	V-05	SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Carbon Tetrachloride	ND	0.068	0.017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Chlorobenzene	ND	0.068	0.011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Chlorodibromomethane	ND	0.034	0.0071	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Chloroethane	ND	0.14	0.019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Chloroform	ND	0.14	0.015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Chloromethane	ND	0.14	0.038	mg/Kg dry	1	V-05	SW-846 8260C	5/4/18	5/15/18 3:20	LBD
2-Chlorotoluene	ND	0.068	0.0082	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
4-Chlorotoluene	ND	0.068	0.0096	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.34	0.025	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,2-Dibromoethane (EDB)	ND	0.034	0.010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Dibromomethane	ND	0.068	0.011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,2-Dichlorobenzene	ND	0.068	0.012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,3-Dichlorobenzene	ND	0.068	0.012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,4-Dichlorobenzene	ND	0.068	0.010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
trans-1,4-Dichloro-2-butene	ND	0.14	0.021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.14	0.019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,1-Dichloroethane	ND	0.068	0.011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,2-Dichloroethane	ND	0.068	0.013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,1-Dichloroethylene	ND	0.068	0.014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
cis-1,2-Dichloroethylene	0.32	0.068	0.010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
trans-1,2-Dichloroethylene	ND	0.068	0.010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,2-Dichloropropane	ND	0.068	0.0089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,3-Dichloropropane	ND	0.034	0.0089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
2,2-Dichloropropane	ND	0.068	0.015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,1-Dichloropropene	ND	0.14	0.0088	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
cis-1,3-Dichloropropene	ND	0.034	0.0082	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
trans-1,3-Dichloropropene	ND	0.034	0.0077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Diethyl Ether	ND	0.14	0.015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-12-5-9

Sampled: 5/1/2018 10:10

Sample ID: 18E0084-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.034	0.012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,4-Dioxane	ND	6.8	1.8	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Ethylbenzene	0.30	0.068	0.0089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Hexachlorobutadiene	ND	0.068	0.040	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
2-Hexanone (MBK)	ND	0.68	0.10	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Isopropylbenzene (Cumene)	0.83	0.068	0.0082	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
p-Isopropyltoluene (p-Cymene)	1.8	0.068	0.010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Methyl Acetate	ND	0.68	0.029	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.068	0.0062	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Methyl Cyclohexane	0.48	0.068	0.043	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Methylene Chloride	ND	0.34	0.22	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
4-Methyl-2-pentanone (MIBK)	ND	0.68	0.10	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Naphthalene	1.0	0.14	0.0083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
n-Propylbenzene	2.1	0.068	0.0089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Styrene	ND	0.068	0.010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,1,1,2-Tetrachloroethane	ND	0.068	0.0081	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,1,2,2-Tetrachloroethane	ND	0.034	0.011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Tetrachloroethylene	0.20	0.068	0.019	mg/Kg dry	1	L-06	SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Tetrahydrofuran	ND	0.68	0.073	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Toluene	ND	0.068	0.012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,2,3-Trichlorobenzene	ND	0.34	0.0096	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,2,4-Trichlorobenzene	ND	0.068	0.013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,3,5-Trichlorobenzene	ND	0.068	0.012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,1,1-Trichloroethane	ND	0.068	0.0090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,1,2-Trichloroethane	ND	0.068	0.016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Trichloroethylene	ND	0.068	0.014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Trichlorofluoromethane (Freon 11)	ND	0.14	0.010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,2,3-Trichloropropane	ND	0.14	0.015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.068	0.013	mg/Kg dry	1	MS-12	SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,2,4-Trimethylbenzene	6.1	0.068	0.012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
1,3,5-Trimethylbenzene	1.4	0.068	0.0089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Vinyl Chloride	ND	0.14	0.0091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/15/18 3:20	LBD
m+p Xylene	0.034	0.14	0.017	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/15/18 3:20	LBD
o-Xylene	0.042	0.068	0.0090	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/15/18 3:20	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	99.1		70-130				5/15/18 3:20			
Toluene-d8	103		70-130				5/15/18 3:20			
4-Bromofluorobenzene	105		70-130				5/15/18 3:20			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-12-5-9

Sampled: 5/1/2018 10:10

Sample ID: 18E0084-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Acetophenone	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Aniline	ND	0.40	0.11	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Benzidine	ND	0.78	0.50	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Benzoic Acid	ND	1.2	0.21	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Bis(2-chloroethoxy)methane	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Bis(2-chloroethyl)ether	ND	0.40	0.079	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Bis(2-chloroisopropyl)ether	ND	0.40	0.086	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
4-Bromophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Butylbenzylphthalate	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Carbazole	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
4-Chloroaniline	ND	0.78	0.092	mg/Kg dry	1	V-34	SW-846 8270D	5/15/18	5/16/18 18:53	CDT
4-Chloro-3-methylphenol	ND	0.78	0.086	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2-Chloronaphthalene	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2-Chlorophenol	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
4-Chlorophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Dibenzofuran	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Di-n-butylphthalate	ND	0.40	0.087	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
1,2-Dichlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
1,3-Dichlorobenzene	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
1,4-Dichlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
3,3-Dichlorobenzidine	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2,4-Dichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Diethylphthalate	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2,4-Dimethylphenol	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Dimethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2,4-Dinitrophenol	ND	0.78	0.23	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2,4-Dinitrotoluene	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2,6-Dinitrotoluene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-12-5-9

Sampled: 5/1/2018 10:10

Sample ID: 18E0084-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Hexachlorobutadiene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Hexachlorocyclopentadiene	ND	0.40	0.085	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Hexachloroethane	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Isophorone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
1-Methylnaphthalene	0.19	0.20	0.077	mg/Kg dry	1	J	SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2-Methylnaphthalene	0.084	0.20	0.070	mg/Kg dry	1	J	SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2-Methylphenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
3-Nitroaniline	ND	0.40	0.058	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
4-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Nitrobenzene	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
4-Nitrophenol	ND	0.78	0.087	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
N-Nitrosodimethylamine	ND	0.40	0.25	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
N-Nitrosodiphenylamine	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
N-Nitrosodi-n-propylamine	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Pentachloronitrobenzene	ND	0.40	0.096	mg/Kg dry	1	V-16	SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Pentachlorophenol	ND	0.40	0.097	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Phenanthrene	0.16	0.20	0.10	mg/Kg dry	1	J	SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Phenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Pyridine	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
1,2,4-Trichlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2,4,5-Trichlorophenol	ND	0.40	0.091	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
2,4,6-Trichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 18:53	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	85.1		30-130				5/16/18 18:53			
Phenol-d6	90.1		30-130				5/16/18 18:53			
Nitrobenzene-d5	76.9		30-130				5/16/18 18:53			
2-Fluorobiphenyl	60.4		30-130				5/16/18 18:53			
2,4,6-Tribromophenol	74.3		30-130				5/16/18 18:53			
p-Terphenyl-d14	75.3		30-130				5/16/18 18:53			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-12-5-9

Sampled: 5/1/2018 10:10

Sample ID: 18E0084-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	0.055	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:35	JMB
Aroclor-1221 [1]	ND	0.092	0.060	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:35	JMB
Aroclor-1232 [1]	ND	0.092	0.041	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:35	JMB
Aroclor-1242 [1]	ND	0.092	0.046	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:35	JMB
Aroclor-1248 [1]	ND	0.092	0.055	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:35	JMB
Aroclor-1254 [1]	ND	0.092	0.060	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:35	JMB
Aroclor-1260 [1]	ND	0.092	0.064	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:35	JMB
Aroclor-1262 [1]	ND	0.092	0.046	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:35	JMB
Aroclor-1268 [1]	ND	0.092	0.037	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:35	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	76.1		30-150				5/11/18 17:35			
Decachlorobiphenyl [2]	94.1		30-150				5/11/18 17:35			
Tetrachloro-m-xylene [1]	68.4		30-150				5/11/18 17:35			
Tetrachloro-m-xylene [2]	70.5		30-150				5/11/18 17:35			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-12-5-9

Sampled: 5/1/2018 10:10

Sample ID: 18E0084-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	17000	2.0	1.8	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 20:35	QNW
Antimony	ND	2.0	1.4	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Arsenic	6.8	2.0	1.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Barium	130	2.0	0.99	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Beryllium	1.1	0.20	0.15	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Cadmium	0.27	0.20	0.12	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Calcium	6700	6.0	4.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Chromium	25	0.40	0.25	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Cobalt	12	2.0	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Copper	60	0.40	0.34	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Iron	44000	20	17	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:03	QNW
Lead	23	0.60	0.35	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Magnesium	5900	6.0	3.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Manganese	390	0.40	0.12	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Mercury	0.043	0.031	0.0031	mg/Kg dry	1		SW-846 7471B	5/14/18	5/15/18 10:56	EJB
Nickel	34	0.40	0.32	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Potassium	2200	800	290	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:03	QNW
Selenium	ND	4.0	3.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Silver	ND	0.80	0.47	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 11:09	QNW
Sodium	200	80	30	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Thallium	ND	2.0	1.4	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Vanadium	25	0.80	0.59	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW
Zinc	100	0.80	0.55	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:19	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-12-5-9

Sampled: 5/1/2018 10:10

Sample ID: 18E0084-03

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	3.7	0.44	0.22	mg/Kg dry	1		SW-846 9014	5/9/18	5/10/18 16:30	DJM
% Solids	83.9			% Wt	1		SM 2540G	5/9/18	5/10/18 7:22	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-11-0-5

Sampled: 5/1/2018 10:55

Sample ID: 18E0084-04

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Acrylonitrile	ND	0.0060	0.0025	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Benzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Bromomethane	ND	0.010	0.0042	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 14:00	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	0.021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
n-Butylbenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
sec-Butylbenzene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
tert-Butylbenzene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Carbon Disulfide	ND	0.0060	0.0043	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Chlorodibromomethane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Chloromethane	ND	0.010	0.0064	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/4/18	5/4/18 14:00	MFF
2-Chlorotoluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
4-Chlorotoluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Dibromomethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	0.0021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,3-Dichloropropane	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
2,2-Dichloropropane	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,1-Dichloropropene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Diethyl Ether	ND	0.020	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-11-0-5

Sampled: 5/1/2018 10:55

Sample ID: 18E0084-04

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0010	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Hexachlorobutadiene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1	L-04	SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Methyl Cyclohexane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Methylene Chloride	ND	0.020	0.0071	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Naphthalene	ND	0.0040	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
n-Propylbenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Styrene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Tetrachloroethylene	0.049	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Tetrahydrofuran	ND	0.010	0.0022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Toluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,3,5-Trichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:00	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	101	70-130				5/4/18 14:00				
Toluene-d8	99.0	70-130				5/4/18 14:00				
4-Bromofluorobenzene	98.2	70-130				5/4/18 14:00				

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-11-0-5

Sampled: 5/1/2018 10:55

Sample ID: 18E0084-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Acenaphthylene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Acetophenone	ND	0.36	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Aniline	ND	0.36	0.10	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Anthracene	ND	0.18	0.053	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Benzidine	ND	0.71	0.46	mg/Kg dry	1	MS-09, V-04, V-05	SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Benzo(a)anthracene	ND	0.18	0.048	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Benzo(a)pyrene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Benzo(b)fluoranthene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Benzo(g,h,i)perylene	ND	0.18	0.080	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Benzo(k)fluoranthene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Benzoic Acid	ND	1.1	0.19	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Bis(2-chloroethoxy)methane	ND	0.36	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Bis(2-chloroethyl)ether	ND	0.36	0.072	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Bis(2-chloroisopropyl)ether	ND	0.36	0.078	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.36	0.14	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
4-Bromophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Butylbenzylphthalate	ND	0.36	0.087	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Carbazole	ND	0.18	0.047	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
4-Chloroaniline	ND	0.71	0.084	mg/Kg dry	1	V-34	SW-846 8270D	5/15/18	5/16/18 19:18	CDT
4-Chloro-3-methylphenol	ND	0.71	0.078	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2-Chloronaphthalene	ND	0.36	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2-Chlorophenol	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
4-Chlorophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Chrysene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Dibenzofuran	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Di-n-butylphthalate	ND	0.36	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
1,2-Dichlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
1,3-Dichlorobenzene	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
1,4-Dichlorobenzene	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
3,3-Dichlorobenzidine	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2,4-Dichlorophenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Diethylphthalate	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2,4-Dimethylphenol	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Dimethylphthalate	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
4,6-Dinitro-2-methylphenol	ND	0.36	0.35	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2,4-Dinitrophenol	ND	0.71	0.21	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2,4-Dinitrotoluene	ND	0.36	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2,6-Dinitrotoluene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Di-n-octylphthalate	ND	0.36	0.19	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Fluoranthene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Fluorene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-11-0-5

Sampled: 5/1/2018 10:55

Sample ID: 18E0084-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Hexachlorobutadiene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Hexachlorocyclopentadiene	ND	0.36	0.077	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Hexachloroethane	ND	0.36	0.073	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Isophorone	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
1-Methylnaphthalene	ND	0.18	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2-Methylnaphthalene	ND	0.18	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2-Methylphenol	ND	0.36	0.091	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
3/4-Methylphenol	ND	0.36	0.12	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Naphthalene	ND	0.18	0.093	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
3-Nitroaniline	ND	0.36	0.053	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
4-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Nitrobenzene	ND	0.36	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2-Nitrophenol	ND	0.36	0.096	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
4-Nitrophenol	ND	0.71	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
N-Nitrosodimethylamine	ND	0.36	0.23	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
N-Nitrosodiphenylamine	ND	0.36	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
N-Nitrosodi-n-propylamine	ND	0.36	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Pentachloronitrobenzene	ND	0.36	0.087	mg/Kg dry	1	V-16	SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Pentachlorophenol	ND	0.36	0.088	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Phenanthrene	ND	0.18	0.094	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Phenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Pyrene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Pyridine	ND	0.36	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
1,2,4-Trichlorobenzene	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2,4,5-Trichlorophenol	ND	0.36	0.083	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
2,4,6-Trichlorophenol	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:18	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	75.3		30-130				5/16/18 19:18			
Phenol-d6	83.6		30-130				5/16/18 19:18			
Nitrobenzene-d5	72.9		30-130				5/16/18 19:18			
2-Fluorobiphenyl	65.7		30-130				5/16/18 19:18			
2,4,6-Tribromophenol	71.3		30-130				5/16/18 19:18			
p-Terphenyl-d14	81.5		30-130				5/16/18 19:18			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-11-0-5

Sampled: 5/1/2018 10:55

Sample ID: 18E0084-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	0.048	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:52	JMB
Aroclor-1221 [1]	ND	0.081	0.052	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:52	JMB
Aroclor-1232 [1]	ND	0.081	0.036	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:52	JMB
Aroclor-1242 [1]	ND	0.081	0.040	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:52	JMB
Aroclor-1248 [1]	ND	0.081	0.048	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:52	JMB
Aroclor-1254 [1]	ND	0.081	0.052	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:52	JMB
Aroclor-1260 [1]	ND	0.081	0.056	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:52	JMB
Aroclor-1262 [1]	ND	0.081	0.040	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:52	JMB
Aroclor-1268 [1]	ND	0.081	0.032	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 17:52	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	74.4		30-150							
Decachlorobiphenyl [2]	89.9		30-150							
Tetrachloro-m-xylene [1]	75.1		30-150							
Tetrachloro-m-xylene [2]	77.9		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-11-0-5

Sampled: 5/1/2018 10:55

Sample ID: 18E0084-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6400	1.7	1.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 20:42	QNW
Antimony	ND	1.7	1.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Arsenic	95	1.7	0.88	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Barium	93	1.7	0.86	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Beryllium	0.37	0.17	0.13	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Cadmium	3.4	0.17	0.11	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Calcium	1900	5.2	3.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Chromium	16	0.35	0.22	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Cobalt	5.5	1.7	0.98	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Copper	56	0.35	0.30	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Iron	35000	17	15	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:15	QNW
Lead	110	0.52	0.31	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Magnesium	1600	5.2	2.8	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Manganese	190	0.35	0.11	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Mercury	0.073	0.026	0.0026	mg/Kg dry	1		SW-846 7471B	5/14/18	5/15/18 10:58	EJB
Nickel	11	0.35	0.28	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Potassium	1100	700	250	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:15	QNW
Selenium	ND	3.5	2.9	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Silver	ND	0.70	0.41	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 11:20	QNW
Sodium	1300	70	26	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Thallium	ND	1.7	1.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Vanadium	19	0.70	0.52	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW
Zinc	520	0.70	0.48	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:24	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-11-0-5

Sampled: 5/1/2018 10:55

Sample ID: 18E0084-04

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.66	0.48	0.23	mg/Kg dry	1		SW-846 9014	5/9/18	5/10/18 16:30	DJM
% Solids	92.7			% Wt	1		SM 2540G	5/9/18	5/10/18 7:22	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-11A-0-5

Sampled: 5/1/2018 11:00

Sample ID: 18E0084-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	62	3.0	0.58	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 3:51	LBD
Acetone	33	0.10	0.023	mg/Kg dry	1	E	SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Acrylonitrile	ND	0.0060	0.0025	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Benzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Bromomethane	ND	0.010	0.0042	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 7:41	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	0.021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
n-Butylbenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
sec-Butylbenzene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
tert-Butylbenzene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Carbon Disulfide	ND	0.0060	0.0043	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Chlorodibromomethane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Chloromethane	ND	0.010	0.0064	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/4/18	5/7/18 7:41	MFF
2-Chlorotoluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
4-Chlorotoluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Dibromomethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	0.0021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,3-Dichloropropane	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
2,2-Dichloropropane	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,1-Dichloropropene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-11A-0-5

Sampled: 5/1/2018 11:00

Sample ID: 18E0084-05

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	0.020	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Hexachlorobutadiene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1	L-04, R-05	SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Methyl Cyclohexane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Methylene Chloride	ND	0.020	0.0071	mg/Kg dry	1	R-05	SW-846 8260C	5/4/18	5/7/18 7:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Naphthalene	ND	0.0040	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
n-Propylbenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Styrene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Tetrachloroethylene	0.060	0.0020	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Tetrahydrofuran	ND	0.010	0.0022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Toluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,3,5-Trichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 7:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	97.4	70-130	5/15/18 3:51
1,2-Dichloroethane-d4	104	70-130	5/7/18 7:41
Toluene-d8	102	70-130	5/15/18 3:51
Toluene-d8	100	70-130	5/7/18 7:41
4-Bromofluorobenzene	109	70-130	5/15/18 3:51
4-Bromofluorobenzene	98.3	70-130	5/7/18 7:41

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-11A-0-5

Sampled: 5/1/2018 11:00

Sample ID: 18E0084-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	0.054	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Acenaphthylene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Acetophenone	ND	0.36	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Aniline	ND	0.36	0.10	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Anthracene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Benzidine	ND	0.69	0.45	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Benzo(a)anthracene	ND	0.18	0.047	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Benzo(a)pyrene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Benzo(b)fluoranthene	ND	0.18	0.050	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Benzo(g,h,i)perylene	ND	0.18	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Benzo(k)fluoranthene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Benzoic Acid	ND	1.1	0.19	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Bis(2-chloroethoxy)methane	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Bis(2-chloroethyl)ether	ND	0.36	0.070	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Bis(2-chloroisopropyl)ether	ND	0.36	0.077	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.36	0.14	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
4-Bromophenylphenylether	ND	0.36	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Butylbenzylphthalate	ND	0.36	0.085	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Carbazole	ND	0.18	0.046	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
4-Chloroaniline	ND	0.69	0.082	mg/Kg dry	1	V-34	SW-846 8270D	5/15/18	5/16/18 19:44	CDT
4-Chloro-3-methylphenol	ND	0.69	0.077	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2-Chloronaphthalene	ND	0.36	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2-Chlorophenol	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
4-Chlorophenylphenylether	ND	0.36	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Chrysene	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Dibenzofuran	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Di-n-butylphthalate	ND	0.36	0.078	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
1,2-Dichlorobenzene	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
1,3-Dichlorobenzene	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
1,4-Dichlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
3,3-Dichlorobenzidine	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2,4-Dichlorophenol	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Diethylphthalate	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2,4-Dimethylphenol	ND	0.36	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Dimethylphthalate	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
4,6-Dinitro-2-methylphenol	ND	0.36	0.34	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2,4-Dinitrophenol	ND	0.69	0.20	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2,4-Dinitrotoluene	ND	0.36	0.058	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2,6-Dinitrotoluene	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Di-n-octylphthalate	ND	0.36	0.19	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	0.058	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Fluoranthene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Fluorene	ND	0.18	0.058	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-11A-0-5

Sampled: 5/1/2018 11:00

Sample ID: 18E0084-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Hexachlorobutadiene	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Hexachlorocyclopentadiene	ND	0.36	0.076	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Hexachloroethane	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Isophorone	ND	0.36	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
1-Methylnaphthalene	ND	0.18	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2-Methylnaphthalene	ND	0.18	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2-Methylphenol	ND	0.36	0.089	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
3/4-Methylphenol	ND	0.36	0.11	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Naphthalene	ND	0.18	0.091	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2-Nitroaniline	ND	0.36	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
3-Nitroaniline	ND	0.36	0.051	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
4-Nitroaniline	ND	0.36	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Nitrobenzene	ND	0.36	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2-Nitrophenol	ND	0.36	0.095	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
4-Nitrophenol	ND	0.69	0.078	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
N-Nitrosodimethylamine	ND	0.36	0.23	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
N-Nitrosodiphenylamine	ND	0.36	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
N-Nitrosodi-n-propylamine	ND	0.36	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Pentachloronitrobenzene	ND	0.36	0.085	mg/Kg dry	1	V-16	SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Pentachlorophenol	ND	0.36	0.086	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Phenanthrene	ND	0.18	0.092	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Phenol	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Pyrene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Pyridine	ND	0.36	0.058	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
1,2,4-Trichlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2,4,5-Trichlorophenol	ND	0.36	0.081	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
2,4,6-Trichlorophenol	ND	0.36	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 19:44	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	63.6		30-130				5/16/18 19:44			
Phenol-d6	73.5		30-130				5/16/18 19:44			
Nitrobenzene-d5	61.6		30-130				5/16/18 19:44			
2-Fluorobiphenyl	59.1		30-130				5/16/18 19:44			
2,4,6-Tribromophenol	60.9		30-130				5/16/18 19:44			
p-Terphenyl-d14	77.5		30-130				5/16/18 19:44			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-11A-0-5

Sampled: 5/1/2018 11:00

Sample ID: 18E0084-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	0.048	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:10	JMB
Aroclor-1221 [1]	ND	0.081	0.052	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:10	JMB
Aroclor-1232 [1]	ND	0.081	0.036	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:10	JMB
Aroclor-1242 [1]	ND	0.081	0.040	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:10	JMB
Aroclor-1248 [1]	ND	0.081	0.048	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:10	JMB
Aroclor-1254 [1]	ND	0.081	0.052	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:10	JMB
Aroclor-1260 [1]	ND	0.081	0.056	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:10	JMB
Aroclor-1262 [1]	ND	0.081	0.040	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:10	JMB
Aroclor-1268 [1]	ND	0.081	0.032	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:10	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	64.7		30-150							
Decachlorobiphenyl [2]	79.0		30-150							
Tetrachloro-m-xylene [1]	66.2		30-150							
Tetrachloro-m-xylene [2]	68.1		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-11A-0-5

Sampled: 5/1/2018 11:00

Sample ID: 18E0084-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	20000	18	16	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:26	QNW
Antimony	ND	1.8	1.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Arsenic	8.8	1.8	0.89	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Barium	190	1.8	0.87	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Beryllium	0.81	0.18	0.13	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Cadmium	0.32	0.18	0.11	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Calcium	1100	5.3	3.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Chromium	26	0.35	0.22	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Cobalt	16	1.8	0.99	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Copper	53	0.35	0.30	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Iron	52000	18	15	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:26	QNW
Lead	18	0.53	0.31	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Magnesium	6400	5.3	2.9	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Manganese	2000	0.35	0.11	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Mercury	0.028	0.027	0.0027	mg/Kg dry	1		SW-846 7471B	5/14/18	5/15/18 10:59	EJB
Nickel	40	0.35	0.28	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Potassium	2400	710	260	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:26	QNW
Selenium	ND	3.5	2.9	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Silver	ND	1.8	1.0	mg/Kg dry	5	DL-04	SW-846 6010C-D	5/14/18	5/16/18 11:43	QNW
Sodium	110	71	27	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Thallium	ND	1.8	1.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Vanadium	23	0.71	0.52	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW
Zinc	87	0.71	0.49	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:30	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-11A-0-5

Sampled: 5/1/2018 11:00

Sample ID: 18E0084-05

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	1.8	0.50	0.25	mg/Kg dry	1		SW-846 9014	5/9/18	5/10/18 16:30	DJM
% Solids	93.6			% Wt	1		SM 2540G	5/10/18	5/11/18 7:07	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-03-GRAB

Sampled: 5/1/2018 11:32

Sample ID: 18E0084-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	35	50	9.7	µg/L	1	J	SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Benzene	0.24	1.0	0.12	µg/L	1	J	SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
n-Butylbenzene	0.34	1.0	0.15	µg/L	1	J	SW-846 8260C	5/14/18	5/15/18 0:47	LBD
sec-Butylbenzene	0.18	1.0	0.13	µg/L	1	J	SW-846 8260C	5/14/18	5/15/18 0:47	LBD
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Carbon Disulfide	1.8	4.0	1.0	µg/L	1	V-05, J	SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Chloromethane	0.78	2.0	0.55	µg/L	1	V-05, J	SW-846 8260C	5/14/18	5/15/18 0:47	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
cis-1,2-Dichloroethylene	4.3	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-03-GRAB

Sampled: 5/1/2018 11:32

Sample ID: 18E0084-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,4-Dioxane	ND	100	26	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Hexachlorobutadiene	ND	1.0	0.59	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
p-Isopropyltoluene (p-Cymene)	0.16	1.0	0.15	µg/L	1	J	SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Tetrachloroethylene	20	1.0	0.27	µg/L	1	L-06	SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Toluene	0.66	1.0	0.17	µg/L	1	J	SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Trichloroethylene	1.4	1.0	0.20	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,2,4-Trimethylbenzene	0.31	1.0	0.18	µg/L	1	J	SW-846 8260C	5/14/18	5/15/18 0:47	LBD
1,3,5-Trimethylbenzene	0.21	1.0	0.13	µg/L	1	J	SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:47	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	101	70-130								
Toluene-d8	101	70-130								
4-Bromofluorobenzene	104	70-130								

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-03-10-13

Sampled: 5/1/2018 11:40

Sample ID: 18E0084-07

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.070	0.12	0.028	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Acrylonitrile	ND	0.0071	0.0030	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Benzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Bromobenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Bromodichloromethane	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Bromoform	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Bromomethane	ND	0.012	0.0050	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 14:54	MFF
2-Butanone (MEK)	ND	0.047	0.021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	0.025	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
n-Butylbenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
sec-Butylbenzene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
tert-Butylbenzene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00071	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Carbon Disulfide	ND	0.0071	0.0051	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Carbon Tetrachloride	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Chlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Chlorodibromomethane	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Chloroform	ND	0.0047	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Chloromethane	ND	0.012	0.0076	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/4/18	5/4/18 14:54	MFF
2-Chlorotoluene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
4-Chlorotoluene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,2-Dibromoethane (EDB)	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Dibromomethane	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	0.0025	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0015	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,1-Dichloroethane	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,2-Dichloroethane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,1-Dichloroethylene	ND	0.0047	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,2-Dichloropropane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,3-Dichloropropane	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
2,2-Dichloropropane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,1-Dichloropropene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Diethyl Ether	ND	0.024	0.0021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-03-10-13

Sampled: 5/1/2018 11:40

Sample ID: 18E0084-07

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	0.00071	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,4-Dioxane	ND	0.12	0.068	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Ethylbenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Hexachlorobutadiene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Methyl Acetate	ND	0.0024	0.0019	mg/Kg dry	1	L-04	SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Methyl Cyclohexane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Methylene Chloride	ND	0.024	0.0084	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Naphthalene	ND	0.0047	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
n-Propylbenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Styrene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	0.0021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Tetrachloroethylene	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Tetrahydrofuran	ND	0.012	0.0026	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Toluene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,2,3-Trichlorobenzene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,2,4-Trichlorobenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,3,5-Trichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Trichloroethylene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,2,3-Trichloropropane	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,2,4-Trimethylbenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
1,3,5-Trimethylbenzene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
o-Xylene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 14:54	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	100	70-130				5/4/18 14:54				
Toluene-d8	97.7	70-130				5/4/18 14:54				
4-Bromofluorobenzene	103	70-130				5/4/18 14:54				

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-03-10-13

Sampled: 5/1/2018 11:40

Sample ID: 18E0084-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Acetophenone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Aniline	ND	0.40	0.11	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Benzidine	ND	0.77	0.49	mg/Kg dry	1	V-05, V-04	SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Benzoic Acid	ND	1.2	0.21	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Bis(2-chloroethoxy)methane	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Bis(2-chloroethyl)ether	ND	0.40	0.078	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Bis(2-chloroisopropyl)ether	ND	0.40	0.085	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
4-Bromophenylphenylether	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Butylbenzylphthalate	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Carbazole	ND	0.20	0.051	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
4-Chloroaniline	ND	0.77	0.091	mg/Kg dry	1	V-34	SW-846 8270D	5/15/18	5/16/18 20:09	CDT
4-Chloro-3-methylphenol	ND	0.77	0.085	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2-Chloronaphthalene	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2-Chlorophenol	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
4-Chlorophenylphenylether	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Dibenzofuran	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Di-n-butylphthalate	ND	0.40	0.086	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
1,2-Dichlorobenzene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
1,3-Dichlorobenzene	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
1,4-Dichlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
3,3-Dichlorobenzidine	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2,4-Dichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Diethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2,4-Dimethylphenol	ND	0.40	0.073	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Dimethylphthalate	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2,4-Dinitrophenol	ND	0.77	0.23	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2,4-Dinitrotoluene	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2,6-Dinitrotoluene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-03-10-13

Sampled: 5/1/2018 11:40

Sample ID: 18E0084-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Hexachlorobutadiene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Hexachlorocyclopentadiene	ND	0.40	0.084	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Hexachloroethane	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Isophorone	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
1-Methylnaphthalene	ND	0.20	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2-Methylphenol	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2-Nitroaniline	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
3-Nitroaniline	ND	0.40	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
4-Nitroaniline	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Nitrobenzene	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2-Nitrophenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
4-Nitrophenol	ND	0.77	0.086	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
N-Nitrosodimethylamine	ND	0.40	0.25	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
N-Nitrosodiphenylamine	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
N-Nitrosodi-n-propylamine	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Pentachloronitrobenzene	ND	0.40	0.094	mg/Kg dry	1	V-16	SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Pentachlorophenol	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Phenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Pyridine	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
1,2,4-Trichlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2,4,5-Trichlorophenol	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
2,4,6-Trichlorophenol	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:09	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	78.2		30-130				5/16/18 20:09			
Phenol-d6	88.2		30-130				5/16/18 20:09			
Nitrobenzene-d5	68.5		30-130				5/16/18 20:09			
2-Fluorobiphenyl	60.9		30-130				5/16/18 20:09			
2,4,6-Tribromophenol	73.8		30-130				5/16/18 20:09			
p-Terphenyl-d14	75.9		30-130				5/16/18 20:09			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-03-10-13

Sampled: 5/1/2018 11:40

Sample ID: 18E0084-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	0.055	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:27	JMB
Aroclor-1221 [1]	ND	0.091	0.059	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:27	JMB
Aroclor-1232 [1]	ND	0.091	0.041	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:27	JMB
Aroclor-1242 [1]	ND	0.091	0.046	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:27	JMB
Aroclor-1248 [1]	ND	0.091	0.055	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:27	JMB
Aroclor-1254 [1]	ND	0.091	0.059	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:27	JMB
Aroclor-1260 [1]	ND	0.091	0.064	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:27	JMB
Aroclor-1262 [1]	ND	0.091	0.046	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:27	JMB
Aroclor-1268 [1]	ND	0.091	0.036	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:27	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	91.7		30-150				5/11/18 18:27			
Decachlorobiphenyl [2]	112		30-150				5/11/18 18:27			
Tetrachloro-m-xylene [1]	91.8		30-150				5/11/18 18:27			
Tetrachloro-m-xylene [2]	95.4		30-150				5/11/18 18:27			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-03-10-13

Sampled: 5/1/2018 11:40

Sample ID: 18E0084-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	12000	1.9	1.7	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 21:07	QNW
Antimony	ND	1.9	1.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Arsenic	6.1	1.9	0.94	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Barium	91	1.9	0.92	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Beryllium	0.56	0.19	0.14	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Cadmium	0.19	0.19	0.11	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Calcium	1600	5.6	3.8	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Chromium	17	0.37	0.23	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Cobalt	11	1.9	1.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Copper	37	0.37	0.32	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Iron	35000	19	16	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:49	QNW
Lead	14	0.56	0.33	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Magnesium	4500	5.6	3.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Manganese	670	0.37	0.11	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Mercury	0.039	0.029	0.0029	mg/Kg dry	1		SW-846 7471B	5/14/18	5/15/18 11:01	EJB
Nickel	25	0.37	0.30	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Potassium	1800	750	270	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:49	QNW
Selenium	ND	3.7	3.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Silver	ND	0.75	0.44	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 11:55	QNW
Sodium	72	75	28	mg/Kg dry	1	J	SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Thallium	ND	1.9	1.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Vanadium	16	0.75	0.55	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW
Zinc	80	0.75	0.51	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:35	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-03-10-13

Sampled: 5/1/2018 11:40

Sample ID: 18E0084-07

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.28	0.43	0.21	mg/Kg dry	1	J	SW-846 9014	5/9/18	5/10/18 16:30	DJM
% Solids	86.0			% Wt	1		SM 2540G	5/9/18	5/10/18 7:23	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-10-5-9.5

Sampled: 5/1/2018 13:25

Sample ID: 18E0084-08

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Acrylonitrile	ND	0.0064	0.0027	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Benzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Bromobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Bromodichloromethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Bromoform	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Bromomethane	ND	0.011	0.0045	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 15:21	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
tert-Butyl Alcohol (TBA)	ND	0.043	0.022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
n-Butylbenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
sec-Butylbenzene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
tert-Butylbenzene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00064	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Carbon Disulfide	ND	0.0064	0.0046	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Carbon Tetrachloride	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Chlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Chlorodibromomethane	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Chloroform	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Chloromethane	ND	0.011	0.0068	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/4/18	5/4/18 15:21	MFF
2-Chlorotoluene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
4-Chlorotoluene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,2-Dibromoethane (EDB)	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Dibromomethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
trans-1,4-Dichloro-2-butene	ND	0.0043	0.0022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,1-Dichloroethane	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
cis-1,2-Dichloroethylene	0.0034	0.0021	0.00086	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,3-Dichloropropane	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
2,2-Dichloropropane	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,1-Dichloropropene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Diethyl Ether	ND	0.021	0.0019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-10-5-9.5

Sampled: 5/1/2018 13:25

Sample ID: 18E0084-08

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	0.00064	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,4-Dioxane	ND	0.11	0.062	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Ethylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Hexachlorobutadiene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
2-Hexanone (MBK)	ND	0.021	0.012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Methyl Acetate	ND	0.0021	0.0017	mg/Kg dry	1	L-04	SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00096	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Methyl Cyclohexane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Methylene Chloride	ND	0.021	0.0076	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0081	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Naphthalene	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
n-Propylbenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Styrene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	0.0019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00096	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Tetrahydrofuran	ND	0.011	0.0024	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Toluene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,3,5-Trichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Trichloroethylene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,2,3-Trichloropropane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00096	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
o-Xylene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:21	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	105		70-130				5/4/18 15:21			
Toluene-d8	99.2		70-130				5/4/18 15:21			
4-Bromofluorobenzene	103		70-130				5/4/18 15:21			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-10-5-9.5

Sampled: 5/1/2018 13:25

Sample ID: 18E0084-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Acetophenone	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Aniline	ND	0.39	0.11	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Benzidine	ND	0.76	0.49	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Benzo(a)pyrene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Benzo(b)fluoranthene	ND	0.20	0.055	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Benzo(k)fluoranthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Benzoic Acid	ND	1.2	0.21	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Bis(2-chloroethoxy)methane	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Bis(2-chloroethyl)ether	ND	0.39	0.077	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Bis(2-chloroisopropyl)ether	ND	0.39	0.084	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
4-Bromophenylphenylether	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Butylbenzylphthalate	ND	0.39	0.094	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Carbazole	ND	0.20	0.051	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
4-Chloroaniline	ND	0.76	0.090	mg/Kg dry	1	V-34	SW-846 8270D	5/15/18	5/16/18 20:34	CDT
4-Chloro-3-methylphenol	ND	0.76	0.084	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2-Chloronaphthalene	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2-Chlorophenol	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
4-Chlorophenylphenylether	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Chrysene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Dibenzofuran	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Di-n-butylphthalate	ND	0.39	0.085	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
1,2-Dichlorobenzene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
1,3-Dichlorobenzene	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
1,4-Dichlorobenzene	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
3,3-Dichlorobenzidine	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2,4-Dichlorophenol	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Diethylphthalate	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2,4-Dimethylphenol	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Dimethylphthalate	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
4,6-Dinitro-2-methylphenol	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2,4-Dinitrophenol	ND	0.76	0.22	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2,4-Dinitrotoluene	ND	0.39	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2,6-Dinitrotoluene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Di-n-octylphthalate	ND	0.39	0.21	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Fluorene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-10-5-9.5

Sampled: 5/1/2018 13:25

Sample ID: 18E0084-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Hexachlorobutadiene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Hexachlorocyclopentadiene	ND	0.39	0.083	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Hexachloroethane	ND	0.39	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Isophorone	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
1-Methylnaphthalene	ND	0.20	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2-Methylnaphthalene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2-Methylphenol	ND	0.39	0.098	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
3/4-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2-Nitroaniline	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
3-Nitroaniline	ND	0.39	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
4-Nitroaniline	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Nitrobenzene	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2-Nitrophenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
4-Nitrophenol	ND	0.76	0.085	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
N-Nitrosodimethylamine	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
N-Nitrosodiphenylamine	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
N-Nitrosodi-n-propylamine	ND	0.39	0.081	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Pentachloronitrobenzene	ND	0.39	0.094	mg/Kg dry	1	V-16	SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Pentachlorophenol	ND	0.39	0.095	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Phenol	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Pyridine	ND	0.39	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
1,2,4-Trichlorobenzene	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2,4,5-Trichlorophenol	ND	0.39	0.089	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
2,4,6-Trichlorophenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:34	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	71.0		30-130				5/16/18 20:34			
Phenol-d6	80.6		30-130				5/16/18 20:34			
Nitrobenzene-d5	66.2		30-130				5/16/18 20:34			
2-Fluorobiphenyl	58.9		30-130				5/16/18 20:34			
2,4,6-Tribromophenol	70.6		30-130				5/16/18 20:34			
p-Terphenyl-d14	72.3		30-130				5/16/18 20:34			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-10-5-9.5

Sampled: 5/1/2018 13:25

Sample ID: 18E0084-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	0.055	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:44	JMB
Aroclor-1221 [1]	ND	0.091	0.059	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:44	JMB
Aroclor-1232 [1]	ND	0.091	0.041	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:44	JMB
Aroclor-1242 [1]	ND	0.091	0.045	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:44	JMB
Aroclor-1248 [1]	ND	0.091	0.055	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:44	JMB
Aroclor-1254 [1]	ND	0.091	0.059	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:44	JMB
Aroclor-1260 [1]	ND	0.091	0.064	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:44	JMB
Aroclor-1262 [1]	ND	0.091	0.045	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:44	JMB
Aroclor-1268 [1]	ND	0.091	0.036	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 18:44	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	85.5		30-150							
Decachlorobiphenyl [2]	104		30-150							
Tetrachloro-m-xylene [1]	87.2		30-150							
Tetrachloro-m-xylene [2]	90.5		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-10-5-9.5

Sampled: 5/1/2018 13:25

Sample ID: 18E0084-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	2.0	1.8	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 21:13	QNW
Antimony	ND	2.0	1.4	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Arsenic	16	2.0	1.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Barium	80	2.0	0.97	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Beryllium	1.0	0.20	0.15	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Cadmium	0.39	0.20	0.12	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Calcium	1500	5.9	4.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Chromium	23	0.39	0.24	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Cobalt	19	2.0	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Copper	36	0.39	0.34	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Iron	51000	20	17	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 12:00	QNW
Lead	22	0.59	0.35	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Magnesium	5500	5.9	3.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Manganese	960	0.39	0.12	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Mercury	0.030	0.029	0.0029	mg/Kg dry	1		SW-846 7471B	5/14/18	5/15/18 11:03	EJB
Nickel	28	0.39	0.31	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Potassium	2500	790	280	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 12:00	QNW
Selenium	ND	3.9	3.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Silver	ND	2.0	1.1	mg/Kg dry	5	DL-04	SW-846 6010C-D	5/14/18	5/16/18 12:06	QNW
Sodium	67	79	30	mg/Kg dry	1	J	SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Thallium	ND	2.0	1.4	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Vanadium	23	0.79	0.58	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW
Zinc	94	0.79	0.54	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:40	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-10-5-9.5

Sampled: 5/1/2018 13:25

Sample ID: 18E0084-08

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.50	0.25	mg/Kg dry	1		SW-846 9014	5/9/18	5/10/18 16:30	DJM
% Solids	85.5			% Wt	1		SM 2540G	5/9/18	5/10/18 7:23	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-04-5-10

Sampled: 5/1/2018 13:50

Sample ID: 18E0084-09

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.027	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Acrylonitrile	ND	0.0068	0.0029	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Benzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Bromobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Bromodichloromethane	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Bromomethane	ND	0.011	0.0048	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 15:49	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	0.024	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
n-Butylbenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
sec-Butylbenzene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00068	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Carbon Disulfide	ND	0.0068	0.0049	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Carbon Tetrachloride	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Chlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Chlorodibromomethane	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Chloroform	ND	0.0046	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Chloromethane	ND	0.011	0.0073	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/4/18	5/4/18 15:49	MFF
2-Chlorotoluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
4-Chlorotoluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Dibromomethane	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
trans-1,4-Dichloro-2-butene	ND	0.0046	0.0024	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,1-Dichloroethane	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
cis-1,2-Dichloroethylene	0.017	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,3-Dichloropropane	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
2,2-Dichloropropane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Diethyl Ether	ND	0.023	0.0021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-04-5-10

Sampled: 5/1/2018 13:50

Sample ID: 18E0084-09

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	0.00068	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,4-Dioxane	ND	0.11	0.066	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Ethylbenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Hexachlorobutadiene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
2-Hexanone (MBK)	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Methyl Acetate	ND	0.0023	0.0018	mg/Kg dry	1	L-04	SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Methyl Cyclohexane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Methylene Chloride	ND	0.023	0.0081	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Naphthalene	ND	0.0046	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
n-Propylbenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Styrene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Tetrachloroethylene	0.0049	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Tetrahydrofuran	ND	0.011	0.0025	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Toluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,3,5-Trichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Trichloroethylene	0.0084	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Vinyl Chloride	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
m+p Xylene	ND	0.0046	0.0019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
o-Xylene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 15:49	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	101		70-130				5/4/18 15:49			
Toluene-d8	99.2		70-130				5/4/18 15:49			
4-Bromofluorobenzene	102		70-130				5/4/18 15:49			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-04-5-10

Sampled: 5/1/2018 13:50

Sample ID: 18E0084-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Acetophenone	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Aniline	ND	0.42	0.12	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Benzidine	ND	0.81	0.52	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Benzoic Acid	ND	1.2	0.22	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Bis(2-chloroethoxy)methane	ND	0.42	0.080	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Bis(2-chloroethyl)ether	ND	0.42	0.082	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Bis(2-chloroisopropyl)ether	ND	0.42	0.090	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
4-Bromophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Butylbenzylphthalate	ND	0.42	0.099	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Carbazole	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
4-Chloroaniline	ND	0.81	0.096	mg/Kg dry	1	V-34	SW-846 8270D	5/15/18	5/16/18 20:59	CDT
4-Chloro-3-methylphenol	ND	0.81	0.090	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2-Chloronaphthalene	ND	0.42	0.078	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2-Chlorophenol	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
4-Chlorophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Dibenzofuran	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Di-n-butylphthalate	ND	0.42	0.091	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
1,2-Dichlorobenzene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
1,3-Dichlorobenzene	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
1,4-Dichlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
3,3-Dichlorobenzidine	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2,4-Dichlorophenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Diethylphthalate	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2,4-Dimethylphenol	ND	0.42	0.077	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Dimethylphthalate	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
4,6-Dinitro-2-methylphenol	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2,4-Dinitrophenol	ND	0.81	0.24	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2,4-Dinitrotoluene	ND	0.42	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2,6-Dinitrotoluene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Di-n-octylphthalate	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-04-5-10

Sampled: 5/1/2018 13:50

Sample ID: 18E0084-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Hexachlorobutadiene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Hexachlorocyclopentadiene	ND	0.42	0.088	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Hexachloroethane	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Isophorone	ND	0.42	0.081	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
1-Methylnaphthalene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2-Methylphenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
3/4-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
3-Nitroaniline	ND	0.42	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
4-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Nitrobenzene	ND	0.42	0.078	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2-Nitrophenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
4-Nitrophenol	ND	0.81	0.091	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
N-Nitrosodimethylamine	ND	0.42	0.26	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
N-Nitrosodiphenylamine	ND	0.42	0.086	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
N-Nitrosodi-n-propylamine	ND	0.42	0.086	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Pentachloronitrobenzene	ND	0.42	0.099	mg/Kg dry	1	V-16	SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Pentachlorophenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Phenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Pyridine	ND	0.42	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
1,2,4-Trichlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2,4,5-Trichlorophenol	ND	0.42	0.094	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
2,4,6-Trichlorophenol	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 20:59	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	68.7		30-130				5/16/18 20:59			
Phenol-d6	76.1		30-130				5/16/18 20:59			
Nitrobenzene-d5	61.3		30-130				5/16/18 20:59			
2-Fluorobiphenyl	52.0		30-130				5/16/18 20:59			
2,4,6-Tribromophenol	62.3		30-130				5/16/18 20:59			
p-Terphenyl-d14	66.2		30-130				5/16/18 20:59			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-04-5-10

Sampled: 5/1/2018 13:50

Sample ID: 18E0084-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	0.055	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:01	JMB
Aroclor-1221 [1]	ND	0.092	0.060	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:01	JMB
Aroclor-1232 [1]	ND	0.092	0.041	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:01	JMB
Aroclor-1242 [1]	ND	0.092	0.046	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:01	JMB
Aroclor-1248 [1]	ND	0.092	0.055	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:01	JMB
Aroclor-1254 [1]	ND	0.092	0.060	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:01	JMB
Aroclor-1260 [1]	ND	0.092	0.064	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:01	JMB
Aroclor-1262 [1]	ND	0.092	0.046	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:01	JMB
Aroclor-1268 [1]	ND	0.092	0.037	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:01	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	64.4		30-150							
Decachlorobiphenyl [2]	77.4		30-150							
Tetrachloro-m-xylene [1]	64.8		30-150							
Tetrachloro-m-xylene [2]	66.1		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-04-5-10

Sampled: 5/1/2018 13:50

Sample ID: 18E0084-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	2.1	1.9	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 21:20	QNW
Antimony	ND	2.1	1.4	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Arsenic	9.1	2.1	1.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Barium	110	2.1	1.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Beryllium	0.77	0.21	0.15	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Cadmium	0.26	0.21	0.12	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Calcium	11000	6.2	4.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Chromium	20	0.41	0.26	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Cobalt	8.6	2.1	1.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Copper	34	0.41	0.35	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Iron	45000	21	18	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 12:12	QNW
Lead	13	0.62	0.36	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Magnesium	4100	6.2	3.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Manganese	150	0.41	0.13	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Mercury	0.042	0.030	0.0030	mg/Kg dry	1		SW-846 7471B	5/14/18	5/15/18 11:13	EJB
Nickel	25	0.41	0.33	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Potassium	2400	830	300	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 12:12	QNW
Selenium	ND	4.1	3.4	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Silver	ND	0.83	0.48	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 12:17	QNW
Sodium	83	83	31	mg/Kg dry	1	J	SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Thallium	ND	2.1	1.5	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Vanadium	17	0.83	0.61	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW
Zinc	76	0.83	0.57	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 15:45	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-MW-04-5-10

Sampled: 5/1/2018 13:50

Sample ID: 18E0084-09

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.29	0.54	0.27	mg/Kg dry	1	J	SW-846 9014	5/9/18	5/10/18 16:30	DJM
% Solids	81.3			% Wt	1		SM 2540G	5/9/18	5/10/18 7:23	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-09-5-10

Sampled: 5/1/2018 14:40

Sample ID: 18E0084-10

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.027	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Acrylonitrile	ND	0.0069	0.0029	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Benzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Bromobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Bromodichloromethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Bromomethane	ND	0.011	0.0048	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 16:16	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	0.024	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
n-Butylbenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
sec-Butylbenzene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00069	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Carbon Disulfide	ND	0.0069	0.0049	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Carbon Tetrachloride	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Chlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Chlorodibromomethane	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Chloroform	ND	0.0046	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Chloromethane	ND	0.011	0.0073	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/4/18	5/4/18 16:16	MFF
2-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
4-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Dibromomethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
trans-1,4-Dichloro-2-butene	ND	0.0046	0.0024	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,1-Dichloroethane	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,3-Dichloropropane	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
2,2-Dichloropropane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Diethyl Ether	ND	0.023	0.0021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-09-5-10

Sampled: 5/1/2018 14:40

Sample ID: 18E0084-10

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	0.00069	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,4-Dioxane	ND	0.11	0.066	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Ethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Hexachlorobutadiene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Methyl Acetate	ND	0.0023	0.0018	mg/Kg dry	1	L-04	SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Methyl Cyclohexane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Methylene Chloride	ND	0.023	0.0081	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Naphthalene	ND	0.0046	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
n-Propylbenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Styrene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Tetrahydrofuran	ND	0.011	0.0025	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Toluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,3,5-Trichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Trichloroethylene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Vinyl Chloride	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
o-Xylene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260C	5/4/18	5/4/18 16:16	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	101		70-130				5/4/18 16:16			
Toluene-d8	98.6		70-130				5/4/18 16:16			
4-Bromofluorobenzene	101		70-130				5/4/18 16:16			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-09-5-10

Sampled: 5/1/2018 14:40

Sample ID: 18E0084-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Acenaphthylene	ND	0.22	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Acetophenone	ND	0.44	0.088	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Aniline	ND	0.44	0.13	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Anthracene	ND	0.22	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Benzidine	ND	0.86	0.56	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Benzo(a)anthracene	ND	0.22	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Benzo(a)pyrene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Benzo(b)fluoranthene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Benzo(g,h,i)perylene	ND	0.22	0.098	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Benzo(k)fluoranthene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Benzoic Acid	ND	1.3	0.24	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Bis(2-chloroethoxy)methane	ND	0.44	0.085	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Bis(2-chloroethyl)ether	ND	0.44	0.088	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Bis(2-chloroisopropyl)ether	ND	0.44	0.096	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.44	0.17	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
4-Bromophenylphenylether	ND	0.44	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Butylbenzylphthalate	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Carbazole	ND	0.22	0.058	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
4-Chloroaniline	ND	0.86	0.10	mg/Kg dry	1	V-34	SW-846 8270D	5/15/18	5/16/18 21:24	CDT
4-Chloro-3-methylphenol	ND	0.86	0.096	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2-Chloronaphthalene	ND	0.44	0.084	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2-Chlorophenol	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
4-Chlorophenylphenylether	ND	0.44	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Chrysene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Dibenz(a,h)anthracene	ND	0.22	0.14	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Dibenzofuran	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Di-n-butylphthalate	ND	0.44	0.097	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
1,2-Dichlorobenzene	ND	0.44	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
1,3-Dichlorobenzene	ND	0.44	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
1,4-Dichlorobenzene	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
3,3-Dichlorobenzidine	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2,4-Dichlorophenol	ND	0.44	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Diethylphthalate	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2,4-Dimethylphenol	ND	0.44	0.082	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Dimethylphthalate	ND	0.44	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
4,6-Dinitro-2-methylphenol	ND	0.44	0.42	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2,4-Dinitrophenol	ND	0.86	0.25	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2,4-Dinitrotoluene	ND	0.44	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2,6-Dinitrotoluene	ND	0.44	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Di-n-octylphthalate	ND	0.44	0.23	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.44	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Fluoranthene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Fluorene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-09-5-10

Sampled: 5/1/2018 14:40

Sample ID: 18E0084-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.44	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Hexachlorobutadiene	ND	0.44	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Hexachlorocyclopentadiene	ND	0.44	0.094	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Hexachloroethane	ND	0.44	0.089	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Isophorone	ND	0.44	0.086	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
1-Methylnaphthalene	ND	0.22	0.085	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2-Methylnaphthalene	ND	0.22	0.077	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2-Methylphenol	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
3/4-Methylphenol	ND	0.44	0.14	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2-Nitroaniline	ND	0.44	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
3-Nitroaniline	ND	0.44	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
4-Nitroaniline	ND	0.44	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Nitrobenzene	ND	0.44	0.084	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2-Nitrophenol	ND	0.44	0.12	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
4-Nitrophenol	ND	0.86	0.097	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
N-Nitrosodimethylamine	ND	0.44	0.28	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
N-Nitrosodiphenylamine	ND	0.44	0.092	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
N-Nitrosodi-n-propylamine	ND	0.44	0.092	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Pentachloronitrobenzene	ND	0.44	0.11	mg/Kg dry	1	V-16	SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Pentachlorophenol	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Phenanthrene	ND	0.22	0.12	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Phenol	ND	0.44	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Pyrene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Pyridine	ND	0.44	0.072	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
1,2,4-Trichlorobenzene	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2,4,5-Trichlorophenol	ND	0.44	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
2,4,6-Trichlorophenol	ND	0.44	0.075	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:24	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	76.0		30-130				5/16/18 21:24			
Phenol-d6	79.9		30-130				5/16/18 21:24			
Nitrobenzene-d5	67.8		30-130				5/16/18 21:24			
2-Fluorobiphenyl	59.1		30-130				5/16/18 21:24			
2,4,6-Tribromophenol	64.3		30-130				5/16/18 21:24			
p-Terphenyl-d14	70.0		30-130				5/16/18 21:24			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-09-5-10

Sampled: 5/1/2018 14:40

Sample ID: 18E0084-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.062	mg/Kg dry	4		SW-846 8082A	5/4/18	5/7/18 13:11	KAL
Aroclor-1221 [1]	ND	0.10	0.067	mg/Kg dry	4		SW-846 8082A	5/4/18	5/7/18 13:11	KAL
Aroclor-1232 [1]	ND	0.10	0.046	mg/Kg dry	4		SW-846 8082A	5/4/18	5/7/18 13:11	KAL
Aroclor-1242 [1]	ND	0.10	0.052	mg/Kg dry	4		SW-846 8082A	5/4/18	5/7/18 13:11	KAL
Aroclor-1248 [1]	ND	0.10	0.062	mg/Kg dry	4		SW-846 8082A	5/4/18	5/7/18 13:11	KAL
Aroclor-1254 [1]	ND	0.10	0.067	mg/Kg dry	4		SW-846 8082A	5/4/18	5/7/18 13:11	KAL
Aroclor-1260 [1]	ND	0.10	0.072	mg/Kg dry	4		SW-846 8082A	5/4/18	5/7/18 13:11	KAL
Aroclor-1262 [1]	ND	0.10	0.052	mg/Kg dry	4		SW-846 8082A	5/4/18	5/7/18 13:11	KAL
Aroclor-1268 [1]	ND	0.10	0.041	mg/Kg dry	4		SW-846 8082A	5/4/18	5/7/18 13:11	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	72.4		30-150							
Decachlorobiphenyl [2]	78.4		30-150							
Tetrachloro-m-xylene [1]	67.5		30-150							
Tetrachloro-m-xylene [2]	79.2		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-09-5-10

Sampled: 5/1/2018 14:40

Sample ID: 18E0084-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	2.1	2.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 21:26	QNW
Antimony	ND	2.2	1.5	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Arsenic	15	2.2	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Barium	74	2.2	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Beryllium	0.84	0.22	0.16	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Cadmium	0.48	0.22	0.13	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Calcium	920	6.5	4.5	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Chromium	21	0.43	0.27	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Cobalt	14	2.2	1.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Copper	41	0.43	0.37	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Iron	51000	22	19	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 12:22	QNW
Lead	20	0.65	0.38	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Magnesium	5500	6.5	3.5	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Manganese	1600	0.43	0.13	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Mercury	0.064	0.033	0.0033	mg/Kg dry	1		SW-846 7471B	5/14/18	5/15/18 11:15	EJB
Nickel	29	0.43	0.34	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Potassium	1900	870	310	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 12:22	QNW
Selenium	ND	4.3	3.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Silver	ND	0.87	0.51	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 12:28	QNW
Sodium	120	87	33	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Thallium	ND	2.2	1.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Vanadium	20	0.87	0.64	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW
Zinc	82	0.87	0.59	mg/Kg dry	1	B-07, B	SW-846 6010C-D	5/14/18	5/15/18 16:00	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-09-5-10

Sampled: 5/1/2018 14:40

Sample ID: 18E0084-10

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.65	0.32	mg/Kg dry	1		SW-846 9014	5/9/18	5/10/18 16:30	DJM
% Solids	75.9			% Wt	1		SM 2540G	5/9/18	5/10/18 7:23	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-05-5-10

Sampled: 5/1/2018 15:35

Sample ID: 18E0084-11

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	13	2.6	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Acrylonitrile	ND	1.3	0.15	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.13	0.028	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Benzene	ND	0.27	0.032	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Bromobenzene	ND	0.27	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Bromochloromethane	ND	0.27	0.059	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Bromodichloromethane	ND	0.27	0.079	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Bromoform	ND	0.27	0.056	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Bromomethane	ND	0.53	0.25	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
2-Butanone (MEK)	ND	5.3	0.63	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
tert-Butyl Alcohol (TBA)	ND	5.3	0.58	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
n-Butylbenzene	1.2	0.27	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
sec-Butylbenzene	0.43	0.27	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
tert-Butylbenzene	0.22	0.27	0.032	mg/Kg dry	4	J	SW-846 8260C	5/4/18	5/15/18 2:19	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.13	0.025	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Carbon Disulfide	ND	0.80	0.27	mg/Kg dry	4	V-05	SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Carbon Tetrachloride	ND	0.27	0.066	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Chlorobenzene	ND	0.27	0.043	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Chlorodibromomethane	ND	0.13	0.028	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Chloroethane	ND	0.53	0.075	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Chloroform	ND	0.53	0.059	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Chloromethane	ND	0.53	0.15	mg/Kg dry	4	V-05	SW-846 8260C	5/4/18	5/15/18 2:19	LBD
2-Chlorotoluene	ND	0.27	0.032	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
4-Chlorotoluene	ND	0.27	0.037	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.3	0.098	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,2-Dibromoethane (EDB)	ND	0.13	0.039	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Dibromomethane	ND	0.27	0.043	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,2-Dichlorobenzene	ND	0.27	0.045	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,3-Dichlorobenzene	ND	0.27	0.045	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,4-Dichlorobenzene	ND	0.27	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
trans-1,4-Dichloro-2-butene	ND	0.53	0.083	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.53	0.076	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,1-Dichloroethane	ND	0.27	0.042	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,2-Dichloroethane	ND	0.27	0.052	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,1-Dichloroethylene	ND	0.27	0.056	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
cis-1,2-Dichloroethylene	0.053	0.27	0.039	mg/Kg dry	4	J	SW-846 8260C	5/4/18	5/15/18 2:19	LBD
trans-1,2-Dichloroethylene	ND	0.27	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,2-Dichloropropane	ND	0.27	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,3-Dichloropropane	ND	0.13	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
2,2-Dichloropropane	ND	0.27	0.057	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,1-Dichloropropene	ND	0.53	0.034	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
cis-1,3-Dichloropropene	ND	0.13	0.032	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
trans-1,3-Dichloropropene	ND	0.13	0.030	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Diethyl Ether	ND	0.53	0.059	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-05-5-10

Sampled: 5/1/2018 15:35

Sample ID: 18E0084-11

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.13	0.048	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,4-Dioxane	ND	27	7.1	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Ethylbenzene	0.075	0.27	0.035	mg/Kg dry	4	J	SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Hexachlorobutadiene	ND	0.27	0.16	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
2-Hexanone (MBK)	ND	2.7	0.40	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Isopropylbenzene (Cumene)	0.22	0.27	0.032	mg/Kg dry	4	J	SW-846 8260C	5/4/18	5/15/18 2:19	LBD
p-Isopropyltoluene (p-Cymene)	0.57	0.27	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Methyl Acetate	ND	2.7	0.11	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.27	0.024	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Methyl Cyclohexane	ND	0.27	0.17	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Methylene Chloride	ND	1.3	0.85	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
4-Methyl-2-pentanone (MIBK)	ND	2.7	0.39	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Naphthalene	0.86	0.53	0.032	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
n-Propylbenzene	0.60	0.27	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Styrene	ND	0.27	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,1,1,2-Tetrachloroethane	ND	0.27	0.032	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,1,2,2-Tetrachloroethane	ND	0.13	0.043	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Tetrachloroethylene	16	0.27	0.072	mg/Kg dry	4	L-06	SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Tetrahydrofuran	ND	2.7	0.28	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Toluene	ND	0.27	0.045	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,2,3-Trichlorobenzene	ND	1.3	0.037	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,2,4-Trichlorobenzene	ND	0.27	0.051	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,3,5-Trichlorobenzene	ND	0.27	0.045	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,1,1-Trichloroethane	ND	0.27	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,1,2-Trichloroethane	ND	0.27	0.063	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Trichloroethylene	0.28	0.27	0.053	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Trichlorofluoromethane (Freon 11)	ND	0.53	0.039	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,2,3-Trichloropropane	ND	0.53	0.057	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.27	0.052	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,2,4-Trimethylbenzene	4.5	0.27	0.048	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
1,3,5-Trimethylbenzene	2.6	0.27	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Vinyl Chloride	ND	0.53	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
m+p Xylene	0.13	0.53	0.068	mg/Kg dry	4	J	SW-846 8260C	5/4/18	5/15/18 2:19	LBD
o-Xylene	ND	0.27	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:19	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	100		70-130				5/15/18 2:19			
Toluene-d8	103		70-130				5/15/18 2:19			
4-Bromofluorobenzene	109		70-130				5/15/18 2:19			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-05-5-10

Sampled: 5/1/2018 15:35

Sample ID: 18E0084-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Acetophenone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Aniline	ND	0.40	0.11	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Benzidine	ND	0.77	0.49	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Benzo(g,h,i)perylene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Benzoic Acid	ND	1.2	0.21	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Bis(2-chloroethoxy)methane	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Bis(2-chloroethyl)ether	ND	0.40	0.078	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Bis(2-chloroisopropyl)ether	ND	0.40	0.085	mg/Kg dry	1	V-20	SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
4-Bromophenylphenylether	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Butylbenzylphthalate	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Carbazole	ND	0.20	0.051	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
4-Chloroaniline	ND	0.77	0.091	mg/Kg dry	1	V-34	SW-846 8270D	5/15/18	5/16/18 21:49	CDT
4-Chloro-3-methylphenol	ND	0.77	0.085	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2-Chloronaphthalene	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2-Chlorophenol	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
4-Chlorophenylphenylether	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Dibenzofuran	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Di-n-butylphthalate	ND	0.40	0.086	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
1,2-Dichlorobenzene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
1,3-Dichlorobenzene	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
1,4-Dichlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
3,3-Dichlorobenzidine	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2,4-Dichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Diethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2,4-Dimethylphenol	ND	0.40	0.073	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Dimethylphthalate	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2,4-Dinitrophenol	ND	0.77	0.23	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2,4-Dinitrotoluene	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2,6-Dinitrotoluene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-05-5-10

Sampled: 5/1/2018 15:35

Sample ID: 18E0084-11

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Hexachlorobutadiene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Hexachlorocyclopentadiene	ND	0.40	0.084	mg/Kg dry	1	V-05	SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Hexachloroethane	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Isophorone	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
1-Methylnaphthalene	ND	0.20	0.076	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2-Methylnaphthalene	0.095	0.20	0.069	mg/Kg dry	1	J	SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2-Methylphenol	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2-Nitroaniline	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
3-Nitroaniline	ND	0.40	0.057	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
4-Nitroaniline	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Nitrobenzene	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2-Nitrophenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
4-Nitrophenol	ND	0.77	0.086	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
N-Nitrosodimethylamine	ND	0.40	0.25	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
N-Nitrosodiphenylamine	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
N-Nitrosodi-n-propylamine	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Pentachloronitrobenzene	ND	0.40	0.094	mg/Kg dry	1	V-16	SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Pentachlorophenol	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Phenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Pyridine	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
1,2,4-Trichlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2,4,5-Trichlorophenol	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
2,4,6-Trichlorophenol	ND	0.40	0.066	mg/Kg dry	1		SW-846 8270D	5/15/18	5/16/18 21:49	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	71.2		30-130				5/16/18 21:49			
Phenol-d6	78.5		30-130				5/16/18 21:49			
Nitrobenzene-d5	64.7		30-130				5/16/18 21:49			
2-Fluorobiphenyl	53.0		30-130				5/16/18 21:49			
2,4,6-Tribromophenol	66.0		30-130				5/16/18 21:49			
p-Terphenyl-d14	63.5		30-130				5/16/18 21:49			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-05-5-10

Sampled: 5/1/2018 15:35

Sample ID: 18E0084-11

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	0.056	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:19	JMB
Aroclor-1221 [1]	ND	0.094	0.061	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:19	JMB
Aroclor-1232 [1]	ND	0.094	0.042	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:19	JMB
Aroclor-1242 [1]	ND	0.094	0.047	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:19	JMB
Aroclor-1248 [1]	ND	0.094	0.056	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:19	JMB
Aroclor-1254 [1]	ND	0.094	0.061	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:19	JMB
Aroclor-1260 [1]	ND	0.094	0.066	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:19	JMB
Aroclor-1262 [1]	ND	0.094	0.047	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:19	JMB
Aroclor-1268 [1]	ND	0.094	0.037	mg/Kg dry	4		SW-846 8082A	5/3/18	5/11/18 19:19	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	66.6		30-150							
Decachlorobiphenyl [2]	80.1		30-150							
Tetrachloro-m-xylene [1]	69.2		30-150							
Tetrachloro-m-xylene [2]	70.1		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-05-5-10

Sampled: 5/1/2018 15:35

Sample ID: 18E0084-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	2.0	1.8	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 16:02	QNW
Antimony	ND	2.0	1.3	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Arsenic	21	2.0	0.99	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Barium	110	2.0	0.96	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Beryllium	1.1	0.20	0.14	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Cadmium	0.72	0.20	0.12	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Calcium	2600	5.9	4.0	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Chromium	26	0.39	0.24	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Cobalt	16	2.0	1.1	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Copper	65	0.39	0.33	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Iron	52000	20	17	mg/Kg dry	10		SW-846 6010C-D	5/15/18	5/16/18 17:06	QNW
Lead	23	0.59	0.34	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Magnesium	7100	59	32	mg/Kg dry	10		SW-846 6010C-D	5/15/18	5/16/18 17:06	QNW
Manganese	610	0.39	0.12	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Mercury	0.035	0.031	0.0031	mg/Kg dry	1		SW-846 7471B	5/14/18	5/15/18 11:16	EJB
Nickel	37	0.39	0.31	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Potassium	2500	780	280	mg/Kg dry	10		SW-846 6010C-D	5/15/18	5/16/18 17:06	QNW
Selenium	ND	3.9	3.2	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 16:02	QNW
Silver	ND	0.39	0.23	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 16:02	QNW
Sodium	220	78	30	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 16:02	QNW
Thallium	ND	2.0	1.4	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Vanadium	23	0.78	0.58	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW
Zinc	100	0.78	0.54	mg/Kg dry	1		SW-846 6010C-D	5/15/18	5/16/18 13:00	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-05-5-10

Sampled: 5/1/2018 15:35

Sample ID: 18E0084-11

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.38	0.46	0.23	mg/Kg dry	1	J	SW-846 9014	5/9/18	5/10/18 16:30	DJM
% Solids	84.6			% Wt	1		SM 2540G	5/9/18	5/10/18 7:23	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-05-GW

Sampled: 5/1/2018 15:45

Sample ID: 18E0084-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Benzene	ND	1.0	0.12	µg/L	1	MS-12	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1	MS-12	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1	MS-12, V-05	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1	MS-12	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Chloroform	ND	2.0	0.22	µg/L	1	MS-12	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Chloromethane	ND	2.0	0.55	µg/L	1	V-05	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	MS-09	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1	MS-12	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1	MS-12	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
cis-1,2-Dichloroethylene	30	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
trans-1,2-Dichloroethylene	1.1	1.0	0.15	µg/L	1	MS-12	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1	MS-12	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-05-GW

Sampled: 5/1/2018 15:45

Sample ID: 18E0084-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,4-Dioxane	ND	100	26	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Hexachlorobutadiene	ND	1.0	0.59	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Tetrachloroethylene	72	1.0	0.27	µg/L	1	L-06	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1	MS-12	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Trichloroethylene	19	1.0	0.20	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1	MS-12	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,2,4-Trimethylbenzene	0.27	1.0	0.18	µg/L	1	J	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
1,3,5-Trimethylbenzene	0.15	1.0	0.13	µg/L	1	J	SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 1:18	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	97.8		70-130				5/15/18 1:18			
Toluene-d8	103		70-130				5/15/18 1:18			
4-Bromofluorobenzene	103		70-130				5/15/18 1:18			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-08-5-9.5

Sampled: 5/1/2018 15:10

Sample ID: 18E0084-13

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	12	2.4	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Acrylonitrile	ND	1.2	0.14	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.12	0.026	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Benzene	ND	0.25	0.030	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Bromobenzene	ND	0.25	0.037	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Bromochloromethane	ND	0.25	0.056	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Bromodichloromethane	ND	0.25	0.074	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Bromoform	ND	0.25	0.052	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Bromomethane	ND	0.50	0.23	mg/Kg dry	4	MS-09	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
2-Butanone (MEK)	ND	5.0	0.59	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
tert-Butyl Alcohol (TBA)	ND	5.0	0.54	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
n-Butylbenzene	2.0	0.25	0.037	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
sec-Butylbenzene	0.81	0.25	0.032	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
tert-Butylbenzene	0.27	0.25	0.030	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.12	0.024	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Carbon Disulfide	ND	0.75	0.25	mg/Kg dry	4	V-05, MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Carbon Tetrachloride	ND	0.25	0.062	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Chlorobenzene	ND	0.25	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Chlorodibromomethane	ND	0.12	0.026	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Chloroethane	ND	0.50	0.070	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Chloroform	ND	0.50	0.055	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Chloromethane	ND	0.50	0.14	mg/Kg dry	4	V-05	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
2-Chlorotoluene	ND	0.25	0.030	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
4-Chlorotoluene	ND	0.25	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.2	0.092	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,2-Dibromoethane (EDB)	ND	0.12	0.037	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Dibromomethane	ND	0.25	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,2-Dichlorobenzene	ND	0.25	0.042	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,3-Dichlorobenzene	ND	0.25	0.042	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,4-Dichlorobenzene	ND	0.25	0.037	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
trans-1,4-Dichloro-2-butene	ND	0.50	0.077	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	0.071	mg/Kg dry	4	MS-09	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,1-Dichloroethane	ND	0.25	0.039	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,2-Dichloroethane	ND	0.25	0.048	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,1-Dichloroethylene	ND	0.25	0.052	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
cis-1,2-Dichloroethylene	2.2	0.25	0.037	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
trans-1,2-Dichloroethylene	ND	0.25	0.037	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,2-Dichloropropane	ND	0.25	0.032	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,3-Dichloropropane	ND	0.12	0.032	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
2,2-Dichloropropane	ND	0.25	0.053	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,1-Dichloropropene	ND	0.50	0.032	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
cis-1,3-Dichloropropene	ND	0.12	0.030	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
trans-1,3-Dichloropropene	ND	0.12	0.028	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Diethyl Ether	ND	0.50	0.055	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-08-5-9.5

Sampled: 5/1/2018 15:10

Sample ID: 18E0084-13

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.12	0.045	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,4-Dioxane	ND	25	6.6	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Ethylbenzene	0.32	0.25	0.032	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Hexachlorobutadiene	ND	0.25	0.15	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
2-Hexanone (MBK)	ND	2.5	0.38	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Isopropylbenzene (Cumene)	0.44	0.25	0.030	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
p-Isopropyltoluene (p-Cymene)	0.95	0.25	0.037	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Methyl Acetate	ND	2.5	0.10	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.25	0.022	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Methyl Cyclohexane	ND	0.25	0.16	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Methylene Chloride	ND	1.2	0.79	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
4-Methyl-2-pentanone (MIBK)	ND	2.5	0.37	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Naphthalene	1.8	0.50	0.030	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
n-Propylbenzene	1.1	0.25	0.032	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Styrene	ND	0.25	0.037	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,1,1,2-Tetrachloroethane	ND	0.25	0.030	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,1,2,2-Tetrachloroethane	ND	0.12	0.040	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Tetrachloroethylene	23	0.25	0.068	mg/Kg dry	4	L-06	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Tetrahydrofuran	ND	2.5	0.27	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Toluene	ND	0.25	0.042	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,2,3-Trichlorobenzene	ND	1.2	0.035	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,2,4-Trichlorobenzene	ND	0.25	0.047	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,3,5-Trichlorobenzene	ND	0.25	0.042	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,1,1-Trichloroethane	ND	0.25	0.033	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,1,2-Trichloroethane	ND	0.25	0.059	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Trichloroethylene	4.3	0.25	0.050	mg/Kg dry	4	MS-12	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Trichlorofluoromethane (Freon 11)	ND	0.50	0.037	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,2,3-Trichloropropane	ND	0.50	0.054	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.25	0.049	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,2,4-Trimethylbenzene	5.9	0.25	0.045	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
1,3,5-Trimethylbenzene	3.3	0.25	0.032	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Vinyl Chloride	ND	0.50	0.033	mg/Kg dry	4		SW-846 8260C	5/4/18	5/15/18 2:50	LBD
m+p Xylene	0.27	0.50	0.064	mg/Kg dry	4	J	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
o-Xylene	0.050	0.25	0.033	mg/Kg dry	4	J	SW-846 8260C	5/4/18	5/15/18 2:50	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	97.4		70-130				5/15/18 2:50			
Toluene-d8	102		70-130				5/15/18 2:50			
4-Bromofluorobenzene	108		70-130				5/15/18 2:50			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-SB-08-5-9.5

Sampled: 5/1/2018 15:10

Sample ID: 18E0084-13

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.0			% Wt	1		SM 2540G	5/9/18	5/10/18 7:24	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-RB-5-1-2018

Sampled: 5/1/2018 16:30

Sample ID: 18E0084-14

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1	V-05	SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Chloroform	0.25	2.0	0.22	µg/L	1	J	SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Chloromethane	ND	2.0	0.55	µg/L	1	V-05	SW-846 8260C	5/14/18	5/14/18 23:46	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-RB-5-1-2018

Sampled: 5/1/2018 16:30

Sample ID: 18E0084-14

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,4-Dioxane	ND	100	26	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Hexachlorobutadiene	ND	1.0	0.59	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Tetrachloroethylene	1.0	1.0	0.27	µg/L	1	L-06	SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/14/18 23:46	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	98.8		70-130				5/14/18 23:46			
Toluene-d8	102		70-130				5/14/18 23:46			
4-Bromofluorobenzene	104		70-130				5/14/18 23:46			

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-RB-5-1-2018

Sampled: 5/1/2018 16:30

Sample ID: 18E0084-14

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Acenaphthylene	ND	4.9	1.3	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Acetophenone	ND	9.7	1.7	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Aniline	ND	4.9	2.4	µg/L	1	V-05	SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Anthracene	ND	4.9	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Benzidine	ND	19	9.4	µg/L	1	L-04, V-04, V-05	SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Benzo(a)anthracene	ND	4.9	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Benzo(a)pyrene	ND	4.9	1.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Benzo(b)fluoranthene	ND	4.9	1.2	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Benzo(g,h,i)perylene	ND	4.9	2.2	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Benzo(k)fluoranthene	ND	4.9	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Benzoic Acid	ND	9.7	1.9	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Bis(2-chloroethoxy)methane	ND	9.7	1.7	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Bis(2-chloroethyl)ether	ND	9.7	1.7	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Bis(2-chloroisopropyl)ether	ND	9.7	2.2	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Bis(2-Ethylhexyl)phthalate	ND	9.7	1.9	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
4-Bromophenylphenylether	ND	9.7	1.3	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Butylbenzylphthalate	ND	9.7	1.9	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Carbazole	ND	9.7	1.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
4-Chloroaniline	ND	9.7	1.5	µg/L	1	V-34	SW-846 8270D	5/4/18	5/10/18 17:31	CDT
4-Chloro-3-methylphenol	ND	9.7	1.3	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2-Chloronaphthalene	ND	9.7	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2-Chlorophenol	ND	9.7	1.2	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
4-Chlorophenylphenylether	ND	9.7	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Chrysene	ND	4.9	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Dibenz(a,h)anthracene	ND	4.9	2.0	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Dibenzofuran	ND	4.9	1.3	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Di-n-butylphthalate	ND	9.7	1.7	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
1,2-Dichlorobenzene	ND	4.9	1.3	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
1,3-Dichlorobenzene	ND	4.9	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
1,4-Dichlorobenzene	ND	4.9	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
3,3-Dichlorobenzidine	ND	9.7	2.2	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2,4-Dichlorophenol	ND	9.7	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Diethylphthalate	ND	9.7	1.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2,4-Dimethylphenol	ND	9.7	3.6	µg/L	1	R-05	SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Dimethylphthalate	ND	9.7	1.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
4,6-Dinitro-2-methylphenol	ND	9.7	1.9	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2,4-Dinitrophenol	ND	9.7	3.3	µg/L	1	V-05, V-19	SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2,4-Dinitrotoluene	ND	9.7	1.7	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2,6-Dinitrotoluene	ND	9.7	1.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Di-n-octylphthalate	ND	9.7	2.1	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	9.7	2.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Fluoranthene	ND	4.9	1.8	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Fluorene	ND	4.9	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-RB-5-1-2018

Sampled: 5/1/2018 16:30

Sample ID: 18E0084-14

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	9.7	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Hexachlorobutadiene	ND	9.7	1.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Hexachlorocyclopentadiene	ND	9.7	1.9	µg/L	1	V-05	SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Hexachloroethane	ND	9.7	1.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Indeno(1,2,3-cd)pyrene	ND	4.9	2.0	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Isophorone	ND	9.7	1.8	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
1-Methylnaphthalene	ND	4.9	1.7	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2-Methylnaphthalene	ND	4.9	1.6	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2-Methylphenol	ND	9.7	1.3	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
3/4-Methylphenol	ND	9.7	1.1	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Naphthalene	ND	4.9	1.6	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2-Nitroaniline	ND	9.7	2.1	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
3-Nitroaniline	ND	9.7	1.9	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
4-Nitroaniline	ND	9.7	1.9	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Nitrobenzene	ND	9.7	1.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2-Nitrophenol	ND	9.7	1.6	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
4-Nitrophenol	ND	9.7	1.0	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
N-Nitrosodimethylamine	ND	9.7	1.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
N-Nitrosodiphenylamine	ND	9.7	1.8	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
N-Nitrosodi-n-propylamine	ND	9.7	1.7	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Pentachloronitrobenzene	ND	9.7	1.6	µg/L	1	V-16	SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Pentachlorophenol	ND	9.7	1.1	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Phenanthrene	ND	4.9	1.3	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Phenol	ND	9.7	0.98	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Pyrene	ND	4.9	1.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Pyridine	ND	4.9	2.1	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
1,2,4,5-Tetrachlorobenzene	ND	9.7	1.6	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
1,2,4-Trichlorobenzene	ND	4.9	1.6	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2,4,5-Trichlorophenol	ND	9.7	1.5	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
2,4,6-Trichlorophenol	ND	9.7	1.4	µg/L	1		SW-846 8270D	5/4/18	5/10/18 17:31	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	55.6		15-110				5/10/18 17:31			
Phenol-d6	37.2		15-110				5/10/18 17:31			
Nitrobenzene-d5	83.5		30-130				5/10/18 17:31			
2-Fluorobiphenyl	68.5		30-130				5/10/18 17:31			
2,4,6-Tribromophenol	71.8		15-110				5/10/18 17:31			
p-Terphenyl-d14	104		30-130				5/10/18 17:31			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-RB-5-1-2018

Sampled: 5/1/2018 16:30

Sample ID: 18E0084-14

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.18	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:08	JMB
Aroclor-1221 [1]	ND	0.20	0.16	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:08	JMB
Aroclor-1232 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:08	JMB
Aroclor-1242 [1]	ND	0.20	0.17	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:08	JMB
Aroclor-1248 [1]	ND	0.20	0.19	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:08	JMB
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:08	JMB
Aroclor-1260 [1]	ND	0.20	0.19	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:08	JMB
Aroclor-1262 [1]	ND	0.20	0.14	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:08	JMB
Aroclor-1268 [1]	ND	0.20	0.12	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:08	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	51.5		30-150				5/12/18 2:08			
Decachlorobiphenyl [2]	66.3		30-150				5/12/18 2:08			
Tetrachloro-m-xylene [1]	68.2		30-150				5/12/18 2:08			
Tetrachloro-m-xylene [2]	74.3		30-150				5/12/18 2:08			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-RB-5-1-2018

Sampled: 5/1/2018 16:30

Sample ID: 18E0084-14

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.037	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Antimony	ND	0.050	0.031	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Arsenic	ND	0.010	0.0080	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Barium	ND	0.050	0.0053	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Beryllium	ND	0.0040	0.0017	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Cadmium	ND	0.0040	0.00090	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Calcium	0.15	0.15	0.11	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Chromium	ND	0.010	0.0061	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Cobalt	ND	0.050	0.0080	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Copper	ND	0.010	0.0028	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Iron	ND	0.050	0.040	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Magnesium	ND	0.15	0.026	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Manganese	ND	0.010	0.0020	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	5/11/18	5/14/18 14:49	EJB
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Potassium	ND	2.0	0.32	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Selenium	ND	0.050	0.034	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Silver	ND	0.0050	0.0049	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Sodium	1.7	2.0	0.28	mg/L	1	J	SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Thallium	ND	0.050	0.040	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Vanadium	ND	0.010	0.0047	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW
Zinc	ND	0.020	0.0052	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 14:58	QNW

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-RB-5-1-2018

Sampled: 5/1/2018 16:30

Sample ID: 18E0084-14

Sample Matrix: Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.021	0.010	0.0080	mg/L	1		SW-846 9014	5/7/18	5/8/18 12:45	DJM

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-TRIP BLANK

Sampled: 4/30/2018 00:00

Sample ID: 18E0084-15

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1	V-05	SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Chloroform	0.22	2.0	0.22	µg/L	1	J	SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Chloromethane	ND	2.0	0.55	µg/L	1	V-05	SW-846 8260C	5/14/18	5/15/18 0:16	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0084

Date Received: 5/2/2018

Field Sample #: 401075-TRIP BLANK

Sampled: 4/30/2018 00:00

Sample ID: 18E0084-15

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,4-Dioxane	ND	100	26	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Hexachlorobutadiene	ND	1.0	0.59	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/14/18	5/15/18 0:16	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	100	70-130								
Toluene-d8	101	70-130								
4-Bromofluorobenzene	102	70-130								

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

Lab Number [Field ID]	Batch	Date
18E0084-01 [401075-MW-02-5-10]	B202903	05/09/18
18E0084-02 [401075-SB-04-10-12]	B202903	05/09/18
18E0084-03 [401075-SB-12-5-9]	B202903	05/09/18
18E0084-04 [401075-11-0-5]	B202903	05/09/18
18E0084-07 [401075-MW-03-10-13]	B202903	05/09/18
18E0084-08 [401075-SB-10-5-9.5]	B202903	05/09/18
18E0084-09 [401075-MW-04-5-10]	B202903	05/09/18
18E0084-10 [401075-SB-09-5-10]	B202903	05/09/18
18E0084-11 [401075-SB-05-5-10]	B202903	05/09/18
18E0084-13 [401075-SB-08-5-9.5]	B202903	05/09/18

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18E0084-05 [401075-SB-11A-0-5]	B203070	05/10/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0084-01 [401075-MW-02-5-10]	B203317	1.44	50.0	05/14/18
18E0084-02 [401075-SB-04-10-12]	B203317	1.50	50.0	05/14/18
18E0084-03 [401075-SB-12-5-9]	B203317	1.49	50.0	05/14/18
18E0084-04 [401075-11-0-5]	B203317	1.54	50.0	05/14/18
18E0084-05 [401075-SB-11A-0-5]	B203317	1.51	50.0	05/14/18
18E0084-07 [401075-MW-03-10-13]	B203317	1.56	50.0	05/14/18
18E0084-08 [401075-SB-10-5-9.5]	B203317	1.49	50.0	05/14/18
18E0084-09 [401075-MW-04-5-10]	B203317	1.49	50.0	05/14/18
18E0084-10 [401075-SB-09-5-10]	B203317	1.52	50.0	05/14/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0084-11 [401075-SB-05-5-10]	B203376	1.52	50.0	05/15/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0084-01 [401075-MW-02-5-10]	B203422	1.44	50.0	05/14/18
18E0084-02 [401075-SB-04-10-12]	B203422	1.50	50.0	05/14/18
18E0084-03 [401075-SB-12-5-9]	B203422	1.49	50.0	05/14/18
18E0084-04 [401075-11-0-5]	B203422	1.54	50.0	05/14/18
18E0084-07 [401075-MW-03-10-13]	B203422	1.56	50.0	05/14/18
18E0084-08 [401075-SB-10-5-9.5]	B203422	1.49	50.0	05/14/18
18E0084-09 [401075-MW-04-5-10]	B203422	1.49	50.0	05/14/18
18E0084-10 [401075-SB-09-5-10]	B203422	1.55	50.0	05/14/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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Sample Extraction Data**Prep Method: SW-846 3050B-SW-846 6010C-D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0084-01 [401075-MW-02-5-10]	B203540	1.44	50.0	05/14/18
18E0084-02 [401075-SB-04-10-12]	B203540	1.50	50.0	05/14/18
18E0084-03 [401075-SB-12-5-9]	B203540	1.49	50.0	05/14/18
18E0084-04 [401075-11-0-5]	B203540	1.54	50.0	05/14/18
18E0084-05 [401075-SB-11A-0-5]	B203540	1.51	50.0	05/14/18
18E0084-07 [401075-MW-03-10-13]	B203540	1.56	50.0	05/14/18
18E0084-08 [401075-SB-10-5-9.5]	B203540	1.49	50.0	05/14/18
18E0084-09 [401075-MW-04-5-10]	B203540	1.49	50.0	05/14/18
18E0084-10 [401075-SB-09-5-10]	B203540	1.52	50.0	05/14/18

Prep Method: SW-846 3005A-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0084-14 [401075-RB-5-1-2018]	B203329	50.0	50.0	05/14/18

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0084-14 [401075-RB-5-1-2018]	B203074	6.00	6.00	05/11/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0084-01 [401075-MW-02-5-10]	B203320	0.589	50.0	05/14/18
18E0084-02 [401075-SB-04-10-12]	B203320	0.656	50.0	05/14/18
18E0084-03 [401075-SB-12-5-9]	B203320	0.579	50.0	05/14/18
18E0084-04 [401075-11-0-5]	B203320	0.626	50.0	05/14/18
18E0084-05 [401075-SB-11A-0-5]	B203320	0.595	50.0	05/14/18
18E0084-07 [401075-MW-03-10-13]	B203320	0.605	50.0	05/14/18
18E0084-08 [401075-SB-10-5-9.5]	B203320	0.608	50.0	05/14/18
18E0084-09 [401075-MW-04-5-10]	B203320	0.614	50.0	05/14/18
18E0084-10 [401075-SB-09-5-10]	B203320	0.594	50.0	05/14/18
18E0084-11 [401075-SB-05-5-10]	B203320	0.581	50.0	05/14/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0084-01 [401075-MW-02-5-10]	B202537	10.2	10.0	05/03/18
18E0084-02 [401075-SB-04-10-12]	B202537	10.1	10.0	05/03/18
18E0084-03 [401075-SB-12-5-9]	B202537	10.4	10.0	05/03/18
18E0084-04 [401075-11-0-5]	B202537	10.7	10.0	05/03/18
18E0084-05 [401075-SB-11A-0-5]	B202537	10.6	10.0	05/03/18
18E0084-07 [401075-MW-03-10-13]	B202537	10.2	10.0	05/03/18
18E0084-08 [401075-SB-10-5-9.5]	B202537	10.3	10.0	05/03/18
18E0084-09 [401075-MW-04-5-10]	B202537	10.7	10.0	05/03/18
18E0084-11 [401075-SB-05-5-10]	B202537	10.1	10.0	05/03/18

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0084-10 [401075-SB-09-5-10]	B202571	10.2	10.0	05/04/18

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0084-14 [401075-RB-5-1-2018]	B202647	1010	10.0	05/06/18

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18E0084-02 [401075-SB-04-10-12]	B202587	15.9	16.7	0.25	50	05/04/18
18E0084-03 [401075-SB-12-5-9]	B202587	15.2	17.4	1	50	05/04/18
18E0084-11 [401075-SB-05-5-10]	B202587	15.4	17.4	0.25	50	05/04/18
18E0084-13 [401075-SB-08-5-9.5]	B202587	15.7	17.0	0.25	50	05/04/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0084-01 [401075-MW-02-5-10]	B202592	5.23	10.0	05/04/18
18E0084-04 [401075-11-0-5]	B202592	5.38	10.0	05/04/18
18E0084-07 [401075-MW-03-10-13]	B202592	4.90	10.0	05/04/18
18E0084-08 [401075-SB-10-5-9.5]	B202592	5.47	10.0	05/04/18
18E0084-09 [401075-MW-04-5-10]	B202592	5.39	10.0	05/04/18
18E0084-10 [401075-SB-09-5-10]	B202592	5.74	10.0	05/04/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0084-05 [401075-SB-11A-0-5]	B202661	5.33	10.0	05/04/18

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18E0084-05 [401075-SB-11A-0-5]	B202713	4.76	5.30	1	50	05/07/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0084-06 [401075-MW-03-GRAB]	B203278	5	5.00	05/14/18
18E0084-12 [401075-SB-05-GW]	B203278	5	5.00	05/14/18
18E0084-14 [401075-RB-5-1-2018]	B203278	5	5.00	05/14/18
18E0084-15 [401075-TRIP BLANK]	B203278	5	5.00	05/14/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0084-01RE1 [401075-MW-02-5-10]	B203445	30.3	1.00	05/15/18
18E0084-02RE1 [401075-SB-04-10-12]	B203445	30.3	1.00	05/15/18
18E0084-03RE1 [401075-SB-12-5-9]	B203445	30.3	1.00	05/15/18
18E0084-04RE1 [401075-11-0-5]	B203445	30.2	1.00	05/15/18
18E0084-05RE1 [401075-SB-11A-0-5]	B203445	30.5	1.00	05/15/18
18E0084-07RE1 [401075-MW-03-10-13]	B203445	30.0	1.00	05/15/18
18E0084-08RE1 [401075-SB-10-5-9.5]	B203445	30.4	1.00	05/15/18
18E0084-09RE1 [401075-MW-04-5-10]	B203445	30.1	1.00	05/15/18
18E0084-10RE1 [401075-SB-09-5-10]	B203445	30.2	1.00	05/15/18
18E0084-11RE1 [401075-SB-05-5-10]	B203445	30.5	1.00	05/15/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0084-14 [401075-RB-5-1-2018]	B202549	1030	1.00	05/04/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0084-01 [401075-MW-02-5-10]	B202969	1.25	50.0	05/09/18
18E0084-02 [401075-SB-04-10-12]	B202969	1.24	50.0	05/09/18
18E0084-03 [401075-SB-12-5-9]	B202969	1.35	50.0	05/09/18
18E0084-04 [401075-11-0-5]	B202969	1.13	50.0	05/09/18
18E0084-05 [401075-SB-11A-0-5]	B202969	1.07	50.0	05/09/18
18E0084-07 [401075-MW-03-10-13]	B202969	1.37	50.0	05/09/18
18E0084-08 [401075-SB-10-5-9.5]	B202969	1.17	50.0	05/09/18
18E0084-09 [401075-MW-04-5-10]	B202969	1.13	50.0	05/09/18
18E0084-10 [401075-SB-09-5-10]	B202969	1.01	50.0	05/09/18
18E0084-11 [401075-SB-05-5-10]	B202969	1.27	50.0	05/09/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0084-14 [401075-RB-5-1-2018]	B202758	50.0	50.0	05/07/18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202587 - SW-846 5035
Blank (B202587-BLK1)

Prepared: 05/04/18 Analyzed: 05/14/18

Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							V-05
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							V-05
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	5.0	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl Acetate	ND	0.50	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202587 - SW-846 5035

Blank (B202587-BLK1)

Prepared: 05/04/18 Analyzed: 05/14/18

Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methyl Cyclohexane	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0245		mg/Kg wet	0.0250		98.0	70-130			
Surrogate: Toluene-d8	0.0257		mg/Kg wet	0.0250		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0259		mg/Kg wet	0.0250		104	70-130			

LCS (B202587-BS1)

Prepared: 05/04/18 Analyzed: 05/14/18

Acetone	0.133	0.057	mg/Kg wet	0.113		118	70-160			†
Acrylonitrile	0.0131	0.0057	mg/Kg wet	0.0113		115	70-130			
tert-Amyl Methyl Ether (TAME)	0.0131	0.00057	mg/Kg wet	0.0113		116	70-130			
Benzene	0.0141	0.0011	mg/Kg wet	0.0113		124	70-130			
Bromobenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
Bromochloromethane	0.0164	0.0011	mg/Kg wet	0.0113		145 *	70-130		L-02, V-20	
Bromodichloromethane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
Bromoform	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130			
Bromomethane	0.00851	0.0023	mg/Kg wet	0.0113		75.1	40-130			†
2-Butanone (MEK)	0.124	0.023	mg/Kg wet	0.113		110	70-160			†
tert-Butyl Alcohol (TBA)	0.143	0.023	mg/Kg wet	0.113		126	40-130		V-20	†
n-Butylbenzene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
sec-Butylbenzene	0.0111	0.0011	mg/Kg wet	0.0113		98.1	70-130			
tert-Butylbenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.9	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0125	0.00057	mg/Kg wet	0.0113		110	70-130			
Carbon Disulfide	0.0149	0.0034	mg/Kg wet	0.0113		132 *	70-130		V-05, L-07	
Carbon Tetrachloride	0.0156	0.0011	mg/Kg wet	0.0113		138 *	70-130		L-02	
Chlorobenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Chlorodibromomethane	0.0142	0.00057	mg/Kg wet	0.0113		126	70-130			
Chloroethane	0.0118	0.0023	mg/Kg wet	0.0113		104	70-130			
Chloroform	0.0146	0.0023	mg/Kg wet	0.0113		129	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202587 - SW-846 5035										
LCS (B202587-BS1)										
Prepared: 05/04/18 Analyzed: 05/14/18										
Chloromethane	0.00918	0.0023	mg/Kg wet	0.0113		81.0	70-130			V-05
2-Chlorotoluene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
4-Chlorotoluene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0110	0.0057	mg/Kg wet	0.0113		96.8	70-130			
1,2-Dibromoethane (EDB)	0.0146	0.00057	mg/Kg wet	0.0113		128	70-130			
Dibromomethane	0.0142	0.0011	mg/Kg wet	0.0113		125	70-130			
1,2-Dichlorobenzene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,3-Dichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
1,4-Dichlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
trans-1,4-Dichloro-2-butene	0.0110	0.0023	mg/Kg wet	0.0113		97.1	70-130			
Dichlorodifluoromethane (Freon 12)	0.00585	0.0023	mg/Kg wet	0.0113		51.6	40-160			V-34 †
1,1-Dichloroethane	0.0142	0.0011	mg/Kg wet	0.0113		126	70-130			
1,2-Dichloroethane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,1-Dichloroethylene	0.0143	0.0011	mg/Kg wet	0.0113		126	70-130			
cis-1,2-Dichloroethylene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
trans-1,2-Dichloroethylene	0.0137	0.0011	mg/Kg wet	0.0113		121	70-130			
1,2-Dichloropropane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,3-Dichloropropane	0.0134	0.00057	mg/Kg wet	0.0113		118	70-130			
2,2-Dichloropropane	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
1,1-Dichloropropene	0.0144	0.0023	mg/Kg wet	0.0113		127	70-130			
cis-1,3-Dichloropropene	0.0126	0.00057	mg/Kg wet	0.0113		111	70-130			
trans-1,3-Dichloropropene	0.0134	0.00057	mg/Kg wet	0.0113		118	70-130			
Diethyl Ether	0.0135	0.0023	mg/Kg wet	0.0113		119	70-130			
Diisopropyl Ether (DIPE)	0.0121	0.00057	mg/Kg wet	0.0113		106	70-130			
1,4-Dioxane	0.122	0.11	mg/Kg wet	0.113		108	40-160			†
Ethylbenzene	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130			
Hexachlorobutadiene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-160			
2-Hexanone (MBK)	0.124	0.011	mg/Kg wet	0.113		109	70-160			†
Isopropylbenzene (Cumene)	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
p-Isopropyltoluene (p-Cymene)	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
Methyl Acetate	0.00976	0.011	mg/Kg wet	0.0113		86.1	70-130			J
Methyl tert-Butyl Ether (MTBE)	0.0143	0.0011	mg/Kg wet	0.0113		126	70-130			
Methyl Cyclohexane	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
Methylene Chloride	0.0119	0.0057	mg/Kg wet	0.0113		105	40-160			†
4-Methyl-2-pentanone (MIBK)	0.118	0.011	mg/Kg wet	0.113		104	70-160			†
Naphthalene	0.0101	0.0023	mg/Kg wet	0.0113		89.0	40-130			†
n-Propylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Styrene	0.0124	0.0011	mg/Kg wet	0.0113		110	70-130			
1,1,1,2-Tetrachloroethane	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
1,1,2,2-Tetrachloroethane	0.0111	0.00057	mg/Kg wet	0.0113		98.1	70-130			
Tetrachloroethylene	0.0150	0.0011	mg/Kg wet	0.0113		132	* 70-130			L-06
Tetrahydrofuran	0.0118	0.011	mg/Kg wet	0.0113		104	70-130			
Toluene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,2,3-Trichlorobenzene	0.0107	0.0057	mg/Kg wet	0.0113		94.2	70-130			
1,2,4-Trichlorobenzene	0.0103	0.0011	mg/Kg wet	0.0113		91.1	70-130			
1,3,5-Trichlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1,1-Trichloroethane	0.0148	0.0011	mg/Kg wet	0.0113		131	* 70-130			L-07
1,1,2-Trichloroethane	0.0141	0.0011	mg/Kg wet	0.0113		124	70-130			
Trichloroethylene	0.0152	0.0011	mg/Kg wet	0.0113		134	* 70-130			L-07
Trichlorofluoromethane (Freon 11)	0.0122	0.0023	mg/Kg wet	0.0113		107	70-130			
1,2,3-Trichloropropane	0.0130	0.0023	mg/Kg wet	0.0113		115	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202587 - SW-846 5035										
LCS (B202587-BS1)					Prepared: 05/04/18 Analyzed: 05/14/18					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130			V-20
1,2,4-Trimethylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
1,3,5-Trimethylbenzene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
Vinyl Chloride	0.0114	0.0023	mg/Kg wet	0.0113		101	40-130			†
m+p Xylene	0.0246	0.0023	mg/Kg wet	0.0227		109	70-130			
o-Xylene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0278		mg/Kg wet	0.0283		98.0	70-130			
Surrogate: Toluene-d8	0.0288		mg/Kg wet	0.0283		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0298		mg/Kg wet	0.0283		105	70-130			
LCS Dup (B202587-BSD1)					Prepared: 05/04/18 Analyzed: 05/14/18					
Acetone	0.115	0.057	mg/Kg wet	0.113		102	70-160	14.3	25	†
Acrylonitrile	0.0121	0.0057	mg/Kg wet	0.0113		106	70-130	7.85	25	
tert-Amyl Methyl Ether (TAME)	0.0131	0.00057	mg/Kg wet	0.0113		116	70-130	0.173	25	
Benzene	0.0140	0.0011	mg/Kg wet	0.0113		124	70-130	0.323	25	
Bromobenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	3.00	25	
Bromochloromethane	0.0168	0.0011	mg/Kg wet	0.0113		148 *	70-130	2.11	25	L-02, V-20
Bromodichloromethane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130	0.0841	25	
Bromoform	0.0133	0.0011	mg/Kg wet	0.0113		117	70-130	0.511	25	
Bromomethane	0.0101	0.0023	mg/Kg wet	0.0113		89.3	40-130	17.3	25	†
2-Butanone (MEK)	0.119	0.023	mg/Kg wet	0.113		105	70-160	4.09	25	†
tert-Butyl Alcohol (TBA)	0.132	0.023	mg/Kg wet	0.113		117	40-130	8.13	25	V-20 †
n-Butylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130	2.26	25	
sec-Butylbenzene	0.0107	0.0011	mg/Kg wet	0.0113		94.6	70-130	3.63	25	
tert-Butylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-160	2.69	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0125	0.00057	mg/Kg wet	0.0113		110	70-130	0.0908	25	
Carbon Disulfide	0.0144	0.0034	mg/Kg wet	0.0113		127	70-130	3.32	25	V-05
Carbon Tetrachloride	0.0149	0.0011	mg/Kg wet	0.0113		132 *	70-130	4.68	25	L-02
Chlorobenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	0.0925	25	
Chlorodibromomethane	0.0142	0.00057	mg/Kg wet	0.0113		126	70-130	0.159	25	
Chloroethane	0.0116	0.0023	mg/Kg wet	0.0113		102	70-130	2.33	25	
Chloroform	0.0144	0.0023	mg/Kg wet	0.0113		127	70-130	1.33	25	
Chloromethane	0.00910	0.0023	mg/Kg wet	0.0113		80.3	70-130	0.868	25	V-05
2-Chlorotoluene	0.0117	0.0011	mg/Kg wet	0.0113		104	70-130	2.10	25	
4-Chlorotoluene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	3.67	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0105	0.0057	mg/Kg wet	0.0113		92.7	70-130	4.33	25	
1,2-Dibromoethane (EDB)	0.0147	0.00057	mg/Kg wet	0.0113		130	70-130	0.852	25	
Dibromomethane	0.0142	0.0011	mg/Kg wet	0.0113		126	70-130	0.479	25	
1,2-Dichlorobenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130	1.38	25	
1,3-Dichlorobenzene	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130	1.93	25	
1,4-Dichlorobenzene	0.0110	0.0011	mg/Kg wet	0.0113		97.4	70-130	3.93	25	
trans-1,4-Dichloro-2-butene	0.0106	0.0023	mg/Kg wet	0.0113		93.2	70-130	4.10	25	
Dichlorodifluoromethane (Freon 12)	0.00593	0.0023	mg/Kg wet	0.0113		52.3	40-160	1.35	25	V-34 †
1,1-Dichloroethane	0.0142	0.0011	mg/Kg wet	0.0113		125	70-130	0.399	25	
1,2-Dichloroethane	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130	0.922	25	
1,1-Dichloroethylene	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130	3.87	25	
cis-1,2-Dichloroethylene	0.0132	0.0011	mg/Kg wet	0.0113		116	70-130	2.46	25	
trans-1,2-Dichloroethylene	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130	2.10	25	
1,2-Dichloropropane	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130	0.167	25	
1,3-Dichloropropane	0.0132	0.00057	mg/Kg wet	0.0113		117	70-130	0.937	25	
2,2-Dichloropropane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	3.20	25	
1,1-Dichloropropene	0.0141	0.0023	mg/Kg wet	0.0113		125	70-130	2.14	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202587 - SW-846 5035

LCS Dup (B202587-BSD1)

Prepared: 05/04/18 Analyzed: 05/14/18

cis-1,3-Dichloropropene	0.0125	0.00057	mg/Kg wet	0.0113		110	70-130	0.542	25	
trans-1,3-Dichloropropene	0.0130	0.00057	mg/Kg wet	0.0113		114	70-130	3.02	25	
Diethyl Ether	0.0132	0.0023	mg/Kg wet	0.0113		117	70-130	1.86	25	
Diisopropyl Ether (DIPE)	0.0122	0.00057	mg/Kg wet	0.0113		107	70-130	0.842	25	
1,4-Dioxane	0.109	0.11	mg/Kg wet	0.113		96.1	40-160	11.4	50	J † ‡
Ethylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	2.19	25	
Hexachlorobutadiene	0.0129	0.0011	mg/Kg wet	0.0113		113	70-160	0.615	25	
2-Hexanone (MBK)	0.117	0.011	mg/Kg wet	0.113		103	70-160	5.62	25	†
Isopropylbenzene (Cumene)	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130	2.00	25	
p-Isopropyltoluene (p-Cymene)	0.0113	0.0011	mg/Kg wet	0.0113		99.4	70-130	3.07	25	
Methyl Acetate	0.00929	0.011	mg/Kg wet	0.0113		82.0	70-130	4.88	25	J
Methyl tert-Butyl Ether (MTBE)	0.0141	0.0011	mg/Kg wet	0.0113		124	70-130	1.52	25	
Methyl Cyclohexane	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130	3.72	25	
Methylene Chloride	0.0119	0.0057	mg/Kg wet	0.0113		105	40-160	0.00	25	†
4-Methyl-2-pentanone (MIBK)	0.114	0.011	mg/Kg wet	0.113		101	70-160	3.06	25	†
Naphthalene	0.00963	0.0023	mg/Kg wet	0.0113		85.0	40-130	4.60	25	†
n-Propylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	3.67	25	
Styrene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	1.29	25	
1,1,1,2-Tetrachloroethane	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130	1.44	25	
1,1,2,2-Tetrachloroethane	0.0124	0.00057	mg/Kg wet	0.0113		109	70-130	10.8	25	
Tetrachloroethylene	0.0149	0.0011	mg/Kg wet	0.0113		131	* 70-130	0.608	25	L-06
Tetrahydrofuran	0.0126	0.011	mg/Kg wet	0.0113		112	70-130	6.57	25	
Toluene	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130	0.846	25	
1,2,3-Trichlorobenzene	0.0102	0.0057	mg/Kg wet	0.0113		89.9	70-130	4.67	25	
1,2,4-Trichlorobenzene	0.0103	0.0011	mg/Kg wet	0.0113		90.8	70-130	0.330	25	
1,3,5-Trichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130	2.30	25	
1,1,1-Trichloroethane	0.0146	0.0011	mg/Kg wet	0.0113		129	70-130	1.70	25	
1,1,2-Trichloroethane	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130	2.12	25	
Trichloroethylene	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130	9.29	25	
Trichlorofluoromethane (Freon 11)	0.0120	0.0023	mg/Kg wet	0.0113		106	70-130	1.69	25	
1,2,3-Trichloropropane	0.0128	0.0023	mg/Kg wet	0.0113		113	70-130	1.67	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130	1.52	25	V-20
1,2,4-Trimethylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130	1.31	25	
1,3,5-Trimethylbenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	1.04	25	
Vinyl Chloride	0.0113	0.0023	mg/Kg wet	0.0113		99.7	40-130	0.899	25	†
m+p Xylene	0.0245	0.0023	mg/Kg wet	0.0227		108	70-130	0.646	25	
o-Xylene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	0.189	25	
Surrogate: 1,2-Dichloroethane-d4	0.0279		mg/Kg wet	0.0283		98.6	70-130			
Surrogate: Toluene-d8	0.0286		mg/Kg wet	0.0283		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0300		mg/Kg wet	0.0283		106	70-130			

Matrix Spike (B202587-MS1)

Source: 18E0084-13

Prepared: 05/04/18 Analyzed: 05/15/18

Acetone	27.1	12	mg/Kg dry	24.9	ND	109	70-130			
Acrylonitrile	2.74	1.2	mg/Kg dry	2.49	ND	110	70-130			
tert-Amyl Methyl Ether (TAME)	3.08	0.12	mg/Kg dry	2.49	ND	124	70-130			
Benzene	3.41	0.25	mg/Kg dry	2.49	ND	137	* 70-130			MS-12
Bromobenzene	2.91	0.25	mg/Kg dry	2.49	ND	117	70-130			
Bromochloromethane	4.05	0.25	mg/Kg dry	2.49	ND	163	* 70-130			MS-12
Bromodichloromethane	3.13	0.25	mg/Kg dry	2.49	ND	126	70-130			
Bromoform	2.85	0.25	mg/Kg dry	2.49	ND	114	70-130			
Bromomethane	1.23	0.50	mg/Kg dry	2.49	ND	49.5	* 70-130			MS-09
2-Butanone (MEK)	26.7	5.0	mg/Kg dry	24.9	ND	107	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202587 - SW-846 5035										
Matrix Spike (B202587-MS1)	Source: 18E0084-13			Prepared: 05/04/18 Analyzed: 05/15/18						
tert-Butyl Alcohol (TBA)	30.2	5.0	mg/Kg dry	24.9	ND	122	70-130			
n-Butylbenzene	4.79	0.25	mg/Kg dry	2.49	1.95	114	70-130			
sec-Butylbenzene	3.40	0.25	mg/Kg dry	2.49	0.813	104	70-130			
tert-Butylbenzene	2.89	0.25	mg/Kg dry	2.49	0.272	105	70-130			
tert-Butyl Ethyl Ether (TBEE)	2.93	0.12	mg/Kg dry	2.49	ND	118	70-130			
Carbon Disulfide	3.56	0.75	mg/Kg dry	2.49	ND	143 *	70-130			MS-12
Carbon Tetrachloride	3.72	0.25	mg/Kg dry	2.49	ND	150 *	70-130			MS-12
Chlorobenzene	2.82	0.25	mg/Kg dry	2.49	ND	113	70-130			
Chlorodibromomethane	3.11	0.12	mg/Kg dry	2.49	ND	125	70-130			
Chloroethane	2.98	0.50	mg/Kg dry	2.49	ND	120	70-130			
Chloroform	3.48	0.50	mg/Kg dry	2.49	ND	140 *	70-130			MS-12
Chloromethane	2.47	0.50	mg/Kg dry	2.49	ND	99.1	70-130			V-05
2-Chlorotoluene	3.36	0.25	mg/Kg dry	2.49	ND	135 *	70-130			MS-12
4-Chlorotoluene	3.19	0.25	mg/Kg dry	2.49	ND	128	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	2.48	1.2	mg/Kg dry	2.49	ND	99.5	70-130			
1,2-Dibromoethane (EDB)	3.35	0.12	mg/Kg dry	2.49	ND	135 *	70-130			MS-24
Dibromomethane	3.26	0.25	mg/Kg dry	2.49	ND	131 *	70-130			MS-24
1,2-Dichlorobenzene	2.58	0.25	mg/Kg dry	2.49	ND	104	70-130			
1,3-Dichlorobenzene	2.69	0.25	mg/Kg dry	2.49	ND	108	70-130			
1,4-Dichlorobenzene	2.64	0.25	mg/Kg dry	2.49	ND	106	70-130			
trans-1,4-Dichloro-2-butene	2.04	0.50	mg/Kg dry	2.49	ND	82.1	70-130			
Dichlorodifluoromethane (Freon 12)	1.49	0.50	mg/Kg dry	2.49	ND	59.9 *	70-130			MS-09
1,1-Dichloroethane	3.42	0.25	mg/Kg dry	2.49	ND	137 *	70-130			MS-12
1,2-Dichloroethane	3.16	0.25	mg/Kg dry	2.49	ND	127	70-130			
1,1-Dichloroethylene	3.49	0.25	mg/Kg dry	2.49	ND	140 *	70-130			MS-12
cis-1,2-Dichloroethylene	6.14	0.25	mg/Kg dry	2.49	2.21	158 *	70-130			MS-12
trans-1,2-Dichloroethylene	3.46	0.25	mg/Kg dry	2.49	ND	139 *	70-130			MS-24
1,2-Dichloropropane	3.15	0.25	mg/Kg dry	2.49	ND	127	70-130			
1,3-Dichloropropane	3.11	0.12	mg/Kg dry	2.49	ND	125	70-130			
2,2-Dichloropropane	2.22	0.25	mg/Kg dry	2.49	ND	89.3	70-130			
1,1-Dichloropropene	3.61	0.50	mg/Kg dry	2.49	ND	145 *	70-130			MS-12
cis-1,3-Dichloropropene	2.80	0.12	mg/Kg dry	2.49	ND	112	70-130			
trans-1,3-Dichloropropene	2.89	0.12	mg/Kg dry	2.49	ND	116	70-130			
Diethyl Ether	3.29	0.50	mg/Kg dry	2.49	ND	132 *	70-130			MS-24
Diisopropyl Ether (DIPE)	2.91	0.12	mg/Kg dry	2.49	ND	117	70-130			
1,4-Dioxane	24.8	25	mg/Kg dry	24.9	ND	99.6	70-130			J
Ethylbenzene	3.23	0.25	mg/Kg dry	2.49	0.319	117	70-130			
Hexachlorobutadiene	3.91	0.25	mg/Kg dry	2.49	ND	157 *	70-130			MS-12
2-Hexanone (MBK)	27.2	2.5	mg/Kg dry	24.9	ND	109	70-130			
Isopropylbenzene (Cumene)	3.47	0.25	mg/Kg dry	2.49	0.439	122	70-130			
p-Isopropyltoluene (p-Cymene)	3.58	0.25	mg/Kg dry	2.49	0.945	106	70-130			
Methyl Acetate	3.50	2.5	mg/Kg dry	2.49	ND	141 *	70-130			MS-12
Methyl tert-Butyl Ether (MTBE)	3.28	0.25	mg/Kg dry	2.49	ND	132 *	70-130			MS-24
Methyl Cyclohexane	3.06	0.25	mg/Kg dry	2.49	ND	123	70-130			
Methylene Chloride	2.84	1.2	mg/Kg dry	2.49	ND	114	70-130			
4-Methyl-2-pentanone (MIBK)	25.5	2.5	mg/Kg dry	24.9	ND	103	70-130			
Naphthalene	4.67	0.50	mg/Kg dry	2.49	1.77	117	70-130			
n-Propylbenzene	4.00	0.25	mg/Kg dry	2.49	1.14	115	70-130			
Styrene	2.95	0.25	mg/Kg dry	2.49	ND	118	70-130			
1,1,1,2-Tetrachloroethane	2.89	0.25	mg/Kg dry	2.49	ND	116	70-130			
1,1,2,2-Tetrachloroethane	2.69	0.12	mg/Kg dry	2.49	ND	108	70-130			
Tetrachloroethylene	27.7	0.25	mg/Kg dry	2.49	23.4	175 *	70-130			MS-19

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202587 - SW-846 5035										
Matrix Spike (B202587-MS1)	Source: 18E0084-13			Prepared: 05/04/18 Analyzed: 05/15/18						
Tetrahydrofuran	2.86	2.5	mg/Kg dry	2.49	ND	115	70-130			
Toluene	3.30	0.25	mg/Kg dry	2.49	ND	133 *	70-130			MS-24
1,2,3-Trichlorobenzene	2.82	1.2	mg/Kg dry	2.49	ND	113	70-130			
1,2,4-Trichlorobenzene	2.80	0.25	mg/Kg dry	2.49	ND	112	70-130			
1,3,5-Trichlorobenzene	2.79	0.25	mg/Kg dry	2.49	ND	112	70-130			
1,1,1-Trichloroethane	3.69	0.25	mg/Kg dry	2.49	ND	148 *	70-130			MS-12
1,1,2-Trichloroethane	3.24	0.25	mg/Kg dry	2.49	ND	130	70-130			
Trichloroethylene	8.59	0.25	mg/Kg dry	2.49	4.27	174 *	70-130			MS-12
Trichlorofluoromethane (Freon 11)	2.94	0.50	mg/Kg dry	2.49	ND	118	70-130			
1,2,3-Trichloropropane	3.05	0.50	mg/Kg dry	2.49	ND	123	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3.29	0.25	mg/Kg dry	2.49	ND	132 *	70-130			MS-12
1,2,4-Trimethylbenzene	8.17	0.25	mg/Kg dry	2.49	5.94	89.5	70-130			
1,3,5-Trimethylbenzene	6.01	0.25	mg/Kg dry	2.49	3.26	111	70-130			
Vinyl Chloride	3.01	0.50	mg/Kg dry	2.49	ND	121	70-130			
m+p Xylene	6.13	0.50	mg/Kg dry	4.98	0.274	118	70-130			
o-Xylene	2.92	0.25	mg/Kg dry	2.49	0.0499	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0312		mg/Kg dry	0.0312		100	70-130			
Surrogate: Toluene-d8	0.0323		mg/Kg dry	0.0312		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0338		mg/Kg dry	0.0312		108	70-130			
Matrix Spike Dup (B202587-MSD1)	Source: 18E0084-13			Prepared: 05/04/18 Analyzed: 05/15/18						
Acetone	26.9	12	mg/Kg dry	24.9	ND	108	70-130	0.859	30	
Acrylonitrile	2.74	1.2	mg/Kg dry	2.49	ND	110	70-130	0.0910	30	
tert-Amyl Methyl Ether (TAME)	2.96	0.12	mg/Kg dry	2.49	ND	119	70-130	3.80	30	
Benzene	3.27	0.25	mg/Kg dry	2.49	ND	131 *	70-130	4.11	30	MS-12
Bromobenzene	2.98	0.25	mg/Kg dry	2.49	ND	120	70-130	2.37	30	
Bromochloromethane	3.90	0.25	mg/Kg dry	2.49	ND	157 *	70-130	3.70	30	MS-12
Bromodichloromethane	3.05	0.25	mg/Kg dry	2.49	ND	123	70-130	2.58	30	
Bromoform	2.81	0.25	mg/Kg dry	2.49	ND	113	70-130	1.50	30	
Bromomethane	1.27	0.50	mg/Kg dry	2.49	ND	51.1 *	70-130	3.19	30	MS-09
2-Butanone (MEK)	26.8	5.0	mg/Kg dry	24.9	ND	108	70-130	0.0932	30	
tert-Butyl Alcohol (TBA)	30.9	5.0	mg/Kg dry	24.9	ND	124	70-130	2.27	30	
n-Butylbenzene	5.11	0.25	mg/Kg dry	2.49	1.95	127	70-130	6.50	30	
sec-Butylbenzene	3.50	0.25	mg/Kg dry	2.49	0.813	108	70-130	2.82	30	
tert-Butylbenzene	2.80	0.25	mg/Kg dry	2.49	0.272	102	70-130	3.24	30	
tert-Butyl Ethyl Ether (TBEE)	2.83	0.12	mg/Kg dry	2.49	ND	114	70-130	3.46	30	
Carbon Disulfide	3.45	0.75	mg/Kg dry	2.49	ND	139 *	70-130	3.06	30	MS-12
Carbon Tetrachloride	3.68	0.25	mg/Kg dry	2.49	ND	148 *	70-130	1.08	30	MS-12
Chlorobenzene	2.78	0.25	mg/Kg dry	2.49	ND	112	70-130	1.25	30	
Chlorodibromomethane	3.06	0.12	mg/Kg dry	2.49	ND	123	70-130	1.46	30	
Chloroethane	2.86	0.50	mg/Kg dry	2.49	ND	115	70-130	4.10	30	
Chloroform	3.39	0.50	mg/Kg dry	2.49	ND	136 *	70-130	2.62	30	MS-12
Chloromethane	2.32	0.50	mg/Kg dry	2.49	ND	93.0	70-130	6.36	30	V-05
2-Chlorotoluene	3.26	0.25	mg/Kg dry	2.49	ND	131 *	70-130	3.17	30	MS-12
4-Chlorotoluene	3.14	0.25	mg/Kg dry	2.49	ND	126	70-130	1.34	30	
1,2-Dibromo-3-chloropropane (DBCP)	2.63	1.2	mg/Kg dry	2.49	ND	106	70-130	5.96	30	
1,2-Dibromoethane (EDB)	3.22	0.12	mg/Kg dry	2.49	ND	129	70-130	4.10	30	
Dibromomethane	3.17	0.25	mg/Kg dry	2.49	ND	127	70-130	3.03	30	
1,2-Dichlorobenzene	2.56	0.25	mg/Kg dry	2.49	ND	103	70-130	0.873	30	
1,3-Dichlorobenzene	2.61	0.25	mg/Kg dry	2.49	ND	105	70-130	3.01	30	
1,4-Dichlorobenzene	2.57	0.25	mg/Kg dry	2.49	ND	103	70-130	2.49	30	
trans-1,4-Dichloro-2-butene	2.01	0.50	mg/Kg dry	2.49	ND	80.8	70-130	1.60	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202587 - SW-846 5035										
Matrix Spike Dup (B202587-MSD1)	Source: 18E0084-13			Prepared: 05/04/18 Analyzed: 05/15/18						
Dichlorodifluoromethane (Freon 12)	1.47	0.50	mg/Kg dry	2.49	ND	59.2	* 70-130	1.18	30	MS-09
1,1-Dichloroethane	3.30	0.25	mg/Kg dry	2.49	ND	132	* 70-130	3.64	30	MS-12
1,2-Dichloroethane	3.07	0.25	mg/Kg dry	2.49	ND	123	70-130	2.89	30	
1,1-Dichloroethylene	3.34	0.25	mg/Kg dry	2.49	ND	134	* 70-130	4.45	30	MS-12
cis-1,2-Dichloroethylene	6.59	0.25	mg/Kg dry	2.49	2.21	176	* 70-130	7.01	30	MS-12
trans-1,2-Dichloroethylene	3.24	0.25	mg/Kg dry	2.49	ND	130	70-130	6.63	30	
1,2-Dichloropropane	3.13	0.25	mg/Kg dry	2.49	ND	126	70-130	0.715	30	
1,3-Dichloropropane	3.04	0.12	mg/Kg dry	2.49	ND	122	70-130	2.27	30	
2,2-Dichloropropane	2.09	0.25	mg/Kg dry	2.49	ND	84.0	70-130	6.13	30	
1,1-Dichloropropene	3.49	0.50	mg/Kg dry	2.49	ND	140	* 70-130	3.51	30	MS-12
cis-1,3-Dichloropropene	2.72	0.12	mg/Kg dry	2.49	ND	109	70-130	2.89	30	
trans-1,3-Dichloropropene	2.83	0.12	mg/Kg dry	2.49	ND	114	70-130	1.92	30	
Diethyl Ether	3.16	0.50	mg/Kg dry	2.49	ND	127	70-130	4.02	30	
Diisopropyl Ether (DIPE)	2.79	0.12	mg/Kg dry	2.49	ND	112	70-130	4.03	30	
1,4-Dioxane	29.0	25	mg/Kg dry	24.9	ND	116	70-130	15.5	30	
Ethylbenzene	3.19	0.25	mg/Kg dry	2.49	0.319	115	70-130	1.01	30	
Hexachlorobutadiene	4.03	0.25	mg/Kg dry	2.49	ND	162	* 70-130	2.95	30	MS-12
2-Hexanone (MBK)	27.3	2.5	mg/Kg dry	24.9	ND	110	70-130	0.265	30	
Isopropylbenzene (Cumene)	3.51	0.25	mg/Kg dry	2.49	0.439	123	70-130	1.14	30	
p-Isopropyltoluene (p-Cymene)	3.75	0.25	mg/Kg dry	2.49	0.945	113	70-130	4.70	30	
Methyl Acetate	3.35	2.5	mg/Kg dry	2.49	ND	135	* 70-130	4.37	30	MS-12
Methyl tert-Butyl Ether (MTBE)	3.18	0.25	mg/Kg dry	2.49	ND	128	70-130	3.09	30	
Methyl Cyclohexane	3.22	0.25	mg/Kg dry	2.49	ND	129	70-130	4.85	30	
Methylene Chloride	2.77	1.2	mg/Kg dry	2.49	ND	111	70-130	2.58	30	
4-Methyl-2-pentanone (MIBK)	25.3	2.5	mg/Kg dry	24.9	ND	102	70-130	0.903	30	
Naphthalene	4.96	0.50	mg/Kg dry	2.49	1.77	128	70-130	6.06	30	
n-Propylbenzene	4.16	0.25	mg/Kg dry	2.49	1.14	121	70-130	3.79	30	
Styrene	2.87	0.25	mg/Kg dry	2.49	ND	115	70-130	2.66	30	
1,1,1,2-Tetrachloroethane	2.85	0.25	mg/Kg dry	2.49	ND	115	70-130	1.39	30	
1,1,2,2-Tetrachloroethane	2.73	0.12	mg/Kg dry	2.49	ND	110	70-130	1.57	30	
Tetrachloroethylene	32.9	0.25	mg/Kg dry	2.49	23.4	382	* 70-130	17.1	30	MS-19
Tetrahydrofuran	2.74	2.5	mg/Kg dry	2.49	ND	110	70-130	4.28	30	
Toluene	3.18	0.25	mg/Kg dry	2.49	ND	128	70-130	3.54	30	
1,2,3-Trichlorobenzene	2.80	1.2	mg/Kg dry	2.49	ND	113	70-130	0.621	30	
1,2,4-Trichlorobenzene	2.75	0.25	mg/Kg dry	2.49	ND	110	70-130	1.89	30	
1,3,5-Trichlorobenzene	2.75	0.25	mg/Kg dry	2.49	ND	110	70-130	1.53	30	
1,1,1-Trichloroethane	3.53	0.25	mg/Kg dry	2.49	ND	142	* 70-130	4.28	30	MS-12
1,1,2-Trichloroethane	3.17	0.25	mg/Kg dry	2.49	ND	127	70-130	2.34	30	
Trichloroethylene	9.51	0.25	mg/Kg dry	2.49	4.27	210	* 70-130	10.1	30	MS-12
Trichlorofluoromethane (Freon 11)	2.90	0.50	mg/Kg dry	2.49	ND	117	70-130	1.37	30	
1,2,3-Trichloropropane	3.31	0.50	mg/Kg dry	2.49	ND	133	* 70-130	8.08	30	MS-24
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3.27	0.25	mg/Kg dry	2.49	ND	131	* 70-130	0.837	30	MS-12
1,2,4-Trimethylbenzene	9.10	0.25	mg/Kg dry	2.49	5.94	127	70-130	10.8	30	
1,3,5-Trimethylbenzene	6.63	0.25	mg/Kg dry	2.49	3.26	135	* 70-130	9.71	30	MS-24
Vinyl Chloride	2.93	0.50	mg/Kg dry	2.49	ND	118	70-130	2.77	30	
m+p Xylene	5.99	0.50	mg/Kg dry	4.98	0.274	115	70-130	2.39	20	
o-Xylene	2.84	0.25	mg/Kg dry	2.49	0.0499	112	70-130	2.86	30	
Surrogate: 1,2-Dichloroethane-d4	0.0303		mg/Kg dry	0.0312		97.0	70-130			
Surrogate: Toluene-d8	0.0318		mg/Kg dry	0.0312		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0343		mg/Kg dry	0.0312		110	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202592 - SW-846 5035										
Blank (B202592-BLK1)				Prepared & Analyzed: 05/04/18						
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							
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							L-04, V-05
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							V-34
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							L-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202592 - SW-846 5035
Blank (B202592-BLK1)

Prepared & Analyzed: 05/04/18

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	0.0500		mg/Kg wet	0.0500		99.9	70-130			
Surrogate: Toluene-d8	0.0493		mg/Kg wet	0.0500		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0508		mg/Kg wet	0.0500		102	70-130			

LCS (B202592-BS1)

Prepared & Analyzed: 05/04/18

Acetone	0.170	0.10	mg/Kg wet	0.200		85.1	70-160			†
Acrylonitrile	0.0174	0.0060	mg/Kg wet	0.0200		86.9	70-130			
tert-Amyl Methyl Ether (TAME)	0.0188	0.0010	mg/Kg wet	0.0200		94.1	70-130			
Benzene	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130			
Bromobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromochloromethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Bromodichloromethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromoform	0.0235	0.0020	mg/Kg wet	0.0200		118	70-130			
Bromomethane	0.0115	0.010	mg/Kg wet	0.0200		57.6	40-130	V-34		†
2-Butanone (MEK)	0.170	0.040	mg/Kg wet	0.200		85.2	70-160			†
tert-Butyl Alcohol (TBA)	0.179	0.040	mg/Kg wet	0.200		89.7	40-130			†
n-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
sec-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
tert-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0177	0.0010	mg/Kg wet	0.0200		88.5	70-130			
Carbon Disulfide	0.0176	0.0060	mg/Kg wet	0.0200		87.8	70-130			
Carbon Tetrachloride	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Chlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Chlorodibromomethane	0.0231	0.0010	mg/Kg wet	0.0200		115	70-130			
Chloroethane	0.0160	0.020	mg/Kg wet	0.0200		80.1	70-130			
Chloroform	0.0192	0.0040	mg/Kg wet	0.0200		96.0	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202592 - SW-846 5035										
LCS (B202592-BS1)				Prepared & Analyzed: 05/04/18						
Chloromethane	0.0128	0.010	mg/Kg wet	0.0200		63.8 *	70-130			L-04, V-05
2-Chlorotoluene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
4-Chlorotoluene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,2-Dibromoethane (EDB)	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130			
Dibromomethane	0.0241	0.0020	mg/Kg wet	0.0200		121	70-130			
1,2-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,3-Dichlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
1,4-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
trans-1,4-Dichloro-2-butene	0.0193	0.0040	mg/Kg wet	0.0200		96.3	70-130			
Dichlorodifluoromethane (Freon 12)	0.0119	0.020	mg/Kg wet	0.0200		59.4	40-160			V-34, J †
1,1-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
1,2-Dichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1-Dichloroethylene	0.0191	0.0040	mg/Kg wet	0.0200		95.7	70-130			
cis-1,2-Dichloroethylene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
trans-1,2-Dichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,3-Dichloropropane	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
2,2-Dichloropropane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1-Dichloropropene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
cis-1,3-Dichloropropene	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
trans-1,3-Dichloropropene	0.0231	0.0010	mg/Kg wet	0.0200		115	70-130			
Diethyl Ether	0.0200	0.020	mg/Kg wet	0.0200		99.9	70-130			J
Diisopropyl Ether (DIPE)	0.0166	0.0010	mg/Kg wet	0.0200		82.8	70-130			
1,4-Dioxane	0.174	0.10	mg/Kg wet	0.200		87.2	40-160			†
Ethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
Hexachlorobutadiene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-160			
2-Hexanone (MBK)	0.199	0.020	mg/Kg wet	0.200		99.4	70-160			†
Isopropylbenzene (Cumene)	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
p-Isopropyltoluene (p-Cymene)	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
Methyl Acetate	0.0101	0.0020	mg/Kg wet	0.0200		50.5 *	70-130			L-04
Methyl tert-Butyl Ether (MTBE)	0.0207	0.0040	mg/Kg wet	0.0200		104	70-130			
Methyl Cyclohexane	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
Methylene Chloride	0.0180	0.020	mg/Kg wet	0.0200		89.8	40-160			J †
4-Methyl-2-pentanone (MIBK)	0.196	0.020	mg/Kg wet	0.200		97.8	70-160			†
Naphthalene	0.0208	0.0040	mg/Kg wet	0.0200		104	40-130			†
n-Propylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Styrene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,1,2-Tetrachloroethane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1,2,2-Tetrachloroethane	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
Tetrachloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
Tetrahydrofuran	0.0213	0.010	mg/Kg wet	0.0200		107	70-130			
Toluene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,2,3-Trichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2,4-Trichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3,5-Trichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
1,1,1-Trichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
1,1,2-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Trichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
Trichlorofluoromethane (Freon 11)	0.0179	0.010	mg/Kg wet	0.0200		89.5	70-130			
1,2,3-Trichloropropane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			V-20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202592 - SW-846 5035										
LCS (B202592-BS1)				Prepared & Analyzed: 05/04/18						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0180	0.010	mg/Kg wet	0.0200		90.2	70-130			
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130			
1,3,5-Trimethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
Vinyl Chloride	0.0157	0.010	mg/Kg wet	0.0200		78.7	40-130			†
m+p Xylene	0.0411	0.0040	mg/Kg wet	0.0400		103	70-130			
o-Xylene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0488		mg/Kg wet	0.0500		97.5	70-130			
Surrogate: Toluene-d8	0.0490		mg/Kg wet	0.0500		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0502		mg/Kg wet	0.0500		100	70-130			
LCS Dup (B202592-BSD1)				Prepared & Analyzed: 05/04/18						
Acetone	0.206	0.10	mg/Kg wet	0.200		103	70-160	19.2	25	†
Acrylonitrile	0.0187	0.0060	mg/Kg wet	0.0200		93.6	70-130	7.42	25	
tert-Amyl Methyl Ether (TAME)	0.0185	0.0010	mg/Kg wet	0.0200		92.5	70-130	1.71	25	
Benzene	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130	3.72	25	
Bromobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.69	25	
Bromochloromethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	5.84	25	
Bromodichloromethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	1.16	25	
Bromoform	0.0243	0.0020	mg/Kg wet	0.0200		122	70-130	3.43	25	
Bromomethane	0.0106	0.010	mg/Kg wet	0.0200		53.0	40-130	8.32	25	V-34 †
2-Butanone (MEK)	0.185	0.040	mg/Kg wet	0.200		92.4	70-160	8.12	25	†
tert-Butyl Alcohol (TBA)	0.189	0.040	mg/Kg wet	0.200		94.5	40-130	5.24	25	†
n-Butylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	12.3	25	
sec-Butylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	9.32	25	
tert-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-160	4.11	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0178	0.0010	mg/Kg wet	0.0200		89.0	70-130	0.563	25	
Carbon Disulfide	0.0195	0.0060	mg/Kg wet	0.0200		97.7	70-130	10.7	25	
Carbon Tetrachloride	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	5.60	25	
Chlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	3.21	25	
Chlorodibromomethane	0.0240	0.0010	mg/Kg wet	0.0200		120	70-130	3.82	25	
Chloroethane	0.0170	0.020	mg/Kg wet	0.0200		84.8	70-130	5.70	25	J
Chloroform	0.0199	0.0040	mg/Kg wet	0.0200		99.5	70-130	3.58	25	
Chloromethane	0.0130	0.010	mg/Kg wet	0.0200		65.1	* 70-130	2.02	25	L-04, V-05
2-Chlorotoluene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	6.82	25	
4-Chlorotoluene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	3.69	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	3.85	25	
1,2-Dibromoethane (EDB)	0.0231	0.0010	mg/Kg wet	0.0200		116	70-130	1.57	25	
Dibromomethane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	8.65	25	
1,2-Dichlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	9.93	25	
1,3-Dichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	7.86	25	
1,4-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130	2.24	25	
trans-1,4-Dichloro-2-butene	0.0235	0.0040	mg/Kg wet	0.0200		117	70-130	19.7	25	
Dichlorodifluoromethane (Freon 12)	0.0129	0.020	mg/Kg wet	0.0200		64.5	40-160	8.23	25	V-34, J †
1,1-Dichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130	1.80	25	
1,2-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	1.46	25	
1,1-Dichloroethylene	0.0197	0.0040	mg/Kg wet	0.0200		98.4	70-130	2.78	25	
cis-1,2-Dichloroethylene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130	0.204	25	
trans-1,2-Dichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130	4.55	25	
1,2-Dichloropropane	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	3.43	25	
1,3-Dichloropropane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130	0.931	25	
2,2-Dichloropropane	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	3.91	25	
1,1-Dichloropropene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	4.23	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202592 - SW-846 5035

LCS Dup (B202592-BSD1)

Prepared & Analyzed: 05/04/18

cis-1,3-Dichloropropene	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130	0.395	25	
trans-1,3-Dichloropropene	0.0229	0.0010	mg/Kg wet	0.0200		115	70-130	0.522	25	
Diethyl Ether	0.0195	0.020	mg/Kg wet	0.0200		97.4	70-130	2.53	25	J
Diisopropyl Ether (DIPE)	0.0171	0.0010	mg/Kg wet	0.0200		85.4	70-130	3.09	25	
1,4-Dioxane	0.193	0.10	mg/Kg wet	0.200		96.4	40-160	10.1	50	† ‡
Ethylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	7.48	25	
Hexachlorobutadiene	0.0246	0.0020	mg/Kg wet	0.0200		123	70-160	7.08	25	
2-Hexanone (MBK)	0.213	0.020	mg/Kg wet	0.200		107	70-160	7.08	25	†
Isopropylbenzene (Cumene)	0.0246	0.0020	mg/Kg wet	0.0200		123	70-130	7.77	25	
p-Isopropyltoluene (p-Cymene)	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	6.04	25	
Methyl Acetate	0.0102	0.0020	mg/Kg wet	0.0200		50.9 *	70-130	0.789	25	L-04
Methyl tert-Butyl Ether (MTBE)	0.0212	0.0040	mg/Kg wet	0.0200		106	70-130	2.10	25	
Methyl Cyclohexane	0.0188	0.0020	mg/Kg wet	0.0200		94.1	70-130	4.68	25	
Methylene Chloride	0.0193	0.020	mg/Kg wet	0.0200		96.6	40-160	7.30	25	J †
4-Methyl-2-pentanone (MIBK)	0.204	0.020	mg/Kg wet	0.200		102	70-160	4.37	25	†
Naphthalene	0.0226	0.0040	mg/Kg wet	0.0200		113	40-130	8.40	25	†
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	6.01	25	
Styrene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	7.29	25	
1,1,1,2-Tetrachloroethane	0.0237	0.0020	mg/Kg wet	0.0200		119	70-130	6.17	25	
1,1,2,2-Tetrachloroethane	0.0238	0.0010	mg/Kg wet	0.0200		119	70-130	15.4	25	
Tetrachloroethylene	0.0244	0.0020	mg/Kg wet	0.0200		122	70-130	7.38	25	
Tetrahydrofuran	0.0210	0.010	mg/Kg wet	0.0200		105	70-130	1.51	25	
Toluene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	3.90	25	
1,2,3-Trichlorobenzene	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130	8.67	25	
1,2,4-Trichlorobenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	6.95	25	
1,3,5-Trichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	11.7	25	
1,1,1-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	2.12	25	
1,1,2-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	0.491	25	
Trichloroethylene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130	2.86	25	
Trichlorofluoromethane (Freon 11)	0.0199	0.010	mg/Kg wet	0.0200		99.7	70-130	10.8	25	
1,2,3-Trichloropropane	0.0256	0.0020	mg/Kg wet	0.0200		128	70-130	9.68	25	V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0198	0.010	mg/Kg wet	0.0200		98.9	70-130	9.20	25	
1,2,4-Trimethylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	9.52	25	
1,3,5-Trimethylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	7.48	25	
Vinyl Chloride	0.0161	0.010	mg/Kg wet	0.0200		80.6	40-130	2.39	25	†
m+p Xylene	0.0446	0.0040	mg/Kg wet	0.0400		112	70-130	8.16	25	
o-Xylene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	8.47	25	
Surrogate: 1,2-Dichloroethane-d4	0.0499		mg/Kg wet	0.0500		99.7	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0512		mg/Kg wet	0.0500		102	70-130			

Batch B202661 - SW-846 5035

Blank (B202661-BLK1)

Prepared & Analyzed: 05/07/18

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							

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
Blank (B202661-BLK1)				Prepared & Analyzed: 05/07/18						
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							
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							L-04, V-05
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							V-34
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							L-04, R-05
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							R-05
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							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
Blank (B202661-BLK1)										
Prepared & Analyzed: 05/07/18										
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	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0515		mg/Kg wet	0.0500		103	70-130			
LCS (B202661-BS1)										
Prepared & Analyzed: 05/07/18										
Acetone	0.257	0.10	mg/Kg wet	0.200		129	70-160			V-06 †
Acrylonitrile	0.0177	0.0060	mg/Kg wet	0.0200		88.7	70-130			
tert-Amyl Methyl Ether (TAME)	0.0189	0.0010	mg/Kg wet	0.0200		94.7	70-130			
Benzene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130			
Bromobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromochloromethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromodichloromethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromoform	0.0251	0.0020	mg/Kg wet	0.0200		126	70-130			V-20
Bromomethane	0.0114	0.010	mg/Kg wet	0.0200		56.8	40-130			V-34 †
2-Butanone (MEK)	0.186	0.040	mg/Kg wet	0.200		93.0	70-160			†
tert-Butyl Alcohol (TBA)	0.192	0.040	mg/Kg wet	0.200		96.2	40-130			†
n-Butylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
sec-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
tert-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0171	0.0010	mg/Kg wet	0.0200		85.7	70-130			
Carbon Disulfide	0.0216	0.0060	mg/Kg wet	0.0200		108	70-130			
Carbon Tetrachloride	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
Chlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
Chlorodibromomethane	0.0243	0.0010	mg/Kg wet	0.0200		121	70-130			
Chloroethane	0.0142	0.020	mg/Kg wet	0.0200		71.1	70-130			J
Chloroform	0.0194	0.0040	mg/Kg wet	0.0200		97.0	70-130			
Chloromethane	0.0118	0.010	mg/Kg wet	0.0200		58.9	70-130	*		L-04, V-05
2-Chlorotoluene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
4-Chlorotoluene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
1,2-Dibromoethane (EDB)	0.0235	0.0010	mg/Kg wet	0.0200		118	70-130			
Dibromomethane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			V-20
1,2-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
LCS (B202661-BS1)				Prepared & Analyzed: 05/07/18						
1,4-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
trans-1,4-Dichloro-2-butene	0.0216	0.0040	mg/Kg wet	0.0200		108	70-130			
Dichlorodifluoromethane (Freon 12)	0.0104	0.020	mg/Kg wet	0.0200		52.2	40-160			V-34, J †
1,1-Dichloroethane	0.0176	0.0020	mg/Kg wet	0.0200		88.0	70-130			
1,2-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1-Dichloroethylene	0.0226	0.0040	mg/Kg wet	0.0200		113	70-130			
cis-1,2-Dichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130			
trans-1,2-Dichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130			
1,2-Dichloropropane	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
1,3-Dichloropropane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
2,2-Dichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1-Dichloropropene	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130			
cis-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.5	70-130			
trans-1,3-Dichloropropene	0.0229	0.0010	mg/Kg wet	0.0200		115	70-130			
Diethyl Ether	0.0184	0.020	mg/Kg wet	0.0200		92.2	70-130			J
Diisopropyl Ether (DIPE)	0.0166	0.0010	mg/Kg wet	0.0200		83.2	70-130			
1,4-Dioxane	0.224	0.10	mg/Kg wet	0.200		112	40-160			†
Ethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
Hexachlorobutadiene	0.0235	0.0020	mg/Kg wet	0.0200		118	70-160			
2-Hexanone (MBK)	0.216	0.020	mg/Kg wet	0.200		108	70-160			†
Isopropylbenzene (Cumene)	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
p-Isopropyltoluene (p-Cymene)	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Methyl Acetate	0.0102	0.0020	mg/Kg wet	0.0200		51.2	* 70-130			L-04, R-05
Methyl tert-Butyl Ether (MTBE)	0.0213	0.0040	mg/Kg wet	0.0200		106	70-130			
Methyl Cyclohexane	0.0167	0.0020	mg/Kg wet	0.0200		83.3	70-130			
Methylene Chloride	0.0174	0.020	mg/Kg wet	0.0200		86.8	40-160			R-05, J †
4-Methyl-2-pentanone (MIBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160			†
Naphthalene	0.0221	0.0040	mg/Kg wet	0.0200		110	40-130			†
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Styrene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,1,2-Tetrachloroethane	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130			
1,1,2,2-Tetrachloroethane	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130			
Tetrachloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
Tetrahydrofuran	0.0199	0.010	mg/Kg wet	0.0200		99.3	70-130			
Toluene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
1,2,3-Trichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2,4-Trichlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
1,3,5-Trichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,1-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
1,1,2-Trichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
Trichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130			
Trichlorofluoromethane (Freon 11)	0.0177	0.010	mg/Kg wet	0.0200		88.3	70-130			
1,2,3-Trichloropropane	0.0279	0.0020	mg/Kg wet	0.0200		140	* 70-130			L-02, V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0209	0.010	mg/Kg wet	0.0200		104	70-130			V-20
1,2,4-Trimethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,3,5-Trimethylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Vinyl Chloride	0.0146	0.010	mg/Kg wet	0.0200		73.1	40-130			†
m+p Xylene	0.0411	0.0040	mg/Kg wet	0.0400		103	70-130			
o-Xylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0515		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
LCS (B202661-BS1)					Prepared & Analyzed: 05/07/18					
Surrogate: 4-Bromofluorobenzene	0.0522		mg/Kg wet	0.0500		104	70-130			
LCS Dup (B202661-BSD1)					Prepared & Analyzed: 05/07/18					
Acetone	0.271	0.10	mg/Kg wet	0.200		135	70-160	5.06	25	V-06 †
Acrylonitrile	0.0213	0.0060	mg/Kg wet	0.0200		106	70-130	18.2	25	
tert-Amyl Methyl Ether (TAME)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	5.44	25	
Benzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6	70-130	3.56	25	
Bromobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.12	25	
Bromochloromethane	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130	13.6	25	
Bromodichloromethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	4.84	25	
Bromoform	0.0254	0.0020	mg/Kg wet	0.0200		127	70-130	1.11	25	V-20
Bromomethane	0.0112	0.010	mg/Kg wet	0.0200		55.9	40-130	1.60	25	V-34 †
2-Butanone (MEK)	0.218	0.040	mg/Kg wet	0.200		109	70-160	16.0	25	†
tert-Butyl Alcohol (TBA)	0.230	0.040	mg/Kg wet	0.200		115	40-130	17.7	25	†
n-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	4.39	25	
sec-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	8.20	25	
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-160	2.04	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0198	0.0010	mg/Kg wet	0.0200		99.2	70-130	14.6	25	
Carbon Disulfide	0.0226	0.0060	mg/Kg wet	0.0200		113	70-130	4.34	25	
Carbon Tetrachloride	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	9.22	25	
Chlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	5.09	25	
Chlorodibromomethane	0.0235	0.0010	mg/Kg wet	0.0200		117	70-130	3.44	25	
Chloroethane	0.0153	0.020	mg/Kg wet	0.0200		76.3	70-130	7.06	25	J
Chloroform	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	3.74	25	
Chloromethane	0.0124	0.010	mg/Kg wet	0.0200		61.8	* 70-130	4.81	25	L-04, V-05
2-Chlorotoluene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.43	25	
4-Chlorotoluene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	3.68	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	4.14	25	
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130	7.96	25	
Dibromomethane	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130	5.24	25	V-20
1,2-Dichlorobenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	4.62	25	
1,3-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	0.656	25	
1,4-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.20	25	
trans-1,4-Dichloro-2-butene	0.0233	0.0040	mg/Kg wet	0.0200		117	70-130	7.47	25	
Dichlorodifluoromethane (Freon 12)	0.0105	0.020	mg/Kg wet	0.0200		52.3	40-160	0.191	25	V-34, J †
1,1-Dichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	12.5	25	
1,2-Dichloroethane	0.0235	0.0020	mg/Kg wet	0.0200		118	70-130	12.7	25	
1,1-Dichloroethylene	0.0241	0.0040	mg/Kg wet	0.0200		120	70-130	6.16	25	
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	12.8	25	
trans-1,2-Dichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	13.3	25	
1,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	11.7	25	
1,3-Dichloropropane	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130	3.59	25	
2,2-Dichloropropane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	5.46	25	
1,1-Dichloropropene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	12.4	25	
cis-1,3-Dichloropropene	0.0188	0.0010	mg/Kg wet	0.0200		94.0	70-130	2.62	25	
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	10.7	25	
Diethyl Ether	0.0170	0.020	mg/Kg wet	0.0200		84.9	70-130	8.24	25	J
Diisopropyl Ether (DIPE)	0.0205	0.0010	mg/Kg wet	0.0200		103	70-130	20.9	25	
1,4-Dioxane	0.229	0.10	mg/Kg wet	0.200		115	40-160	2.23	50	† ‡
Ethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	2.60	25	
Hexachlorobutadiene	0.0239	0.0020	mg/Kg wet	0.0200		120	70-160	1.68	25	
2-Hexanone (MBK)	0.210	0.020	mg/Kg wet	0.200		105	70-160	2.97	25	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
LCS Dup (B202661-BSD1)				Prepared & Analyzed: 05/07/18						
Isopropylbenzene (Cumene)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	1.42	25	
p-Isopropyltoluene (p-Cymene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	2.33	25	
Methyl Acetate	0.0137	0.0020	mg/Kg wet	0.0200		68.7	* 70-130	29.2	* 25	L-04, R-05
Methyl tert-Butyl Ether (MTBE)	0.0224	0.0040	mg/Kg wet	0.0200		112	70-130	5.13	25	
Methyl Cyclohexane	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130	6.62	25	
Methylene Chloride	0.0241	0.020	mg/Kg wet	0.0200		120	40-160	32.4	* 25	R-05 †
4-Methyl-2-pentanone (MIBK)	0.204	0.020	mg/Kg wet	0.200		102	70-160	1.60	25	†
Naphthalene	0.0222	0.0040	mg/Kg wet	0.0200		111	40-130	0.633	25	†
n-Propylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.946	25	
Styrene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	0.820	25	
1,1,1,2-Tetrachloroethane	0.0253	0.0020	mg/Kg wet	0.0200		126	70-130	6.45	25	
1,1,2,2-Tetrachloroethane	0.0242	0.0010	mg/Kg wet	0.0200		121	70-130	5.70	25	
Tetrachloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	7.88	25	
Tetrahydrofuran	0.0237	0.010	mg/Kg wet	0.0200		118	70-130	17.5	25	
Toluene	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130	2.98	25	
1,2,3-Trichlorobenzene	0.0239	0.0020	mg/Kg wet	0.0200		119	70-130	9.02	25	
1,2,4-Trichlorobenzene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	3.21	25	
1,3,5-Trichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	6.66	25	
1,1,1-Trichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	7.02	25	
1,1,2-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	3.90	25	
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	12.4	25	
Trichlorofluoromethane (Freon 11)	0.0175	0.010	mg/Kg wet	0.0200		87.6	70-130	0.796	25	
1,2,3-Trichloropropane	0.0273	0.0020	mg/Kg wet	0.0200		137	* 70-130	2.03	25	L-02, V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0209	0.010	mg/Kg wet	0.0200		104	70-130	0.0957	25	V-20
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130	1.52	25	
1,3,5-Trimethylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	1.08	25	
Vinyl Chloride	0.0142	0.010	mg/Kg wet	0.0200		71.2	40-130	2.63	25	†
m+p Xylene	0.0418	0.0040	mg/Kg wet	0.0400		104	70-130	1.54	25	
o-Xylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.04	25	
Surrogate: 1,2-Dichloroethane-d4	0.0560		mg/Kg wet	0.0500		112	70-130			
Surrogate: Toluene-d8	0.0445		mg/Kg wet	0.0500		89.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0514		mg/Kg wet	0.0500		103	70-130			

Batch B202713 - SW-846 5035

Blank (B202713-BLK1)				Prepared: 05/07/18 Analyzed: 05/14/18						
Acetone	ND	2.5	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0245		mg/Kg wet	0.0250		98.0	70-130			
Surrogate: Toluene-d8	0.0257		mg/Kg wet	0.0250		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0259		mg/Kg wet	0.0250		104	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202713 - SW-846 5035
LCS (B202713-BS1)

Prepared: 05/07/18 Analyzed: 05/14/18

Acetone	0.133	0.057	mg/Kg wet	0.113		118	70-160			†
cis-1,2-Dichloroethylene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,2,4-Trimethylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0278		mg/Kg wet	0.0283		98.0	70-130			
Surrogate: Toluene-d8	0.0288		mg/Kg wet	0.0283		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0298		mg/Kg wet	0.0283		105	70-130			

LCS Dup (B202713-BS1)

Prepared: 05/07/18 Analyzed: 05/14/18

Acetone	0.115	0.057	mg/Kg wet	0.113		102	70-160	14.3	25	†
cis-1,2-Dichloroethylene	0.0132	0.0011	mg/Kg wet	0.0113		116	70-130	2.46	25	
1,2,4-Trimethylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130	1.31	25	
Surrogate: 1,2-Dichloroethane-d4	0.0279		mg/Kg wet	0.0283		98.6	70-130			
Surrogate: Toluene-d8	0.0286		mg/Kg wet	0.0283		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0300		mg/Kg wet	0.0283		106	70-130			

Batch B203278 - SW-846 5030B
Blank (B203278-BLK1)

Prepared & Analyzed: 05/14/18

Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							V-05
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203278 - SW-846 5030B										
Blank (B203278-BLK1)				Prepared & Analyzed: 05/14/18						
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	100	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.5		µg/L	25.0		98.0	70-130			
Surrogate: Toluene-d8	25.7		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203278 - SW-846 5030B										
LCS (B203278-BS1)				Prepared & Analyzed: 05/14/18						
Acetone	118	50	µg/L	100		118	70-160			†
Acrylonitrile	11.5	5.0	µg/L	10.0		115	70-130			
tert-Amyl Methyl Ether (TAME)	11.6	0.50	µg/L	10.0		116	70-130			
Benzene	12.4	1.0	µg/L	10.0		124	70-130			
Bromobenzene	11.2	1.0	µg/L	10.0		112	70-130			
Bromochloromethane	14.5	1.0	µg/L	10.0		145	* 70-130			L-02, V-20
Bromodichloromethane	11.9	0.50	µg/L	10.0		119	70-130			
Bromoform	11.8	1.0	µg/L	10.0		118	70-130			
Bromomethane	7.51	2.0	µg/L	10.0		75.1	40-160			†
2-Butanone (MEK)	110	20	µg/L	100		110	40-160			†
tert-Butyl Alcohol (TBA)	126	20	µg/L	100		126	40-160			V-20 †
n-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
sec-Butylbenzene	9.81	1.0	µg/L	10.0		98.1	70-130			
tert-Butylbenzene	9.79	1.0	µg/L	10.0		97.9	70-130			
tert-Butyl Ethyl Ether (TBEE)	11.0	0.50	µg/L	10.0		110	70-130			
Carbon Disulfide	13.2	4.0	µg/L	10.0		132	* 70-130			V-05, L-07
Carbon Tetrachloride	13.8	5.0	µg/L	10.0		138	* 70-130			L-02
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
Chlorodibromomethane	12.6	0.50	µg/L	10.0		126	70-130			
Chloroethane	10.4	2.0	µg/L	10.0		104	70-130			
Chloroform	12.9	2.0	µg/L	10.0		129	70-130			
Chloromethane	8.10	2.0	µg/L	10.0		81.0	40-160			V-05 †
2-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130			
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.68	5.0	µg/L	10.0		96.8	70-130			
1,2-Dibromoethane (EDB)	12.8	0.50	µg/L	10.0		128	70-130			
Dibromomethane	12.5	1.0	µg/L	10.0		125	70-130			
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130			
1,3-Dichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130			
trans-1,4-Dichloro-2-butene	9.71	2.0	µg/L	10.0		97.1	70-130			
Dichlorodifluoromethane (Freon 12)	5.16	2.0	µg/L	10.0		51.6	40-160			V-34 †
1,1-Dichloroethane	12.6	1.0	µg/L	10.0		126	70-130			
1,2-Dichloroethane	11.9	1.0	µg/L	10.0		119	70-130			
1,1-Dichloroethylene	12.6	1.0	µg/L	10.0		126	70-130			
cis-1,2-Dichloroethylene	11.9	1.0	µg/L	10.0		119	70-130			
trans-1,2-Dichloroethylene	12.0	1.0	µg/L	10.0		120	70-130			
1,2-Dichloropropane	11.9	1.0	µg/L	10.0		119	70-130			
1,3-Dichloropropane	11.8	0.50	µg/L	10.0		118	70-130			
2,2-Dichloropropane	10.8	1.0	µg/L	10.0		108	40-130			†
1,1-Dichloropropene	12.7	2.0	µg/L	10.0		127	70-130			
cis-1,3-Dichloropropene	11.1	0.50	µg/L	10.0		111	70-130			
trans-1,3-Dichloropropene	11.8	0.50	µg/L	10.0		118	70-130			
Diethyl Ether	11.9	2.0	µg/L	10.0		119	70-130			
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.0		106	70-130			
1,4-Dioxane	108	100	µg/L	100		108	40-130			†
Ethylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
Hexachlorobutadiene	11.4	1.0	µg/L	10.0		114	70-130			
2-Hexanone (MBK)	109	10	µg/L	100		109	70-160			†
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.0		111	70-130			
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102	70-130			
Methyl Acetate	8.61	1.0	µg/L	10.0		86.1	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203278 - SW-846 5030B										
LCS (B203278-BS1)										
Prepared & Analyzed: 05/14/18										
Methyl tert-Butyl Ether (MTBE)	12.6	1.0	µg/L	10.0		126	70-130			
Methyl Cyclohexane	10.5	1.0	µg/L	10.0		105	70-130			
Methylene Chloride	10.5	5.0	µg/L	10.0		105	70-130			
4-Methyl-2-pentanone (MIBK)	104	10	µg/L	100		104	70-160			†
Naphthalene	8.90	2.0	µg/L	10.0		89.0	40-130			†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Styrene	11.0	1.0	µg/L	10.0		110	70-130			
1,1,1,2-Tetrachloroethane	11.2	1.0	µg/L	10.0		112	70-130			
1,1,2,2-Tetrachloroethane	9.81	0.50	µg/L	10.0		98.1	70-130			
Tetrachloroethylene	13.2	1.0	µg/L	10.0		132	* 70-130			L-06
Tetrahydrofuran	10.4	10	µg/L	10.0		104	70-130			
Toluene	11.9	1.0	µg/L	10.0		119	70-130			
1,2,3-Trichlorobenzene	9.42	5.0	µg/L	10.0		94.2	70-130			
1,2,4-Trichlorobenzene	9.11	1.0	µg/L	10.0		91.1	70-130			
1,3,5-Trichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130			
1,1,1-Trichloroethane	13.1	1.0	µg/L	10.0		131	* 70-130			L-07
1,1,2-Trichloroethane	12.4	1.0	µg/L	10.0		124	70-130			
Trichloroethylene	13.4	1.0	µg/L	10.0		134	* 70-130			L-07
Trichlorofluoromethane (Freon 11)	10.7	2.0	µg/L	10.0		107	70-130			
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.0		115	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.8	1.0	µg/L	10.0		118	70-130			V-20
1,2,4-Trimethylbenzene	9.98	1.0	µg/L	10.0		99.8	70-130			
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
Vinyl Chloride	10.1	2.0	µg/L	10.0		101	40-160			†
m+p Xylene	21.8	2.0	µg/L	20.0		109	70-130			
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.5		µg/L	25.0		98.0	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	26.2		µg/L	25.0		105	70-130			
LCS Dup (B203278-BSD1)										
Prepared & Analyzed: 05/14/18										
Acetone	102	50	µg/L	100		102	70-160	14.3	25	†
Acrylonitrile	10.6	5.0	µg/L	10.0		106	70-130	7.85	25	
tert-Amyl Methyl Ether (TAME)	11.6	0.50	µg/L	10.0		116	70-130	0.173	25	
Benzene	12.4	1.0	µg/L	10.0		124	70-130	0.323	25	
Bromobenzene	10.8	1.0	µg/L	10.0		108	70-130	3.00	25	
Bromochloromethane	14.8	1.0	µg/L	10.0		148	* 70-130	2.11	25	L-02, V-20
Bromodichloromethane	11.9	0.50	µg/L	10.0		119	70-130	0.0841	25	
Bromoform	11.7	1.0	µg/L	10.0		117	70-130	0.511	25	
Bromomethane	8.93	2.0	µg/L	10.0		89.3	40-160	17.3	25	†
2-Butanone (MEK)	105	20	µg/L	100		105	40-160	4.09	25	†
tert-Butyl Alcohol (TBA)	117	20	µg/L	100		117	40-160	8.13	25	V-20 †
n-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130	2.26	25	
sec-Butylbenzene	9.46	1.0	µg/L	10.0		94.6	70-130	3.63	25	
tert-Butylbenzene	9.53	1.0	µg/L	10.0		95.3	70-130	2.69	25	
tert-Butyl Ethyl Ether (TBEE)	11.0	0.50	µg/L	10.0		110	70-130	0.0907	25	
Carbon Disulfide	12.7	4.0	µg/L	10.0		127	70-130	3.32	25	V-05
Carbon Tetrachloride	13.2	5.0	µg/L	10.0		132	* 70-130	4.68	25	L-02
Chlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	0.0925	25	
Chlorodibromomethane	12.6	0.50	µg/L	10.0		126	70-130	0.159	25	
Chloroethane	10.2	2.0	µg/L	10.0		102	70-130	2.33	25	
Chloroform	12.7	2.0	µg/L	10.0		127	70-130	1.33	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203278 - SW-846 5030B										
LCS Dup (B203278-BSD1)				Prepared & Analyzed: 05/14/18						
Chloromethane	8.03	2.0	µg/L	10.0		80.3	40-160	0.868	25	V-05 †
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130	2.10	25	
4-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130	3.67	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.27	5.0	µg/L	10.0		92.7	70-130	4.33	25	
1,2-Dibromoethane (EDB)	13.0	0.50	µg/L	10.0		130	70-130	0.852	25	
Dibromomethane	12.6	1.0	µg/L	10.0		126	70-130	0.479	25	
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	1.38	25	
1,3-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	1.93	25	
1,4-Dichlorobenzene	9.74	1.0	µg/L	10.0		97.4	70-130	3.93	25	
trans-1,4-Dichloro-2-butene	9.32	2.0	µg/L	10.0		93.2	70-130	4.10	25	
Dichlorodifluoromethane (Freon 12)	5.23	2.0	µg/L	10.0		52.3	40-160	1.35	25	V-34 †
1,1-Dichloroethane	12.5	1.0	µg/L	10.0		125	70-130	0.399	25	
1,2-Dichloroethane	12.0	1.0	µg/L	10.0		120	70-130	0.922	25	
1,1-Dichloroethylene	12.2	1.0	µg/L	10.0		122	70-130	3.87	25	
cis-1,2-Dichloroethylene	11.6	1.0	µg/L	10.0		116	70-130	2.46	25	
trans-1,2-Dichloroethylene	11.8	1.0	µg/L	10.0		118	70-130	2.10	25	
1,2-Dichloropropane	12.0	1.0	µg/L	10.0		120	70-130	0.167	25	
1,3-Dichloropropane	11.7	0.50	µg/L	10.0		117	70-130	0.937	25	
2,2-Dichloropropane	10.4	1.0	µg/L	10.0		104	40-130	3.20	25	†
1,1-Dichloropropene	12.5	2.0	µg/L	10.0		125	70-130	2.14	25	
cis-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130	0.542	25	
trans-1,3-Dichloropropene	11.4	0.50	µg/L	10.0		114	70-130	3.02	25	
Diethyl Ether	11.7	2.0	µg/L	10.0		117	70-130	1.86	25	
Diisopropyl Ether (DIPE)	10.7	0.50	µg/L	10.0		107	70-130	0.842	25	
1,4-Dioxane	96.1	100	µg/L	100		96.1	40-130	11.4	50	J † ‡
Ethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	2.19	25	
Hexachlorobutadiene	11.3	1.0	µg/L	10.0		113	70-130	0.615	25	
2-Hexanone (MBK)	103	10	µg/L	100		103	70-160	5.62	25	†
Isopropylbenzene (Cumene)	10.9	1.0	µg/L	10.0		109	70-130	2.00	25	
p-Isopropyltoluene (p-Cymene)	9.94	1.0	µg/L	10.0		99.4	70-130	3.07	25	
Methyl Acetate	8.20	1.0	µg/L	10.0		82.0	70-130	4.88	25	
Methyl tert-Butyl Ether (MTBE)	12.4	1.0	µg/L	10.0		124	70-130	1.52	25	
Methyl Cyclohexane	10.9	1.0	µg/L	10.0		109	70-130	3.72	25	
Methylene Chloride	10.5	5.0	µg/L	10.0		105	70-130	0.00	25	
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100		101	70-160	3.06	25	†
Naphthalene	8.50	2.0	µg/L	10.0		85.0	40-130	4.60	25	†
n-Propylbenzene	10.4	1.0	µg/L	10.0		104	70-130	3.67	25	
Styrene	10.8	1.0	µg/L	10.0		108	70-130	1.29	25	
1,1,1,2-Tetrachloroethane	11.1	1.0	µg/L	10.0		111	70-130	1.44	25	
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.0		109	70-130	10.8	25	
Tetrachloroethylene	13.1	1.0	µg/L	10.0		131	* 70-130	0.608	25	L-06
Tetrahydrofuran	11.2	10	µg/L	10.0		112	70-130	6.57	25	
Toluene	11.8	1.0	µg/L	10.0		118	70-130	0.846	25	
1,2,3-Trichlorobenzene	8.99	5.0	µg/L	10.0		89.9	70-130	4.67	25	
1,2,4-Trichlorobenzene	9.08	1.0	µg/L	10.0		90.8	70-130	0.330	25	
1,3,5-Trichlorobenzene	9.88	1.0	µg/L	10.0		98.8	70-130	2.30	25	
1,1,1-Trichloroethane	12.9	1.0	µg/L	10.0		129	70-130	1.70	25	
1,1,2-Trichloroethane	12.2	1.0	µg/L	10.0		122	70-130	2.12	25	
Trichloroethylene	12.2	1.0	µg/L	10.0		122	70-130	9.29	25	
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.0		106	70-130	1.69	25	
1,2,3-Trichloropropane	11.3	2.0	µg/L	10.0		113	70-130	1.67	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203278 - SW-846 5030B										
LCS Dup (B203278-BSD1)				Prepared & Analyzed: 05/14/18						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.0	1.0	µg/L	10.0		120	70-130	1.52	25	V-20
1,2,4-Trimethylbenzene	9.85	1.0	µg/L	10.0		98.5	70-130	1.31	25	
1,3,5-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	1.04	25	
Vinyl Chloride	9.97	2.0	µg/L	10.0		99.7	40-160	0.899	25	†
m+p Xylene	21.6	2.0	µg/L	20.0		108	70-130	0.646	25	
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130	0.189	25	
Surrogate: 1,2-Dichloroethane-d4	24.6		µg/L	25.0		98.6	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	26.5		µg/L	25.0		106	70-130			
Matrix Spike (B203278-MS1)				Source: 18E0084-12		Prepared: 05/14/18 Analyzed: 05/15/18				
Acetone	109	50	µg/L	100	ND	109	70-130			
Acrylonitrile	11.0	5.0	µg/L	10.0	ND	110	70-130			
tert-Amyl Methyl Ether (TAME)	11.9	0.50	µg/L	10.0	ND	119	70-130			
Benzene	13.4	1.0	µg/L	10.0	ND	134	* 70-130			MS-12
Bromobenzene	11.0	1.0	µg/L	10.0	ND	110	70-130			
Bromochloromethane	15.6	1.0	µg/L	10.0	ND	156	* 70-130			MS-12
Bromodichloromethane	12.5	0.50	µg/L	10.0	ND	125	70-130			
Bromoform	11.3	1.0	µg/L	10.0	ND	113	70-130			
Bromomethane	10.2	2.0	µg/L	10.0	ND	102	70-130			
2-Butanone (MEK)	105	20	µg/L	100	ND	105	70-130			
tert-Butyl Alcohol (TBA)	119	20	µg/L	100	ND	119	70-130			
n-Butylbenzene	9.65	1.0	µg/L	10.0	ND	96.5	70-130			
sec-Butylbenzene	9.53	1.0	µg/L	10.0	ND	95.3	70-130			
tert-Butylbenzene	9.72	1.0	µg/L	10.0	ND	97.2	70-130			
tert-Butyl Ethyl Ether (TBEE)	11.4	0.50	µg/L	10.0	ND	114	70-130			
Carbon Disulfide	13.7	4.0	µg/L	10.0	ND	137	* 70-130			MS-12, V-05
Carbon Tetrachloride	14.7	5.0	µg/L	10.0	ND	147	* 70-130			MS-12
Chlorobenzene	10.8	1.0	µg/L	10.0	ND	108	70-130			
Chlorodibromomethane	12.8	0.50	µg/L	10.0	ND	128	70-130			
Chloroethane	11.7	2.0	µg/L	10.0	ND	117	70-130			
Chloroform	13.5	2.0	µg/L	10.0	ND	135	* 70-130			MS-12
Chloromethane	9.50	2.0	µg/L	10.0	ND	95.0	70-130			V-05
2-Chlorotoluene	10.6	1.0	µg/L	10.0	ND	106	70-130			
4-Chlorotoluene	10.2	1.0	µg/L	10.0	ND	102	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.31	5.0	µg/L	10.0	ND	93.1	70-130			
1,2-Dibromoethane (EDB)	12.9	0.50	µg/L	10.0	ND	129	70-130			
Dibromomethane	12.6	1.0	µg/L	10.0	ND	126	70-130			
1,2-Dichlorobenzene	9.64	1.0	µg/L	10.0	ND	96.4	70-130			
1,3-Dichlorobenzene	9.72	1.0	µg/L	10.0	ND	97.2	70-130			
1,4-Dichlorobenzene	9.07	1.0	µg/L	10.0	ND	90.7	70-130			
trans-1,4-Dichloro-2-butene	8.61	2.0	µg/L	10.0	ND	86.1	70-130			
Dichlorodifluoromethane (Freon 12)	6.02	2.0	µg/L	10.0	ND	60.2	* 70-130			MS-09
1,1-Dichloroethane	13.4	1.0	µg/L	10.0	ND	134	* 70-130			MS-12
1,2-Dichloroethane	12.2	1.0	µg/L	10.0	ND	122	70-130			
1,1-Dichloroethylene	13.9	1.0	µg/L	10.0	ND	139	* 70-130			MS-12
cis-1,2-Dichloroethylene	47.4	1.0	µg/L	10.0	29.5	179	* 70-130			MS-19
trans-1,2-Dichloroethylene	14.5	1.0	µg/L	10.0	1.09	134	* 70-130			MS-12
1,2-Dichloropropane	12.5	1.0	µg/L	10.0	ND	125	70-130			
1,3-Dichloropropane	12.0	0.50	µg/L	10.0	ND	120	70-130			
2,2-Dichloropropane	8.66	1.0	µg/L	10.0	ND	86.6	70-130			
1,1-Dichloropropene	13.8	2.0	µg/L	10.0	ND	138	* 70-130			MS-12

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203278 - SW-846 5030B										
Matrix Spike (B203278-MS1)	Source: 18E0084-12			Prepared: 05/14/18 Analyzed: 05/15/18						
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.0	ND	108	70-130			
trans-1,3-Dichloropropene	11.1	0.50	µg/L	10.0	ND	111	70-130			
Diethyl Ether	12.5	2.0	µg/L	10.0	ND	125	70-130			
Diisopropyl Ether (DIPE)	11.2	0.50	µg/L	10.0	ND	112	70-130			
1,4-Dioxane	108	100	µg/L	100	ND	108	70-130			
Ethylbenzene	11.4	1.0	µg/L	10.0	ND	114	70-130			
Hexachlorobutadiene	9.98	1.0	µg/L	10.0	ND	99.8	70-130			
2-Hexanone (MBK)	107	10	µg/L	100	ND	107	70-130			
Isopropylbenzene (Cumene)	11.5	1.0	µg/L	10.0	ND	115	70-130			
p-Isopropyltoluene (p-Cymene)	9.85	1.0	µg/L	10.0	ND	98.5	70-130			
Methyl Acetate	8.61	1.0	µg/L	10.0	ND	86.1	70-130			
Methyl tert-Butyl Ether (MTBE)	12.8	1.0	µg/L	10.0	ND	128	70-130			
Methyl Cyclohexane	11.9	1.0	µg/L	10.0	ND	119	70-130			
Methylene Chloride	11.0	5.0	µg/L	10.0	ND	110	70-130			
4-Methyl-2-pentanone (MIBK)	104	10	µg/L	100	ND	104	70-130			
Naphthalene	11.2	2.0	µg/L	10.0	ND	112	70-130			
n-Propylbenzene	10.6	1.0	µg/L	10.0	ND	106	70-130			
Styrene	10.4	1.0	µg/L	10.0	ND	104	70-130			
1,1,1,2-Tetrachloroethane	11.4	1.0	µg/L	10.0	ND	114	70-130			
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0	ND	108	70-130			
Tetrachloroethylene	125	1.0	µg/L	10.0	71.7	531 *	70-130			MS-19
Tetrahydrofuran	11.0	10	µg/L	10.0	ND	110	70-130			
Toluene	12.7	1.0	µg/L	10.0	ND	127	70-130			
1,2,3-Trichlorobenzene	9.38	5.0	µg/L	10.0	ND	93.8	70-130			
1,2,4-Trichlorobenzene	8.60	1.0	µg/L	10.0	ND	86.0	70-130			
1,3,5-Trichlorobenzene	9.11	1.0	µg/L	10.0	ND	91.1	70-130			
1,1,1-Trichloroethane	14.0	1.0	µg/L	10.0	ND	140 *	70-130			MS-12
1,1,2-Trichloroethane	12.8	1.0	µg/L	10.0	ND	128	70-130			
Trichloroethylene	42.7	1.0	µg/L	10.0	18.8	239 *	70-130			MS-19
Trichlorofluoromethane (Freon 11)	11.8	2.0	µg/L	10.0	ND	118	70-130			
1,2,3-Trichloropropane	11.1	2.0	µg/L	10.0	ND	111	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.3	1.0	µg/L	10.0	ND	133 *	70-130			MS-12
1,2,4-Trimethylbenzene	10.0	1.0	µg/L	10.0	0.270	97.7	70-130			
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.0	0.150	107	70-130			
Vinyl Chloride	11.9	2.0	µg/L	10.0	ND	119	70-130			
m+p Xylene	22.1	2.0	µg/L	20.0	ND	111	70-130			
o-Xylene	10.8	1.0	µg/L	10.0	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.0		µg/L	25.0		96.0	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	26.2		µg/L	25.0		105	70-130			
Matrix Spike Dup (B203278-MSD1)	Source: 18E0084-12			Prepared: 05/14/18 Analyzed: 05/15/18						
Acetone	110	50	µg/L	100	ND	110	70-130	1.64	30	
Acrylonitrile	11.3	5.0	µg/L	10.0	ND	113	70-130	3.41	30	
tert-Amyl Methyl Ether (TAME)	12.0	0.50	µg/L	10.0	ND	120	70-130	1.42	30	
Benzene	13.2	1.0	µg/L	10.0	ND	132 *	70-130	1.36	30	MS-12
Bromobenzene	9.74	1.0	µg/L	10.0	ND	97.4	70-130	11.9	30	
Bromochloromethane	15.7	1.0	µg/L	10.0	ND	157 *	70-130	0.319	30	MS-12
Bromodichloromethane	12.0	0.50	µg/L	10.0	ND	120	70-130	3.84	30	
Bromoform	10.6	1.0	µg/L	10.0	ND	106	70-130	6.77	30	
Bromomethane	9.74	2.0	µg/L	10.0	ND	97.4	70-130	4.42	30	
2-Butanone (MEK)	101	20	µg/L	100	ND	101	70-130	3.81	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203278 - SW-846 5030B										
Matrix Spike Dup (B203278-MSD1)	Source: 18E0084-12			Prepared: 05/14/18 Analyzed: 05/15/18						
tert-Butyl Alcohol (TBA)	118	20	µg/L	100	ND	118	70-130	1.10	30	
n-Butylbenzene	8.26	1.0	µg/L	10.0	ND	82.6	70-130	15.5	30	
sec-Butylbenzene	8.55	1.0	µg/L	10.0	ND	85.5	70-130	10.8	30	
tert-Butylbenzene	8.84	1.0	µg/L	10.0	ND	88.4	70-130	9.48	30	
tert-Butyl Ethyl Ether (TBEE)	11.4	0.50	µg/L	10.0	ND	114	70-130	0.350	30	
Carbon Disulfide	13.2	4.0	µg/L	10.0	ND	132	* 70-130	3.64	30	MS-12, V-05
Carbon Tetrachloride	14.7	5.0	µg/L	10.0	ND	147	* 70-130	0.272	30	MS-12
Chlorobenzene	9.86	1.0	µg/L	10.0	ND	98.6	70-130	9.38	30	
Chlorodibromomethane	12.1	0.50	µg/L	10.0	ND	121	70-130	5.88	30	
Chloroethane	11.9	2.0	µg/L	10.0	ND	119	70-130	1.10	30	
Chloroform	13.6	2.0	µg/L	10.0	ND	136	* 70-130	0.592	30	MS-12
Chloromethane	9.68	2.0	µg/L	10.0	ND	96.8	70-130	1.88	30	V-05
2-Chlorotoluene	9.22	1.0	µg/L	10.0	ND	92.2	70-130	14.3	30	
4-Chlorotoluene	9.06	1.0	µg/L	10.0	ND	90.6	70-130	11.6	30	
1,2-Dibromo-3-chloropropane (DBCP)	8.77	5.0	µg/L	10.0	ND	87.7	70-130	5.97	30	
1,2-Dibromoethane (EDB)	12.1	0.50	µg/L	10.0	ND	121	70-130	6.46	30	
Dibromomethane	12.7	1.0	µg/L	10.0	ND	127	70-130	0.237	30	
1,2-Dichlorobenzene	8.47	1.0	µg/L	10.0	ND	84.7	70-130	12.9	30	
1,3-Dichlorobenzene	8.57	1.0	µg/L	10.0	ND	85.7	70-130	12.6	30	
1,4-Dichlorobenzene	8.07	1.0	µg/L	10.0	ND	80.7	70-130	11.7	30	
trans-1,4-Dichloro-2-butene	7.74	2.0	µg/L	10.0	ND	77.4	70-130	10.6	30	
Dichlorodifluoromethane (Freon 12)	5.93	2.0	µg/L	10.0	ND	59.3	* 70-130	1.51	30	MS-09
1,1-Dichloroethane	13.4	1.0	µg/L	10.0	ND	134	* 70-130	0.0746	30	MS-12
1,2-Dichloroethane	11.9	1.0	µg/L	10.0	ND	119	70-130	2.90	30	
1,1-Dichloroethylene	13.6	1.0	µg/L	10.0	ND	136	* 70-130	1.97	30	MS-12
cis-1,2-Dichloroethylene	57.3	1.0	µg/L	10.0	29.5	278	* 70-130	18.8	30	MS-19
trans-1,2-Dichloroethylene	14.8	1.0	µg/L	10.0	1.09	137	* 70-130	2.19	30	MS-12
1,2-Dichloropropane	12.2	1.0	µg/L	10.0	ND	122	70-130	2.59	30	
1,3-Dichloropropane	11.7	0.50	µg/L	10.0	ND	117	70-130	2.62	30	
2,2-Dichloropropane	8.38	1.0	µg/L	10.0	ND	83.8	70-130	3.29	30	
1,1-Dichloropropene	13.5	2.0	µg/L	10.0	ND	135	* 70-130	2.64	30	MS-12
cis-1,3-Dichloropropene	10.5	0.50	µg/L	10.0	ND	105	70-130	3.20	30	
trans-1,3-Dichloropropene	10.7	0.50	µg/L	10.0	ND	107	70-130	3.48	30	
Diethyl Ether	12.1	2.0	µg/L	10.0	ND	121	70-130	3.08	30	
Diisopropyl Ether (DIPE)	11.2	0.50	µg/L	10.0	ND	112	70-130	0.0892	30	
1,4-Dioxane	107	100	µg/L	100	ND	107	70-130	1.12	30	
Ethylbenzene	10.4	1.0	µg/L	10.0	ND	104	70-130	8.70	30	
Hexachlorobutadiene	8.19	1.0	µg/L	10.0	ND	81.9	70-130	19.7	30	
2-Hexanone (MBK)	99.6	10	µg/L	100	ND	99.6	70-130	7.36	30	
Isopropylbenzene (Cumene)	10.3	1.0	µg/L	10.0	ND	103	70-130	11.5	30	
p-Isopropyltoluene (p-Cymene)	8.83	1.0	µg/L	10.0	ND	88.3	70-130	10.9	30	
Methyl Acetate	11.0	1.0	µg/L	10.0	ND	110	70-130	24.6	30	
Methyl tert-Butyl Ether (MTBE)	12.9	1.0	µg/L	10.0	ND	129	70-130	0.621	30	
Methyl Cyclohexane	10.6	1.0	µg/L	10.0	ND	106	70-130	11.7	30	
Methylene Chloride	11.0	5.0	µg/L	10.0	ND	110	70-130	0.182	30	
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100	ND	101	70-130	2.63	30	
Naphthalene	9.36	2.0	µg/L	10.0	ND	93.6	70-130	17.9	30	
n-Propylbenzene	9.49	1.0	µg/L	10.0	ND	94.9	70-130	10.8	30	
Styrene	9.24	1.0	µg/L	10.0	ND	92.4	70-130	11.6	30	
1,1,1,2-Tetrachloroethane	11.1	1.0	µg/L	10.0	ND	111	70-130	2.93	30	
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0	ND	103	70-130	5.22	30	
Tetrachloroethylene	148	1.0	µg/L	10.0	71.7	767	* 70-130	17.3	30	MS-19

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203278 - SW-846 5030B										
Matrix Spike Dup (B203278-MSD1)	Source: 18E0084-12			Prepared: 05/14/18 Analyzed: 05/15/18						
Tetrahydrofuran	10.8	10	µg/L	10.0	ND	108	70-130	2.39	30	
Toluene	12.2	1.0	µg/L	10.0	ND	122	70-130	4.27	30	
1,2,3-Trichlorobenzene	7.99	5.0	µg/L	10.0	ND	79.9	70-130	16.0	30	
1,2,4-Trichlorobenzene	7.08	1.0	µg/L	10.0	ND	70.8	70-130	19.4	30	
1,3,5-Trichlorobenzene	7.69	1.0	µg/L	10.0	ND	76.9	70-130	16.9	30	
1,1,1-Trichloroethane	14.2	1.0	µg/L	10.0	ND	142	* 70-130	1.28	30	MS-12
1,1,2-Trichloroethane	12.1	1.0	µg/L	10.0	ND	121	70-130	5.60	30	
Trichloroethylene	58.3	1.0	µg/L	10.0	18.8	394	* 70-130	30.8	* 30	MS-19
Trichlorofluoromethane (Freon 11)	11.6	2.0	µg/L	10.0	ND	116	70-130	1.87	30	
1,2,3-Trichloropropane	10.5	2.0	µg/L	10.0	ND	105	70-130	5.45	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.2	1.0	µg/L	10.0	ND	132	* 70-130	0.604	30	MS-12
1,2,4-Trimethylbenzene	9.04	1.0	µg/L	10.0	0.270	87.7	70-130	10.5	30	
1,3,5-Trimethylbenzene	9.83	1.0	µg/L	10.0	0.150	96.8	70-130	10.2	30	
Vinyl Chloride	11.6	2.0	µg/L	10.0	ND	116	70-130	2.73	30	
m+p Xylene	20.5	2.0	µg/L	20.0	ND	102	70-130	7.84	20	
o-Xylene	10.1	1.0	µg/L	10.0	ND	101	70-130	7.07	30	
Surrogate: 1,2-Dichloroethane-d4	24.6		µg/L	25.0		98.6	70-130			
Surrogate: Toluene-d8	25.4		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	26.2		µg/L	25.0		105	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202549 - SW-846 3510C										
Blank (B202549-BLK1)				Prepared: 05/04/18 Analyzed: 05/09/18						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							L-04, V-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							R-05
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-19
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202549 - SW-846 3510C										
Blank (B202549-BLK1)				Prepared: 05/04/18 Analyzed: 05/09/18						
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	104		µg/L	200		52.0	15-110			
Surrogate: Phenol-d6	73.1		µg/L	200		36.6	15-110			
Surrogate: Nitrobenzene-d5	79.0		µg/L	100		79.0	30-130			
Surrogate: 2-Fluorobiphenyl	65.1		µg/L	101		64.5	30-130			
Surrogate: 2,4,6-Tribromophenol	152		µg/L	200		75.8	15-110			
Surrogate: p-Terphenyl-d14	99.2		µg/L	101		98.3	30-130			
LCS (B202549-BS1)				Prepared: 05/04/18 Analyzed: 05/09/18						
Acenaphthene	30.6	5.0	µg/L	50.0		61.2	40-140			
Acenaphthylene	31.0	5.0	µg/L	50.0		62.1	40-140			
Acetophenone	35.2	10	µg/L	50.0		70.4	40-140			
Aniline	29.6	5.0	µg/L	50.0		59.1	40-140			V-05
Anthracene	35.9	5.0	µg/L	50.0		71.8	40-140			
Benzidine	5.26	20	µg/L	50.0		10.5 *	40-140			V-05, L-04, V-04, J
Benzo(a)anthracene	37.4	5.0	µg/L	50.0		74.8	40-140			
Benzo(a)pyrene	38.1	5.0	µg/L	50.0		76.1	40-140			
Benzo(b)fluoranthene	36.6	5.0	µg/L	50.0		73.1	40-140			
Benzo(g,h,i)perylene	38.9	5.0	µg/L	50.0		77.8	40-140			
Benzo(k)fluoranthene	37.9	5.0	µg/L	50.0		75.7	40-140			
Benzoic Acid	10.7	10	µg/L	50.0		21.4	10-130			†
Bis(2-chloroethoxy)methane	39.9	10	µg/L	50.0		79.7	40-140			
Bis(2-chloroethyl)ether	33.3	10	µg/L	50.0		66.6	40-140			
Bis(2-chloroisopropyl)ether	37.0	10	µg/L	50.0		73.9	40-140			
Bis(2-Ethylhexyl)phthalate	38.8	10	µg/L	50.0		77.7	40-140			
4-Bromophenylphenylether	35.2	10	µg/L	50.0		70.3	40-140			
Butylbenzylphthalate	38.4	10	µg/L	50.0		76.8	40-140			
Carbazole	36.6	10	µg/L	50.0		73.2	40-140			
4-Chloroaniline	31.8	10	µg/L	50.0		63.5	40-140			V-34
4-Chloro-3-methylphenol	35.9	10	µg/L	50.0		71.8	30-130			
2-Chloronaphthalene	27.7	10	µg/L	50.0		55.4	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202549 - SW-846 3510C										
LCS (B202549-BS1)				Prepared: 05/04/18 Analyzed: 05/09/18						
2-Chlorophenol	29.4	10	µg/L	50.0		58.8	30-130			
4-Chlorophenylphenylether	32.8	10	µg/L	50.0		65.7	40-140			
Chrysene	35.2	5.0	µg/L	50.0		70.5	40-140			
Dibenz(a,h)anthracene	41.0	5.0	µg/L	50.0		82.0	40-140			
Dibenzofuran	32.9	5.0	µg/L	50.0		65.8	40-140			
Di-n-butylphthalate	37.5	10	µg/L	50.0		75.1	40-140			
1,2-Dichlorobenzene	28.0	5.0	µg/L	50.0		56.1	40-140			
1,3-Dichlorobenzene	27.2	5.0	µg/L	50.0		54.5	40-140			
1,4-Dichlorobenzene	27.4	5.0	µg/L	50.0		54.7	40-140			
3,3-Dichlorobenzidine	38.5	10	µg/L	50.0		77.0	40-140			
2,4-Dichlorophenol	34.7	10	µg/L	50.0		69.4	30-130			
Diethylphthalate	34.4	10	µg/L	50.0		68.7	40-140			
2,4-Dimethylphenol	27.2	10	µg/L	50.0		54.3	30-130			R-05
Dimethylphthalate	37.1	10	µg/L	50.0		74.2	40-140			
4,6-Dinitro-2-methylphenol	33.5	10	µg/L	50.0		67.0	30-130			
2,4-Dinitrophenol	33.7	10	µg/L	50.0		67.5	30-130			V-19
2,4-Dinitrotoluene	34.0	10	µg/L	50.0		68.1	40-140			
2,6-Dinitrotoluene	36.2	10	µg/L	50.0		72.4	40-140			
Di-n-octylphthalate	39.1	10	µg/L	50.0		78.2	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	37.8	10	µg/L	50.0		75.7	40-140			
Fluoranthene	36.7	5.0	µg/L	50.0		73.4	40-140			
Fluorene	33.0	5.0	µg/L	50.0		65.9	40-140			
Hexachlorobenzene	33.8	10	µg/L	50.0		67.7	40-140			
Hexachlorobutadiene	30.1	10	µg/L	50.0		60.2	40-140			
Hexachlorocyclopentadiene	23.9	10	µg/L	50.0		47.8	30-140			V-05 †
Hexachloroethane	28.1	10	µg/L	50.0		56.1	40-140			
Indeno(1,2,3-cd)pyrene	40.5	5.0	µg/L	50.0		81.1	40-140			
Isophorone	37.4	10	µg/L	50.0		74.8	40-140			
1-Methylnaphthalene	35.7	5.0	µg/L	50.0		71.4	40-140			
2-Methylnaphthalene	35.7	5.0	µg/L	50.0		71.3	40-140			
2-Methylphenol	23.6	10	µg/L	50.0		47.3	30-130			
3/4-Methylphenol	24.7	10	µg/L	50.0		49.5	30-130			
Naphthalene	32.9	5.0	µg/L	50.0		65.9	40-140			
2-Nitroaniline	36.7	10	µg/L	50.0		73.4	40-140			
3-Nitroaniline	35.0	10	µg/L	50.0		70.1	40-140			
4-Nitroaniline	36.4	10	µg/L	50.0		72.8	40-140			
Nitrobenzene	34.5	10	µg/L	50.0		69.0	40-140			
2-Nitrophenol	33.5	10	µg/L	50.0		66.9	30-130			
4-Nitrophenol	15.0	10	µg/L	50.0		30.0	10-130			†
N-Nitrosodimethylamine	24.3	10	µg/L	50.0		48.7	40-140			
N-Nitrosodiphenylamine	43.9	10	µg/L	50.0		87.7	40-140			
N-Nitrosodi-n-propylamine	35.5	10	µg/L	50.0		71.0	40-140			
Pentachloronitrobenzene	36.2	10	µg/L	50.0		72.5	40-140			V-16
Pentachlorophenol	28.2	10	µg/L	50.0		56.4	30-130			
Phenanthrene	35.9	5.0	µg/L	50.0		71.7	40-140			
Phenol	11.2	10	µg/L	50.0		22.4	20-130			†
Pyrene	36.5	5.0	µg/L	50.0		73.0	40-140			
Pyridine	12.2	5.0	µg/L	50.0		24.4	10-140			†
1,2,4,5-Tetrachlorobenzene	30.9	10	µg/L	50.0		61.8	40-140			
1,2,4-Trichlorobenzene	30.4	5.0	µg/L	50.0		60.8	40-140			
2,4,5-Trichlorophenol	33.8	10	µg/L	50.0		67.6	30-130			
2,4,6-Trichlorophenol	32.7	10	µg/L	50.0		65.4	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202549 - SW-846 3510C
LCS (B202549-BS1)

Prepared: 05/04/18 Analyzed: 05/09/18

Surrogate: 2-Fluorophenol	68.6		µg/L	200		34.3	15-110			
Surrogate: Phenol-d6	44.8		µg/L	200		22.4	15-110			
Surrogate: Nitrobenzene-d5	71.2		µg/L	100		71.2	30-130			
Surrogate: 2-Fluorobiphenyl	60.5		µg/L	101		59.9	30-130			
Surrogate: 2,4,6-Tribromophenol	143		µg/L	200		71.4	15-110			
Surrogate: p-Terphenyl-d14	84.3		µg/L	101		83.5	30-130			

LCS Dup (B202549-BSD1)

Prepared: 05/04/18 Analyzed: 05/09/18

Acenaphthene	29.5	5.0	µg/L	50.0		59.0	40-140	3.70	20	
Acenaphthylene	31.0	5.0	µg/L	50.0		61.9	40-140	0.290	20	
Acetophenone	34.8	10	µg/L	50.0		69.7	40-140	1.06	20	
Aniline	32.4	5.0	µg/L	50.0		64.7	40-140	8.98	50	V-05 ‡
Anthracene	34.2	5.0	µg/L	50.0		68.4	40-140	4.79	20	
Benzidine	6.34	20	µg/L	50.0		12.7 *	40-140	18.6	20	L-04, V-04, V-05, J
Benzo(a)anthracene	36.6	5.0	µg/L	50.0		73.2	40-140	2.19	20	
Benzo(a)pyrene	37.3	5.0	µg/L	50.0		74.7	40-140	1.94	20	
Benzo(b)fluoranthene	35.9	5.0	µg/L	50.0		71.8	40-140	1.79	20	
Benzo(g,h,i)perylene	38.1	5.0	µg/L	50.0		76.3	40-140	2.02	20	
Benzo(k)fluoranthene	37.0	5.0	µg/L	50.0		74.1	40-140	2.19	20	
Benzoic Acid	11.1	10	µg/L	50.0		22.2	10-130	3.57	50	† ‡
Bis(2-chloroethoxy)methane	39.8	10	µg/L	50.0		79.5	40-140	0.276	20	
Bis(2-chloroethyl)ether	34.0	10	µg/L	50.0		68.0	40-140	2.05	20	
Bis(2-chloroisopropyl)ether	36.7	10	µg/L	50.0		73.4	40-140	0.733	20	
Bis(2-Ethylhexyl)phthalate	38.6	10	µg/L	50.0		77.2	40-140	0.542	20	
4-Bromophenylphenylether	34.0	10	µg/L	50.0		67.9	40-140	3.47	20	
Butylbenzylphthalate	37.8	10	µg/L	50.0		75.6	40-140	1.57	20	
Carbazole	34.8	10	µg/L	50.0		69.7	40-140	4.93	20	
4-Chloroaniline	35.5	10	µg/L	50.0		71.0	40-140	11.1	20	V-34
4-Chloro-3-methylphenol	35.8	10	µg/L	50.0		71.7	30-130	0.251	20	
2-Chloronaphthalene	27.7	10	µg/L	50.0		55.4	40-140	0.0361	20	
2-Chlorophenol	29.2	10	µg/L	50.0		58.4	30-130	0.580	20	
4-Chlorophenylphenylether	32.7	10	µg/L	50.0		65.3	40-140	0.550	20	
Chrysene	34.5	5.0	µg/L	50.0		68.9	40-140	2.27	20	
Dibenz(a,h)anthracene	39.5	5.0	µg/L	50.0		79.0	40-140	3.65	20	
Dibenzofuran	32.8	5.0	µg/L	50.0		65.7	40-140	0.213	20	
Di-n-butylphthalate	35.3	10	µg/L	50.0		70.7	40-140	6.04	20	
1,2-Dichlorobenzene	26.6	5.0	µg/L	50.0		53.3	40-140	5.09	20	
1,3-Dichlorobenzene	25.6	5.0	µg/L	50.0		51.2	40-140	6.17	20	
1,4-Dichlorobenzene	25.9	5.0	µg/L	50.0		51.7	40-140	5.56	20	
3,3-Dichlorobenzidine	38.4	10	µg/L	50.0		76.8	40-140	0.182	20	
2,4-Dichlorophenol	34.0	10	µg/L	50.0		68.0	30-130	1.98	20	
Diethylphthalate	34.1	10	µg/L	50.0		68.3	40-140	0.643	20	
2,4-Dimethylphenol	21.9	10	µg/L	50.0		43.8	30-130	21.5 *	20	R-05
Dimethylphthalate	36.3	10	µg/L	50.0		72.6	40-140	2.07	50	‡
4,6-Dinitro-2-methylphenol	32.2	10	µg/L	50.0		64.5	30-130	3.92	50	‡
2,4-Dinitrophenol	34.3	10	µg/L	50.0		68.7	30-130	1.76	50	V-19 ‡
2,4-Dinitrotoluene	34.3	10	µg/L	50.0		68.7	40-140	0.907	20	
2,6-Dinitrotoluene	35.8	10	µg/L	50.0		71.7	40-140	0.972	20	
Di-n-octylphthalate	38.7	10	µg/L	50.0		77.3	40-140	1.11	20	
1,2-Diphenylhydrazine (as Azobenzene)	36.0	10	µg/L	50.0		71.9	40-140	5.12	20	
Fluoranthene	34.6	5.0	µg/L	50.0		69.3	40-140	5.72	20	
Fluorene	32.5	5.0	µg/L	50.0		65.0	40-140	1.44	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202549 - SW-846 3510C

LCS Dup (B202549-BS1)

Prepared: 05/04/18 Analyzed: 05/09/18

Hexachlorobenzene	32.8	10	µg/L	50.0		65.6	40-140	3.09	20	
Hexachlorobutadiene	28.9	10	µg/L	50.0		57.8	40-140	4.13	20	
Hexachlorocyclopentadiene	23.9	10	µg/L	50.0		47.8	30-140	0.00	50	V-05 † ‡
Hexachloroethane	26.5	10	µg/L	50.0		53.1	40-140	5.61	50	‡
Indeno(1,2,3-cd)pyrene	39.0	5.0	µg/L	50.0		78.0	40-140	3.90	50	‡
Isophorone	36.7	10	µg/L	50.0		73.3	40-140	1.97	20	
1-Methylnaphthalene	35.2	5.0	µg/L	50.0		70.3	40-140	1.55	20	
2-Methylnaphthalene	35.4	5.0	µg/L	50.0		70.9	40-140	0.647	20	
2-Methylphenol	23.8	10	µg/L	50.0		47.6	30-130	0.717	20	
3/4-Methylphenol	25.4	10	µg/L	50.0		50.8	30-130	2.59	20	
Naphthalene	32.1	5.0	µg/L	50.0		64.2	40-140	2.58	20	
2-Nitroaniline	36.2	10	µg/L	50.0		72.4	40-140	1.29	20	
3-Nitroaniline	35.3	10	µg/L	50.0		70.7	40-140	0.853	20	
4-Nitroaniline	36.8	10	µg/L	50.0		73.6	40-140	1.04	20	
Nitrobenzene	33.4	10	µg/L	50.0		66.9	40-140	3.18	20	
2-Nitrophenol	32.4	10	µg/L	50.0		64.8	30-130	3.28	20	
4-Nitrophenol	15.9	10	µg/L	50.0		31.8	10-130	5.63	50	† ‡
N-Nitrosodimethylamine	24.2	10	µg/L	50.0		48.3	40-140	0.660	20	
N-Nitrosodiphenylamine	41.6	10	µg/L	50.0		83.1	40-140	5.41	20	
N-Nitrosodi-n-propylamine	34.7	10	µg/L	50.0		69.4	40-140	2.28	20	
Pentachloronitrobenzene	34.8	10	µg/L	50.0		69.5	40-140	4.17	20	V-16
Pentachlorophenol	26.2	10	µg/L	50.0		52.5	30-130	7.27	50	‡
Phenanthrene	34.2	5.0	µg/L	50.0		68.5	40-140	4.62	20	
Phenol	11.7	10	µg/L	50.0		23.5	20-130	4.89	20	†
Pyrene	36.1	5.0	µg/L	50.0		72.2	40-140	1.13	20	
Pyridine	17.0	5.0	µg/L	50.0		34.1	10-140	33.1	50	† ‡
1,2,4,5-Tetrachlorobenzene	30.7	10	µg/L	50.0		61.4	40-140	0.747	20	
1,2,4-Trichlorobenzene	29.2	5.0	µg/L	50.0		58.5	40-140	3.82	20	
2,4,5-Trichlorophenol	34.1	10	µg/L	50.0		68.2	30-130	0.824	20	
2,4,6-Trichlorophenol	33.0	10	µg/L	50.0		66.1	30-130	1.00	50	‡
Surrogate: 2-Fluorophenol	69.3		µg/L	200		34.6	15-110			
Surrogate: Phenol-d6	47.2		µg/L	200		23.6	15-110			
Surrogate: Nitrobenzene-d5	68.4		µg/L	100		68.4	30-130			
Surrogate: 2-Fluorobiphenyl	59.1		µg/L	101		58.5	30-130			
Surrogate: 2,4,6-Tribromophenol	140		µg/L	200		70.0	15-110			
Surrogate: p-Terphenyl-d14	83.6		µg/L	101		82.8	30-130			

Batch B203445 - SW-846 3546

Blank (B203445-BLK1)

Prepared: 05/15/18 Analyzed: 05/16/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.66	mg/Kg wet							V-04, V-05
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							V-20
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203445 - SW-846 3546										
Blank (B203445-BLK1)				Prepared: 05/15/18 Analyzed: 05/16/18						
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-20
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							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
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-20
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203445 - SW-846 3546										
Blank (B203445-BLK1)										
Prepared: 05/15/18 Analyzed: 05/16/18										
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Pyridine	ND	0.34	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	5.41		mg/Kg wet	6.67		81.1	30-130			
Surrogate: Phenol-d6	5.82		mg/Kg wet	6.67		87.4	30-130			
Surrogate: Nitrobenzene-d5	2.41		mg/Kg wet	3.33		72.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.09		mg/Kg wet	3.37		62.2	30-130			
Surrogate: 2,4,6-Tribromophenol	4.65		mg/Kg wet	6.67		69.8	30-130			
Surrogate: p-Terphenyl-d14	2.73		mg/Kg wet	3.37		81.0	30-130			
LCS (B203445-BS1)										
Prepared: 05/15/18 Analyzed: 05/16/18										
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Acenaphthylene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140			
Acetophenone	1.24	0.34	mg/Kg wet	1.67		74.5	40-140			
Aniline	0.907	0.34	mg/Kg wet	1.67		54.4	10-140			†
Anthracene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Benidine	0.926	0.66	mg/Kg wet	1.67		55.6	40-140			V-04, V-05
Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		73.9	40-140			
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140			
Benzo(g,h,i)perylene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140			
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140			
Benzoic Acid	0.691	1.0	mg/Kg wet	1.61		42.8	30-130			V-06, J
Bis(2-chloroethoxy)methane	1.30	0.34	mg/Kg wet	1.67		77.9	40-140			
Bis(2-chloroethyl)ether	1.31	0.34	mg/Kg wet	1.67		78.4	40-140			
Bis(2-chloroisopropyl)ether	1.37	0.34	mg/Kg wet	1.67		82.0	40-140			V-06
Bis(2-Ethylhexyl)phthalate	1.13	0.34	mg/Kg wet	1.67		67.5	40-140			
4-Bromophenylphenylether	1.16	0.34	mg/Kg wet	1.67		69.6	40-140			
Butylbenzylphthalate	1.11	0.34	mg/Kg wet	1.67		66.4	40-140			
Carbazole	1.23	0.17	mg/Kg wet	1.67		74.0	40-140			
4-Chloroaniline	0.903	0.66	mg/Kg wet	1.67		54.2	10-140			V-34 †
4-Chloro-3-methylphenol	1.25	0.66	mg/Kg wet	1.67		75.3	30-130			
2-Chloronaphthalene	0.959	0.34	mg/Kg wet	1.67		57.6	40-140			
2-Chlorophenol	1.19	0.34	mg/Kg wet	1.67		71.2	30-130			
4-Chlorophenylphenylether	1.15	0.34	mg/Kg wet	1.67		68.9	40-140			
Chrysene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140			
Dibenz(a,h)anthracene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140			
Dibenzofuran	1.14	0.34	mg/Kg wet	1.67		68.6	40-140			
Di-n-butylphthalate	1.18	0.34	mg/Kg wet	1.67		70.7	40-140			
1,2-Dichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.8	40-140			
1,3-Dichlorobenzene	1.03	0.34	mg/Kg wet	1.67		62.0	40-140			
1,4-Dichlorobenzene	1.03	0.34	mg/Kg wet	1.67		62.1	40-140			
3,3-Dichlorobenzidine	1.09	0.17	mg/Kg wet	1.67		65.6	20-140			†
2,4-Dichlorophenol	1.21	0.34	mg/Kg wet	1.67		72.6	30-130			
Diethylphthalate	1.08	0.34	mg/Kg wet	1.67		64.6	40-140			
2,4-Dimethylphenol	1.27	0.34	mg/Kg wet	1.67		76.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203445 - SW-846 3546										
LCS (B203445-BS1)					Prepared: 05/15/18 Analyzed: 05/16/18					
Dimethylphthalate	1.14	0.34	mg/Kg wet	1.67		68.5	40-140			
4,6-Dinitro-2-methylphenol	1.11	0.34	mg/Kg wet	1.67		66.9	30-130			
2,4-Dinitrophenol	0.949	0.66	mg/Kg wet	1.67		56.9	30-130			
2,4-Dinitrotoluene	1.26	0.34	mg/Kg wet	1.67		75.5	40-140			
2,6-Dinitrotoluene	1.23	0.34	mg/Kg wet	1.67		73.6	40-140			
Di-n-octylphthalate	1.08	0.34	mg/Kg wet	1.67		64.5	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.14	0.34	mg/Kg wet	1.67		68.6	40-140			
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.5	40-140			
Fluorene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140			
Hexachlorobenzene	1.15	0.34	mg/Kg wet	1.67		69.2	40-140			
Hexachlorobutadiene	1.09	0.34	mg/Kg wet	1.67		65.3	40-140			
Hexachlorocyclopentadiene	0.734	0.34	mg/Kg wet	1.67		44.1	40-140			V-05
Hexachloroethane	1.04	0.34	mg/Kg wet	1.67		62.5	40-140			
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140			
Isophorone	1.23	0.34	mg/Kg wet	1.67		73.5	40-140			
1-Methylnaphthalene	1.28	0.17	mg/Kg wet	1.67		76.7	40-140			
2-Methylnaphthalene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140			
2-Methylphenol	1.14	0.34	mg/Kg wet	1.67		68.5	30-130			
3/4-Methylphenol	1.29	0.34	mg/Kg wet	1.67		77.6	30-130			
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
2-Nitroaniline	1.18	0.34	mg/Kg wet	1.67		70.6	40-140			
3-Nitroaniline	0.982	0.34	mg/Kg wet	1.67		58.9	30-140			†
4-Nitroaniline	1.25	0.34	mg/Kg wet	1.67		74.9	40-140			
Nitrobenzene	1.11	0.34	mg/Kg wet	1.67		66.6	40-140			
2-Nitrophenol	1.26	0.34	mg/Kg wet	1.67		75.6	30-130			
4-Nitrophenol	1.00	0.66	mg/Kg wet	1.67		60.2	30-130			
N-Nitrosodimethylamine	1.15	0.34	mg/Kg wet	1.67		68.8	40-140			V-06
N-Nitrosodiphenylamine	1.43	0.34	mg/Kg wet	1.67		85.8	40-140			
N-Nitrosodi-n-propylamine	1.26	0.34	mg/Kg wet	1.67		75.9	40-140			
Pentachloronitrobenzene	1.21	0.34	mg/Kg wet	1.67		72.9	40-140			V-16
Pentachlorophenol	1.20	0.34	mg/Kg wet	1.67		71.8	30-130			
Phenanthrene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
Phenol	1.24	0.34	mg/Kg wet	1.67		74.3	30-130			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140			
Pyridine	0.982	0.34	mg/Kg wet	1.67		58.9	30-140			†
1,2,4,5-Tetrachlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.5	40-140			
1,2,4-Trichlorobenzene	1.10	0.34	mg/Kg wet	1.67		65.9	40-140			
2,4,5-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.8	30-130			
2,4,6-Trichlorophenol	1.12	0.34	mg/Kg wet	1.67		67.1	30-130			
Surrogate: 2-Fluorophenol	5.17		mg/Kg wet	6.67		77.5	30-130			
Surrogate: Phenol-d6	5.55		mg/Kg wet	6.67		83.2	30-130			
Surrogate: Nitrobenzene-d5	2.38		mg/Kg wet	3.33		71.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.04		mg/Kg wet	3.37		60.6	30-130			
Surrogate: 2,4,6-Tribromophenol	5.21		mg/Kg wet	6.67		78.2	30-130			
Surrogate: p-Terphenyl-d14	2.33		mg/Kg wet	3.37		69.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203445 - SW-846 3546										
LCS Dup (B203445-BSD1)					Prepared: 05/15/18 Analyzed: 05/16/18					
Acenaphthene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	12.4	30	
Acenaphthylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	11.5	30	
Acetophenone	1.31	0.34	mg/Kg wet	1.67		78.8	40-140	5.64	30	
Aniline	1.02	0.34	mg/Kg wet	1.67		61.5	10-140	12.2	50	† ‡
Anthracene	1.43	0.17	mg/Kg wet	1.67		85.8	40-140	12.6	30	
Benzidine	1.22	0.66	mg/Kg wet	1.67		72.9	40-140	27.0	30	V-04, V-05
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		77.1	40-140	10.5	30	
Benzo(a)pyrene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140	11.4	30	
Benzo(b)fluoranthene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140	14.3	30	
Benzo(g,h,i)perylene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	8.43	30	
Benzo(k)fluoranthene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140	13.3	30	
Benzoic Acid	0.745	1.0	mg/Kg wet	1.61		46.2	30-130	7.52	50	V-06, J ‡
Bis(2-chloroethoxy)methane	1.41	0.34	mg/Kg wet	1.67		84.8	40-140	8.43	30	
Bis(2-chloroethyl)ether	1.35	0.34	mg/Kg wet	1.67		80.8	40-140	3.09	30	
Bis(2-chloroisopropyl)ether	1.43	0.34	mg/Kg wet	1.67		85.7	40-140	4.41	30	V-06
Bis(2-Ethylhexyl)phthalate	1.26	0.34	mg/Kg wet	1.67		75.5	40-140	11.2	30	
4-Bromophenylphenylether	1.35	0.34	mg/Kg wet	1.67		81.2	40-140	15.4	30	
Butylbenzylphthalate	1.21	0.34	mg/Kg wet	1.67		72.4	40-140	8.65	30	
Carbazole	1.40	0.17	mg/Kg wet	1.67		83.7	40-140	12.3	30	
4-Chloroaniline	1.09	0.66	mg/Kg wet	1.67		65.4	10-140	18.8	30	V-34 †
4-Chloro-3-methylphenol	1.38	0.66	mg/Kg wet	1.67		83.0	30-130	9.78	30	
2-Chloronaphthalene	1.16	0.34	mg/Kg wet	1.67		69.4	40-140	18.7	30	
2-Chlorophenol	1.26	0.34	mg/Kg wet	1.67		75.8	30-130	6.31	30	
4-Chlorophenylphenylether	1.35	0.34	mg/Kg wet	1.67		80.9	40-140	16.1	30	
Chrysene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140	10.5	30	
Dibenz(a,h)anthracene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140	8.16	30	
Dibenzofuran	1.30	0.34	mg/Kg wet	1.67		78.0	40-140	12.9	30	
Di-n-butylphthalate	1.33	0.34	mg/Kg wet	1.67		80.0	40-140	12.4	30	
1,2-Dichlorobenzene	1.05	0.34	mg/Kg wet	1.67		62.9	40-140	1.42	30	
1,3-Dichlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.6	40-140	2.35	30	
1,4-Dichlorobenzene	1.04	0.34	mg/Kg wet	1.67		62.5	40-140	0.674	30	
3,3-Dichlorobenzidine	1.29	0.17	mg/Kg wet	1.67		77.4	20-140	16.5	50	† ‡
2,4-Dichlorophenol	1.39	0.34	mg/Kg wet	1.67		83.6	30-130	14.1	30	
Diethylphthalate	1.25	0.34	mg/Kg wet	1.67		75.3	40-140	15.2	30	
2,4-Dimethylphenol	1.42	0.34	mg/Kg wet	1.67		85.0	30-130	10.6	30	
Dimethylphthalate	1.28	0.34	mg/Kg wet	1.67		77.1	40-140	11.8	30	
4,6-Dinitro-2-methylphenol	1.28	0.34	mg/Kg wet	1.67		76.6	30-130	13.6	30	
2,4-Dinitrophenol	1.06	0.66	mg/Kg wet	1.67		63.3	30-130	10.6	30	
2,4-Dinitrotoluene	1.44	0.34	mg/Kg wet	1.67		86.1	40-140	13.1	30	
2,6-Dinitrotoluene	1.36	0.34	mg/Kg wet	1.67		81.8	40-140	10.6	30	
Di-n-octylphthalate	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	13.4	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.26	0.34	mg/Kg wet	1.67		75.9	40-140	10.1	30	
Fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.2	40-140	15.4	30	
Fluorene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140	12.9	30	
Hexachlorobenzene	1.32	0.34	mg/Kg wet	1.67		79.1	40-140	13.3	30	
Hexachlorobutadiene	1.12	0.34	mg/Kg wet	1.67		67.5	40-140	3.28	30	
Hexachlorocyclopentadiene	0.791	0.34	mg/Kg wet	1.67		47.5	40-140	7.47	30	V-05
Hexachloroethane	1.02	0.34	mg/Kg wet	1.67		61.4	40-140	1.68	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	9.18	30	
Isophorone	1.35	0.34	mg/Kg wet	1.67		81.2	40-140	9.88	30	
1-Methylnaphthalene	1.43	0.17	mg/Kg wet	1.67		85.7	40-140	11.1	30	
2-Methylnaphthalene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140	10.9	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203445 - SW-846 3546										
LCS Dup (B203445-BSD1)										
					Prepared: 05/15/18 Analyzed: 05/16/18					
2-Methylphenol	1.26	0.34	mg/Kg wet	1.67		75.3	30-130	9.46	30	
3/4-Methylphenol	1.45	0.34	mg/Kg wet	1.67		87.3	30-130	11.7	30	
Naphthalene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140	6.35	30	
2-Nitroaniline	1.39	0.34	mg/Kg wet	1.67		83.5	40-140	16.8	30	
3-Nitroaniline	1.14	0.34	mg/Kg wet	1.67		68.1	30-140	14.5	30	†
4-Nitroaniline	1.45	0.34	mg/Kg wet	1.67		87.2	40-140	15.2	30	
Nitrobenzene	1.18	0.34	mg/Kg wet	1.67		71.1	40-140	6.45	30	
2-Nitrophenol	1.31	0.34	mg/Kg wet	1.67		78.7	30-130	4.04	30	
4-Nitrophenol	1.25	0.66	mg/Kg wet	1.67		74.8	30-130	21.5	50	‡
N-Nitrosodimethylamine	1.11	0.34	mg/Kg wet	1.67		66.4	40-140	3.58	30	V-06
N-Nitrosodiphenylamine	1.60	0.34	mg/Kg wet	1.67		96.0	40-140	11.2	30	
N-Nitrosodi-n-propylamine	1.38	0.34	mg/Kg wet	1.67		82.9	40-140	8.89	30	
Pentachloronitrobenzene	1.44	0.34	mg/Kg wet	1.67		86.5	40-140	17.1	30	V-16
Pentachlorophenol	1.44	0.34	mg/Kg wet	1.67		86.3	30-130	18.4	30	
Phenanthrene	1.38	0.17	mg/Kg wet	1.67		83.1	40-140	11.2	30	
Phenol	1.34	0.34	mg/Kg wet	1.67		80.3	30-130	7.74	30	
Pyrene	1.19	0.17	mg/Kg wet	1.67		71.1	40-140	10.8	30	
Pyridine	0.913	0.34	mg/Kg wet	1.67		54.8	30-140	7.21	30	†
1,2,4,5-Tetrachlorobenzene	1.20	0.34	mg/Kg wet	1.67		72.0	40-140	11.0	30	
1,2,4-Trichlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.6	40-140	5.43	30	
2,4,5-Trichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.6	30-130	15.6	30	
2,4,6-Trichlorophenol	1.27	0.34	mg/Kg wet	1.67		76.1	30-130	12.5	30	
Surrogate: 2-Fluorophenol	5.20		mg/Kg wet	6.67		77.9	30-130			
Surrogate: Phenol-d6	5.88		mg/Kg wet	6.67		88.2	30-130			
Surrogate: Nitrobenzene-d5	2.45		mg/Kg wet	3.33		73.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.24		mg/Kg wet	3.37		66.4	30-130			
Surrogate: 2,4,6-Tribromophenol	6.16		mg/Kg wet	6.67		92.5	30-130			
Surrogate: p-Terphenyl-d14	2.57		mg/Kg wet	3.37		76.4	30-130			
Matrix Spike (B203445-MS1)										
				Source: 18E0084-04RE1		Prepared: 05/15/18 Analyzed: 05/16/18				
Acenaphthene	1.26	0.18	mg/Kg dry	1.78	ND	70.9	40-140			
Acenaphthylene	1.19	0.18	mg/Kg dry	1.78	ND	67.0	40-140			
Acetophenone	1.40	0.36	mg/Kg dry	1.78	ND	78.4	40-140			
Aniline	0.869	0.36	mg/Kg dry	1.78	ND	48.8	40-140			V-05
Anthracene	1.35	0.18	mg/Kg dry	1.78	ND	75.9	40-140			
Benzidine	ND	0.71	mg/Kg dry	1.78	ND	*	40-140			MS-09, V-05
Benzo(a)anthracene	1.25	0.18	mg/Kg dry	1.78	ND	70.2	40-140			
Benzo(a)pyrene	1.34	0.18	mg/Kg dry	1.78	ND	75.1	40-140			
Benzo(b)fluoranthene	1.29	0.18	mg/Kg dry	1.78	ND	72.2	40-140			
Benzo(g,h,i)perylene	1.30	0.18	mg/Kg dry	1.78	ND	73.3	40-140			
Benzo(k)fluoranthene	1.28	0.18	mg/Kg dry	1.78	ND	72.1	40-140			
Benzoic Acid	1.16	1.1	mg/Kg dry	1.72	ND	67.5	40-140			V-06
Bis(2-chloroethoxy)methane	1.48	0.36	mg/Kg dry	1.78	ND	83.2	40-140			
Bis(2-chloroethyl)ether	1.44	0.36	mg/Kg dry	1.78	ND	81.1	40-140			V-06
Bis(2-chloroisopropyl)ether	1.65	0.36	mg/Kg dry	1.78	ND	92.7	40-140			V-06
Bis(2-Ethylhexyl)phthalate	1.34	0.36	mg/Kg dry	1.78	ND	75.4	40-140			
4-Bromophenylphenylether	1.27	0.36	mg/Kg dry	1.78	ND	71.3	40-140			
Butylbenzylphthalate	1.29	0.36	mg/Kg dry	1.78	ND	72.5	40-140			
Carbazole	1.30	0.18	mg/Kg dry	1.78	ND	73.1	40-140			
4-Chloroaniline	0.976	0.71	mg/Kg dry	1.78	ND	54.8	40-140			
4-Chloro-3-methylphenol	1.33	0.71	mg/Kg dry	1.78	ND	74.9	30-130			
2-Chloronaphthalene	1.11	0.36	mg/Kg dry	1.78	ND	62.6	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203445 - SW-846 3546										
Matrix Spike (B203445-MS1)	Source: 18E0084-04RE1			Prepared: 05/15/18 Analyzed: 05/16/18						
2-Chlorophenol	1.33	0.36	mg/Kg dry	1.78	ND	74.5	30-130			
4-Chlorophenylphenylether	1.33	0.36	mg/Kg dry	1.78	ND	74.4	40-140			
Chrysene	1.26	0.18	mg/Kg dry	1.78	ND	70.9	40-140			
Dibenz(a,h)anthracene	1.47	0.18	mg/Kg dry	1.78	ND	82.6	40-140			
Dibenzofuran	1.29	0.36	mg/Kg dry	1.78	ND	72.3	40-140			
Di-n-butylphthalate	1.31	0.36	mg/Kg dry	1.78	ND	73.5	40-140			
1,2-Dichlorobenzene	1.21	0.36	mg/Kg dry	1.78	ND	67.9	40-140			
1,3-Dichlorobenzene	1.15	0.36	mg/Kg dry	1.78	ND	64.4	40-140			
1,4-Dichlorobenzene	1.17	0.36	mg/Kg dry	1.78	ND	65.9	40-140			
3,3-Dichlorobenzidine	0.997	0.18	mg/Kg dry	1.78	ND	56.0	40-140			
2,4-Dichlorophenol	1.29	0.36	mg/Kg dry	1.78	ND	72.6	30-130			
Diethylphthalate	1.25	0.36	mg/Kg dry	1.78	ND	70.4	40-140			
2,4-Dimethylphenol	1.07	0.36	mg/Kg dry	1.78	ND	60.0	30-130			
Dimethylphthalate	1.30	0.36	mg/Kg dry	1.78	ND	73.0	40-140			
4,6-Dinitro-2-methylphenol	1.23	0.36	mg/Kg dry	1.78	ND	69.3	30-130			
2,4-Dinitrophenol	1.17	0.71	mg/Kg dry	1.78	ND	65.5	30-130			
2,4-Dinitrotoluene	1.33	0.36	mg/Kg dry	1.78	ND	74.9	40-140			
2,6-Dinitrotoluene	1.35	0.36	mg/Kg dry	1.78	ND	75.6	40-140			
Di-n-octylphthalate	1.28	0.36	mg/Kg dry	1.78	ND	72.1	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.30	0.36	mg/Kg dry	1.78	ND	73.3	40-140			
Fluoranthene	1.29	0.18	mg/Kg dry	1.78	ND	72.7	40-140			
Fluorene	1.28	0.18	mg/Kg dry	1.78	ND	71.7	40-140			
Hexachlorobenzene	1.25	0.36	mg/Kg dry	1.78	ND	70.4	40-140			
Hexachlorobutadiene	1.23	0.36	mg/Kg dry	1.78	ND	69.2	40-140			
Hexachlorocyclopentadiene	0.915	0.36	mg/Kg dry	1.78	ND	51.4	30-130			V-05
Hexachloroethane	1.18	0.36	mg/Kg dry	1.78	ND	66.2	40-140			
Indeno(1,2,3-cd)pyrene	1.38	0.18	mg/Kg dry	1.78	ND	77.7	40-140			
Isophorone	1.39	0.36	mg/Kg dry	1.78	ND	77.8	40-140			
1-Methylnaphthalene	1.41	0.18	mg/Kg dry	1.78	ND	79.3	40-140			
2-Methylnaphthalene	1.39	0.18	mg/Kg dry	1.78	ND	78.3	40-140			
2-Methylphenol	1.20	0.36	mg/Kg dry	1.78	ND	67.6	30-130			
3/4-Methylphenol	1.39	0.36	mg/Kg dry	1.78	ND	78.2	30-130			
Naphthalene	1.25	0.18	mg/Kg dry	1.78	ND	70.0	40-140			
2-Nitroaniline	1.33	0.36	mg/Kg dry	1.78	ND	74.8	40-140			
3-Nitroaniline	1.17	0.36	mg/Kg dry	1.78	ND	65.4	40-140			
4-Nitroaniline	1.29	0.36	mg/Kg dry	1.78	ND	72.2	40-140			
Nitrobenzene	1.24	0.36	mg/Kg dry	1.78	ND	69.7	40-140			
2-Nitrophenol	1.40	0.36	mg/Kg dry	1.78	ND	78.7	30-130			
4-Nitrophenol	0.997	0.71	mg/Kg dry	1.78	ND	56.0	30-130			
N-Nitrosodimethylamine	1.33	0.36	mg/Kg dry	1.78	ND	74.4	40-140			
N-Nitrosodiphenylamine	1.46	0.36	mg/Kg dry	1.78	ND	82.2	40-140			
N-Nitrosodi-n-propylamine	1.44	0.36	mg/Kg dry	1.78	ND	81.0	40-140			
Pentachloronitrobenzene	1.32	0.36	mg/Kg dry	1.78	ND	74.4	40-140			
Pentachlorophenol	1.21	0.36	mg/Kg dry	1.78	ND	67.9	30-130			
Phenanthrene	1.34	0.18	mg/Kg dry	1.78	ND	75.2	40-140			
Phenol	1.34	0.36	mg/Kg dry	1.78	ND	75.5	30-130			
Pyrene	1.25	0.18	mg/Kg dry	1.78	ND	70.2	40-140			
Pyridine	0.989	0.36	mg/Kg dry	1.78	ND	55.6	40-140			
1,2,4,5-Tetrachlorobenzene	1.25	0.36	mg/Kg dry	1.78	ND	70.2	40-140			
1,2,4-Trichlorobenzene	1.21	0.36	mg/Kg dry	1.78	ND	68.1	40-140			
2,4,5-Trichlorophenol	1.26	0.36	mg/Kg dry	1.78	ND	70.8	30-130			
2,4,6-Trichlorophenol	1.20	0.36	mg/Kg dry	1.78	ND	67.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203445 - SW-846 3546										
Matrix Spike (B203445-MS1)		Source: 18E0084-04RE1			Prepared: 05/15/18 Analyzed: 05/16/18					
Surrogate: 2-Fluorophenol	5.45		mg/Kg dry	7.12		76.5	30-130			
Surrogate: Phenol-d6	5.88		mg/Kg dry	7.12		82.5	30-130			
Surrogate: Nitrobenzene-d5	2.56		mg/Kg dry	3.56		71.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.27		mg/Kg dry	3.60		63.1	30-130			
Surrogate: 2,4,6-Tribromophenol	5.18		mg/Kg dry	7.12		72.7	30-130			
Surrogate: p-Terphenyl-d14	2.60		mg/Kg dry	3.60		72.2	30-130			
Matrix Spike Dup (B203445-MSD1)		Source: 18E0084-04RE1			Prepared: 05/15/18 Analyzed: 05/16/18					
Acenaphthene	1.32	0.18	mg/Kg dry	1.79	ND	73.7	40-140	4.23	30	
Acenaphthylene	1.24	0.18	mg/Kg dry	1.79	ND	69.6	40-140	4.11	30	
Acetophenone	1.44	0.36	mg/Kg dry	1.79	ND	80.4	40-140	2.90	30	
Aniline	0.906	0.36	mg/Kg dry	1.79	ND	50.7	40-140	4.15	30	V-05
Anthracene	1.44	0.18	mg/Kg dry	1.79	ND	80.5	40-140	6.19	30	
Benzidine	ND	0.71	mg/Kg dry	1.79	ND	*	40-140		30	MS-09, V-05
Benzo(a)anthracene	1.31	0.18	mg/Kg dry	1.79	ND	73.4	40-140	4.70	30	
Benzo(a)pyrene	1.40	0.18	mg/Kg dry	1.79	ND	78.2	40-140	4.40	30	
Benzo(b)fluoranthene	1.37	0.18	mg/Kg dry	1.79	ND	76.5	40-140	6.11	30	
Benzo(g,h,i)perylene	1.36	0.18	mg/Kg dry	1.79	ND	76.1	40-140	4.11	30	
Benzo(k)fluoranthene	1.35	0.18	mg/Kg dry	1.79	ND	75.4	40-140	4.78	30	
Benzoic Acid	1.23	1.1	mg/Kg dry	1.73	ND	71.2	40-140	5.63	30	V-06
Bis(2-chloroethoxy)methane	1.52	0.36	mg/Kg dry	1.79	ND	85.2	40-140	2.73	30	
Bis(2-chloroethyl)ether	1.43	0.36	mg/Kg dry	1.79	ND	80.2	40-140	0.785	30	V-06
Bis(2-chloroisopropyl)ether	1.68	0.36	mg/Kg dry	1.79	ND	94.0	40-140	1.72	30	V-06
Bis(2-Ethylhexyl)phthalate	1.40	0.36	mg/Kg dry	1.79	ND	78.4	40-140	4.26	30	
4-Bromophenylphenylether	1.39	0.36	mg/Kg dry	1.79	ND	77.7	40-140	8.98	30	
Butylbenzylphthalate	1.36	0.36	mg/Kg dry	1.79	ND	75.8	40-140	4.89	30	
Carbazole	1.39	0.18	mg/Kg dry	1.79	ND	77.7	40-140	6.46	30	
4-Chloroaniline	1.04	0.71	mg/Kg dry	1.79	ND	58.3	40-140	6.45	30	
4-Chloro-3-methylphenol	1.39	0.71	mg/Kg dry	1.79	ND	78.0	30-130	4.44	30	
2-Chloronaphthalene	1.16	0.36	mg/Kg dry	1.79	ND	65.0	40-140	4.09	30	
2-Chlorophenol	1.34	0.36	mg/Kg dry	1.79	ND	75.2	30-130	1.21	30	
4-Chlorophenylphenylether	1.36	0.36	mg/Kg dry	1.79	ND	76.1	40-140	2.56	30	
Chrysene	1.31	0.18	mg/Kg dry	1.79	ND	73.2	40-140	3.47	30	
Dibenz(a,h)anthracene	1.52	0.18	mg/Kg dry	1.79	ND	84.8	40-140	2.98	30	
Dibenzofuran	1.35	0.36	mg/Kg dry	1.79	ND	75.7	40-140	4.90	30	
Di-n-butylphthalate	1.40	0.36	mg/Kg dry	1.79	ND	78.5	40-140	6.86	30	
1,2-Dichlorobenzene	1.19	0.36	mg/Kg dry	1.79	ND	66.4	40-140	1.96	30	
1,3-Dichlorobenzene	1.11	0.36	mg/Kg dry	1.79	ND	62.4	40-140	2.83	30	
1,4-Dichlorobenzene	1.15	0.36	mg/Kg dry	1.79	ND	64.4	40-140	1.88	30	
3,3-Dichlorobenzidine	1.11	0.18	mg/Kg dry	1.79	ND	61.9	40-140	10.3	30	
2,4-Dichlorophenol	1.35	0.36	mg/Kg dry	1.79	ND	75.7	30-130	4.46	30	
Diethylphthalate	1.31	0.36	mg/Kg dry	1.79	ND	73.2	40-140	4.28	30	
2,4-Dimethylphenol	1.16	0.36	mg/Kg dry	1.79	ND	64.9	30-130	8.17	30	
Dimethylphthalate	1.36	0.36	mg/Kg dry	1.79	ND	76.0	40-140	4.36	30	
4,6-Dinitro-2-methylphenol	1.30	0.36	mg/Kg dry	1.79	ND	72.8	30-130	5.23	30	
2,4-Dinitrophenol	1.21	0.71	mg/Kg dry	1.79	ND	67.7	30-130	3.51	30	
2,4-Dinitrotoluene	1.43	0.36	mg/Kg dry	1.79	ND	80.2	40-140	7.16	30	
2,6-Dinitrotoluene	1.42	0.36	mg/Kg dry	1.79	ND	79.5	40-140	5.31	30	
Di-n-octylphthalate	1.35	0.36	mg/Kg dry	1.79	ND	75.4	40-140	4.83	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.41	0.36	mg/Kg dry	1.79	ND	79.0	40-140	7.87	30	
Fluoranthene	1.37	0.18	mg/Kg dry	1.79	ND	76.6	40-140	5.53	30	
Fluorene	1.32	0.18	mg/Kg dry	1.79	ND	74.1	40-140	3.68	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203445 - SW-846 3546										
Matrix Spike Dup (B203445-MSD1)		Source: 18E0084-04RE1			Prepared: 05/15/18 Analyzed: 05/16/18					
Hexachlorobenzene	1.35	0.36	mg/Kg dry	1.79	ND	75.4	40-140	7.24	30	V-05
Hexachlorobutadiene	1.25	0.36	mg/Kg dry	1.79	ND	70.1	40-140	1.68	30	
Hexachlorocyclopentadiene	0.942	0.36	mg/Kg dry	1.79	ND	52.7	30-130	2.83	30	
Hexachloroethane	1.17	0.36	mg/Kg dry	1.79	ND	65.3	40-140	1.07	30	
Indeno(1,2,3-cd)pyrene	1.40	0.18	mg/Kg dry	1.79	ND	78.2	40-140	0.869	30	
Isophorone	1.44	0.36	mg/Kg dry	1.79	ND	80.6	40-140	3.87	30	
1-Methylnaphthalene	1.48	0.18	mg/Kg dry	1.79	ND	82.9	40-140	4.74	30	
2-Methylnaphthalene	1.46	0.18	mg/Kg dry	1.79	ND	81.5	40-140	4.33	30	
2-Methylphenol	1.28	0.36	mg/Kg dry	1.79	ND	71.4	30-130	5.86	30	
3/4-Methylphenol	1.46	0.36	mg/Kg dry	1.79	ND	81.9	30-130	4.93	30	
Naphthalene	1.28	0.18	mg/Kg dry	1.79	ND	71.8	40-140	2.76	30	
2-Nitroaniline	1.44	0.36	mg/Kg dry	1.79	ND	80.4	40-140	7.60	30	
3-Nitroaniline	1.26	0.36	mg/Kg dry	1.79	ND	70.3	40-140	7.52	30	
4-Nitroaniline	1.41	0.36	mg/Kg dry	1.79	ND	78.7	40-140	8.87	30	
Nitrobenzene	1.27	0.36	mg/Kg dry	1.79	ND	71.3	40-140	2.63	30	
2-Nitrophenol	1.44	0.36	mg/Kg dry	1.79	ND	80.8	30-130	2.96	30	
4-Nitrophenol	1.13	0.71	mg/Kg dry	1.79	ND	63.0	30-130	12.1	30	
N-Nitrosodimethylamine	1.24	0.36	mg/Kg dry	1.79	ND	69.2	40-140	6.97	30	
N-Nitrosodiphenylamine	1.58	0.36	mg/Kg dry	1.79	ND	88.3	40-140	7.51	30	
N-Nitrosodi-n-propylamine	1.53	0.36	mg/Kg dry	1.79	ND	85.9	40-140	6.13	30	
Pentachloronitrobenzene	1.40	0.36	mg/Kg dry	1.79	ND	78.2	40-140	5.39	30	
Pentachlorophenol	1.23	0.36	mg/Kg dry	1.79	ND	68.9	30-130	1.88	30	
Phenanthrene	1.42	0.18	mg/Kg dry	1.79	ND	79.7	40-140	6.12	30	
Phenol	1.41	0.36	mg/Kg dry	1.79	ND	78.9	30-130	4.76	30	
Pyrene	1.28	0.18	mg/Kg dry	1.79	ND	71.6	40-140	2.31	30	
Pyridine	0.946	0.36	mg/Kg dry	1.79	ND	52.9	40-140	4.54	30	
1,2,4,5-Tetrachlorobenzene	1.30	0.36	mg/Kg dry	1.79	ND	72.9	40-140	4.08	30	
1,2,4-Trichlorobenzene	1.26	0.36	mg/Kg dry	1.79	ND	70.4	40-140	3.59	30	
2,4,5-Trichlorophenol	1.35	0.36	mg/Kg dry	1.79	ND	75.5	30-130	6.81	30	
2,4,6-Trichlorophenol	1.26	0.36	mg/Kg dry	1.79	ND	70.6	30-130	5.09	30	
Surrogate: 2-Fluorophenol	5.56		mg/Kg dry	7.15		77.8	30-130			
Surrogate: Phenol-d6	6.14		mg/Kg dry	7.15		85.9	30-130			
Surrogate: Nitrobenzene-d5	2.63		mg/Kg dry	3.57		73.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.38		mg/Kg dry	3.61		65.9	30-130			
Surrogate: 2,4,6-Tribromophenol	5.55		mg/Kg dry	7.15		77.7	30-130			
Surrogate: p-Terphenyl-d14	2.75		mg/Kg dry	3.61		76.3	30-130			

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QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202537 - SW-846 3546										
Blank (B202537-BLK1)										
Prepared: 05/03/18 Analyzed: 05/11/18										
Aroclor-1016	ND	0.019	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1221	ND	0.019	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1232	ND	0.019	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1242	ND	0.019	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1248	ND	0.019	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1254	ND	0.019	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1260	ND	0.019	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1262	ND	0.019	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1268	ND	0.019	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.019	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.157		mg/Kg wet	0.192		81.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.206		mg/Kg wet	0.192		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.156		mg/Kg wet	0.192		81.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.168		mg/Kg wet	0.192		87.2	30-150			
LCS (B202537-BS1)										
Prepared: 05/03/18 Analyzed: 05/11/18										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.198		90.3	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.198		93.8	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.198		83.8	40-140			
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.198		97.2	40-140			
Surrogate: Decachlorobiphenyl	0.170		mg/Kg wet	0.198		85.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.228		mg/Kg wet	0.198		115	30-150			
Surrogate: Tetrachloro-m-xylene	0.172		mg/Kg wet	0.198		86.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.185		mg/Kg wet	0.198		93.4	30-150			
LCS Dup (B202537-BSD1)										
Prepared: 05/03/18 Analyzed: 05/11/18										
Aroclor-1016	0.19	0.019	mg/Kg wet	0.192		99.3	40-140	9.45	30	
Aroclor-1016 [2C]	0.19	0.019	mg/Kg wet	0.192		101	40-140	7.43	30	
Aroclor-1260	0.18	0.019	mg/Kg wet	0.192		92.1	40-140	9.46	30	
Aroclor-1260 [2C]	0.20	0.019	mg/Kg wet	0.192		104	40-140	6.78	30	
Surrogate: Decachlorobiphenyl	0.174		mg/Kg wet	0.192		90.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.231		mg/Kg wet	0.192		120	30-150			
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg wet	0.192		90.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.190		mg/Kg wet	0.192		98.8	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202571 - SW-846 3546
Blank (B202571-BLK1)

Prepared: 05/04/18 Analyzed: 05/07/18

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	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.222		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg wet	0.200		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.208		mg/Kg wet	0.200		104	30-150			

LCS (B202571-BS1)

Prepared: 05/04/18 Analyzed: 05/07/18

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.0	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		94.8	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		92.2	40-140			
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		97.1	40-140			
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.216		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene	0.160		mg/Kg wet	0.200		80.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.172		mg/Kg wet	0.200		85.8	30-150			

LCS Dup (B202571-BSD1)

Prepared: 05/04/18 Analyzed: 05/07/18

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.1	40-140	0.106	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.7	40-140	4.03	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		91.0	40-140	1.42	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		95.9	40-140	1.25	30	
Surrogate: Decachlorobiphenyl	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.215		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.193		mg/Kg wet	0.200		96.4	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202647 - SW-846 3510C
Blank (B202647-BLK1)

Prepared: 05/06/18 Analyzed: 05/11/18

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.13		µg/L	2.00		56.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.14		µg/L	2.00		57.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.70		µg/L	2.00		85.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.37		µg/L	2.00		68.7	30-150			

LCS (B202647-BS1)

Prepared: 05/06/18 Analyzed: 05/11/18

Aroclor-1016	0.47	0.20	µg/L	0.500		94.2	40-140			
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.1	40-140			
Aroclor-1260	0.44	0.20	µg/L	0.500		88.3	40-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.8	40-140			
Surrogate: Decachlorobiphenyl	1.98		µg/L	2.00		98.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.02		µg/L	2.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	1.82		µg/L	2.00		91.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.48		µg/L	2.00		74.0	30-150			

LCS Dup (B202647-BSD1)

Prepared: 05/06/18 Analyzed: 05/11/18

Aroclor-1016	0.48	0.20	µg/L	0.500		96.6	40-140	2.54	20	
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		93.0	40-140	3.16	20	
Aroclor-1260	0.44	0.20	µg/L	0.500		88.0	40-140	0.286	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.9	40-140	0.156	20	
Surrogate: Decachlorobiphenyl	1.94		µg/L	2.00		97.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.98		µg/L	2.00		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.77		µg/L	2.00		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.44		µg/L	2.00		72.1	30-150			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203074 - SW-846 7470A Prep
Blank (B203074-BLK1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	ND	0.00010	mg/L							
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LCS (B203074-BS1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	0.00196	0.00010	mg/L	0.00200		98.2	80-120			
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LCS Dup (B203074-BSD1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	0.00191	0.00010	mg/L	0.00200		95.3	80-120	2.98	20	
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Batch B203317 - SW-846 3050B
Blank (B203317-BLK1)

Prepared: 05/14/18 Analyzed: 05/15/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Calcium	4.0	5.0	mg/Kg wet							J
Chromium	ND	0.33	mg/Kg wet							
Cobalt	ND	1.7	mg/Kg wet							
Copper	1.1	0.33	mg/Kg wet							B-07
Lead	ND	0.50	mg/Kg wet							
Magnesium	ND	5.0	mg/Kg wet							
Manganese	ND	0.33	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Sodium	ND	67	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	0.89	0.67	mg/Kg wet							B-07

LCS (B203317-BS1)

Prepared: 05/14/18 Analyzed: 05/15/18

Antimony	73.6	4.8	mg/Kg wet	65.1		113	3.8-212			
Arsenic	141	4.8	mg/Kg wet	147		95.9	83-117			
Barium	333	4.8	mg/Kg wet	314		106	82.2-117.8			
Beryllium	58.6	0.48	mg/Kg wet	53.4		110	82.8-117.2			
Cadmium	204	0.48	mg/Kg wet	193		106	82.4-117.6			
Calcium	4350	14	mg/Kg wet	4580		94.9	80.8-119			
Chromium	79.9	0.95	mg/Kg wet	82.6		96.8	81.8-118.2			
Cobalt	88.0	4.8	mg/Kg wet	81.3		108	83.4-116.6			
Copper	176	0.95	mg/Kg wet	171		103	83.6-116.4			B
Lead	83.7	1.4	mg/Kg wet	92.3		90.6	82.8-117			
Magnesium	2020	14	mg/Kg wet	2240		90.2	75.4-125			
Manganese	206	0.95	mg/Kg wet	222		92.9	82-118			
Nickel	147	0.95	mg/Kg wet	137		107	82.5-118.2			
Selenium	192	9.5	mg/Kg wet	187		103	79.1-121.4			
Sodium	234	190	mg/Kg wet	216		109	72.2-127.8			
Thallium	160	4.8	mg/Kg wet	153		105	81-119			
Vanadium	94.7	1.9	mg/Kg wet	86.6		109	77.6-122.4			
Zinc	201	1.9	mg/Kg wet	189		106	79.9-120.1			B

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203317 - SW-846 3050B										
LCS Dup (B203317-BSD1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Antimony	79.3	5.0	mg/Kg wet	65.1		122	3.8-212	7.51	30	
Arsenic	137	5.0	mg/Kg wet	147		93.3	83-117	2.72	30	
Barium	305	5.0	mg/Kg wet	314		97.2	82.2-117.8	8.74	30	
Beryllium	56.3	0.50	mg/Kg wet	53.4		106	82.8-117.2	3.87	30	
Cadmium	198	0.50	mg/Kg wet	193		103	82.4-117.6	2.83	30	
Calcium	4240	15	mg/Kg wet	4580		92.6	80.8-119	2.43	30	
Chromium	76.0	1.0	mg/Kg wet	82.6		92.0	81.8-118.2	5.10	30	
Cobalt	86.3	5.0	mg/Kg wet	81.3		106	83.4-116.6	1.93	30	
Copper	169	1.0	mg/Kg wet	171		98.6	83.6-116.4	4.42	30	B
Lead	81.7	1.5	mg/Kg wet	92.3		88.5	82.8-117	2.32	30	
Magnesium	1900	15	mg/Kg wet	2240		85.0	75.4-125	5.94	30	
Manganese	192	1.0	mg/Kg wet	222		86.5	82-118	7.16	30	
Nickel	144	1.0	mg/Kg wet	137		105	82.5-118.2	2.10	30	
Selenium	185	10	mg/Kg wet	187		98.7	79.1-121.4	4.06	30	
Sodium	238	200	mg/Kg wet	216		110	72.2-127.8	1.64	30	
Thallium	154	5.0	mg/Kg wet	153		101	81-119	3.97	30	
Vanadium	94.0	2.0	mg/Kg wet	86.6		109	77.6-122.4	0.663	30	
Zinc	197	2.0	mg/Kg wet	189		104	79.9-120.1	2.29	30	B
MRL Check (B203317-MRL1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Lead	0.538	0.51	mg/Kg wet	0.508		106	80-120			
Batch B203320 - SW-846 7471										
Blank (B203320-BLK1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Mercury	ND	0.025	mg/Kg wet							
LCS (B203320-BS1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Mercury	8.58	1.9	mg/Kg wet	9.36		91.7	73.7-126.3			
LCS Dup (B203320-BSD1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Mercury	8.80	1.9	mg/Kg wet	9.36		94.0	73.7-126.3	2.51	30	
Batch B203329 - SW-846 3005A										
Blank (B203329-BLK1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.15	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.050	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.15	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203329 - SW-846 3005A
Blank (B203329-BLK1)

Prepared: 05/14/18 Analyzed: 05/15/18

Sodium	0.34	2.0	mg/L							J
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.020	mg/L							

LCS (B203329-BS1)

Prepared: 05/14/18 Analyzed: 05/15/18

Aluminum	0.520	0.050	mg/L	0.500		104	80-120			
Antimony	0.555	0.050	mg/L	0.500		111	80-120			
Arsenic	0.542	0.010	mg/L	0.500		108	80-120			
Barium	0.552	0.050	mg/L	0.500		110	80-120			
Beryllium	0.551	0.0040	mg/L	0.500		110	80-120			
Cadmium	0.561	0.0040	mg/L	0.500		112	80-120			
Calcium	4.40	0.15	mg/L	4.00		110	80-120			
Chromium	0.550	0.010	mg/L	0.500		110	80-120			
Cobalt	0.552	0.050	mg/L	0.500		110	80-120			
Copper	1.04	0.010	mg/L	1.00		104	80-120			
Iron	4.36	0.050	mg/L	4.00		109	80-120			
Lead	0.544	0.010	mg/L	0.500		109	80-120			
Magnesium	4.37	0.15	mg/L	4.00		109	80-120			
Manganese	0.532	0.010	mg/L	0.500		106	80-120			
Nickel	0.555	0.010	mg/L	0.500		111	80-120			
Potassium	4.30	2.0	mg/L	4.00		108	80-120			
Selenium	0.561	0.050	mg/L	0.500		112	80-120			
Silver	0.547	0.0050	mg/L	0.500		109	80-120			
Sodium	4.71	2.0	mg/L	4.00		118	80-120			
Thallium	0.532	0.050	mg/L	0.500		106	80-120			
Vanadium	0.540	0.010	mg/L	0.500		108	80-120			
Zinc	1.12	0.020	mg/L	1.00		112	80-120			

LCS Dup (B203329-BS1)

Prepared: 05/14/18 Analyzed: 05/15/18

Aluminum	0.499	0.050	mg/L	0.500		99.8	80-120	4.15	20	
Antimony	0.553	0.050	mg/L	0.500		111	80-120	0.418	20	
Arsenic	0.535	0.010	mg/L	0.500		107	80-120	1.39	20	
Barium	0.544	0.050	mg/L	0.500		109	80-120	1.43	20	
Beryllium	0.545	0.0040	mg/L	0.500		109	80-120	1.07	20	
Cadmium	0.552	0.0040	mg/L	0.500		110	80-120	1.66	20	
Calcium	4.36	0.15	mg/L	4.00		109	80-120	0.857	20	
Chromium	0.540	0.010	mg/L	0.500		108	80-120	1.79	20	
Cobalt	0.544	0.050	mg/L	0.500		109	80-120	1.32	20	
Copper	1.03	0.010	mg/L	1.00		103	80-120	1.46	20	
Iron	4.32	0.050	mg/L	4.00		108	80-120	0.900	20	
Lead	0.538	0.010	mg/L	0.500		108	80-120	1.11	20	
Magnesium	4.32	0.15	mg/L	4.00		108	80-120	1.21	20	
Manganese	0.526	0.010	mg/L	0.500		105	80-120	1.18	20	
Nickel	0.546	0.010	mg/L	0.500		109	80-120	1.72	20	
Potassium	4.30	2.0	mg/L	4.00		107	80-120	0.178	20	
Selenium	0.554	0.050	mg/L	0.500		111	80-120	1.20	20	
Silver	0.538	0.0050	mg/L	0.500		108	80-120	1.77	20	
Sodium	4.61	2.0	mg/L	4.00		115	80-120	2.05	20	
Thallium	0.524	0.050	mg/L	0.500		105	80-120	1.33	20	
Vanadium	0.533	0.010	mg/L	0.500		107	80-120	1.46	20	
Zinc	1.10	0.020	mg/L	1.00		110	80-120	1.54	20	

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203376 - SW-846 3050B
Blank (B203376-BLK1)

Prepared: 05/15/18 Analyzed: 05/16/18

Aluminum	ND	1.7	mg/Kg wet							
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Calcium	5.0	5.0	mg/Kg wet							J
Chromium	ND	0.33	mg/Kg wet							
Cobalt	ND	1.7	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Iron	ND	1.7	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Magnesium	ND	5.0	mg/Kg wet							
Manganese	ND	0.33	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Potassium	ND	67	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Sodium	ND	67	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	0.50	0.67	mg/Kg wet							J

LCS (B203376-BS1)

Prepared: 05/15/18 Analyzed: 05/16/18

Aluminum	7250	5.0	mg/Kg wet	8000		90.6	47.4-152.5			
Antimony	64.0	5.0	mg/Kg wet	65.1		98.2	3.8-212			
Arsenic	166	5.0	mg/Kg wet	147		113	83-117			
Barium	332	5.0	mg/Kg wet	314		106	82.2-117.8			
Beryllium	59.9	0.50	mg/Kg wet	53.4		112	82.8-117.2			
Cadmium	206	0.50	mg/Kg wet	193		107	82.4-117.6			
Calcium	4420	15	mg/Kg wet	4580		96.5	80.8-119			
Chromium	85.7	0.99	mg/Kg wet	82.6		104	81.8-118.2			
Cobalt	88.2	5.0	mg/Kg wet	81.3		109	83.4-116.6			
Copper	184	0.99	mg/Kg wet	171		108	83.6-116.4			
Iron	12200	5.0	mg/Kg wet	14100		86.8	60.4-139.7			
Lead	98.2	1.5	mg/Kg wet	92.3		106	82.8-117			
Magnesium	2150	15	mg/Kg wet	2240		95.9	75.4-125			
Manganese	209	0.99	mg/Kg wet	222		94.0	82-118			
Nickel	147	0.99	mg/Kg wet	137		107	82.5-118.2			
Potassium	2160	200	mg/Kg wet	2000		108	69.5-130.5			
Selenium	204	9.9	mg/Kg wet	187		109	79.1-121.4			
Silver	41.9	0.99	mg/Kg wet	40.7		103	79.6-120.4			
Sodium	241	200	mg/Kg wet	216		112	72.2-127.8			
Thallium	168	5.0	mg/Kg wet	153		110	81-119			
Vanadium	89.6	2.0	mg/Kg wet	86.6		103	77.6-122.4			
Zinc	213	2.0	mg/Kg wet	189		113	79.9-120.1			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203376 - SW-846 3050B
LCS Dup (B203376-BSD1)

Prepared: 05/15/18 Analyzed: 05/16/18

Aluminum	7300	5.0	mg/Kg wet	8000		91.3	47.4-152.5	0.696	30	
Antimony	61.6	5.0	mg/Kg wet	65.1		94.6	3.8-212	3.77	30	
Arsenic	158	5.0	mg/Kg wet	147		107	83-117	4.89	30	
Barium	319	5.0	mg/Kg wet	314		102	82.2-117.8	4.10	30	
Beryllium	58.5	0.50	mg/Kg wet	53.4		110	82.8-117.2	2.41	30	
Cadmium	201	0.50	mg/Kg wet	193		104	82.4-117.6	2.61	30	
Calcium	4310	15	mg/Kg wet	4580		94.1	80.8-119	2.54	30	
Chromium	84.2	1.0	mg/Kg wet	82.6		102	81.8-118.2	1.74	30	
Cobalt	86.8	5.0	mg/Kg wet	81.3		107	83.4-116.6	1.66	30	
Copper	182	1.0	mg/Kg wet	171		106	83.6-116.4	1.28	30	
Iron	12600	5.0	mg/Kg wet	14100		89.6	60.4-139.7	3.12	30	
Lead	93.9	1.5	mg/Kg wet	92.3		102	82.8-117	4.53	30	
Magnesium	2150	15	mg/Kg wet	2240		96.1	75.4-125	0.139	30	
Manganese	202	1.0	mg/Kg wet	222		90.8	82-118	3.51	30	
Nickel	144	1.0	mg/Kg wet	137		105	82.5-118.2	1.86	30	
Potassium	2180	200	mg/Kg wet	2000		109	69.5-130.5	0.903	30	
Selenium	201	10	mg/Kg wet	187		107	79.1-121.4	1.32	30	
Silver	40.5	1.0	mg/Kg wet	40.7		99.6	79.6-120.4	3.28	30	
Sodium	238	200	mg/Kg wet	216		110	72.2-127.8	1.27	30	
Thallium	164	5.0	mg/Kg wet	153		107	81-119	2.34	30	
Vanadium	89.2	2.0	mg/Kg wet	86.6		103	77.6-122.4	0.468	30	
Zinc	209	2.0	mg/Kg wet	189		111	79.9-120.1	1.84	30	

Batch B203422 - SW-846 3050B
Blank (B203422-BLK1)

Prepared: 05/14/18 Analyzed: 05/15/18

Aluminum	ND	2.5	mg/Kg wet							
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LCS (B203422-BS1)

Prepared: 05/14/18 Analyzed: 05/15/18

Aluminum	6850	4.8	mg/Kg wet	8000		85.6	47.4-152.5			
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LCS Dup (B203422-BSD1)

Prepared: 05/14/18 Analyzed: 05/15/18

Aluminum	6420	5.0	mg/Kg wet	8000		80.2	47.4-152.5	6.54	30	
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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202758 - SW-846 9014										
Blank (B202758-BLK1)				Prepared: 05/07/18 Analyzed: 05/08/18						
Cyanide	ND	0.010	mg/L							
LCS (B202758-BS1)				Prepared: 05/07/18 Analyzed: 05/08/18						
Cyanide	0.69	0.020	mg/L	0.684		101	80-120			
LCS Dup (B202758-BSD1)				Prepared: 05/07/18 Analyzed: 05/08/18						
Cyanide	0.67	0.020	mg/L	0.684		97.3	80-120	3.55	20	
Batch B202903 - % Solids										
Duplicate (B202903-DUP1)		Source: 18E0084-13		Prepared: 05/09/18 Analyzed: 05/10/18						
% Solids	89.2		% Wt		87.0			2.52	20	
Batch B202969 - SW-846 9014										
Blank (B202969-BLK1)				Prepared: 05/09/18 Analyzed: 05/10/18						
Cyanide	ND	0.46	mg/Kg wet							
LCS (B202969-BS1)				Prepared: 05/09/18 Analyzed: 05/10/18						
Cyanide	56	2.4	mg/Kg wet	60.9		91.3	80-120			
LCS Dup (B202969-BSD1)				Prepared: 05/09/18 Analyzed: 05/10/18						
Cyanide	53	2.3	mg/Kg wet	60.0		88.8	80-120	4.22	20	
Matrix Spike (B202969-MS2)		Source: 18E0084-11		Prepared: 05/09/18 Analyzed: 05/10/18						
Cyanide	15	0.46	mg/Kg dry	15.2	0.38	97.1	75-125			
Matrix Spike Dup (B202969-MSD2)		Source: 18E0084-11		Prepared: 05/09/18 Analyzed: 05/10/18						
Cyanide	15	0.46	mg/Kg dry	15.2	0.38	94.7	75-125	2.15	35	
Batch B203070 - % Solids										
Duplicate (B203070-DUP1)		Source: 18E0084-05		Prepared: 05/10/18 Analyzed: 05/11/18						
% Solids	93.4		% Wt		93.6			0.225	20	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B202537-BS1 Date(s) Analyzed: 05/11/2018 05/11/2018
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.19	5.4
Aroclor-1260	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.19	11.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B202537-BSD1 Date(s) Analyzed: 05/11/2018 05/11/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.19	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.20	10.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***LCS**

Lab Sample ID: B202571-BS1 Date(s) Analyzed: 05/07/2018 05/07/2018
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.19	5.4
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.19	5.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***LCS Dup**

Lab Sample ID: B202571-BSD1 Date(s) Analyzed: 05/07/2018 05/07/2018
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.20	10.5
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.19	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B202647-BS1 Date(s) Analyzed: 05/11/2018 05/11/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.47	
	2	0.000	0.000	0.000	0.45	4.4
Aroclor-1260	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.45	2.3

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***LCS Dup**

Lab Sample ID: B202647-BSD1 Date(s) Analyzed: 05/11/2018 05/11/2018
Instrument ID (1): ECD4 Instrument ID (2): ECD4
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.47	2.1
Aroclor-1260	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.45	2.3

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-07	Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
E	Reported result is estimated. Value reported over verified calibration range.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-06	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PR-15	According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
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 did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
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.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C-D in Soil</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 6010C-D in Water</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7470A in Water</i>	

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA
<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,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME,VA
Acetone	CT,NH,NY,ME,VA
Acetone	CT,NH,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Acrylonitrile	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,VA
Benzene	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,VA
Bromobenzene	NH,NY,VA
Bromobenzene	NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromochloromethane	NH,NY,VA
Bromochloromethane	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,VA
Bromoform	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY
n-Butylbenzene	CT,NH,NY,VA
n-Butylbenzene	CT,NH,NY,ME,VA
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Chloroethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,VA
Chloroform	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,VA
Chloromethane	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME,VA
Dibromomethane	NH,NY,VA
Dibromomethane	NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,VA
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NY,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,VA
1,1-Dichloropropene	NH,NY,VA
1,1-Dichloropropene	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,VA
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,VA
Hexachlorobutadiene	NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
Methylene Chloride	CT,NH,NY,VA
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
Naphthalene	NH,NY,ME,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Naphthalene	NH,NY,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME,VA
Styrene	CT,NH,NY,ME,VA
Styrene	CT,NH,NY,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,VA
Toluene	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
1,2,4-Trichlorobenzene	NH,NY,VA
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,VA
Vinyl Chloride	CT,NH,NY,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Vinyl Chloride	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,VA
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,VA
o-Xylene	CT,NH,NY,ME,VA
<i>SW-846 8260C in Water</i>	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	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 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
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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine (as Azobenzene)	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
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-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
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
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA
SW-846 9014 in Water	
Cyanide	NY,CT,NH,NC,ME,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



18E0084

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Company Name: **EA Engineering**
Address: 6712 Brooklawn Pkwy, Ste. 104, Syracuse, NY 13211
Phone: 315-565-6565
Project Name: **Admiral Cleaners**
Project Location: **Watervliet, NY**
Project Number: **1490738**
Project Manager: **Chris Schroer**
Con-Test Quote Name/Number: **CSCHROER@eaest.com**
Invoice Recipient: **CSCHROER@eaest.com**
Sampled By: **Stephen Soldner, Justin Marra**

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 2

Requested Turnaround Time		ANALYSIS REQUESTED										Preservation Codes:	
7-Day	10-Day	1	2	2	2	2	2	2	2	2	2	1 = Iced	
Due Date:		VOC (8260B)	SVOC (8270C)	PCBs (8082)	TAL Metals (6010B)	Mercury (7471B)	Cyanide (9012B)	Percent Moisture				2 = Iced	
1-Day	3-Day											1 = Iced	
2-Day	4-Day											2 = Iced	
Format: PDF ☒ EXCEL ☐												H = HCL	
Other: Full Cat B												M = Methanol	
CLP Like Data Pkg Required: ☐												N = Nitric Acid	
Email To: CSCHROER@eaest.com												S = Sulfuric Acid	
Fax To #:												B = Sodium Bisulfate	
												X = Sodium Hydroxide	
												T = Sodium	
												Thiosulfate	
												O = Other (please define)	
												3 Container Codes:	
												A = Amber Glass	
												G = Glass	
												P = Plastic	
												ST = Sterile	
												V = Vial	
												S = Summa Canister	
												T = Tedlar Bag	
												O = Other (please define)	

Comments: Two 8 oz. amber jars for all analytes aside from VOC (one 4 oz amber jar) ALL VOC Samples, etc
USE 401075-SB-08-5-9.5 (MS/MID) for MS/MID - VOC ONLY 6.16 Sample
401075-SB-05-5-10 (MS/MID) for MS/MID
Only 2 VOCs for TRIPLE L

Relinquished by: (signature) Stephen Soldner - EA
Received by: (signature)
Relinquished by: (signature)
Received by: (signature)
Relinquished by: (signature)
Received by: (signature)

Date/Time: 5/1/18 17:30
Date/Time: 5/1/18 17:30
Date/Time: 5/1/18 17:00
Date/Time: 5/1/18 17:00
Date/Time:

Project Entity: ☒ Government ☐ Municipality ☐ MWRA ☐ WRTA ☐ Other ☐ Chromatogram ☐ AIHA-LAP, LLC

NY DEC Part 375: ☐ AWQ STDS ☐ NYC Sewer Discharge ☐ Part 360 GW (Landfill) ☐ NY Restricted Use ☐ NY Unrestricted Use ☐ NY Part 375

NY DEC Part 375: ☐ AWQ STDS ☐ NYC Sewer Discharge ☐ Part 360 GW (Landfill) ☐ NY Restricted Use ☐ NY Unrestricted Use ☐ NY Part 375

PCB ONLY: ☐ Soxhlet ☐ Non Soxhlet



FedEx® Tracking

772139551900

Ship date:
Wed 5/02/2018

ALBANY, NY US

✓

Delivered
Signed for by: RPETRAITIS

Actual delivery:
Thu 5/03/2018 12:55 pm

EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
5/03/2018 - Thursday		
12:55 pm	Delivered	East Longmeadow, MA
6:45 am	On FedEx vehicle for delivery	CHICOPEE, MA
6:01 am	At local FedEx facility	CHICOPEE, MA
3:07 am	Left FedEx origin facility	RENSSELAER, NY
5/02/2018 - Wednesday		
8:22 pm	Arrived at FedEx location	RENSSELAER, NY
6:37 pm	Picked up	RENSSELAER, NY
5:22 pm	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	772139551900	Service	FedEx Ground
Reference	85	Weight	42 lbs / 19.05 kgs
Dimensions	25x14x13 in.	Total pieces	1
Terms	Recipient	Packaging	Package
Standard transit	5/03/2018		

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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 EA EngineeringReceived By SEDate 5/3/18Time 17:00
 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 # 577 Actual Temp - 3.1, 3.7By Blank # Actual Temp - Was Custody Seal Intact? N/A Were Samples Tampered with? N/AWas COC Relinquished? T Does Chain Agree With Samples? TAre there broken/leaking/loose caps on any samples? FIs COC in ink/ Legible? T Were samples received within holding time? TDid COC include all Client T Analysis T Sampler Name Tpertinent Information? Project T ID's T Collection Dates/Times TAre Sample labels filled out and legible? TAre 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? TIs there Headspace where applicable? F MS/MSD? F T SE 5/3/18Proper Media/Containers Used? T Is splitting samples required? FWere trip blanks received? T On COC? TDo all samples have the proper pH? T Acid pH < 2 Base pH > 12

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	<u>17</u>	500 mL Amb.		500 mL Plastic		8oz Amb /Clear	<u>18</u>
Meoh-		250 mL Amb.		250 mL Plastic	<u>2</u>	4oz Amb /Clear	<u>13</u>
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		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:

May 17, 2018

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

Project Location: Watervliet, NY
Client Job Number:
Project Number: 1490378.0003
Laboratory Work Order Number: 18E0198

Enclosed are results of analyses for samples received by the laboratory on May 3, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a long horizontal line extending to the right.

Aaron L. Benoit
Project Manager

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

REPORT DATE: 5/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490378.0003

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18E0198

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

PROJECT LOCATION: Watervliet, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
401075-SB-07-3-6	18E0198-01	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-15-6-7.5	18E0198-02	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-06-6-9	18E0198-03	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-06-GW-GRAB	18E0198-04	Product/Solid		SW-846 8015C SW-846 8260C	
401075-SB-02-3-6	18E0198-05	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-FD-01	18E0198-06	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8270D SW-846 9014	
401075-SB-02-GW-GRAB	18E0198-07	Ground Water		SW-846 8260C	
401075-SB-FD-GW-01	18E0198-08	Ground Water		SW-846 8260C	

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

REPORT DATE: 5/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490378.0003

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18E0198

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

PROJECT LOCATION: Watervliet, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
401075-MW-01-3-6	18E0198-09	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-FD-01	18E0198-10	Soil		SM 2540G SW-846 8260C	
401075-MW-01-8-8.5	18E0198-11	Soil		SM 2540G SW-846 8260C	
401075-MW-06-5-7	18E0198-12	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-MW-06-7	18E0198-13	Soil		SM 2540G SW-846 8260C	
401075-SB-14-9-11	18E0198-14	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-14-GW-GRAB	18E0198-15	Ground Water		SW-846 8260C	
401075-FD-01-PEST	18E0198-16	Soil		SM 2540G SW-846 8081B	
401075-RB-5-2-2018	18E0198-17	Field Blank		SW-846 6010C-D SW-846 7470A SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
Trip Blank	18E0198-18	Trip Blank Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

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

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SW-846 6010C-D

Qualifications:**B**

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

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

18E0198-01RE1[401075-SB-07-3-6], B203510-BS1, B203510-BSD1, B203510-MS1, B203510-MSD1

B-07

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

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

B203510-BLK1

DL-04

Elevated reporting limit due to high concentration of an interfering analyte(s).

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

18E0198-02[401075-SB-15-6-7.5], 18E0198-03[401075-SB-06-6-9], 18E0198-05[401075-SB-02-3-6], 18E0198-06[401075-SB-FD-01], 18E0198-09[401075-MW-01-3-6], 18E0198-12[401075-MW-06-5-7], 18E0198-14[401075-SB-14-9-11]

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:**Arsenic**

B203412-BSD1

Calcium

B203510-MSD1

Iron

B203510-BSD1

Magnesium

B203510-BSD1

Potassium

B203510-BSD1

L-07A

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

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

18E0198-01RE1[401075-SB-07-3-6], B203510-BSD1

MS-07A

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

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

18E0198-01RE1[401075-SB-07-3-6], B203510-MS1, B203510-MSD1

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MS-19

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

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

18E0198-01RE1[401075-SB-07-3-6], B203510-MS1, B203510-MSD1

Barium

18E0198-01RE1[401075-SB-07-3-6], B203510-MS1, B203510-MSD1

Calcium

18E0198-01RE1[401075-SB-07-3-6], B203510-MS1

Iron

18E0198-01RE1[401075-SB-07-3-6], B203510-MS1, B203510-MSD1

Magnesium

18E0198-01RE1[401075-SB-07-3-6], B203510-MS1, B203510-MSD1

Manganese

18E0198-01RE1[401075-SB-07-3-6], B203510-MS1, B203510-MSD1

Potassium

18E0198-01RE1[401075-SB-07-3-6], B203510-MS1, B203510-MSD1

MS-22

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

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

B203510-MSD1

Lead

B203510-MSD1

SW-846 8015C

Qualifications:

Z-01

Chromatogram most closely matches a mix of #2 fuel oil and mineral spirits.

Analyte & Samples(s) Qualified:**TPH (C9-C36)**

18E0198-04[401075-SB-06-GW-GRAB]

SW-846 8081B

Qualifications:

P-02

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:**4,4'-DDE**

18E0198-16[401075-FD-01-PEST]

SW-846 8260C

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:**cis-1,2-Dichloroethylene**

18E0198-05[401075-SB-02-3-6]

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L-02

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

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

B202661-BS1, B202661-BSD1

Bromochloromethane

B202587-BS1, B202587-BSD1, S023182-CCV1

Carbon TetrachlorideB202587-BS1, B202587-BSD1, S023182-CCV1

L-04

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

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

18E0198-04[401075-SB-06-GW-GRAB], B202827-BLK1, B202827-BS1, B202827-BSD1

Chloromethane

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-04[401075-SB-06-GW-GRAB], 18E0198-05[401075-SB-02-3-6], 18E0198-09[401075-MW-01-3-6], 18E0198-10[401075-FD-01], 18E0198-11[401075-MW-01-8-8.5], 18E0198-12[401075-MW-06-5-7], B202661-BLK1, B202661-BS1, B202661-BSD1, B202661-MS1, B202661-MSD1, B202806-BLK1, B202806-BS1, B202806-BSD1, B202827-BLK1, B202827-BS1, B202827-BSD1

Dichlorodifluoromethane (Freon 1:

18E0198-04[401075-SB-06-GW-GRAB], B202827-BLK1, B202827-BS1, B202827-BSD1

Methyl Acetate

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-05[401075-SB-02-3-6], 18E0198-07[401075-SB-02-GW-GRAB], 18E0198-08[401075-SB-FD-GW-01], 18E0198-09[401075-MW-01-3-6], 18E0198-10[401075-FD-01], 18E0198-11[401075-MW-01-8-8.5], 18E0198-12[401075-MW-06-5-7], 18E0198-15[401075-SB-14-GW-GRAB], 18E0198-17[401075-RB-5-2-2018], 18E0198-18[Trip Blank], B202661-BLK1, B202661-BS1, B202661-BSD1, B202661-MS1, B202661-MSD1, B202806-BLK1, B202806-BS1, B202806-BSD1, B203365-BLK1, B203365-BS1, B203365-BSD1, S023207-CCV1

L-06

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

Analyte & Samples(s) Qualified:**Tetrachloroethylene**18E0198-03[401075-SB-06-6-9], 18E0198-13[401075-MW-06-7], 18E0198-14[401075-SB-14-9-11], B202587-BS1, B202587-BSD1, S023182-CCV1

L-07

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

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

B202587-BS1

1,2,3-Trichloropropane

B202806-BS1

Bromoform

B202806-BS1

Carbon Disulfide

B202587-BS1

Dichlorodifluoromethane (Freon 1:

B203365-BSD1

TrichloroethyleneB202587-BS1

MS-07A

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

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

18E0198-01[401075-SB-07-3-6], B202661-MS1, B202661-MSD1

cis-1,2-Dichloroethylene

18E0198-01[401075-SB-07-3-6], B202661-MS1, B202661-MSD1

Dichlorodifluoromethane (Freon 1:

18E0198-01[401075-SB-07-3-6], B202661-MS1, B202661-MSD1

sec-Butylbenzene

18E0198-01[401075-SB-07-3-6], B202661-MS1, B202661-MSD1

Vinyl Chloride

18E0198-01[401075-SB-07-3-6], B202661-MS1, B202661-MSD1

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MS-09

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

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

18E0198-01[401075-SB-07-3-6], B202661-MS1, B202661-MSD1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

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

B202661-MSD1

MS-24

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

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

B202661-MSD1

Chloroethane

B202661-MSD1

Diisopropyl Ether (DIPE)

B202661-MSD1

p-Isopropyltoluene (p-Cymene)

B202661-MSD1

tert-Butylbenzene

B202661-MSD1

PR-07

pH of sample (pH 4) is outside of method specified preservation criteria.

Analyte & Samples(s) Qualified:

18E0198-08[401075-SB-FD-GW-01], 18E0198-15[401075-SB-14-GW-GRAB]

PR-15

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

Analyte & Samples(s) Qualified:

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-05[401075-SB-02-3-6], 18E0198-09[401075-MW-01-3-6], 18E0198-10[401075-FD-01], 18E0198-11[401075-MW-01-8-8.5], 18E0198-12[401075-MW-06-5-7]

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:**Methyl Acetate**

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-05[401075-SB-02-3-6], 18E0198-09[401075-MW-01-3-6], 18E0198-10[401075-FD-01], 18E0198-11[401075-MW-01-8-8.5], B202661-BLK1, B202661-BS1, B202661-BSD1

Methylene Chloride

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-05[401075-SB-02-3-6], 18E0198-09[401075-MW-01-3-6], 18E0198-10[401075-FD-01], 18E0198-11[401075-MW-01-8-8.5], B202661-BLK1, B202661-BS1, B202661-BSD1

R-06

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

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

B202661-MS1, B202661-MSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

18E0198-03[401075-SB-06-6-9], 18E0198-04[401075-SB-06-GW-GRAB], 18E0198-07[401075-SB-02-GW-GRAB], 18E0198-08[401075-SB-FD-GW-01], 18E0198-14[401075-SB-14-9-11], 18E0198-15[401075-SB-14-GW-GRAB]

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V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

18E0198-07[401075-SB-02-GW-GRAB], 18E0198-08[401075-SB-FD-GW-01], 18E0198-15[401075-SB-14-GW-GRAB], 18E0198-17[401075-RB-5-2-2018], 18E0198-18[Trip Blank], B203365-BLK1, B203365-BS1, B203365-BSD1, S023207-CCV1

2,2-Dichloropropane

18E0198-04[401075-SB-06-GW-GRAB], B202827-BLK1, B202827-BS1, B202827-BSD1, S023243-CCV1

Carbon Disulfide

18E0198-03[401075-SB-06-6-9], 18E0198-13[401075-MW-06-7], 18E0198-14[401075-SB-14-9-11], B202587-BLK1, B202587-BS1, B202587-BSD1, S023182-CCV1

Chloromethane

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-03[401075-SB-06-6-9], 18E0198-05[401075-SB-02-3-6], 18E0198-09[401075-MW-01-3-6], 18E0198-10[401075-FD-01], 18E0198-11[401075-MW-01-8-8.5], 18E0198-12[401075-MW-06-5-7], 18E0198-13[401075-MW-06-7], 18E0198-14[401075-SB-14-9-11], B202587-BLK1, B202587-BS1, B202587-BSD1, B202661-BLK1, B202661-BS1, B202661-BSD1, B202661-MS1, B202661-MSD1, B202806-BLK1, B202806-BS1, B202806-BSD1, S022905-CCV1, S022947-CCV1, S023182-CCV1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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

B202661-BS1, B202661-BSD1, B202661-MS1, B202661-MSD1, S022905-CCV1

V-20

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

Analyte & Samples(s) Qualified:**1,1,2-Trichloro-1,2,2-trifluoroethane**

B202587-BS1, B202587-BSD1, B202661-BS1, B202661-BSD1, B202661-MS1, B202661-MSD1, B202806-BS1, B202806-BSD1, S022905-CCV1, S022947-CCV1, S023182-CCV1

1,2,3-Trichloropropane

B202661-BS1, B202661-BSD1, B202661-MS1, B202661-MSD1, B202806-BS1, B202806-BSD1, B202827-BS1, B202827-BSD1, S022905-CCV1, S022947-CCV1, S023243-CCV1

Acetone

B202806-BS1, B202806-BSD1, S022947-CCV1

Bromochloromethane

B202587-BS1, B202587-BSD1, S023182-CCV1

Bromoform

B202661-BS1, B202661-BSD1, B202661-MS1, B202661-MSD1, S022905-CCV1

Dibromomethane

B202661-BS1, B202661-BSD1, B202661-MS1, B202661-MSD1, S022905-CCV1

Hexachlorobutadiene

B202827-BS1, B202827-BSD1, S023243-CCV1

tert-Butyl Alcohol (TBA)

B202587-BS1, B202587-BSD1, S023182-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**

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-05[401075-SB-02-3-6], 18E0198-09[401075-MW-01-3-6], 18E0198-10[401075-FD-01], 18E0198-11[401075-MW-01-8-8.5], 18E0198-12[401075-MW-06-5-7], B202661-BLK1, B202661-BS1, B202661-BSD1, B202661-MS1, B202661-MSD1, B202806-BLK1, B202806-BS1, B202806-BSD1, S022905-CCV1, S022947-CCV1

Dichlorodifluoromethane (Freon 1)

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-05[401075-SB-02-3-6], 18E0198-09[401075-MW-01-3-6], 18E0198-10[401075-FD-01], 18E0198-11[401075-MW-01-8-8.5], 18E0198-12[401075-MW-06-5-7], B202587-BS1, B202587-BSD1, B202661-BLK1, B202661-BS1, B202661-BSD1, B202661-MS1, B202661-MSD1, B202806-BLK1, B202806-BS1, B202806-BSD1, B202827-BS1, B202827-BSD1, B203365-BS1, B203365-BSD1, S022905-CCV1, S022947-CCV1, S023182-CCV1, S023207-CCV1, S023243-CCV1

SW-846 8270D**Qualifications:**

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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:**Benzoic Acid**

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-03[401075-SB-06-6-9], 18E0198-05[401075-SB-02-3-6], 18E0198-06[401075-SB-FD-01], 18E0198-09[401075-MW-01-3-6], 18E0198-12[401075-MW-06-5-7], 18E0198-14[401075-SB-14-9-11], B203135-BLK1, B203135-BS1, B203135-BSD1

L-07A

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

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

B202931-BSD1

MS-09

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

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

18E0198-01[401075-SB-07-3-6], B203135-MS1, B203135-MSD1

Benzidine

18E0198-01[401075-SB-07-3-6], B203135-MS1, B203135-MSD1

MS-22

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

Analyte & Samples(s) Qualified:**3,3-Dichlorobenzidine**

B203135-MS1

4-Chloroaniline

B203135-MS1

Hexachlorocyclopentadiene

B203135-MS1

Pyridine

B203135-MS1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

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

B203135-MS1

1,4-Dichlorobenzene

B203135-MS1

2,4-Dinitrophenol

B203135-MS1

4,6-Dinitro-2-methylphenol

B203135-MS1

R-05

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

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

18E0198-17[401075-RB-5-2-2018], B202931-BLK1, B202931-BS1

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R-06

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

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

18E0198-01[401075-SB-07-3-6], B203135-MSD1

1,4-Dichlorobenzene

18E0198-01[401075-SB-07-3-6], B203135-MSD1

2,4-Dinitrophenol

18E0198-01[401075-SB-07-3-6], B203135-MSD1

2-Nitrophenol

18E0198-01[401075-SB-07-3-6], B203135-MS1, B203135-MSD1

4,6-Dinitro-2-methylphenol

18E0198-01[401075-SB-07-3-6], B203135-MSD1

Aniline

18E0198-01[401075-SB-07-3-6], B203135-MS1, B203135-MSD1

Hexachlorocyclopentadiene

18E0198-01[401075-SB-07-3-6], B203135-MSD1

Hexachloroethane

18E0198-01[401075-SB-07-3-6], B203135-MS1, B203135-MSD1

N-Nitrosodimethylamine

18E0198-01[401075-SB-07-3-6], B203135-MS1, B203135-MSD1

Pyridine

18E0198-01[401075-SB-07-3-6], B203135-MSD1

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:**Nitrobenzene-d5**

18E0198-03[401075-SB-06-6-9]

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**

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-03[401075-SB-06-6-9], 18E0198-05[401075-SB-02-3-6], 18E0198-06[401075-SB-FD-01], 18E0198-09[401075-MW-01-3-6], 18E0198-12[401075-MW-06-5-7], 18E0198-14[401075-SB-14-9-11], 18E0198-17[401075-RB-5-2-2018], B202931-BLK1, B202931-BS1, B202931-BSD1, B203135-BLK1, B203135-BS1, B203135-BSD1, B203135-MS1, B203135-MSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

18E0198-17[401075-RB-5-2-2018], B202931-BLK1, B202931-BS1, B202931-BSD1

Aniline

18E0198-17[401075-RB-5-2-2018], B202931-BLK1, B202931-BS1, B202931-BSD1

Benzidine

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-03[401075-SB-06-6-9], 18E0198-05[401075-SB-02-3-6], 18E0198-06[401075-SB-FD-01], 18E0198-09[401075-MW-01-3-6], 18E0198-12[401075-MW-06-5-7], 18E0198-14[401075-SB-14-9-11], 18E0198-17[401075-RB-5-2-2018], B202931-BLK1, B202931-BS1, B202931-BSD1, B203135-BLK1, B203135-BS1, B203135-BSD1, B203135-MS1, B203135-MSD1

Hexachlorocyclopentadiene

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-03[401075-SB-06-6-9], 18E0198-05[401075-SB-02-3-6], 18E0198-06[401075-SB-FD-01], 18E0198-09[401075-MW-01-3-6], 18E0198-12[401075-MW-06-5-7], 18E0198-14[401075-SB-14-9-11], B203135-BLK1, B203135-BS1, B203135-BSD1, B203135-MS1, B203135-MSD1

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V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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

B203135-BS1, B203135-BSD1, B203135-MS1, B203135-MSD1

Bis(2-chloroisopropyl)ether

B203135-BS1, B203135-BSD1, B203135-MS1, B203135-MSD1

Di-n-octylphthalate

B202931-BS1, B202931-BSD1

V-16

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

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

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-03[401075-SB-06-6-9], 18E0198-05[401075-SB-02-3-6], 18E0198-06[401075-SB-FD-01], 18E0198-09[401075-MW-01-3-6], 18E0198-12[401075-MW-06-5-7], 18E0198-14[401075-SB-14-9-11], B203135-BLK1, B203135-BS1, B203135-BSD1, B203135-MS1, B203135-MSD1

V-20

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

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

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-03[401075-SB-06-6-9], 18E0198-05[401075-SB-02-3-6], 18E0198-06[401075-SB-FD-01], 18E0198-09[401075-MW-01-3-6], 18E0198-12[401075-MW-06-5-7], 18E0198-14[401075-SB-14-9-11], B203135-BLK1

Bis(2-chloroisopropyl)ether

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-03[401075-SB-06-6-9], 18E0198-05[401075-SB-02-3-6], 18E0198-06[401075-SB-FD-01], 18E0198-09[401075-MW-01-3-6], 18E0198-12[401075-MW-06-5-7], 18E0198-14[401075-SB-14-9-11], B203135-BLK1

Di-n-octylphthalate

18E0198-17[401075-RB-5-2-2018], B202931-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**

18E0198-01[401075-SB-07-3-6], 18E0198-02[401075-SB-15-6-7.5], 18E0198-03[401075-SB-06-6-9], 18E0198-05[401075-SB-02-3-6], 18E0198-06[401075-SB-FD-01], 18E0198-09[401075-MW-01-3-6], 18E0198-12[401075-MW-06-5-7], 18E0198-14[401075-SB-14-9-11], 18E0198-17[401075-RB-5-2-2018], B202931-BLK1, B202931-BS1, B202931-BSD1, B203135-BLK1, B203135-BS1, B203135-BSD1, B203135-MS1, B203135-MSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

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.



Tod E. Kopyscinski
Laboratory Director

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-07-3-6

Sampled: 5/2/2018 09:30

Sample ID: 18E0198-01

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.39	0.12	0.029	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Acrylonitrile	ND	0.0075	0.0031	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Benzene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Bromobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Bromochloromethane	ND	0.0025	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Bromodichloromethane	ND	0.0025	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Bromoform	ND	0.0025	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Bromomethane	ND	0.012	0.0052	mg/Kg dry	1	MS-07A, V-34	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
2-Butanone (MEK)	0.067	0.050	0.022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
tert-Butyl Alcohol (TBA)	ND	0.050	0.026	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
n-Butylbenzene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
sec-Butylbenzene	0.013	0.0025	0.0012	mg/Kg dry	1	MS-07A	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
tert-Butylbenzene	0.0031	0.0025	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Carbon Disulfide	ND	0.0075	0.0054	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Carbon Tetrachloride	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Chlorobenzene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Chlorodibromomethane	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Chloroethane	ND	0.025	0.0019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Chloroform	ND	0.0050	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Chloromethane	ND	0.012	0.0080	mg/Kg dry	1	L-04, MS-09, V-05	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
2-Chlorotoluene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
4-Chlorotoluene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,2-Dibromoethane (EDB)	ND	0.0025	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Dibromomethane	ND	0.0025	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,2-Dichlorobenzene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,3-Dichlorobenzene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,4-Dichlorobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.0050	0.0026	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	0.0016	mg/Kg dry	1	MS-07A, V-34	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,1-Dichloroethane	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,2-Dichloroethane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,1-Dichloroethylene	ND	0.0050	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
cis-1,2-Dichloroethylene	0.037	0.0025	0.0010	mg/Kg dry	1	MS-07A	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
trans-1,2-Dichloroethylene	0.0018	0.0025	0.0011	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,2-Dichloropropane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,3-Dichloropropane	ND	0.0012	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
2,2-Dichloropropane	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,1-Dichloropropene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Diethyl Ether	ND	0.025	0.0022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-07-3-6

Sampled: 5/2/2018 09:30

Sample ID: 18E0198-01

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0012	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,4-Dioxane	ND	0.12	0.072	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Ethylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Hexachlorobutadiene	ND	0.0025	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
2-Hexanone (MBK)	ND	0.025	0.014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Isopropylbenzene (Cumene)	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
p-Isopropyltoluene (p-Cymene)	0.0012	0.0025	0.0010	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Methyl Acetate	ND	0.0025	0.0020	mg/Kg dry	1	L-04, R-05	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Methyl Cyclohexane	ND	0.0025	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Methylene Chloride	ND	0.025	0.0088	mg/Kg dry	1	R-05	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	0.0095	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Naphthalene	ND	0.0050	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
n-Propylbenzene	0.00087	0.0025	0.00087	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Styrene	ND	0.0025	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0025	0.0022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Tetrachloroethylene	0.0063	0.0025	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Tetrahydrofuran	ND	0.012	0.0027	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Toluene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,2,3-Trichlorobenzene	ND	0.0025	0.00075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,2,4-Trichlorobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,3,5-Trichlorobenzene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,1,1-Trichloroethane	ND	0.0025	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,1,2-Trichloroethane	ND	0.0025	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Trichloroethylene	0.0047	0.0025	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,2,3-Trichloropropane	ND	0.0025	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,2,4-Trimethylbenzene	0.0015	0.0025	0.0010	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
1,3,5-Trimethylbenzene	0.00080	0.0025	0.00075	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Vinyl Chloride	ND	0.012	0.0014	mg/Kg dry	1	MS-07A	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
m+p Xylene	ND	0.0050	0.0021	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 12:40	MFF
o-Xylene	0.00090	0.0025	0.00087	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 12:40	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	100		70-130				5/7/18 12:40			
Toluene-d8	99.0		70-130				5/7/18 12:40			
4-Bromofluorobenzene	111		70-130				5/7/18 12:40			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-07-3-6

Sampled: 5/2/2018 09:30

Sample ID: 18E0198-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Acenaphthylene	ND	0.22	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Acetophenone	ND	0.44	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Aniline	ND	0.44	0.13	mg/Kg dry	1	MS-09, R-06	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Anthracene	ND	0.22	0.064	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Benzidine	ND	0.86	0.55	mg/Kg dry	1	MS-09, V-04, V-05	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Benzo(a)anthracene	ND	0.22	0.059	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Benzo(a)pyrene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Benzo(b)fluoranthene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Benzo(g,h,i)perylene	ND	0.22	0.098	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Benzo(k)fluoranthene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Benzoic Acid	ND	1.3	0.24	mg/Kg dry	1	L-04, V-20	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Bis(2-chloroethoxy)methane	ND	0.44	0.085	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Bis(2-chloroethyl)ether	ND	0.44	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Bis(2-chloroisopropyl)ether	ND	0.44	0.095	mg/Kg dry	1	V-20	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.44	0.17	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
4-Bromophenylphenylether	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Butylbenzylphthalate	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Carbazole	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
4-Chloroaniline	ND	0.86	0.10	mg/Kg dry	1	V-34	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
4-Chloro-3-methylphenol	ND	0.86	0.095	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2-Chloronaphthalene	ND	0.44	0.083	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2-Chlorophenol	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
4-Chlorophenylphenylether	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Chrysene	ND	0.22	0.069	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Dibenz(a,h)anthracene	ND	0.22	0.14	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Dibenzofuran	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Di-n-butylphthalate	ND	0.44	0.097	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
1,2-Dichlorobenzene	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
1,3-Dichlorobenzene	ND	0.44	0.076	mg/Kg dry	1	R-06	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
1,4-Dichlorobenzene	ND	0.44	0.080	mg/Kg dry	1	R-06	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
3,3-Dichlorobenzidine	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2,4-Dichlorophenol	ND	0.44	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Diethylphthalate	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2,4-Dimethylphenol	ND	0.44	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Dimethylphthalate	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
4,6-Dinitro-2-methylphenol	ND	0.44	0.42	mg/Kg dry	1	R-06	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2,4-Dinitrophenol	ND	0.86	0.25	mg/Kg dry	1	R-06	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2,4-Dinitrotoluene	ND	0.44	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2,6-Dinitrotoluene	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Di-n-octylphthalate	ND	0.44	0.23	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.44	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Fluoranthene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Fluorene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-07-3-6

Sampled: 5/2/2018 09:30

Sample ID: 18E0198-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Hexachlorobutadiene	ND	0.44	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Hexachlorocyclopentadiene	ND	0.44	0.094	mg/Kg dry	1	R-06, V-05	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Hexachloroethane	ND	0.44	0.089	mg/Kg dry	1	R-06	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Isophorone	ND	0.44	0.086	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
1-Methylnaphthalene	ND	0.22	0.085	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2-Methylnaphthalene	ND	0.22	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2-Methylphenol	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
3/4-Methylphenol	ND	0.44	0.14	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2-Nitroaniline	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
3-Nitroaniline	ND	0.44	0.064	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
4-Nitroaniline	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Nitrobenzene	ND	0.44	0.083	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2-Nitrophenol	ND	0.44	0.12	mg/Kg dry	1	R-06	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
4-Nitrophenol	ND	0.86	0.097	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
N-Nitrosodimethylamine	ND	0.44	0.28	mg/Kg dry	1	R-06	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
N-Nitrosodiphenylamine	ND	0.44	0.091	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
N-Nitrosodi-n-propylamine	ND	0.44	0.091	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Pentachloronitrobenzene	ND	0.44	0.11	mg/Kg dry	1	V-16	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Pentachlorophenol	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Phenol	ND	0.44	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Pyrene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Pyridine	ND	0.44	0.072	mg/Kg dry	1	R-06	SW-846 8270D	5/11/18	5/14/18 15:18	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
1,2,4-Trichlorobenzene	ND	0.44	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2,4,5-Trichlorophenol	ND	0.44	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
2,4,6-Trichlorophenol	ND	0.44	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:18	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	57.4		30-130				5/14/18 15:18			
Phenol-d6	61.7		30-130				5/14/18 15:18			
Nitrobenzene-d5	49.5		30-130				5/14/18 15:18			
2-Fluorobiphenyl	46.2		30-130				5/14/18 15:18			
2,4,6-Tribromophenol	53.0		30-130				5/14/18 15:18			
p-Terphenyl-d14	57.4		30-130				5/14/18 15:18			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-07-3-6

Sampled: 5/2/2018 09:30

Sample ID: 18E0198-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
								Prepared	Analyzed	
Alachlor [1]	ND	0.027	0.0015	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Aldrin [1]	ND	0.0067	0.00040	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
alpha-BHC [1]	ND	0.0067	0.00053	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
beta-BHC [1]	ND	0.0067	0.00067	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
delta-BHC [1]	ND	0.0067	0.00053	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
gamma-BHC (Lindane) [1]	ND	0.0027	0.00067	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Chlordane [1]	ND	0.027	0.0077	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
4,4'-DDD [2]	0.062	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
4,4'-DDE [1]	ND	0.0053	0.00040	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
4,4'-DDT [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Dieldrin [1]	ND	0.0053	0.00040	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Endosulfan I [1]	ND	0.0067	0.00053	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Endosulfan II [1]	ND	0.011	0.00040	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Endosulfan sulfate [1]	ND	0.011	0.0017	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Endrin [1]	ND	0.011	0.00040	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Endrin aldehyde [1]	ND	0.011	0.0016	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 9:56	TG
Endrin ketone [1]	ND	0.011	0.00053	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Heptachlor [1]	ND	0.0067	0.00067	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Heptachlor epoxide [1]	ND	0.0067	0.00053	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Hexachlorobenzene [1]	ND	0.0080	0.00093	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Methoxychlor [1]	ND	0.067	0.00080	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Toxaphene [1]	ND	0.13	0.057	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 16:51	TG
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		64.8		30-150				5/15/18 16:51		
Decachlorobiphenyl [2]		73.2		30-150				5/15/18 16:51		
Tetrachloro-m-xylene [1]		71.7		30-150				5/15/18 16:51		
Tetrachloro-m-xylene [2]		58.1		30-150				5/15/18 16:51		

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-07-3-6

Sampled: 5/2/2018 09:30

Sample ID: 18E0198-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.064	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:27	KAL
Aroclor-1221 [1]	ND	0.11	0.069	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:27	KAL
Aroclor-1232 [1]	ND	0.11	0.048	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:27	KAL
Aroclor-1242 [1]	ND	0.11	0.053	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:27	KAL
Aroclor-1248 [1]	ND	0.11	0.064	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:27	KAL
Aroclor-1254 [1]	ND	0.11	0.069	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:27	KAL
Aroclor-1260 [1]	ND	0.11	0.074	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:27	KAL
Aroclor-1262 [1]	ND	0.11	0.053	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:27	KAL
Aroclor-1268 [1]	ND	0.11	0.043	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:27	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	84.0		30-150							
Decachlorobiphenyl [2]	96.0		30-150							
Tetrachloro-m-xylene [1]	83.8		30-150							
Tetrachloro-m-xylene [2]	85.3		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-07-3-6

Sampled: 5/2/2018 09:30

Sample ID: 18E0198-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	2.2	2.0	mg/Kg dry	1	L-07A, MS-19	SW-846 6010C-D	5/16/18	5/17/18 9:44	QNW
Antimony	ND	2.2	1.5	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Arsenic	8.4	2.2	1.1	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Barium	170	2.2	1.1	mg/Kg dry	1	MS-19	SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Beryllium	0.87	0.22	0.16	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Cadmium	0.40	0.22	0.13	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Calcium	1800	6.6	4.5	mg/Kg dry	1	MS-19	SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Chromium	22	0.44	0.27	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Cobalt	17	2.2	1.2	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Copper	21	0.44	0.37	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Iron	51000	22	19	mg/Kg dry	10	MS-19, B	SW-846 6010C-D	5/16/18	5/17/18 11:21	QNW
Lead	13	0.66	0.39	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Magnesium	4300	66	35	mg/Kg dry	10	MS-19	SW-846 6010C-D	5/16/18	5/17/18 11:21	QNW
Manganese	2100	0.44	0.13	mg/Kg dry	1	MS-19	SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Mercury	0.025	0.032	0.0032	mg/Kg dry	1	J	SW-846 7471B	5/15/18	5/16/18 11:21	EJB
Nickel	20	0.44	0.35	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Potassium	1700	880	320	mg/Kg dry	10	MS-19	SW-846 6010C-D	5/16/18	5/17/18 11:21	QNW
Selenium	ND	4.4	3.6	mg/Kg dry	1	MS-07A	SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Sodium	89	88	33	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/17/18 9:44	QNW
Thallium	ND	2.2	1.6	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Vanadium	22	0.88	0.65	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH
Zinc	62	0.88	0.60	mg/Kg dry	1		SW-846 6010C-D	5/16/18	5/16/18 20:32	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-07-3-6

Sampled: 5/2/2018 09:30

Sample ID: 18E0198-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.58	0.29	mg/Kg dry	1		SW-846 9014	5/10/18	5/11/18 12:30	DJM
% Solids	75.2			% Wt	1		SM 2540G	5/9/18	5/10/18 7:24	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-15-6-7.5

Sampled: 5/2/2018 09:45

Sample ID: 18E0198-02

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.079	0.11	0.026	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Acrylonitrile	ND	0.0067	0.0028	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Benzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Bromobenzene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Bromochloromethane	ND	0.0022	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Bromodichloromethane	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Bromoform	ND	0.0022	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Bromomethane	ND	0.011	0.0047	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 13:08	MFF
2-Butanone (MEK)	ND	0.044	0.019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
tert-Butyl Alcohol (TBA)	ND	0.044	0.023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
n-Butylbenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
sec-Butylbenzene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
tert-Butylbenzene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Carbon Disulfide	ND	0.0067	0.0048	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Carbon Tetrachloride	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Chlorobenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Chlorodibromomethane	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Chloroethane	ND	0.022	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Chloroform	ND	0.0044	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Chloromethane	ND	0.011	0.0071	mg/Kg dry	1	V-05, L-04	SW-846 8260C	5/4/18	5/7/18 13:08	MFF
2-Chlorotoluene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
4-Chlorotoluene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,2-Dibromoethane (EDB)	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Dibromomethane	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
trans-1,4-Dichloro-2-butene	ND	0.0044	0.0023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,1-Dichloroethane	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,1-Dichloroethylene	ND	0.0044	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
cis-1,2-Dichloroethylene	0.014	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,3-Dichloropropane	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
2,2-Dichloropropane	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,1-Dichloropropene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Diethyl Ether	ND	0.022	0.0020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-15-6-7.5

Sampled: 5/2/2018 09:45

Sample ID: 18E0198-02

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0011	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,4-Dioxane	ND	0.11	0.064	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Ethylbenzene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Hexachlorobutadiene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
2-Hexanone (MBK)	ND	0.022	0.012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Methyl Acetate	ND	0.0022	0.0018	mg/Kg dry	1	L-04, R-05	SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0044	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Methyl Cyclohexane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Methylene Chloride	ND	0.022	0.0079	mg/Kg dry	1	R-05	SW-846 8260C	5/4/18	5/7/18 13:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0084	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Naphthalene	ND	0.0044	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
n-Propylbenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Styrene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	0.0020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Tetrachloroethylene	0.0020	0.0022	0.0014	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Tetrahydrofuran	ND	0.011	0.0024	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Toluene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,3,5-Trichlorobenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Trichloroethylene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,2,3-Trichloropropane	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,2,4-Trimethylbenzene	0.00091	0.0022	0.00089	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 13:08	MFF
1,3,5-Trimethylbenzene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
m+p Xylene	ND	0.0044	0.0019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
o-Xylene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:08	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	98.9	70-130				5/7/18 13:08				
Toluene-d8	100	70-130				5/7/18 13:08				
4-Bromofluorobenzene	101	70-130				5/7/18 13:08				

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-15-6-7.5

Sampled: 5/2/2018 09:45

Sample ID: 18E0198-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Acetophenone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Aniline	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Benzidine	ND	0.79	0.51	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Benzoic Acid	ND	1.2	0.22	mg/Kg dry	1	L-04, V-20	SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Bis(2-chloroethoxy)methane	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Bis(2-chloroethyl)ether	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Bis(2-chloroisopropyl)ether	ND	0.41	0.087	mg/Kg dry	1	V-20	SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
4-Bromophenylphenylether	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Butylbenzylphthalate	ND	0.41	0.097	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Carbazole	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
4-Chloroaniline	ND	0.79	0.093	mg/Kg dry	1	V-34	SW-846 8270D	5/11/18	5/14/18 15:45	CDT
4-Chloro-3-methylphenol	ND	0.79	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2-Chloronaphthalene	ND	0.41	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2-Chlorophenol	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
4-Chlorophenylphenylether	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Dibenzofuran	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Di-n-butylphthalate	ND	0.41	0.088	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
1,2-Dichlorobenzene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
1,3-Dichlorobenzene	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
1,4-Dichlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
3,3-Dichlorobenzidine	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2,4-Dichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Diethylphthalate	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2,4-Dimethylphenol	ND	0.41	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Dimethylphthalate	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2,4-Dinitrophenol	ND	0.79	0.23	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2,4-Dinitrotoluene	ND	0.41	0.066	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2,6-Dinitrotoluene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Di-n-octylphthalate	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	0.066	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-15-6-7.5

Sampled: 5/2/2018 09:45

Sample ID: 18E0198-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Hexachlorobutadiene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Hexachlorocyclopentadiene	ND	0.41	0.086	mg/Kg dry	1	V-05	SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Hexachloroethane	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Isophorone	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
1-Methylnaphthalene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2-Nitroaniline	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
3-Nitroaniline	ND	0.41	0.058	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
4-Nitroaniline	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Nitrobenzene	ND	0.41	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
4-Nitrophenol	ND	0.79	0.088	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
N-Nitrosodimethylamine	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
N-Nitrosodiphenylamine	ND	0.41	0.083	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
N-Nitrosodi-n-propylamine	ND	0.41	0.083	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Pentachloronitrobenzene	ND	0.41	0.097	mg/Kg dry	1	V-16	SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Pentachlorophenol	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Phenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Pyridine	ND	0.41	0.066	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
1,2,4-Trichlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2,4,5-Trichlorophenol	ND	0.41	0.092	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
2,4,6-Trichlorophenol	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 15:45	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	65.9		30-130				5/14/18 15:45			
Phenol-d6	71.4		30-130				5/14/18 15:45			
Nitrobenzene-d5	59.5		30-130				5/14/18 15:45			
2-Fluorobiphenyl	52.8		30-130				5/14/18 15:45			
2,4,6-Tribromophenol	58.0		30-130				5/14/18 15:45			
p-Terphenyl-d14	67.8		30-130				5/14/18 15:45			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-15-6-7.5

Sampled: 5/2/2018 09:45

Sample ID: 18E0198-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	0.057	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:39	KAL
Aroclor-1221 [1]	ND	0.095	0.062	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:39	KAL
Aroclor-1232 [1]	ND	0.095	0.043	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:39	KAL
Aroclor-1242 [1]	ND	0.095	0.048	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:39	KAL
Aroclor-1248 [1]	ND	0.095	0.057	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:39	KAL
Aroclor-1254 [1]	ND	0.095	0.062	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:39	KAL
Aroclor-1260 [1]	ND	0.095	0.067	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:39	KAL
Aroclor-1262 [1]	ND	0.095	0.048	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:39	KAL
Aroclor-1268 [1]	ND	0.095	0.038	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:39	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	65.2		30-150							
Decachlorobiphenyl [2]	74.2		30-150							
Tetrachloro-m-xylene [1]	66.2		30-150							
Tetrachloro-m-xylene [2]	66.3		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-15-6-7.5

Sampled: 5/2/2018 09:45

Sample ID: 18E0198-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	17000	2.0	1.9	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 22:15	MJH
Antimony	ND	2.0	1.4	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Arsenic	6.6	2.0	1.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Barium	65	2.0	1.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Beryllium	0.95	0.20	0.15	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Cadmium	0.16	0.20	0.12	mg/Kg dry	1	J	SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Calcium	2400	6.1	4.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Chromium	25	0.41	0.25	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Cobalt	8.9	2.0	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Copper	40	0.41	0.35	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Iron	43000	20	18	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/17/18 11:46	QNW
Lead	18	0.61	0.36	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Magnesium	5600	6.1	3.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	QNW
Manganese	120	0.41	0.12	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Mercury	0.042	0.028	0.0028	mg/Kg dry	1		SW-846 7471B	5/15/18	5/16/18 11:23	EJB
Nickel	32	0.41	0.32	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Potassium	3000	820	300	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 10:38	QNW
Selenium	ND	4.1	3.4	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Silver	ND	0.82	0.48	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 10:43	QNW
Sodium	170	82	31	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Thallium	ND	2.0	1.5	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Vanadium	25	0.82	0.61	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH
Zinc	96	0.82	0.56	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:32	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-15-6-7.5

Sampled: 5/2/2018 09:45

Sample ID: 18E0198-02

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.44	0.22	mg/Kg dry	1		SW-846 9014	5/10/18	5/11/18 12:30	DJM
% Solids	83.9			% Wt	1		SM 2540G	5/9/18	5/10/18 7:24	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-06-6-9

Sampled: 5/2/2018 10:20

Sample ID: 18E0198-03

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	74	14	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Acrylonitrile	ND	7.4	0.86	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.74	0.16	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Benzene	ND	1.5	0.18	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Bromobenzene	ND	1.5	0.22	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Bromochloromethane	ND	1.5	0.33	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Bromodichloromethane	ND	1.5	0.44	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Bromoform	ND	1.5	0.31	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Bromomethane	ND	3.0	1.4	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
2-Butanone (MEK)	ND	30	3.5	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
tert-Butyl Alcohol (TBA)	ND	30	3.2	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
n-Butylbenzene	61	1.5	0.22	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
sec-Butylbenzene	22	1.5	0.19	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
tert-Butylbenzene	2.4	1.5	0.18	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.74	0.14	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Carbon Disulfide	ND	4.5	1.5	mg/Kg dry	20	V-05	SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Carbon Tetrachloride	ND	1.5	0.37	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Chlorobenzene	ND	1.5	0.24	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Chlorodibromomethane	ND	0.74	0.15	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Chloroethane	ND	3.0	0.42	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Chloroform	ND	3.0	0.33	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Chloromethane	ND	3.0	0.82	mg/Kg dry	20	V-05	SW-846 8260C	5/7/18	5/15/18 4:22	LBD
2-Chlorotoluene	ND	1.5	0.18	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
4-Chlorotoluene	ND	1.5	0.21	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	7.4	0.55	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,2-Dibromoethane (EDB)	ND	0.74	0.22	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Dibromomethane	ND	1.5	0.24	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,2-Dichlorobenzene	ND	1.5	0.25	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,3-Dichlorobenzene	ND	1.5	0.25	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,4-Dichlorobenzene	ND	1.5	0.22	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
trans-1,4-Dichloro-2-butene	ND	3.0	0.46	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Dichlorodifluoromethane (Freon 12)	ND	3.0	0.42	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,1-Dichloroethane	ND	1.5	0.23	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,2-Dichloroethane	ND	1.5	0.29	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,1-Dichloroethylene	ND	1.5	0.31	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
cis-1,2-Dichloroethylene	29	1.5	0.22	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
trans-1,2-Dichloroethylene	ND	1.5	0.22	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,2-Dichloropropane	ND	1.5	0.19	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,3-Dichloropropane	ND	0.74	0.19	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
2,2-Dichloropropane	ND	1.5	0.32	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,1-Dichloropropene	ND	3.0	0.19	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
cis-1,3-Dichloropropene	ND	0.74	0.18	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
trans-1,3-Dichloropropene	ND	0.74	0.17	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Diethyl Ether	ND	3.0	0.33	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-06-6-9

Sampled: 5/2/2018 10:20

Sample ID: 18E0198-03

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.74	0.27	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,4-Dioxane	ND	150	39	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Ethylbenzene	10	1.5	0.19	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Hexachlorobutadiene	ND	1.5	0.87	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
2-Hexanone (MBK)	ND	15	2.3	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Isopropylbenzene (Cumene)	13	1.5	0.18	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
p-Isopropyltoluene (p-Cymene)	26	1.5	0.22	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Methyl Acetate	ND	15	0.62	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.5	0.13	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Methyl Cyclohexane	1.2	1.5	0.93	mg/Kg dry	20	J	SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Methylene Chloride	ND	7.4	4.7	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
4-Methyl-2-pentanone (MIBK)	ND	15	2.2	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Naphthalene	39	3.0	0.18	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
n-Propylbenzene	36	1.5	0.19	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Styrene	ND	1.5	0.22	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,1,1,2-Tetrachloroethane	ND	1.5	0.18	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,1,2,2-Tetrachloroethane	ND	0.74	0.24	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Tetrachloroethylene	120	1.5	0.40	mg/Kg dry	20	L-06	SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Tetrahydrofuran	ND	15	1.6	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Toluene	0.86	1.5	0.25	mg/Kg dry	20	J	SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,2,3-Trichlorobenzene	ND	7.4	0.21	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,2,4-Trichlorobenzene	ND	1.5	0.28	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,3,5-Trichlorobenzene	ND	1.5	0.25	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,1,1-Trichloroethane	ND	1.5	0.19	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,1,2-Trichloroethane	ND	1.5	0.35	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Trichloroethylene	8.5	1.5	0.30	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Trichlorofluoromethane (Freon 11)	ND	3.0	0.22	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,2,3-Trichloropropane	ND	3.0	0.32	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.5	0.29	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,2,4-Trimethylbenzene	210	1.5	0.27	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
1,3,5-Trimethylbenzene	86	1.5	0.19	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Vinyl Chloride	ND	3.0	0.20	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
m+p Xylene	18	3.0	0.38	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
o-Xylene	12	1.5	0.19	mg/Kg dry	20		SW-846 8260C	5/7/18	5/15/18 4:22	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	95.9		70-130				5/15/18 4:22			
Toluene-d8	103		70-130				5/15/18 4:22			
4-Bromofluorobenzene	105		70-130				5/15/18 4:22			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-06-6-9

Sampled: 5/2/2018 10:20

Sample ID: 18E0198-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.84	0.21	0.063	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Acetophenone	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Aniline	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Anthracene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Benzidine	ND	0.82	0.52	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Benzo(a)anthracene	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Benzo(g,h,i)perylene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Benzoic Acid	ND	1.2	0.22	mg/Kg dry	1	L-04, V-20	SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Bis(2-chloroethoxy)methane	ND	0.42	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Bis(2-chloroethyl)ether	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Bis(2-chloroisopropyl)ether	ND	0.42	0.090	mg/Kg dry	1	V-20	SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Bis(2-Ethylhexyl)phthalate	2.0	0.42	0.16	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
4-Bromophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Butylbenzylphthalate	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Carbazole	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
4-Chloroaniline	ND	0.82	0.096	mg/Kg dry	1	V-34	SW-846 8270D	5/11/18	5/14/18 16:11	CDT
4-Chloro-3-methylphenol	ND	0.82	0.090	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
2-Chloronaphthalene	ND	0.42	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
2-Chlorophenol	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
4-Chlorophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Dibenzofuran	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Di-n-butylphthalate	ND	0.42	0.091	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
1,2-Dichlorobenzene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
1,3-Dichlorobenzene	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
1,4-Dichlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
3,3-Dichlorobenzidine	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
2,4-Dichlorophenol	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Diethylphthalate	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
2,4-Dimethylphenol	ND	0.42	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Dimethylphthalate	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
4,6-Dinitro-2-methylphenol	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
2,4-Dinitrophenol	ND	0.82	0.24	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
2,4-Dinitrotoluene	ND	0.42	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
2,6-Dinitrotoluene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Di-n-octylphthalate	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT
Fluorene	1.7	0.21	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-06-6-9

Sampled: 5/2/2018 10:20

Sample ID: 18E0198-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst	
								Prepared	Analyzed		
Hexachlorobenzene	ND	0.42	0.074	mg/Kg dry	1	V-05	SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Hexachlorobutadiene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Hexachlorocyclopentadiene	ND	0.42	0.089	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Hexachloroethane	ND	0.42	0.084	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Isophorone	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
1-Methylnaphthalene	11	1.0	0.40	mg/Kg dry	5	V-16	SW-846 8270D	5/11/18	5/17/18 0:23	CDT	
2-Methylnaphthalene	18	1.0	0.36	mg/Kg dry	5		SW-846 8270D	5/11/18	5/17/18 0:23	CDT	
2-Methylphenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
3/4-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Naphthalene	9.3	1.0	0.54	mg/Kg dry	5		SW-846 8270D	5/11/18	5/17/18 0:23	CDT	
2-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
3-Nitroaniline	ND	0.42	0.061	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
4-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Nitrobenzene	ND	0.42	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
2-Nitrophenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
4-Nitrophenol	ND	0.82	0.091	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
N-Nitrosodimethylamine	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
N-Nitrosodiphenylamine	ND	0.42	0.086	mg/Kg dry	1	SW-846 8270D	5/11/18	5/14/18 16:11	CDT		
N-Nitrosodi-n-propylamine	ND	0.42	0.086	mg/Kg dry	1	SW-846 8270D	5/11/18	5/14/18 16:11	CDT		
Pentachloronitrobenzene	ND	0.42	0.10	mg/Kg dry	1	J	SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Pentachlorophenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Phenanthrene	4.5	0.21	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Phenol	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Pyrene	0.13	0.21	0.069	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Pyridine	ND	0.42	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
1,2,4-Trichlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
2,4,5-Trichlorophenol	ND	0.42	0.095	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
2,4,6-Trichlorophenol	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:11	CDT	
Surrogates		% Recovery		Recovery Limits			Flag/Qual				
2-Fluorophenol		69.0		30-130					5/14/18 16:11		
2-Fluorophenol		54.4		30-130				5/17/18 0:23			
Phenol-d6		65.5		30-130				5/14/18 16:11			
Phenol-d6		67.0		30-130				5/17/18 0:23			
Nitrobenzene-d5		21.4		30-130		S-07		5/14/18 16:11			
Nitrobenzene-d5		53.9		30-130				5/17/18 0:23			
2-Fluorobiphenyl		45.6		30-130				5/14/18 16:11			
2-Fluorobiphenyl		45.3		30-130				5/17/18 0:23			
2,4,6-Tribromophenol		63.4		30-130				5/14/18 16:11			
2,4,6-Tribromophenol		60.8		30-130				5/17/18 0:23			
p-Terphenyl-d14		56.0		30-130				5/14/18 16:11			
p-Terphenyl-d14		55.2		30-130				5/17/18 0:23			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-06-6-9

Sampled: 5/2/2018 10:20

Sample ID: 18E0198-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	0.058	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:51	KAL
Aroclor-1221 [1]	ND	0.096	0.063	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:51	KAL
Aroclor-1232 [1]	ND	0.096	0.043	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:51	KAL
Aroclor-1242 [1]	ND	0.096	0.048	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:51	KAL
Aroclor-1248 [1]	ND	0.096	0.058	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:51	KAL
Aroclor-1254 [2]	0.096	0.096	0.063	mg/Kg dry	4	J	SW-846 8082A	5/7/18	5/9/18 20:51	KAL
Aroclor-1260 [1]	ND	0.096	0.067	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:51	KAL
Aroclor-1262 [1]	ND	0.096	0.048	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:51	KAL
Aroclor-1268 [1]	ND	0.096	0.038	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 20:51	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	70.6		30-150							
Decachlorobiphenyl [2]	82.7		30-150							
Tetrachloro-m-xylene [1]	54.9		30-150							
Tetrachloro-m-xylene [2]	61.4		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-06-6-9

Sampled: 5/2/2018 10:20

Sample ID: 18E0198-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	18000	2.2	2.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 22:22	MJH
Antimony	ND	2.2	1.5	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Arsenic	ND	2.2	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Barium	110	2.2	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Beryllium	0.65	0.22	0.16	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Cadmium	ND	0.22	0.13	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Calcium	1200	6.5	4.5	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Chromium	23	0.43	0.27	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Cobalt	5.5	2.2	1.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Copper	21	0.43	0.37	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Iron	28000	22	19	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 10:47	QNW
Lead	10	0.65	0.38	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Magnesium	4900	6.5	3.5	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	QNW
Manganese	150	0.43	0.13	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Mercury	0.016	0.028	0.0028	mg/Kg dry	1	J	SW-846 7471B	5/15/18	5/16/18 11:25	EJB
Nickel	24	0.43	0.34	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Potassium	2100	870	310	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 10:47	QNW
Selenium	ND	4.3	3.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Silver	ND	0.87	0.51	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 10:52	QNW
Sodium	130	87	33	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Thallium	ND	2.2	1.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Vanadium	20	0.87	0.64	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH
Zinc	80	0.87	0.60	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:37	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-06-6-9

Sampled: 5/2/2018 10:20

Sample ID: 18E0198-03

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.47	0.23	mg/Kg dry	1		SW-846 9014	5/10/18	5/11/18 12:30	DJM
% Solids	80.7			% Wt	1		SM 2540G	5/9/18	5/10/18 7:24	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-06-GW-GRAB

Sampled: 5/2/2018 10:30

Sample ID: 18E0198-04

Sample Matrix: Product/Solid

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	12000		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Acrylonitrile	ND	1200		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
tert-Amyl Methyl Ether (TAME)	ND	120		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Benzene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Bromobenzene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Bromochloromethane	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Bromodichloromethane	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Bromoform	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Bromomethane	ND	460		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
2-Butanone (MEK)	ND	4600		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
tert-Butyl Alcohol (TBA)	ND	4600		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
n-Butylbenzene	4300	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
sec-Butylbenzene	1700	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
tert-Butylbenzene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	120		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Carbon Disulfide	ND	690		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Carbon Tetrachloride	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Chlorobenzene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Chlorodibromomethane	ND	120		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Chloroethane	ND	460		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Chloroform	ND	460		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Chloromethane	ND	460		mg/Kg	200	L-04	SW-846 8260C	5/8/18	5/16/18 11:37	LBD
2-Chlorotoluene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
4-Chlorotoluene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1200		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,2-Dibromoethane (EDB)	ND	120		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Dibromomethane	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,2-Dichlorobenzene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,3-Dichlorobenzene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,4-Dichlorobenzene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
trans-1,4-Dichloro-2-butene	ND	460		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Dichlorodifluoromethane (Freon 12)	ND	460		mg/Kg	200	L-04	SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,1-Dichloroethane	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,2-Dichloroethane	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,1-Dichloroethylene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
cis-1,2-Dichloroethylene	4300	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
trans-1,2-Dichloroethylene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,2-Dichloropropane	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,3-Dichloropropane	ND	120		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
2,2-Dichloropropane	ND	230		mg/Kg	200	L-04, V-05	SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,1-Dichloropropene	ND	460		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
cis-1,3-Dichloropropene	ND	120		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
trans-1,3-Dichloropropene	ND	120		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Diethyl Ether	ND	460		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-06-GW-GRAB

Sampled: 5/2/2018 10:30

Sample ID: 18E0198-04

Sample Matrix: Product/Solid

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	120		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,4-Dioxane	ND	23000		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Ethylbenzene	840	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Hexachlorobutadiene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
2-Hexanone (MBK)	ND	2300		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Isopropylbenzene (Cumene)	980	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
p-Isopropyltoluene (p-Cymene)	2000	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Methyl Acetate	ND	2300		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Methyl tert-Butyl Ether (MTBE)	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Methyl Cyclohexane	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Methylene Chloride	ND	1200		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
4-Methyl-2-pentanone (MIBK)	ND	2300		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Naphthalene	2800	460		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
n-Propylbenzene	2700	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Styrene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,1,1,2-Tetrachloroethane	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,1,2,2-Tetrachloroethane	ND	120		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Tetrachloroethylene	8300	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Tetrahydrofuran	ND	2300		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Toluene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,2,3-Trichlorobenzene	ND	1200		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,2,4-Trichlorobenzene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,3,5-Trichlorobenzene	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,1,1-Trichloroethane	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,1,2-Trichloroethane	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Trichloroethylene	810	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Trichlorofluoromethane (Freon 11)	ND	460		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,2,3-Trichloropropane	ND	460		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,2,4-Trimethylbenzene	17000	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
1,3,5-Trimethylbenzene	6400	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Vinyl Chloride	ND	460		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
m+p Xylene	1400	460		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
o-Xylene	890	230		mg/Kg	200		SW-846 8260C	5/8/18	5/16/18 11:37	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual							
1,2-Dichloroethane-d4	95.0	70-130							5/16/18 11:37	
Toluene-d8	97.3	70-130							5/16/18 11:37	
4-Bromofluorobenzene	103	70-130							5/16/18 11:37	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-06-GW-GRAB

Sampled: 5/2/2018 10:30

Sample ID: 18E0198-04

Sample Matrix: Product/Solid

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	710000	25000	mg/Kg	1	Z-01	SW-846 8015C	5/8/18	5/9/18 12:56	RMW
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
2-Fluorobiphenyl	41.2	40-140						5/9/18 12:56	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-02-3-6

Sampled: 5/2/2018 11:50

Sample ID: 18E0198-05

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.080	0.13	0.030	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Acrylonitrile	ND	0.0078	0.0033	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Benzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Bromobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Bromodichloromethane	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Bromomethane	ND	0.013	0.0055	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 13:35	MFF
2-Butanone (MEK)	ND	0.052	0.023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
tert-Butyl Alcohol (TBA)	ND	0.052	0.027	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
n-Butylbenzene	0.088	0.0026	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
sec-Butylbenzene	0.042	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
tert-Butylbenzene	0.0053	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Carbon Disulfide	ND	0.0078	0.0056	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Chlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Chlorodibromomethane	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Chloroethane	ND	0.026	0.0020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Chloroform	ND	0.0052	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Chloromethane	ND	0.013	0.0083	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/4/18	5/7/18 13:35	MFF
2-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
4-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Dibromomethane	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
trans-1,4-Dichloro-2-butene	ND	0.0052	0.0027	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,1-Dichloroethane	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,1-Dichloroethylene	ND	0.0052	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
cis-1,2-Dichloroethylene	0.75	0.0026	0.0010	mg/Kg dry	1	E	SW-846 8260C	5/4/18	5/7/18 13:35	MFF
cis-1,2-Dichloroethylene	2.9	0.074	0.011	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 5:54	LBD
trans-1,2-Dichloroethylene	0.015	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,3-Dichloropropane	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
2,2-Dichloropropane	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,1-Dichloropropene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-02-3-6

Sampled: 5/2/2018 11:50

Sample ID: 18E0198-05

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diethyl Ether	ND	0.026	0.0023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Diisopropyl Ether (DIPE)	ND	0.0013	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,4-Dioxane	ND	0.13	0.075	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Ethylbenzene	0.033	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Hexachlorobutadiene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Isopropylbenzene (Cumene)	0.032	0.0026	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
p-Isopropyltoluene (p-Cymene)	0.047	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Methyl Acetate	ND	0.0026	0.0021	mg/Kg dry	1	L-04, R-05	SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0052	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Methyl Cyclohexane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Methylene Chloride	ND	0.026	0.0092	mg/Kg dry	1	R-05	SW-846 8260C	5/4/18	5/7/18 13:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.0099	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Naphthalene	0.088	0.0052	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
n-Propylbenzene	0.090	0.0026	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Styrene	0.00078	0.0026	0.00078	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	0.0023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Tetrachloroethylene	0.11	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Tetrahydrofuran	ND	0.013	0.0029	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Toluene	0.0012	0.0026	0.0010	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,2,4-Trichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,3,5-Trichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Trichloroethylene	0.10	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,2,3-Trichloropropane	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
1,2,4-Trimethylbenzene	3.8	0.074	0.013	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 5:54	LBD
1,3,5-Trimethylbenzene	0.20	0.0026	0.00078	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
m+p Xylene	0.043	0.0052	0.0022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
o-Xylene	0.029	0.0026	0.00091	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 13:35	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	99.8		70-130				5/15/18 5:54			
1,2-Dichloroethane-d4	97.3		70-130				5/7/18 13:35			
Toluene-d8	103		70-130				5/15/18 5:54			
Toluene-d8	100		70-130				5/7/18 13:35			
4-Bromofluorobenzene	112		70-130				5/15/18 5:54			
4-Bromofluorobenzene	112		70-130				5/7/18 13:35			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-02-3-6

Sampled: 5/2/2018 11:50

Sample ID: 18E0198-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.23	0.069	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Acenaphthylene	ND	0.23	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Acetophenone	ND	0.46	0.090	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Aniline	ND	0.46	0.13	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Anthracene	ND	0.23	0.066	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Benzidine	ND	0.89	0.57	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Benzo(a)anthracene	ND	0.23	0.061	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Benzo(a)pyrene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Benzo(b)fluoranthene	ND	0.23	0.065	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Benzo(g,h,i)perylene	ND	0.23	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Benzo(k)fluoranthene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Benzoic Acid	ND	1.3	0.24	mg/Kg dry	1	L-04, V-20	SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Bis(2-chloroethoxy)methane	ND	0.46	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Bis(2-chloroethyl)ether	ND	0.46	0.090	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Bis(2-chloroisopropyl)ether	ND	0.46	0.098	mg/Kg dry	1	V-20	SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Bis(2-Ethylhexyl)phthalate	0.28	0.46	0.18	mg/Kg dry	1	J	SW-846 8270D	5/11/18	5/14/18 16:37	CDT
4-Bromophenylphenylether	ND	0.46	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Butylbenzylphthalate	ND	0.46	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Carbazole	ND	0.23	0.059	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
4-Chloroaniline	ND	0.89	0.10	mg/Kg dry	1	V-34	SW-846 8270D	5/11/18	5/14/18 16:37	CDT
4-Chloro-3-methylphenol	ND	0.89	0.098	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2-Chloronaphthalene	ND	0.46	0.086	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2-Chlorophenol	ND	0.46	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
4-Chlorophenylphenylether	ND	0.46	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Chrysene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Dibenz(a,h)anthracene	ND	0.23	0.14	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Dibenzofuran	ND	0.46	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Di-n-butylphthalate	ND	0.46	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
1,2-Dichlorobenzene	ND	0.46	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
1,3-Dichlorobenzene	ND	0.46	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
1,4-Dichlorobenzene	ND	0.46	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
3,3-Dichlorobenzidine	ND	0.23	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2,4-Dichlorophenol	ND	0.46	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Diethylphthalate	ND	0.46	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2,4-Dimethylphenol	ND	0.46	0.085	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Dimethylphthalate	ND	0.46	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
4,6-Dinitro-2-methylphenol	ND	0.46	0.43	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2,4-Dinitrophenol	ND	0.89	0.26	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2,4-Dinitrotoluene	ND	0.46	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2,6-Dinitrotoluene	ND	0.46	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Di-n-octylphthalate	ND	0.46	0.24	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.46	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Fluoranthene	ND	0.23	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Fluorene	ND	0.23	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-02-3-6

Sampled: 5/2/2018 11:50

Sample ID: 18E0198-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.46	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Hexachlorobutadiene	ND	0.46	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Hexachlorocyclopentadiene	ND	0.46	0.097	mg/Kg dry	1	V-05	SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Hexachloroethane	ND	0.46	0.091	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Indeno(1,2,3-cd)pyrene	ND	0.23	0.16	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Isophorone	ND	0.46	0.089	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
1-Methylnaphthalene	0.11	0.23	0.087	mg/Kg dry	1	J	SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2-Methylnaphthalene	0.15	0.23	0.079	mg/Kg dry	1	J	SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2-Methylphenol	ND	0.46	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
3/4-Methylphenol	ND	0.46	0.15	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Naphthalene	0.71	0.23	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2-Nitroaniline	ND	0.46	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
3-Nitroaniline	ND	0.46	0.066	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
4-Nitroaniline	ND	0.46	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Nitrobenzene	ND	0.46	0.086	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2-Nitrophenol	ND	0.46	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
4-Nitrophenol	ND	0.89	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
N-Nitrosodimethylamine	ND	0.46	0.29	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
N-Nitrosodiphenylamine	ND	0.46	0.094	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
N-Nitrosodi-n-propylamine	ND	0.46	0.094	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Pentachloronitrobenzene	ND	0.46	0.11	mg/Kg dry	1	V-16	SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Pentachlorophenol	ND	0.46	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Phenanthrene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Phenol	ND	0.46	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Pyrene	ND	0.23	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Pyridine	ND	0.46	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.46	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
1,2,4-Trichlorobenzene	ND	0.46	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2,4,5-Trichlorophenol	ND	0.46	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
2,4,6-Trichlorophenol	ND	0.46	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 16:37	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	52.7		30-130				5/14/18 16:37			
Phenol-d6	56.1		30-130				5/14/18 16:37			
Nitrobenzene-d5	44.5		30-130				5/14/18 16:37			
2-Fluorobiphenyl	42.6		30-130				5/14/18 16:37			
2,4,6-Tribromophenol	49.7		30-130				5/14/18 16:37			
p-Terphenyl-d14	50.7		30-130				5/14/18 16:37			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-02-3-6

Sampled: 5/2/2018 11:50

Sample ID: 18E0198-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.063	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:03	KAL
Aroclor-1221 [1]	ND	0.10	0.068	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:03	KAL
Aroclor-1232 [1]	ND	0.10	0.047	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:03	KAL
Aroclor-1242 [1]	ND	0.10	0.052	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:03	KAL
Aroclor-1248 [1]	ND	0.10	0.063	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:03	KAL
Aroclor-1254 [1]	ND	0.10	0.068	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:03	KAL
Aroclor-1260 [1]	ND	0.10	0.073	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:03	KAL
Aroclor-1262 [1]	ND	0.10	0.052	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:03	KAL
Aroclor-1268 [1]	ND	0.10	0.042	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:03	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	76.1		30-150							
Decachlorobiphenyl [2]	88.2		30-150							
Tetrachloro-m-xylene [1]	78.2		30-150							
Tetrachloro-m-xylene [2]	79.2		30-150							

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-02-3-6

Sampled: 5/2/2018 11:50

Sample ID: 18E0198-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	19000	2.4	2.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 22:28	MJH
Antimony	ND	2.4	1.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Arsenic	5.4	2.4	1.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Barium	320	2.4	1.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Beryllium	1.5	0.24	0.18	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Cadmium	ND	0.24	0.14	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Calcium	1800	7.2	4.9	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Chromium	25	0.48	0.30	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Cobalt	20	2.4	1.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Copper	43	0.48	0.41	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Iron	47000	24	21	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 10:57	QNW
Lead	16	0.72	0.42	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Magnesium	4200	7.2	3.9	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	QNW
Manganese	410	0.48	0.15	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Mercury	0.026	0.034	0.0034	mg/Kg dry	1	J	SW-846 7471B	5/15/18	5/16/18 11:26	EJB
Nickel	37	0.48	0.38	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Potassium	4000	960	350	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 10:57	QNW
Selenium	ND	4.8	4.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Silver	ND	0.96	0.56	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 11:08	QNW
Sodium	200	96	36	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Thallium	ND	2.4	1.7	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Vanadium	27	0.96	0.71	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH
Zinc	77	0.96	0.66	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:42	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-02-3-6

Sampled: 5/2/2018 11:50

Sample ID: 18E0198-05

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.47	0.23	mg/Kg dry	1		SW-846 9014	5/10/18	5/11/18 12:30	DJM
% Solids	73.6			% Wt	1		SM 2540G	5/9/18	5/10/18 7:24	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-FD-01

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.23	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Acenaphthylene	ND	0.23	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Acetophenone	ND	0.46	0.090	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Aniline	ND	0.46	0.13	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Anthracene	ND	0.23	0.066	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Benzidine	ND	0.88	0.57	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Benzo(a)anthracene	ND	0.23	0.060	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Benzo(a)pyrene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Benzo(b)fluoranthene	ND	0.23	0.064	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Benzo(g,h,i)perylene	ND	0.23	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Benzo(k)fluoranthene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Benzoic Acid	ND	1.3	0.24	mg/Kg dry	1	L-04, V-20	SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Bis(2-chloroethoxy)methane	ND	0.46	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Bis(2-chloroethyl)ether	ND	0.46	0.090	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Bis(2-chloroisopropyl)ether	ND	0.46	0.098	mg/Kg dry	1	V-20	SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.46	0.18	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
4-Bromophenylphenylether	ND	0.46	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Butylbenzylphthalate	ND	0.46	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Carbazole	ND	0.23	0.059	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
4-Chloroaniline	ND	0.88	0.10	mg/Kg dry	1	V-34	SW-846 8270D	5/11/18	5/14/18 17:03	CDT
4-Chloro-3-methylphenol	ND	0.88	0.098	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2-Chloronaphthalene	ND	0.46	0.086	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2-Chlorophenol	ND	0.46	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
4-Chlorophenylphenylether	ND	0.46	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Chrysene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Dibenz(a,h)anthracene	ND	0.23	0.14	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Dibenzofuran	ND	0.46	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Di-n-butylphthalate	ND	0.46	0.099	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
1,2-Dichlorobenzene	ND	0.46	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
1,3-Dichlorobenzene	ND	0.46	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
1,4-Dichlorobenzene	ND	0.46	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
3,3-Dichlorobenzidine	ND	0.23	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2,4-Dichlorophenol	ND	0.46	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Diethylphthalate	ND	0.46	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2,4-Dimethylphenol	ND	0.46	0.084	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Dimethylphthalate	ND	0.46	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
4,6-Dinitro-2-methylphenol	ND	0.46	0.43	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2,4-Dinitrophenol	ND	0.88	0.26	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2,4-Dinitrotoluene	ND	0.46	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2,6-Dinitrotoluene	ND	0.46	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Di-n-octylphthalate	ND	0.46	0.24	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.46	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Fluoranthene	ND	0.23	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Fluorene	ND	0.23	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-FD-01

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.46	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Hexachlorobutadiene	ND	0.46	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Hexachlorocyclopentadiene	ND	0.46	0.096	mg/Kg dry	1	V-05	SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Hexachloroethane	ND	0.46	0.091	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Indeno(1,2,3-cd)pyrene	ND	0.23	0.16	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Isophorone	ND	0.46	0.088	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
1-Methylnaphthalene	ND	0.23	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2-Methylnaphthalene	ND	0.23	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2-Methylphenol	ND	0.46	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
3/4-Methylphenol	ND	0.46	0.14	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Naphthalene	0.27	0.23	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2-Nitroaniline	ND	0.46	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
3-Nitroaniline	ND	0.46	0.066	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
4-Nitroaniline	ND	0.46	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Nitrobenzene	ND	0.46	0.086	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2-Nitrophenol	ND	0.46	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
4-Nitrophenol	ND	0.88	0.099	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
N-Nitrosodimethylamine	ND	0.46	0.29	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
N-Nitrosodiphenylamine	ND	0.46	0.094	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
N-Nitrosodi-n-propylamine	ND	0.46	0.094	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Pentachloronitrobenzene	ND	0.46	0.11	mg/Kg dry	1	V-16	SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Pentachlorophenol	ND	0.46	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Phenanthrene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Phenol	ND	0.46	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Pyrene	ND	0.23	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Pyridine	ND	0.46	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.46	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
1,2,4-Trichlorobenzene	ND	0.46	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2,4,5-Trichlorophenol	ND	0.46	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
2,4,6-Trichlorophenol	ND	0.46	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:03	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	74.2		30-130				5/14/18 17:03			
Phenol-d6	77.3		30-130				5/14/18 17:03			
Nitrobenzene-d5	65.9		30-130				5/14/18 17:03			
2-Fluorobiphenyl	57.9		30-130				5/14/18 17:03			
2,4,6-Tribromophenol	67.3		30-130				5/14/18 17:03			
p-Terphenyl-d14	68.9		30-130				5/14/18 17:03			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-FD-01

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.062	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:15	KAL
Aroclor-1221 [1]	ND	0.10	0.068	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:15	KAL
Aroclor-1232 [1]	ND	0.10	0.047	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:15	KAL
Aroclor-1242 [1]	ND	0.10	0.052	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:15	KAL
Aroclor-1248 [1]	ND	0.10	0.062	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:15	KAL
Aroclor-1254 [1]	ND	0.10	0.068	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:15	KAL
Aroclor-1260 [1]	ND	0.10	0.073	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:15	KAL
Aroclor-1262 [1]	ND	0.10	0.052	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:15	KAL
Aroclor-1268 [1]	ND	0.10	0.042	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:15	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	78.1		30-150							
Decachlorobiphenyl [2]	90.3		30-150							
Tetrachloro-m-xylene [1]	82.2		30-150							
Tetrachloro-m-xylene [2]	82.9		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-FD-01

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	19000	2.3	2.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 22:35	MJH
Antimony	ND	2.3	1.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Arsenic	5.8	2.3	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Barium	220	2.3	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Beryllium	1.1	0.23	0.17	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Cadmium	0.16	0.23	0.14	mg/Kg dry	1	J	SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Calcium	4300	6.8	4.7	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Chromium	21	0.45	0.28	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Cobalt	11	2.3	1.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Copper	26	0.45	0.39	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Iron	31000	23	20	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:12	QNW
Lead	22	0.68	0.40	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Magnesium	4200	6.8	3.7	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	QNW
Manganese	220	0.45	0.14	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Mercury	0.039	0.033	0.0033	mg/Kg dry	1		SW-846 7471B	5/15/18	5/16/18 11:28	EJB
Nickel	22	0.45	0.36	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Potassium	3900	900	330	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:12	QNW
Selenium	ND	4.5	3.7	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Silver	ND	0.90	0.53	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 11:17	QNW
Sodium	240	90	34	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Thallium	ND	2.3	1.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Vanadium	27	0.90	0.67	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH
Zinc	78	0.90	0.62	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 16:47	MJH

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-FD-01

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-06

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.57	0.28	mg/Kg dry	1		SW-846 9014	5/10/18	5/11/18 12:30	DJM
% Solids	73.2			% Wt	1		SM 2540G	5/9/18	5/10/18 7:24	MRL

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-02-GW-GRAB

Sampled: 5/2/2018 12:00

Sample ID: 18E0198-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10000	1900	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Acrylonitrile	ND	1000	120	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
tert-Amyl Methyl Ether (TAME)	ND	100	21	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Benzene	ND	200	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Bromobenzene	ND	200	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Bromochloromethane	ND	200	45	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Bromodichloromethane	ND	100	59	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Bromoform	ND	200	42	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Bromomethane	ND	400	190	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
2-Butanone (MEK)	ND	4000	470	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
tert-Butyl Alcohol (TBA)	ND	4000	430	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
n-Butylbenzene	ND	200	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
sec-Butylbenzene	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
tert-Butylbenzene	ND	200	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	100	19	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Carbon Disulfide	ND	800	200	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Carbon Tetrachloride	ND	1000	49	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Chlorobenzene	ND	200	32	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Chlorodibromomethane	ND	100	21	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Chloroethane	ND	400	56	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Chloroform	ND	400	44	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Chloromethane	ND	400	110	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
2-Chlorotoluene	ND	200	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
4-Chlorotoluene	ND	200	28	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1000	74	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,2-Dibromoethane (EDB)	ND	100	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Dibromomethane	ND	200	32	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,2-Dichlorobenzene	ND	200	34	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,3-Dichlorobenzene	ND	200	34	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,4-Dichlorobenzene	ND	200	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
trans-1,4-Dichloro-2-butene	ND	400	62	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Dichlorodifluoromethane (Freon 12)	ND	400	57	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,1-Dichloroethane	ND	200	32	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,2-Dichloroethane	ND	200	39	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,1-Dichloroethylene	ND	200	42	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
cis-1,2-Dichloroethylene	23000	200	29	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
trans-1,2-Dichloroethylene	110	200	30	µg/L	200	J	SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,2-Dichloropropane	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,3-Dichloropropane	ND	100	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
2,2-Dichloropropane	ND	200	43	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,1-Dichloropropene	ND	400	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
cis-1,3-Dichloropropene	ND	100	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
trans-1,3-Dichloropropene	ND	100	22	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Diethyl Ether	ND	400	44	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-02-GW-GRAB

Sampled: 5/2/2018 12:00

Sample ID: 18E0198-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	100	36	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,4-Dioxane	ND	20000	5300	µg/L	200	V-05	SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Ethylbenzene	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Hexachlorobutadiene	ND	200	120	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
2-Hexanone (MBK)	ND	2000	300	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Isopropylbenzene (Cumene)	ND	200	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
p-Isopropyltoluene (p-Cymene)	ND	200	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Methyl Acetate	ND	200	84	µg/L	200	L-04	SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Methyl tert-Butyl Ether (MTBE)	ND	200	18	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Methyl Cyclohexane	ND	200	130	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Methylene Chloride	ND	1000	640	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
4-Methyl-2-pentanone (MIBK)	ND	2000	290	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Naphthalene	ND	400	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
n-Propylbenzene	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Styrene	ND	200	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,1,1,2-Tetrachloroethane	ND	200	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,1,2,2-Tetrachloroethane	ND	100	32	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Tetrachloroethylene	170	200	54	µg/L	200	J	SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Tetrahydrofuran	ND	2000	210	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Toluene	ND	200	34	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,2,3-Trichlorobenzene	ND	1000	28	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,2,4-Trichlorobenzene	ND	200	38	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,3,5-Trichlorobenzene	ND	200	34	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,1,1-Trichloroethane	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,1,2-Trichloroethane	ND	200	47	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Trichloroethylene	430	200	40	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Trichlorofluoromethane (Freon 11)	ND	400	29	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,2,3-Trichloropropane	ND	400	43	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	200	39	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,2,4-Trimethylbenzene	68	200	36	µg/L	200	J	SW-846 8260C	5/15/18	5/15/18 13:44	LBD
1,3,5-Trimethylbenzene	30	200	26	µg/L	200	J	SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Vinyl Chloride	120	400	27	µg/L	200	J	SW-846 8260C	5/15/18	5/15/18 13:44	LBD
m+p Xylene	ND	400	51	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
o-Xylene	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 13:44	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	93.4	70-130				5/15/18 13:44				
Toluene-d8	98.2	70-130				5/15/18 13:44				
4-Bromofluorobenzene	97.8	70-130				5/15/18 13:44				

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-FD-GW-01

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-08

Sample Matrix: Ground Water

Sample Flags: PR-07, RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10000	1900	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Acrylonitrile	ND	1000	120	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
tert-Amyl Methyl Ether (TAME)	ND	100	21	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Benzene	ND	200	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Bromobenzene	ND	200	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Bromochloromethane	ND	200	45	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Bromodichloromethane	ND	100	59	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Bromoform	ND	200	42	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Bromomethane	ND	400	190	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
2-Butanone (MEK)	ND	4000	470	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
tert-Butyl Alcohol (TBA)	ND	4000	430	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
n-Butylbenzene	ND	200	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
sec-Butylbenzene	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
tert-Butylbenzene	ND	200	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	100	19	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Carbon Disulfide	ND	800	200	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Carbon Tetrachloride	ND	1000	49	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Chlorobenzene	ND	200	32	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Chlorodibromomethane	ND	100	21	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Chloroethane	ND	400	56	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Chloroform	ND	400	44	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Chloromethane	ND	400	110	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
2-Chlorotoluene	ND	200	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
4-Chlorotoluene	ND	200	28	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1000	74	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,2-Dibromoethane (EDB)	ND	100	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Dibromomethane	ND	200	32	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,2-Dichlorobenzene	ND	200	34	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,3-Dichlorobenzene	ND	200	34	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,4-Dichlorobenzene	ND	200	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
trans-1,4-Dichloro-2-butene	ND	400	62	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Dichlorodifluoromethane (Freon 12)	ND	400	57	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,1-Dichloroethane	ND	200	32	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,2-Dichloroethane	ND	200	39	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,1-Dichloroethylene	ND	200	42	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
cis-1,2-Dichloroethylene	24000	200	29	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
trans-1,2-Dichloroethylene	120	200	30	µg/L	200	J	SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,2-Dichloropropane	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,3-Dichloropropane	ND	100	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
2,2-Dichloropropane	ND	200	43	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,1-Dichloropropene	ND	400	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
cis-1,3-Dichloropropene	ND	100	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
trans-1,3-Dichloropropene	ND	100	22	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Diethyl Ether	ND	400	44	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-FD-GW-01

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-08

Sample Matrix: Ground Water

Sample Flags: PR-07, RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	100	36	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,4-Dioxane	ND	20000	5300	µg/L	200	V-05	SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Ethylbenzene	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Hexachlorobutadiene	ND	200	120	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
2-Hexanone (MBK)	ND	2000	300	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Isopropylbenzene (Cumene)	ND	200	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
p-Isopropyltoluene (p-Cymene)	ND	200	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Methyl Acetate	ND	200	84	µg/L	200	L-04	SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Methyl tert-Butyl Ether (MTBE)	ND	200	18	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Methyl Cyclohexane	ND	200	130	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Methylene Chloride	ND	1000	640	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
4-Methyl-2-pentanone (MIBK)	ND	2000	290	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Naphthalene	ND	400	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
n-Propylbenzene	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Styrene	ND	200	30	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,1,1,2-Tetrachloroethane	ND	200	24	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,1,2,2-Tetrachloroethane	ND	100	32	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Tetrachloroethylene	150	200	54	µg/L	200	J	SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Tetrahydrofuran	ND	2000	210	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Toluene	ND	200	34	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,2,3-Trichlorobenzene	ND	1000	28	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,2,4-Trichlorobenzene	ND	200	38	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,3,5-Trichlorobenzene	ND	200	34	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,1,1-Trichloroethane	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,1,2-Trichloroethane	ND	200	47	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Trichloroethylene	380	200	40	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Trichlorofluoromethane (Freon 11)	ND	400	29	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,2,3-Trichloropropane	ND	400	43	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	200	39	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,2,4-Trimethylbenzene	60	200	36	µg/L	200	J	SW-846 8260C	5/15/18	5/15/18 14:15	LBD
1,3,5-Trimethylbenzene	26	200	26	µg/L	200	J	SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Vinyl Chloride	140	400	27	µg/L	200	J	SW-846 8260C	5/15/18	5/15/18 14:15	LBD
m+p Xylene	ND	400	51	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
o-Xylene	ND	200	26	µg/L	200		SW-846 8260C	5/15/18	5/15/18 14:15	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	95.7	70-130				5/15/18 14:15				
Toluene-d8	98.1	70-130				5/15/18 14:15				
4-Bromofluorobenzene	101	70-130				5/15/18 14:15				

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-01-3-6

Sampled: 5/2/2018 13:15

Sample ID: 18E0198-09

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.041	0.13	0.030	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Acrylonitrile	ND	0.0077	0.0032	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Benzene	ND	0.0026	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Bromobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Bromodichloromethane	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Bromomethane	ND	0.013	0.0054	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 14:57	MFF
2-Butanone (MEK)	ND	0.051	0.022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
tert-Butyl Alcohol (TBA)	ND	0.051	0.027	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
n-Butylbenzene	ND	0.0026	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
sec-Butylbenzene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
tert-Butylbenzene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Carbon Disulfide	ND	0.0077	0.0055	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Chlorobenzene	ND	0.0026	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Chlorodibromomethane	ND	0.0026	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Chloroethane	ND	0.026	0.0019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Chloroform	ND	0.0051	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Chloromethane	ND	0.013	0.0082	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/4/18	5/7/18 14:57	MFF
2-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
4-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Dibromomethane	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
trans-1,4-Dichloro-2-butene	ND	0.0051	0.0027	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,1-Dichloroethane	ND	0.0026	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,1-Dichloroethylene	ND	0.0051	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
cis-1,2-Dichloroethylene	0.056	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,3-Dichloropropane	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
2,2-Dichloropropane	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,1-Dichloropropene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Diethyl Ether	ND	0.026	0.0023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-01-3-6

Sampled: 5/2/2018 13:15

Sample ID: 18E0198-09

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,4-Dioxane	ND	0.13	0.073	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Ethylbenzene	0.0011	0.0026	0.0010	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Hexachlorobutadiene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Methyl Acetate	ND	0.0026	0.0020	mg/Kg dry	1	L-04, R-05	SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0051	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Methyl Cyclohexane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Methylene Chloride	ND	0.026	0.0091	mg/Kg dry	1	R-05	SW-846 8260C	5/4/18	5/7/18 14:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.0097	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Naphthalene	ND	0.0051	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
n-Propylbenzene	0.0013	0.0026	0.00089	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Styrene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	0.0023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Tetrachloroethylene	0.22	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Tetrahydrofuran	ND	0.013	0.0028	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,2,4-Trichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,3,5-Trichlorobenzene	ND	0.0026	0.00089	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Trichloroethylene	0.027	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,2,3-Trichloropropane	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,2,4-Trimethylbenzene	0.0067	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
1,3,5-Trimethylbenzene	0.0033	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
m+p Xylene	ND	0.0051	0.0022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 14:57	MFF
o-Xylene	0.0019	0.0026	0.00089	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 14:57	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	93.7		70-130				5/7/18 14:57			
Toluene-d8	99.1		70-130				5/7/18 14:57			
4-Bromofluorobenzene	99.9		70-130				5/7/18 14:57			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-01-3-6

Sampled: 5/2/2018 13:15

Sample ID: 18E0198-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.24	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Acenaphthylene	ND	0.24	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Acetophenone	ND	0.48	0.095	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Aniline	ND	0.48	0.14	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Anthracene	ND	0.24	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Benzidine	ND	0.94	0.60	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Benzo(a)anthracene	ND	0.24	0.064	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Benzo(a)pyrene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Benzo(b)fluoranthene	ND	0.24	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Benzo(g,h,i)perylene	ND	0.24	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Benzo(k)fluoranthene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Benzoic Acid	ND	1.4	0.26	mg/Kg dry	1	V-20, L-04	SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Bis(2-chloroethoxy)methane	ND	0.48	0.092	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Bis(2-chloroethyl)ether	ND	0.48	0.095	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Bis(2-chloroisopropyl)ether	ND	0.48	0.10	mg/Kg dry	1	V-20	SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.48	0.19	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
4-Bromophenylphenylether	ND	0.48	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Butylbenzylphthalate	ND	0.48	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Carbazole	ND	0.24	0.062	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
4-Chloroaniline	ND	0.94	0.11	mg/Kg dry	1	V-34	SW-846 8270D	5/11/18	5/14/18 17:29	CDT
4-Chloro-3-methylphenol	ND	0.94	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2-Chloronaphthalene	ND	0.48	0.091	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2-Chlorophenol	ND	0.48	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
4-Chlorophenylphenylether	ND	0.48	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Chrysene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Dibenz(a,h)anthracene	ND	0.24	0.15	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Dibenzofuran	ND	0.48	0.084	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Di-n-butylphthalate	ND	0.48	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
1,2-Dichlorobenzene	ND	0.48	0.085	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
1,3-Dichlorobenzene	ND	0.48	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
1,4-Dichlorobenzene	ND	0.48	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
3,3-Dichlorobenzidine	ND	0.24	0.074	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2,4-Dichlorophenol	ND	0.48	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Diethylphthalate	ND	0.48	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2,4-Dimethylphenol	ND	0.48	0.089	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Dimethylphthalate	ND	0.48	0.085	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
4,6-Dinitro-2-methylphenol	ND	0.48	0.46	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2,4-Dinitrophenol	ND	0.94	0.28	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2,4-Dinitrotoluene	ND	0.48	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2,6-Dinitrotoluene	ND	0.48	0.085	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Di-n-octylphthalate	ND	0.48	0.25	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.48	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Fluoranthene	ND	0.24	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Fluorene	ND	0.24	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-01-3-6

Sampled: 5/2/2018 13:15

Sample ID: 18E0198-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.48	0.085	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Hexachlorobutadiene	ND	0.48	0.085	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Hexachlorocyclopentadiene	ND	0.48	0.10	mg/Kg dry	1	V-05	SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Hexachloroethane	ND	0.48	0.097	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Indeno(1,2,3-cd)pyrene	ND	0.24	0.17	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Isophorone	ND	0.48	0.094	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
1-Methylnaphthalene	ND	0.24	0.092	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2-Methylnaphthalene	ND	0.24	0.084	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2-Methylphenol	ND	0.48	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
3/4-Methylphenol	ND	0.48	0.15	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Naphthalene	ND	0.24	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2-Nitroaniline	ND	0.48	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
3-Nitroaniline	ND	0.48	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
4-Nitroaniline	ND	0.48	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Nitrobenzene	ND	0.48	0.091	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2-Nitrophenol	ND	0.48	0.13	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
4-Nitrophenol	ND	0.94	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
N-Nitrosodimethylamine	ND	0.48	0.31	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
N-Nitrosodiphenylamine	ND	0.48	0.099	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
N-Nitrosodi-n-propylamine	ND	0.48	0.099	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Pentachloronitrobenzene	ND	0.48	0.12	mg/Kg dry	1	V-16	SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Pentachlorophenol	ND	0.48	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Phenanthrene	ND	0.24	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Phenol	ND	0.48	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Pyrene	ND	0.24	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Pyridine	ND	0.48	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.48	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
1,2,4-Trichlorobenzene	ND	0.48	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2,4,5-Trichlorophenol	ND	0.48	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
2,4,6-Trichlorophenol	ND	0.48	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:29	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	57.9		30-130				5/14/18 17:29			
Phenol-d6	63.6		30-130				5/14/18 17:29			
Nitrobenzene-d5	55.1		30-130				5/14/18 17:29			
2-Fluorobiphenyl	48.0		30-130				5/14/18 17:29			
2,4,6-Tribromophenol	42.6		30-130				5/14/18 17:29			
p-Terphenyl-d14	57.0		30-130				5/14/18 17:29			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-01-3-6

Sampled: 5/2/2018 13:15

Sample ID: 18E0198-09

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.028	0.0015	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Aldrin [1]	ND	0.0070	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
alpha-BHC [1]	ND	0.0070	0.00056	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
beta-BHC [1]	ND	0.0070	0.00070	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
delta-BHC [1]	ND	0.0070	0.00056	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
gamma-BHC (Lindane) [1]	ND	0.0028	0.00070	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Chlordane [1]	ND	0.028	0.0082	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
4,4'-DDD [1]	ND	0.0056	0.00056	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
4,4'-DDE [1]	ND	0.0056	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
4,4'-DDT [1]	ND	0.0056	0.00056	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Dieldrin [1]	ND	0.0056	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Endosulfan I [1]	ND	0.0070	0.00056	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Endosulfan II [1]	ND	0.011	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Endosulfan sulfate [1]	ND	0.011	0.0018	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Endrin [1]	ND	0.011	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Endrin aldehyde [1]	ND	0.011	0.0017	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Endrin ketone [1]	ND	0.011	0.00056	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Heptachlor [1]	ND	0.0070	0.00070	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Heptachlor epoxide [1]	ND	0.0070	0.00056	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Hexachlorobenzene [1]	ND	0.0084	0.00098	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Methoxychlor [1]	ND	0.070	0.00084	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Toxaphene [1]	ND	0.14	0.060	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:23	TG
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
Decachlorobiphenyl [1]	62.2	30-150							5/15/18 10:23	
Decachlorobiphenyl [2]	67.4	30-150							5/15/18 10:23	
Tetrachloro-m-xylene [1]	65.0	30-150							5/15/18 10:23	
Tetrachloro-m-xylene [2]	53.9	30-150							5/15/18 10:23	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-01-3-6

Sampled: 5/2/2018 13:15

Sample ID: 18E0198-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.067	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:28	KAL
Aroclor-1221 [1]	ND	0.11	0.073	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:28	KAL
Aroclor-1232 [1]	ND	0.11	0.051	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:28	KAL
Aroclor-1242 [1]	ND	0.11	0.056	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:28	KAL
Aroclor-1248 [1]	ND	0.11	0.067	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:28	KAL
Aroclor-1254 [1]	ND	0.11	0.073	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:28	KAL
Aroclor-1260 [1]	ND	0.11	0.079	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:28	KAL
Aroclor-1262 [1]	ND	0.11	0.056	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:28	KAL
Aroclor-1268 [1]	ND	0.11	0.045	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:28	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	76.7		30-150							
Decachlorobiphenyl [2]	89.4		30-150							
Tetrachloro-m-xylene [1]	81.0		30-150							
Tetrachloro-m-xylene [2]	81.8		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-01-3-6

Sampled: 5/2/2018 13:15

Sample ID: 18E0198-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	2.4	2.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 22:42	MJH
Antimony	ND	2.4	1.7	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Arsenic	5.2	2.4	1.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Barium	160	2.4	1.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Beryllium	0.75	0.24	0.18	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Cadmium	0.21	0.24	0.15	mg/Kg dry	1	J	SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Calcium	3300	7.3	5.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Chromium	18	0.49	0.30	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Cobalt	9.8	2.4	1.4	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Copper	30	0.49	0.42	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Iron	28000	24	21	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:21	QNW
Lead	130	0.73	0.43	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Magnesium	4000	7.3	3.9	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	QNW
Manganese	560	0.49	0.15	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Mercury	0.11	0.037	0.0037	mg/Kg dry	1		SW-846 7471B	5/15/18	5/16/18 11:30	EJB
Nickel	20	0.49	0.39	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Potassium	2200	970	350	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 11:21	QNW
Selenium	ND	4.9	4.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Silver	ND	0.97	0.57	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 11:26	QNW
Sodium	270	97	37	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Thallium	ND	2.4	1.8	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Vanadium	26	0.97	0.72	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH
Zinc	77	0.97	0.67	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:17	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-01-3-6

Sampled: 5/2/2018 13:15

Sample ID: 18E0198-09

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.69	0.34	mg/Kg dry	1		SW-846 9014	5/10/18	5/11/18 12:30	DJM
% Solids	69.7			% Wt	1		SM 2540G	5/9/18	5/10/18 7:25	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-FD-01

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-10

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.031	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Acrylonitrile	ND	0.0079	0.0033	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Benzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Bromobenzene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Bromodichloromethane	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Bromomethane	ND	0.013	0.0055	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 15:24	MFF
2-Butanone (MEK)	ND	0.053	0.023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
tert-Butyl Alcohol (TBA)	ND	0.053	0.027	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
n-Butylbenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
sec-Butylbenzene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
tert-Butylbenzene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Carbon Disulfide	ND	0.0079	0.0056	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Carbon Tetrachloride	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Chlorobenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Chlorodibromomethane	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Chloroethane	ND	0.026	0.0020	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Chloroform	ND	0.0053	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Chloromethane	ND	0.013	0.0084	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/4/18	5/7/18 15:24	MFF
2-Chlorotoluene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
4-Chlorotoluene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Dibromomethane	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
trans-1,4-Dichloro-2-butene	ND	0.0053	0.0028	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,1-Dichloroethane	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,1-Dichloroethylene	ND	0.0053	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
cis-1,2-Dichloroethylene	0.012	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,3-Dichloropropane	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
2,2-Dichloropropane	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,1-Dichloropropene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Diethyl Ether	ND	0.026	0.0024	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-FD-01

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-10

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,4-Dioxane	ND	0.13	0.076	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Ethylbenzene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Hexachlorobutadiene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Methyl Acetate	ND	0.0026	0.0021	mg/Kg dry	1	L-04, R-05	SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0053	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Methyl Cyclohexane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Methylene Chloride	ND	0.026	0.0093	mg/Kg dry	1	R-05	SW-846 8260C	5/4/18	5/7/18 15:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Naphthalene	ND	0.0053	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
n-Propylbenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Styrene	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	0.0024	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Tetrachloroethylene	0.17	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Tetrahydrofuran	ND	0.013	0.0029	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Toluene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,2,4-Trichlorobenzene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,3,5-Trichlorobenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0016	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Trichloroethylene	0.022	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,2,3-Trichloropropane	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,2,4-Trimethylbenzene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
1,3,5-Trimethylbenzene	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
m+p Xylene	ND	0.0053	0.0022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
o-Xylene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:24	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	98.0		70-130				5/7/18 15:24			
Toluene-d8	97.3		70-130				5/7/18 15:24			
4-Bromofluorobenzene	101		70-130				5/7/18 15:24			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-FD-01

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-10

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.1			% Wt	1		SM 2540G	5/9/18	5/10/18 7:25	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-01-8-8.5

Sampled: 5/2/2018 13:20

Sample ID: 18E0198-11

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.030	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Acrylonitrile	ND	0.0077	0.0032	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Benzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Bromobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Bromodichloromethane	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Bromomethane	ND	0.013	0.0054	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 15:51	MFF
2-Butanone (MEK)	ND	0.051	0.022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
tert-Butyl Alcohol (TBA)	ND	0.051	0.027	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
n-Butylbenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
sec-Butylbenzene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
tert-Butylbenzene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Carbon Disulfide	ND	0.0077	0.0055	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Chlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Chlorodibromomethane	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Chloroethane	ND	0.026	0.0019	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Chloroform	ND	0.0051	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Chloromethane	ND	0.013	0.0082	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/4/18	5/7/18 15:51	MFF
2-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
4-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Dibromomethane	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
trans-1,4-Dichloro-2-butene	ND	0.0051	0.0027	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1	V-34	SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,1-Dichloroethane	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,1-Dichloroethylene	ND	0.0051	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
cis-1,2-Dichloroethylene	0.043	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,3-Dichloropropane	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
2,2-Dichloropropane	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,1-Dichloropropene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Diethyl Ether	ND	0.026	0.0023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-01-8-8.5

Sampled: 5/2/2018 13:20

Sample ID: 18E0198-11

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,4-Dioxane	ND	0.13	0.074	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Ethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Hexachlorobutadiene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Methyl Acetate	ND	0.0026	0.0020	mg/Kg dry	1	R-05, L-04	SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0051	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Methyl Cyclohexane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Methylene Chloride	ND	0.026	0.0091	mg/Kg dry	1	R-05	SW-846 8260C	5/4/18	5/7/18 15:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.0097	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Naphthalene	ND	0.0051	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
n-Propylbenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Styrene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	0.0023	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Tetrachloroethylene	0.42	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Tetrahydrofuran	ND	0.013	0.0028	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,2,4-Trichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,3,5-Trichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0015	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Trichloroethylene	0.041	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,2,3-Trichloropropane	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,2,4-Trimethylbenzene	0.0010	0.0026	0.0010	mg/Kg dry	1	J	SW-846 8260C	5/4/18	5/7/18 15:51	MFF
1,3,5-Trimethylbenzene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
m+p Xylene	ND	0.0051	0.0022	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
o-Xylene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260C	5/4/18	5/7/18 15:51	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	99.1		70-130				5/7/18 15:51			
Toluene-d8	98.6		70-130				5/7/18 15:51			
4-Bromofluorobenzene	101		70-130				5/7/18 15:51			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-01-8-8.5

Sampled: 5/2/2018 13:20

Sample ID: 18E0198-11

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.5			% Wt	1		SM 2540G	5/9/18	5/10/18 7:25	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-06-5-7

Sampled: 5/2/2018 13:40

Sample ID: 18E0198-12

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	0.033	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Acrylonitrile	ND	0.0085	0.0035	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0014	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Benzene	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Bromobenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Bromochloromethane	ND	0.0028	0.0020	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Bromodichloromethane	ND	0.0028	0.00085	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Bromoform	ND	0.0028	0.0020	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Bromomethane	ND	0.014	0.0060	mg/Kg dry	1	V-34	SW-846 8260C	5/8/18	5/8/18 7:24	MFF
2-Butanone (MEK)	ND	0.057	0.025	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
tert-Butyl Alcohol (TBA)	ND	0.057	0.030	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
n-Butylbenzene	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
sec-Butylbenzene	ND	0.0028	0.0014	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
tert-Butylbenzene	ND	0.0028	0.0013	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0014	0.00085	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Carbon Disulfide	ND	0.0085	0.0061	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Carbon Tetrachloride	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Chlorobenzene	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Chlorodibromomethane	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Chloroethane	ND	0.028	0.0021	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Chloroform	ND	0.0057	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Chloromethane	ND	0.014	0.0091	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/8/18	5/8/18 7:24	MFF
2-Chlorotoluene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
4-Chlorotoluene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	0.0016	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,2-Dibromoethane (EDB)	ND	0.0028	0.0014	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Dibromomethane	ND	0.0028	0.00085	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,2-Dichlorobenzene	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,3-Dichlorobenzene	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,4-Dichlorobenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
trans-1,4-Dichloro-2-butene	ND	0.0057	0.0030	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.028	0.0018	mg/Kg dry	1	V-34	SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,1-Dichloroethane	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,2-Dichloroethane	ND	0.0028	0.0018	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,1-Dichloroethylene	ND	0.0057	0.0016	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
cis-1,2-Dichloroethylene	0.021	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
trans-1,2-Dichloroethylene	ND	0.0028	0.0013	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,2-Dichloropropane	ND	0.0028	0.0018	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,3-Dichloropropane	ND	0.0014	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
2,2-Dichloropropane	ND	0.0028	0.0013	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,1-Dichloropropene	ND	0.0028	0.0013	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
cis-1,3-Dichloropropene	ND	0.0014	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
trans-1,3-Dichloropropene	ND	0.0014	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Diethyl Ether	ND	0.028	0.0026	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-06-5-7

Sampled: 5/2/2018 13:40

Sample ID: 18E0198-12

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0014	0.00085	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,4-Dioxane	ND	0.14	0.082	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Ethylbenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Hexachlorobutadiene	ND	0.0028	0.0014	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
2-Hexanone (MBK)	ND	0.028	0.015	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Isopropylbenzene (Cumene)	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Methyl Acetate	ND	0.0028	0.0023	mg/Kg dry	1	L-04	SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0057	0.0013	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Methyl Cyclohexane	ND	0.0028	0.0014	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Methylene Chloride	ND	0.028	0.010	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.028	0.011	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Naphthalene	ND	0.0057	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
n-Propylbenzene	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Styrene	ND	0.0028	0.00085	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,1,1,2-Tetrachloroethane	ND	0.0028	0.0026	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	0.0013	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Tetrachloroethylene	0.0033	0.0028	0.0018	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Tetrahydrofuran	ND	0.014	0.0031	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Toluene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,2,3-Trichlorobenzene	ND	0.0028	0.00085	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,2,4-Trichlorobenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,3,5-Trichlorobenzene	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,1,1-Trichloroethane	ND	0.0028	0.0014	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,1,2-Trichloroethane	ND	0.0028	0.0017	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Trichloroethylene	ND	0.0028	0.0014	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	0.0016	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,2,3-Trichloropropane	ND	0.0028	0.0016	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	0.0013	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,2,4-Trimethylbenzene	0.0013	0.0028	0.0011	mg/Kg dry	1	J	SW-846 8260C	5/8/18	5/8/18 7:24	MFF
1,3,5-Trimethylbenzene	ND	0.0028	0.00085	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Vinyl Chloride	ND	0.014	0.0016	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
m+p Xylene	ND	0.0057	0.0024	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
o-Xylene	ND	0.0028	0.00099	mg/Kg dry	1		SW-846 8260C	5/8/18	5/8/18 7:24	MFF
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	93.9		70-130				5/8/18 7:24			
Toluene-d8	97.4		70-130				5/8/18 7:24			
4-Bromofluorobenzene	104		70-130				5/8/18 7:24			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-06-5-7

Sampled: 5/2/2018 13:40

Sample ID: 18E0198-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.066	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Acenaphthylene	ND	0.22	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Acetophenone	ND	0.44	0.086	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Aniline	ND	0.44	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Anthracene	ND	0.22	0.063	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Benzidine	ND	0.85	0.55	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Benzo(a)anthracene	ND	0.22	0.058	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Benzo(a)pyrene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Benzo(b)fluoranthene	ND	0.22	0.062	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Benzo(g,h,i)perylene	ND	0.22	0.097	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Benzo(k)fluoranthene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Benzoic Acid	ND	1.3	0.23	mg/Kg dry	1	L-04, V-20	SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Bis(2-chloroethoxy)methane	ND	0.44	0.084	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Bis(2-chloroethyl)ether	ND	0.44	0.086	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Bis(2-chloroisopropyl)ether	ND	0.44	0.094	mg/Kg dry	1	V-20	SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.44	0.17	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
4-Bromophenylphenylether	ND	0.44	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Butylbenzylphthalate	ND	0.44	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Carbazole	ND	0.22	0.057	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
4-Chloroaniline	ND	0.85	0.10	mg/Kg dry	1	V-34	SW-846 8270D	5/11/18	5/14/18 17:55	CDT
4-Chloro-3-methylphenol	ND	0.85	0.094	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2-Chloronaphthalene	ND	0.44	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2-Chlorophenol	ND	0.44	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
4-Chlorophenylphenylether	ND	0.44	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Chrysene	ND	0.22	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Dibenz(a,h)anthracene	ND	0.22	0.13	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Dibenzofuran	ND	0.44	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Di-n-butylphthalate	ND	0.44	0.095	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
1,2-Dichlorobenzene	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
1,3-Dichlorobenzene	ND	0.44	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
1,4-Dichlorobenzene	ND	0.44	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
3,3-Dichlorobenzidine	ND	0.22	0.067	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2,4-Dichlorophenol	ND	0.44	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Diethylphthalate	ND	0.44	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2,4-Dimethylphenol	ND	0.44	0.081	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Dimethylphthalate	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
4,6-Dinitro-2-methylphenol	ND	0.44	0.42	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2,4-Dinitrophenol	ND	0.85	0.25	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2,4-Dinitrotoluene	ND	0.44	0.071	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2,6-Dinitrotoluene	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Di-n-octylphthalate	ND	0.44	0.23	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.44	0.071	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Fluoranthene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Fluorene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-06-5-7

Sampled: 5/2/2018 13:40

Sample ID: 18E0198-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Hexachlorobutadiene	ND	0.44	0.077	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Hexachlorocyclopentadiene	ND	0.44	0.093	mg/Kg dry	1	V-05	SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Hexachloroethane	ND	0.44	0.088	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Indeno(1,2,3-cd)pyrene	ND	0.22	0.16	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Isophorone	ND	0.44	0.085	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
1-Methylnaphthalene	ND	0.22	0.084	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2-Methylnaphthalene	ND	0.22	0.076	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2-Methylphenol	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
3/4-Methylphenol	ND	0.44	0.14	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Naphthalene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2-Nitroaniline	ND	0.44	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
3-Nitroaniline	ND	0.44	0.063	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
4-Nitroaniline	ND	0.44	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Nitrobenzene	ND	0.44	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2-Nitrophenol	ND	0.44	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
4-Nitrophenol	ND	0.85	0.095	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
N-Nitrosodimethylamine	ND	0.44	0.28	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
N-Nitrosodiphenylamine	ND	0.44	0.090	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
N-Nitrosodi-n-propylamine	ND	0.44	0.090	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Pentachloronitrobenzene	ND	0.44	0.10	mg/Kg dry	1	V-16	SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Pentachlorophenol	ND	0.44	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Phenanthrene	ND	0.22	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Phenol	ND	0.44	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Pyrene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Pyridine	ND	0.44	0.071	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.44	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
1,2,4-Trichlorobenzene	ND	0.44	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2,4,5-Trichlorophenol	ND	0.44	0.099	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
2,4,6-Trichlorophenol	ND	0.44	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 17:55	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	67.4		30-130				5/14/18 17:55			
Phenol-d6	70.8		30-130				5/14/18 17:55			
Nitrobenzene-d5	57.9		30-130				5/14/18 17:55			
2-Fluorobiphenyl	52.9		30-130				5/14/18 17:55			
2,4,6-Tribromophenol	58.9		30-130				5/14/18 17:55			
p-Terphenyl-d14	62.8		30-130				5/14/18 17:55			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-06-5-7

Sampled: 5/2/2018 13:40

Sample ID: 18E0198-12

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.060	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:40	KAL
Aroclor-1221 [1]	ND	0.10	0.065	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:40	KAL
Aroclor-1232 [1]	ND	0.10	0.045	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:40	KAL
Aroclor-1242 [1]	ND	0.10	0.050	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:40	KAL
Aroclor-1248 [1]	ND	0.10	0.060	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:40	KAL
Aroclor-1254 [1]	ND	0.10	0.065	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:40	KAL
Aroclor-1260 [1]	ND	0.10	0.070	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:40	KAL
Aroclor-1262 [1]	ND	0.10	0.050	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:40	KAL
Aroclor-1268 [1]	ND	0.10	0.040	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:40	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	81.9		30-150							
Decachlorobiphenyl [2]	94.8		30-150							
Tetrachloro-m-xylene [1]	84.3		30-150							
Tetrachloro-m-xylene [2]	84.7		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-06-5-7

Sampled: 5/2/2018 13:40

Sample ID: 18E0198-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	21000	2.2	2.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 22:47	MJH
Antimony	ND	2.2	1.5	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Arsenic	8.4	2.2	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Barium	210	2.2	1.1	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Beryllium	1.2	0.22	0.16	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Cadmium	0.20	0.22	0.13	mg/Kg dry	1	J	SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Calcium	5900	6.6	4.5	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Chromium	25	0.44	0.27	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Cobalt	11	2.2	1.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Copper	37	0.44	0.38	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Iron	55000	22	19	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 12:07	QNW
Lead	19	0.66	0.39	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Magnesium	4200	6.6	3.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	QNW
Manganese	210	0.44	0.13	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Mercury	0.028	0.033	0.0033	mg/Kg dry	1	J	SW-846 7471B	5/15/18	5/16/18 11:31	EJB
Nickel	25	0.44	0.35	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Potassium	2700	880	320	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 12:07	QNW
Selenium	ND	4.4	3.7	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Silver	ND	0.88	0.52	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 12:12	QNW
Sodium	150	88	33	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Thallium	ND	2.2	1.6	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Vanadium	26	0.88	0.65	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH
Zinc	76	0.88	0.61	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:22	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-06-5-7

Sampled: 5/2/2018 13:40

Sample ID: 18E0198-12

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.63	0.31	mg/Kg dry	1		SW-846 9014	5/10/18	5/11/18 12:30	DJM
% Solids	77.4			% Wt	1		SM 2540G	5/8/18	5/9/18 7:51	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-06-7

Sampled: 5/2/2018 13:45

Sample ID: 18E0198-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	3.2	0.62	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Acrylonitrile	ND	0.32	0.037	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.032	0.0068	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Benzene	ND	0.064	0.0077	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Bromobenzene	ND	0.064	0.0096	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Bromochloromethane	ND	0.064	0.014	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Bromodichloromethane	ND	0.064	0.019	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Bromoform	ND	0.064	0.013	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Bromomethane	ND	0.13	0.060	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
2-Butanone (MEK)	ND	1.3	0.15	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
tert-Butyl Alcohol (TBA)	ND	1.3	0.14	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
n-Butylbenzene	0.37	0.064	0.0096	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
sec-Butylbenzene	0.13	0.064	0.0083	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
tert-Butylbenzene	0.022	0.064	0.0077	mg/Kg dry	1	J	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.032	0.0061	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Carbon Disulfide	ND	0.19	0.065	mg/Kg dry	1	V-05	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Carbon Tetrachloride	ND	0.064	0.016	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Chlorobenzene	ND	0.064	0.010	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Chlorodibromomethane	ND	0.032	0.0067	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Chloroethane	ND	0.13	0.018	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Chloroform	0.033	0.13	0.014	mg/Kg dry	1	J	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Chloromethane	ND	0.13	0.035	mg/Kg dry	1	V-05	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
2-Chlorotoluene	ND	0.064	0.0077	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
4-Chlorotoluene	ND	0.064	0.0090	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.32	0.024	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,2-Dibromoethane (EDB)	ND	0.032	0.0095	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Dibromomethane	ND	0.064	0.010	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,2-Dichlorobenzene	ND	0.064	0.011	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,3-Dichlorobenzene	ND	0.064	0.011	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,4-Dichlorobenzene	ND	0.064	0.0096	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
trans-1,4-Dichloro-2-butene	ND	0.13	0.020	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.13	0.018	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,1-Dichloroethane	ND	0.064	0.010	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,2-Dichloroethane	ND	0.064	0.012	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,1-Dichloroethylene	ND	0.064	0.013	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
cis-1,2-Dichloroethylene	1.3	0.064	0.0094	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
trans-1,2-Dichloroethylene	0.012	0.064	0.0096	mg/Kg dry	1	J	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,2-Dichloropropane	ND	0.064	0.0083	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,3-Dichloropropane	ND	0.032	0.0083	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
2,2-Dichloropropane	ND	0.064	0.014	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,1-Dichloropropene	ND	0.13	0.0082	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
cis-1,3-Dichloropropene	ND	0.032	0.0077	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
trans-1,3-Dichloropropene	ND	0.032	0.0072	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Diethyl Ether	ND	0.13	0.014	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-06-7

Sampled: 5/2/2018 13:45

Sample ID: 18E0198-13

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.032	0.012	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,4-Dioxane	ND	6.4	1.7	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Ethylbenzene	0.020	0.064	0.0083	mg/Kg dry	1	J	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Hexachlorobutadiene	ND	0.064	0.038	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
2-Hexanone (MBK)	ND	0.64	0.097	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Isopropylbenzene (Cumene)	0.044	0.064	0.0077	mg/Kg dry	1	J	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
p-Isopropyltoluene (p-Cymene)	0.12	0.064	0.0096	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Methyl Acetate	0.035	0.64	0.027	mg/Kg dry	1	J	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.064	0.0058	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Methyl Cyclohexane	ND	0.064	0.040	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Methylene Chloride	ND	0.32	0.20	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
4-Methyl-2-pentanone (MIBK)	ND	0.64	0.094	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Naphthalene	0.25	0.13	0.0077	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
n-Propylbenzene	0.12	0.064	0.0083	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Styrene	ND	0.064	0.0096	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,1,1,2-Tetrachloroethane	ND	0.064	0.0076	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,1,2,2-Tetrachloroethane	ND	0.032	0.010	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Tetrachloroethylene	0.25	0.064	0.017	mg/Kg dry	1	L-06	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Tetrahydrofuran	ND	0.64	0.069	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Toluene	ND	0.064	0.011	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,2,3-Trichlorobenzene	ND	0.32	0.0090	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,2,4-Trichlorobenzene	ND	0.064	0.012	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,3,5-Trichlorobenzene	ND	0.064	0.011	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,1,1-Trichloroethane	ND	0.064	0.0084	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,1,2-Trichloroethane	ND	0.064	0.015	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Trichloroethylene	0.054	0.064	0.013	mg/Kg dry	1	J	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Trichlorofluoromethane (Freon 11)	ND	0.13	0.0094	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,2,3-Trichloropropane	ND	0.13	0.014	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.064	0.012	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,2,4-Trimethylbenzene	0.65	0.064	0.012	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
1,3,5-Trimethylbenzene	0.22	0.064	0.0083	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Vinyl Chloride	ND	0.13	0.0085	mg/Kg dry	1		SW-846 8260C	5/7/18	5/15/18 4:53	LBD
m+p Xylene	0.024	0.13	0.016	mg/Kg dry	1	J	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
o-Xylene	0.017	0.064	0.0084	mg/Kg dry	1	J	SW-846 8260C	5/7/18	5/15/18 4:53	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual							
1,2-Dichloroethane-d4	99.4	70-130								
Toluene-d8	101	70-130								
4-Bromofluorobenzene	110	70-130								

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-MW-06-7

Sampled: 5/2/2018 13:45

Sample ID: 18E0198-13

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.8			% Wt	1		SM 2540G	5/9/18	5/10/18 7:25	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-14-9-11

Sampled: 5/2/2018 14:20

Sample ID: 18E0198-14

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	28	5.4	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Acrylonitrile	ND	2.8	0.32	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.28	0.059	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Benzene	ND	0.56	0.067	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Bromobenzene	ND	0.56	0.084	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Bromochloromethane	ND	0.56	0.12	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Bromodichloromethane	ND	0.56	0.16	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Bromoform	ND	0.56	0.12	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Bromomethane	ND	1.1	0.53	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
2-Butanone (MEK)	ND	11	1.3	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
tert-Butyl Alcohol (TBA)	ND	11	1.2	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
n-Butylbenzene	10	0.56	0.084	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
sec-Butylbenzene	4.1	0.56	0.073	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
tert-Butylbenzene	0.46	0.56	0.068	mg/Kg dry	10	J	SW-846 8260C	5/7/18	5/15/18 5:23	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.28	0.053	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Carbon Disulfide	ND	1.7	0.57	mg/Kg dry	10	V-05	SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Carbon Tetrachloride	ND	0.56	0.14	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Chlorobenzene	ND	0.56	0.089	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Chlorodibromomethane	ND	0.28	0.058	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Chloroethane	ND	1.1	0.16	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Chloroform	ND	1.1	0.12	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Chloromethane	ND	1.1	0.31	mg/Kg dry	10	V-05	SW-846 8260C	5/7/18	5/15/18 5:23	LBD
2-Chlorotoluene	ND	0.56	0.067	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
4-Chlorotoluene	ND	0.56	0.078	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.8	0.21	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,2-Dibromoethane (EDB)	ND	0.28	0.083	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Dibromomethane	ND	0.56	0.089	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,2-Dichlorobenzene	ND	0.56	0.095	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,3-Dichlorobenzene	ND	0.56	0.095	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,4-Dichlorobenzene	ND	0.56	0.084	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
trans-1,4-Dichloro-2-butene	ND	1.1	0.17	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Dichlorodifluoromethane (Freon 12)	ND	1.1	0.16	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,1-Dichloroethane	ND	0.56	0.088	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,2-Dichloroethane	ND	0.56	0.11	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,1-Dichloroethylene	ND	0.56	0.12	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
cis-1,2-Dichloroethylene	7.6	0.56	0.082	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
trans-1,2-Dichloroethylene	ND	0.56	0.084	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,2-Dichloropropane	ND	0.56	0.073	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,3-Dichloropropane	ND	0.28	0.073	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
2,2-Dichloropropane	ND	0.56	0.12	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,1-Dichloropropene	ND	1.1	0.072	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
cis-1,3-Dichloropropene	ND	0.28	0.067	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
trans-1,3-Dichloropropene	ND	0.28	0.063	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Diethyl Ether	ND	1.1	0.12	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-14-9-11

Sampled: 5/2/2018 14:20

Sample ID: 18E0198-14

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.28	0.10	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,4-Dioxane	ND	56	15	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Ethylbenzene	1.1	0.56	0.073	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Hexachlorobutadiene	ND	0.56	0.33	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
2-Hexanone (MBK)	ND	5.6	0.85	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Isopropylbenzene (Cumene)	2.0	0.56	0.067	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
p-Isopropyltoluene (p-Cymene)	4.4	0.56	0.084	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Methyl Acetate	ND	5.6	0.23	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.56	0.050	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Methyl Cyclohexane	0.73	0.56	0.35	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Methylene Chloride	ND	2.8	1.8	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.6	0.82	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Naphthalene	7.9	1.1	0.068	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
n-Propylbenzene	5.1	0.56	0.073	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Styrene	ND	0.56	0.084	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,1,1,2-Tetrachloroethane	ND	0.56	0.067	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,1,2,2-Tetrachloroethane	ND	0.28	0.089	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Tetrachloroethylene	0.40	0.56	0.15	mg/Kg dry	10	L-06, J	SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Tetrahydrofuran	ND	5.6	0.60	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Toluene	0.14	0.56	0.095	mg/Kg dry	10	J	SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,2,3-Trichlorobenzene	ND	2.8	0.078	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,2,4-Trichlorobenzene	ND	0.56	0.11	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,3,5-Trichlorobenzene	ND	0.56	0.095	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,1,1-Trichloroethane	ND	0.56	0.073	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,1,2-Trichloroethane	ND	0.56	0.13	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Trichloroethylene	0.35	0.56	0.11	mg/Kg dry	10	J	SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Trichlorofluoromethane (Freon 11)	ND	1.1	0.082	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,2,3-Trichloropropane	ND	1.1	0.12	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.56	0.11	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,2,4-Trimethylbenzene	33	0.56	0.10	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
1,3,5-Trimethylbenzene	13	0.56	0.073	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Vinyl Chloride	ND	1.1	0.074	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
m+p Xylene	2.0	1.1	0.14	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
o-Xylene	1.6	0.56	0.073	mg/Kg dry	10		SW-846 8260C	5/7/18	5/15/18 5:23	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	98.3	70-130				5/15/18 5:23				
Toluene-d8	104	70-130				5/15/18 5:23				
4-Bromofluorobenzene	112	70-130				5/15/18 5:23				

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-14-9-11

Sampled: 5/2/2018 14:20

Sample ID: 18E0198-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	0.055	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Acenaphthylene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Acetophenone	ND	0.36	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Aniline	ND	0.36	0.10	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Anthracene	ND	0.18	0.052	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Benzidine	ND	0.71	0.45	mg/Kg dry	1	V-04, V-05	SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Benzo(a)anthracene	ND	0.18	0.048	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Benzo(a)pyrene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Benzo(b)fluoranthene	ND	0.18	0.051	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Benzo(g,h,i)perylene	ND	0.18	0.080	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Benzo(k)fluoranthene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Benzoic Acid	ND	1.1	0.19	mg/Kg dry	1	L-04, V-20	SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Bis(2-chloroethoxy)methane	ND	0.36	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Bis(2-chloroethyl)ether	ND	0.36	0.072	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Bis(2-chloroisopropyl)ether	ND	0.36	0.078	mg/Kg dry	1	V-20	SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.36	0.14	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
4-Bromophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Butylbenzylphthalate	ND	0.36	0.087	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Carbazole	ND	0.18	0.047	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
4-Chloroaniline	ND	0.71	0.083	mg/Kg dry	1	V-34	SW-846 8270D	5/11/18	5/14/18 18:21	CDT
4-Chloro-3-methylphenol	ND	0.71	0.078	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2-Chloronaphthalene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2-Chlorophenol	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
4-Chlorophenylphenylether	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Chrysene	ND	0.18	0.057	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Dibenz(a,h)anthracene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Dibenzofuran	ND	0.36	0.063	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Di-n-butylphthalate	ND	0.36	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
1,2-Dichlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
1,3-Dichlorobenzene	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
1,4-Dichlorobenzene	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
3,3-Dichlorobenzidine	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2,4-Dichlorophenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Diethylphthalate	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2,4-Dimethylphenol	ND	0.36	0.067	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Dimethylphthalate	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
4,6-Dinitro-2-methylphenol	ND	0.36	0.35	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2,4-Dinitrophenol	ND	0.71	0.21	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2,4-Dinitrotoluene	ND	0.36	0.059	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2,6-Dinitrotoluene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Di-n-octylphthalate	ND	0.36	0.19	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	0.059	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Fluoranthene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Fluorene	ND	0.18	0.059	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-14-9-11

Sampled: 5/2/2018 14:20

Sample ID: 18E0198-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Hexachlorobutadiene	ND	0.36	0.064	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Hexachlorocyclopentadiene	ND	0.36	0.077	mg/Kg dry	1	V-05	SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Hexachloroethane	ND	0.36	0.073	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Indeno(1,2,3-cd)pyrene	ND	0.18	0.13	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Isophorone	ND	0.36	0.071	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
1-Methylnaphthalene	ND	0.18	0.070	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2-Methylnaphthalene	ND	0.18	0.063	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2-Methylphenol	ND	0.36	0.091	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
3/4-Methylphenol	ND	0.36	0.12	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Naphthalene	ND	0.18	0.093	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
3-Nitroaniline	ND	0.36	0.052	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
4-Nitroaniline	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Nitrobenzene	ND	0.36	0.068	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2-Nitrophenol	ND	0.36	0.096	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
4-Nitrophenol	ND	0.71	0.079	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
N-Nitrosodimethylamine	ND	0.36	0.23	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
N-Nitrosodiphenylamine	ND	0.36	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
N-Nitrosodi-n-propylamine	ND	0.36	0.075	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Pentachloronitrobenzene	ND	0.36	0.087	mg/Kg dry	1	V-16	SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Pentachlorophenol	ND	0.36	0.088	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Phenanthrene	ND	0.18	0.094	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Phenol	ND	0.36	0.062	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Pyrene	ND	0.18	0.060	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Pyridine	ND	0.36	0.059	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
1,2,4-Trichlorobenzene	ND	0.36	0.065	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2,4,5-Trichlorophenol	ND	0.36	0.082	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
2,4,6-Trichlorophenol	ND	0.36	0.061	mg/Kg dry	1		SW-846 8270D	5/11/18	5/14/18 18:21	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	70.6		30-130				5/14/18 18:21			
Phenol-d6	75.9		30-130				5/14/18 18:21			
Nitrobenzene-d5	62.8		30-130				5/14/18 18:21			
2-Fluorobiphenyl	56.4		30-130				5/14/18 18:21			
2,4,6-Tribromophenol	67.4		30-130				5/14/18 18:21			
p-Terphenyl-d14	71.3		30-130				5/14/18 18:21			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-14-9-11

Sampled: 5/2/2018 14:20

Sample ID: 18E0198-14

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.021	0.0012	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Aldrin [1]	ND	0.0053	0.00032	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
alpha-BHC [1]	ND	0.0053	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
beta-BHC [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
delta-BHC [1]	ND	0.0053	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
gamma-BHC (Lindane) [1]	ND	0.0021	0.00053	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Chlordane [1]	ND	0.021	0.0061	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
4,4'-DDD [1]	ND	0.0042	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
4,4'-DDE [1]	ND	0.0042	0.00032	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
4,4'-DDT [1]	ND	0.0042	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Dieldrin [1]	ND	0.0042	0.00032	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Endosulfan I [1]	ND	0.0053	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Endosulfan II [1]	ND	0.0085	0.00032	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Endosulfan sulfate [1]	ND	0.0085	0.0014	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Endrin [1]	ND	0.0085	0.00032	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Endrin aldehyde [1]	ND	0.0085	0.0013	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Endrin ketone [1]	ND	0.0085	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Heptachlor [1]	ND	0.0053	0.00053	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Heptachlor epoxide [1]	ND	0.0053	0.00042	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Hexachlorobenzene [1]	ND	0.0064	0.00074	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Methoxychlor [1]	ND	0.053	0.00064	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Toxaphene [1]	ND	0.11	0.046	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 10:50	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	74.9		30-150				5/15/18 10:50			
Decachlorobiphenyl [2]	88.2		30-150				5/15/18 10:50			
Tetrachloro-m-xylene [1]	76.4		30-150				5/15/18 10:50			
Tetrachloro-m-xylene [2]	67.3		30-150				5/15/18 10:50			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-14-9-11

Sampled: 5/2/2018 14:20

Sample ID: 18E0198-14

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	0.051	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:52	KAL
Aroclor-1221 [1]	ND	0.085	0.055	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:52	KAL
Aroclor-1232 [1]	ND	0.085	0.038	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:52	KAL
Aroclor-1242 [1]	ND	0.085	0.042	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:52	KAL
Aroclor-1248 [1]	ND	0.085	0.051	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:52	KAL
Aroclor-1254 [1]	ND	0.085	0.055	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:52	KAL
Aroclor-1260 [1]	ND	0.085	0.059	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:52	KAL
Aroclor-1262 [1]	ND	0.085	0.042	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:52	KAL
Aroclor-1268 [1]	ND	0.085	0.034	mg/Kg dry	4		SW-846 8082A	5/7/18	5/9/18 21:52	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	68.8		30-150							
Decachlorobiphenyl [2]	79.9		30-150							
Tetrachloro-m-xylene [1]	72.9		30-150							
Tetrachloro-m-xylene [2]	72.9		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-14-9-11

Sampled: 5/2/2018 14:20

Sample ID: 18E0198-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	1.8	1.7	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 22:54	MJH
Antimony	ND	1.8	1.2	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Arsenic	5.0	1.8	0.91	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Barium	100	1.8	0.89	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Beryllium	0.79	0.18	0.13	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Cadmium	0.17	0.18	0.11	mg/Kg dry	1	J	SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Calcium	2000	5.4	3.7	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Chromium	23	0.36	0.22	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Cobalt	10	1.8	1.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Copper	41	0.36	0.31	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Iron	31000	18	16	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/17/18 11:52	QNW
Lead	21	0.54	0.32	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Magnesium	5000	5.4	2.9	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	QNW
Manganese	440	0.36	0.11	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Mercury	0.18	0.026	0.0026	mg/Kg dry	1		SW-846 7471B	5/15/18	5/16/18 11:37	EJB
Nickel	28	0.36	0.29	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Potassium	2800	720	260	mg/Kg dry	10		SW-846 6010C-D	5/14/18	5/16/18 12:17	QNW
Selenium	ND	3.6	3.0	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Silver	ND	0.72	0.42	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/14/18	5/16/18 12:22	QNW
Sodium	100	72	27	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Thallium	ND	1.8	1.3	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Vanadium	21	0.72	0.54	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH
Zinc	82	0.72	0.50	mg/Kg dry	1		SW-846 6010C-D	5/14/18	5/15/18 17:27	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-14-9-11

Sampled: 5/2/2018 14:20

Sample ID: 18E0198-14

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.51	0.25	mg/Kg dry	1		SW-846 9014	5/10/18	5/11/18 12:30	DJM
% Solids	92.6			% Wt	1		SM 2540G	5/9/18	5/10/18 7:25	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-14-GW-GRAB

Sampled: 5/2/2018 14:30

Sample ID: 18E0198-15

Sample Matrix: Ground Water

Sample Flags: PR-07, RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5000	970	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Acrylonitrile	ND	500	58	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
tert-Amyl Methyl Ether (TAME)	ND	50	11	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Benzene	ND	100	12	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Bromobenzene	ND	100	15	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Bromochloromethane	ND	100	22	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Bromodichloromethane	ND	50	30	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Bromoform	ND	100	21	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Bromomethane	ND	200	94	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
2-Butanone (MEK)	ND	2000	240	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
tert-Butyl Alcohol (TBA)	ND	2000	220	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
n-Butylbenzene	ND	100	15	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
sec-Butylbenzene	ND	100	13	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
tert-Butylbenzene	ND	100	12	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	50	9.5	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Carbon Disulfide	ND	400	100	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Carbon Tetrachloride	ND	500	25	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Chlorobenzene	ND	100	16	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Chlorodibromomethane	ND	50	10	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Chloroethane	ND	200	28	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Chloroform	ND	200	22	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Chloromethane	ND	200	55	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
2-Chlorotoluene	ND	100	12	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
4-Chlorotoluene	ND	100	14	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	37	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,2-Dibromoethane (EDB)	ND	50	15	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Dibromomethane	ND	100	16	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,2-Dichlorobenzene	ND	100	17	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,3-Dichlorobenzene	ND	100	17	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,4-Dichlorobenzene	ND	100	15	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
trans-1,4-Dichloro-2-butene	ND	200	31	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Dichlorodifluoromethane (Freon 12)	ND	200	28	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,1-Dichloroethane	ND	100	16	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,2-Dichloroethane	ND	100	19	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,1-Dichloroethylene	ND	100	21	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
cis-1,2-Dichloroethylene	9600	100	15	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
trans-1,2-Dichloroethylene	ND	100	15	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,2-Dichloropropane	ND	100	13	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,3-Dichloropropane	ND	50	13	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
2,2-Dichloropropane	ND	100	21	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,1-Dichloropropene	ND	200	13	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
cis-1,3-Dichloropropene	ND	50	12	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
trans-1,3-Dichloropropene	ND	50	11	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Diethyl Ether	ND	200	22	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-SB-14-GW-GRAB

Sampled: 5/2/2018 14:30

Sample ID: 18E0198-15

Sample Matrix: Ground Water

Sample Flags: PR-07, RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	50	18	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,4-Dioxane	ND	10000	2600	µg/L	100	V-05	SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Ethylbenzene	ND	100	13	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Hexachlorobutadiene	ND	100	59	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
2-Hexanone (MBK)	ND	1000	150	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Isopropylbenzene (Cumene)	ND	100	12	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
p-Isopropyltoluene (p-Cymene)	ND	100	15	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Methyl Acetate	ND	100	42	µg/L	100	L-04	SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Methyl tert-Butyl Ether (MTBE)	ND	100	9.0	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Methyl Cyclohexane	ND	100	63	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Methylene Chloride	ND	500	320	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
4-Methyl-2-pentanone (MIBK)	ND	1000	150	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Naphthalene	ND	200	12	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
n-Propylbenzene	ND	100	13	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Styrene	ND	100	15	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,1,1,2-Tetrachloroethane	ND	100	12	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,1,2,2-Tetrachloroethane	ND	50	16	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Tetrachloroethylene	ND	100	27	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Tetrahydrofuran	ND	1000	110	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Toluene	ND	100	17	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,2,3-Trichlorobenzene	ND	500	14	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,2,4-Trichlorobenzene	ND	100	19	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,3,5-Trichlorobenzene	ND	100	17	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,1,1-Trichloroethane	ND	100	13	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,1,2-Trichloroethane	ND	100	24	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Trichloroethylene	76	100	20	µg/L	100	J	SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Trichlorofluoromethane (Freon 11)	ND	200	15	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,2,3-Trichloropropane	ND	200	22	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	20	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,2,4-Trimethylbenzene	82	100	18	µg/L	100	J	SW-846 8260C	5/15/18	5/15/18 14:46	LBD
1,3,5-Trimethylbenzene	43	100	13	µg/L	100	J	SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Vinyl Chloride	37	200	13	µg/L	100	J	SW-846 8260C	5/15/18	5/15/18 14:46	LBD
m+p Xylene	ND	200	26	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
o-Xylene	ND	100	13	µg/L	100		SW-846 8260C	5/15/18	5/15/18 14:46	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	94.4		70-130				5/15/18 14:46			
Toluene-d8	98.2		70-130				5/15/18 14:46			
4-Bromofluorobenzene	100		70-130				5/15/18 14:46			

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-FD-01-PEST

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-16

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.023	0.0013	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Aldrin [1]	ND	0.0057	0.00034	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
alpha-BHC [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
beta-BHC [1]	ND	0.0057	0.00057	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
delta-BHC [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
gamma-BHC (Lindane) [1]	ND	0.0023	0.00057	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Chlordane [1]	ND	0.023	0.0066	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
4,4'-DDD [2]	0.0012	0.0046	0.00046	mg/Kg dry	1	J	SW-846 8081B	5/7/18	5/15/18 11:17	TG
4,4'-DDE [1]	0.0012	0.0046	0.00034	mg/Kg dry	1	P-02, J	SW-846 8081B	5/7/18	5/15/18 11:17	TG
4,4'-DDT [1]	0.0012	0.0046	0.00046	mg/Kg dry	1	J	SW-846 8081B	5/7/18	5/15/18 11:17	TG
Dieldrin [1]	ND	0.0046	0.00034	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Endosulfan I [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Endosulfan II [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Endosulfan sulfate [1]	ND	0.0091	0.0015	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Endrin [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Endrin aldehyde [1]	ND	0.0091	0.0014	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Endrin ketone [1]	ND	0.0091	0.00046	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Heptachlor [1]	ND	0.0057	0.00057	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Heptachlor epoxide [1]	ND	0.0057	0.00046	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Hexachlorobenzene [1]	ND	0.0068	0.00080	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Methoxychlor [1]	ND	0.057	0.00068	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Toxaphene [1]	ND	0.11	0.049	mg/Kg dry	1		SW-846 8081B	5/7/18	5/15/18 11:17	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	78.1		30-150				5/15/18 11:17			
Decachlorobiphenyl [2]	69.5		30-150				5/15/18 11:17			
Tetrachloro-m-xylene [1]	71.3		30-150				5/15/18 11:17			
Tetrachloro-m-xylene [2]	60.2		30-150				5/15/18 11:17			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-FD-01-PEST

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-16

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8			% Wt	1		SM 2540G	5/9/18	5/10/18 7:26	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-RB-5-2-2018

Sampled: 5/2/2018 15:30

Sample ID: 18E0198-17

Sample Matrix: Field Blank

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-RB-5-2-2018

Sampled: 5/2/2018 15:30

Sample ID: 18E0198-17

Sample Matrix: Field Blank

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,4-Dioxane	ND	100	26	µg/L	1	V-05	SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Hexachlorobutadiene	ND	1.0	0.59	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1	L-04	SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Tetrachloroethylene	0.59	1.0	0.27	µg/L	1	J	SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 12:43	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	93.9		70-130				5/15/18 12:43			
Toluene-d8	98.5		70-130				5/15/18 12:43			
4-Bromofluorobenzene	100		70-130				5/15/18 12:43			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-RB-5-2-2018

Sampled: 5/2/2018 15:30

Sample ID: 18E0198-17

Sample Matrix: Field Blank

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Acenaphthylene	ND	5.0	1.4	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Acetophenone	ND	10	1.7	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Aniline	ND	5.0	2.5	µg/L	1	V-05	SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Anthracene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Benzidine	ND	20	9.7	µg/L	1	R-05, V-04, V-05	SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Benzo(a)anthracene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Benzo(a)pyrene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Benzo(b)fluoranthene	ND	5.0	1.2	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Benzo(g,h,i)perylene	ND	5.0	2.2	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Benzo(k)fluoranthene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Benzoic Acid	ND	10	2.0	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Bis(2-chloroethoxy)methane	ND	10	1.8	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Bis(2-chloroethyl)ether	ND	10	1.7	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Bis(2-chloroisopropyl)ether	ND	10	2.2	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	2.0	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
4-Bromophenylphenylether	ND	10	1.4	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Butylbenzylphthalate	ND	10	1.9	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Carbazole	ND	10	1.6	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
4-Chloroaniline	ND	10	1.5	µg/L	1	V-34	SW-846 8270D	5/9/18	5/11/18 19:50	BGL
4-Chloro-3-methylphenol	ND	10	1.4	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2-Chloronaphthalene	ND	10	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2-Chlorophenol	ND	10	1.2	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
4-Chlorophenylphenylether	ND	10	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Chrysene	ND	5.0	1.4	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Dibenz(a,h)anthracene	ND	5.0	2.0	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Dibenzofuran	ND	5.0	1.4	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Di-n-butylphthalate	ND	10	1.8	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
1,2-Dichlorobenzene	ND	5.0	1.3	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
1,3-Dichlorobenzene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
1,4-Dichlorobenzene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
3,3-Dichlorobenzidine	ND	10	2.3	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2,4-Dichlorophenol	ND	10	1.4	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Diethylphthalate	ND	10	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2,4-Dimethylphenol	ND	10	3.7	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Dimethylphthalate	ND	10	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
4,6-Dinitro-2-methylphenol	ND	10	2.0	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2,4-Dinitrophenol	ND	10	3.4	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2,4-Dinitrotoluene	ND	10	1.8	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2,6-Dinitrotoluene	ND	10	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Di-n-octylphthalate	ND	10	2.1	µg/L	1	V-20	SW-846 8270D	5/9/18	5/11/18 19:50	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.6	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Fluoranthene	ND	5.0	1.8	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Fluorene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-RB-5-2-2018

Sampled: 5/2/2018 15:30

Sample ID: 18E0198-17

Sample Matrix: Field Blank

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Hexachlorobutadiene	ND	10	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Hexachlorocyclopentadiene	ND	10	1.9	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Hexachloroethane	ND	10	1.6	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	2.1	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Isophorone	ND	10	1.9	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
1-Methylnaphthalene	ND	5.0	1.8	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2-Methylnaphthalene	ND	5.0	1.6	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2-Methylphenol	ND	10	1.4	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
3/4-Methylphenol	ND	10	1.1	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Naphthalene	ND	5.0	1.7	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2-Nitroaniline	ND	10	2.2	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
3-Nitroaniline	ND	10	2.0	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
4-Nitroaniline	ND	10	1.9	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Nitrobenzene	ND	10	1.6	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2-Nitrophenol	ND	10	1.6	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
4-Nitrophenol	ND	10	1.0	µg/L	1	V-05	SW-846 8270D	5/9/18	5/11/18 19:50	BGL
N-Nitrosodimethylamine	ND	10	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
N-Nitrosodi-n-propylamine	ND	10	1.7	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Pentachloronitrobenzene	ND	10	1.7	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Pentachlorophenol	ND	10	1.1	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Phenanthrene	ND	5.0	1.4	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Phenol	ND	10	1.0	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Pyrene	ND	5.0	1.6	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Pyridine	ND	5.0	2.1	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	1.6	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
1,2,4-Trichlorobenzene	ND	5.0	1.6	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2,4,5-Trichlorophenol	ND	10	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
2,4,6-Trichlorophenol	ND	10	1.5	µg/L	1		SW-846 8270D	5/9/18	5/11/18 19:50	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	49.2		15-110				5/11/18 19:50			
Phenol-d6	35.0		15-110				5/11/18 19:50			
Nitrobenzene-d5	64.8		30-130				5/11/18 19:50			
2-Fluorobiphenyl	55.6		30-130				5/11/18 19:50			
2,4,6-Tribromophenol	67.1		15-110				5/11/18 19:50			
p-Terphenyl-d14	63.3		30-130				5/11/18 19:50			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-RB-5-2-2018

Sampled: 5/2/2018 15:30

Sample ID: 18E0198-17

Sample Matrix: Field Blank

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	0.025	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Aldrin [1]	ND	0.050	0.0024	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
alpha-BHC [1]	ND	0.050	0.0032	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
beta-BHC [1]	ND	0.050	0.024	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
delta-BHC [1]	ND	0.050	0.029	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
gamma-BHC (Lindane) [1]	ND	0.030	0.0025	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Chlordane [1]	ND	0.20	0.11	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
4,4'-DDD [1]	ND	0.040	0.0018	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
4,4'-DDE [1]	ND	0.040	0.0016	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
4,4'-DDT [1]	ND	0.040	0.0024	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Dieldrin [1]	ND	0.0020	0.0020	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Endosulfan I [1]	ND	0.050	0.0021	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Endosulfan II [1]	ND	0.079	0.0028	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Endosulfan sulfate [1]	ND	0.079	0.0025	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Endrin [1]	ND	0.079	0.0015	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Endrin aldehyde [1]	ND	0.079	0.062	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Endrin ketone [1]	ND	0.079	0.0018	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Heptachlor [1]	ND	0.050	0.0045	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Heptachlor epoxide [1]	ND	0.050	0.0018	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Hexachlorobenzene [1]	ND	0.050	0.0041	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Methoxychlor [1]	ND	0.50	0.0032	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Toxaphene [2]	ND	0.99	0.20	µg/L	1		SW-846 8081B	5/6/18	5/9/18 5:21	TG
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
Decachlorobiphenyl [1]	49.8	30-150				5/9/18 5:21				
Decachlorobiphenyl [2]	56.6	30-150				5/9/18 5:21				
Tetrachloro-m-xylene [1]	64.6	30-150				5/9/18 5:21				
Tetrachloro-m-xylene [2]	71.7	30-150				5/9/18 5:21				

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-RB-5-2-2018

Sampled: 5/2/2018 15:30

Sample ID: 18E0198-17

Sample Matrix: Field Blank

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.18	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:43	JMB
Aroclor-1221 [1]	ND	0.20	0.16	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:43	JMB
Aroclor-1232 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:43	JMB
Aroclor-1242 [1]	ND	0.20	0.17	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:43	JMB
Aroclor-1248 [1]	ND	0.20	0.19	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:43	JMB
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:43	JMB
Aroclor-1260 [1]	ND	0.20	0.19	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:43	JMB
Aroclor-1262 [1]	ND	0.20	0.14	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:43	JMB
Aroclor-1268 [1]	ND	0.20	0.12	µg/L	1		SW-846 8082A	5/6/18	5/12/18 2:43	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	52.5		30-150				5/12/18 2:43			
Decachlorobiphenyl [2]	67.1		30-150				5/12/18 2:43			
Tetrachloro-m-xylene [1]	72.6		30-150				5/12/18 2:43			
Tetrachloro-m-xylene [2]	77.9		30-150				5/12/18 2:43			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-RB-5-2-2018

Sampled: 5/2/2018 15:30

Sample ID: 18E0198-17

Sample Matrix: Field Blank

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.037	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Antimony	ND	0.050	0.031	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Arsenic	ND	0.010	0.0080	mg/L	1		SW-846 6010C-D	5/15/18	5/17/18 9:21	QNW
Barium	ND	0.050	0.0053	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Beryllium	ND	0.0040	0.0017	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Cadmium	ND	0.0040	0.00090	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Calcium	0.19	0.15	0.11	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Chromium	ND	0.010	0.0061	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Cobalt	ND	0.050	0.0080	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Copper	ND	0.010	0.0028	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Iron	0.28	0.050	0.040	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Magnesium	ND	0.15	0.026	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Manganese	0.0028	0.010	0.0020	mg/L	1	J	SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	5/11/18	5/14/18 14:52	EJB
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Potassium	ND	2.0	0.32	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Selenium	ND	0.050	0.034	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Silver	ND	0.0050	0.0049	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Sodium	0.75	2.0	0.28	mg/L	1	J	SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Thallium	ND	0.050	0.040	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Vanadium	ND	0.010	0.0047	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH
Zinc	ND	0.020	0.0052	mg/L	1		SW-846 6010C-D	5/15/18	5/16/18 18:44	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: 401075-RB-5-2-2018

Sampled: 5/2/2018 15:30

Sample ID: 18E0198-17

Sample Matrix: Field Blank

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0080	mg/L	1		SW-846 9014	5/7/18	5/8/18 12:45	DJM

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: Trip Blank

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-18

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
tert-Butyl Alcohol (TBA)	3.4	20	2.2	µg/L	1	J	SW-846 8260C	5/15/18	5/15/18 13:13	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0198

Date Received: 5/3/2018

Field Sample #: Trip Blank

Sampled: 5/2/2018 00:00

Sample ID: 18E0198-18

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,4-Dioxane	ND	100	26	µg/L	1	V-05	SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Hexachlorobutadiene	ND	1.0	0.59	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1	L-04	SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/15/18	5/15/18 13:13	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	94.8	70-130		5/15/18 13:13						
Toluene-d8	98.8	70-130		5/15/18 13:13						
4-Bromofluorobenzene	99.7	70-130		5/15/18 13:13						

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18E0198-12 [401075-MW-06-5-7]	B202802	05/08/18

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18E0198-01 [401075-SB-07-3-6]	B202903	05/09/18
18E0198-02 [401075-SB-15-6-7.5]	B202903	05/09/18
18E0198-03 [401075-SB-06-6-9]	B202903	05/09/18
18E0198-05 [401075-SB-02-3-6]	B202903	05/09/18
18E0198-06 [401075-SB-FD-01]	B202903	05/09/18
18E0198-09 [401075-MW-01-3-6]	B202903	05/09/18
18E0198-10 [401075-FD-01]	B202903	05/09/18
18E0198-11 [401075-MW-01-8-8.5]	B202903	05/09/18
18E0198-13 [401075-MW-06-7]	B202903	05/09/18
18E0198-14 [401075-SB-14-9-11]	B202903	05/09/18
18E0198-16 [401075-FD-01-PEST]	B202903	05/09/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-02 [401075-SB-15-6-7.5]	B203328	1.46	50.0	05/14/18
18E0198-03 [401075-SB-06-6-9]	B203328	1.42	50.0	05/14/18
18E0198-05 [401075-SB-02-3-6]	B203328	1.42	50.0	05/14/18
18E0198-06 [401075-SB-FD-01]	B203328	1.51	50.0	05/14/18
18E0198-09 [401075-MW-01-3-6]	B203328	1.47	50.0	05/14/18
18E0198-12 [401075-MW-06-5-7]	B203328	1.46	50.0	05/14/18
18E0198-14 [401075-SB-14-9-11]	B203328	1.50	50.0	05/14/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-02 [401075-SB-15-6-7.5]	B203423	1.46	50.0	05/14/18
18E0198-03 [401075-SB-06-6-9]	B203423	1.42	50.0	05/14/18
18E0198-05 [401075-SB-02-3-6]	B203423	1.42	50.0	05/14/18
18E0198-06 [401075-SB-FD-01]	B203423	1.51	50.0	05/14/18
18E0198-09 [401075-MW-01-3-6]	B203423	1.47	50.0	05/14/18
18E0198-12 [401075-MW-06-5-7]	B203423	1.46	50.0	05/14/18
18E0198-14 [401075-SB-14-9-11]	B203423	1.50	50.0	05/14/18

Prep Method: SW-846 3051-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-01RE1 [401075-SB-07-3-6]	B203510	1.52	50.0	05/16/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-02 [401075-SB-15-6-7.5]	B203543	1.46	50.0	05/14/18
18E0198-03 [401075-SB-06-6-9]	B203543	1.42	50.0	05/14/18

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Sample Extraction Data**Prep Method: SW-846 3050B-SW-846 6010C-D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-05 [401075-SB-02-3-6]	B203543	1.42	50.0	05/14/18
18E0198-06 [401075-SB-FD-01]	B203543	1.51	50.0	05/14/18
18E0198-09 [401075-MW-01-3-6]	B203543	1.47	50.0	05/14/18
18E0198-12 [401075-MW-06-5-7]	B203543	1.46	50.0	05/14/18
18E0198-14 [401075-SB-14-9-11]	B203543	1.50	50.0	05/14/18

Prep Method: SW-846 3005A-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0198-17 [401075-RB-5-2-2018]	B203412	50.0	50.0	05/15/18

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0198-17 [401075-RB-5-2-2018]	B203074	6.00	6.00	05/11/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-01 [401075-SB-07-3-6]	B203421	0.620	50.0	05/15/18
18E0198-02 [401075-SB-15-6-7.5]	B203421	0.641	50.0	05/15/18
18E0198-03 [401075-SB-06-6-9]	B203421	0.653	50.0	05/15/18
18E0198-05 [401075-SB-02-3-6]	B203421	0.605	50.0	05/15/18
18E0198-06 [401075-SB-FD-01]	B203421	0.618	50.0	05/15/18
18E0198-09 [401075-MW-01-3-6]	B203421	0.582	50.0	05/15/18
18E0198-12 [401075-MW-06-5-7]	B203421	0.585	50.0	05/15/18
18E0198-14 [401075-SB-14-9-11]	B203421	0.633	50.0	05/15/18

Prep Method: SW-846 3580A-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-04 [401075-SB-06-GW-GRAB]	B202854	0.102	10.0	05/08/18

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-01 [401075-SB-07-3-6]	B202680	10.0	10.0	05/07/18
18E0198-09 [401075-MW-01-3-6]	B202680	10.2	10.0	05/07/18
18E0198-14 [401075-SB-14-9-11]	B202680	10.2	10.0	05/07/18
18E0198-16 [401075-FD-01-PEST]	B202680	10.1	10.0	05/07/18

Prep Method: SW-846 3510C-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0198-17 [401075-RB-5-2-2018]	B202646	1010	10.0	05/06/18

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-01 [401075-SB-07-3-6]	B202679	10.0	10.0	05/07/18
18E0198-02 [401075-SB-15-6-7.5]	B202679	10.0	10.0	05/07/18
18E0198-03 [401075-SB-06-6-9]	B202679	10.3	10.0	05/07/18
18E0198-05 [401075-SB-02-3-6]	B202679	10.4	10.0	05/07/18
18E0198-06 [401075-SB-FD-01]	B202679	10.5	10.0	05/07/18
18E0198-09 [401075-MW-01-3-6]	B202679	10.2	10.0	05/07/18
18E0198-12 [401075-MW-06-5-7]	B202679	10.3	10.0	05/07/18
18E0198-14 [401075-SB-14-9-11]	B202679	10.2	10.0	05/07/18

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0198-17 [401075-RB-5-2-2018]	B202647	1020	10.0	05/06/18

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18E0198-04 [401075-SB-06-GW-GRAB]	B202827	0.650	15.0	0.005	50	05/08/18

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18E0198-03 [401075-SB-06-6-9]	B202587	14.9	17.9	0.05	50	05/07/18
18E0198-13 [401075-MW-06-7]	B202587	14.6	16.6	1	50	05/07/18
18E0198-14 [401075-SB-14-9-11]	B202587	15.6	16.2	0.1	50	05/07/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-01 [401075-SB-07-3-6]	B202661	5.34	10.0	05/04/18
18E0198-02 [401075-SB-15-6-7.5]	B202661	5.37	10.0	05/04/18
18E0198-05 [401075-SB-02-3-6]	B202661	5.22	10.0	05/04/18
18E0198-09 [401075-MW-01-3-6]	B202661	5.62	10.0	05/04/18
18E0198-10 [401075-FD-01]	B202661	5.07	10.0	05/04/18
18E0198-11 [401075-MW-01-8-8.5]	B202661	5.32	10.0	05/04/18

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18E0198-05 [401075-SB-02-3-6]	B202713	6.02	6.59	1	50	05/07/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-12 [401075-MW-06-5-7]	B202806	4.56	10.0	05/08/18

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Sample Extraction Data

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0198-07 [401075-SB-02-GW-GRAB]	B203365	0.025	5.00	05/15/18
18E0198-08 [401075-SB-FD-GW-01]	B203365	0.025	5.00	05/15/18
18E0198-15 [401075-SB-14-GW-GRAB]	B203365	0.05	5.00	05/15/18
18E0198-17 [401075-RB-5-2-2018]	B203365	5	5.00	05/15/18
18E0198-18 [Trip Blank]	B203365	5	5.00	05/15/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-01 [401075-SB-07-3-6]	B203135	30.6	1.00	05/11/18
18E0198-02 [401075-SB-15-6-7.5]	B203135	30.0	1.00	05/11/18
18E0198-03 [401075-SB-06-6-9]	B203135	30.1	1.00	05/11/18
18E0198-03RE1 [401075-SB-06-6-9]	B203135	30.1	1.00	05/11/18
18E0198-05 [401075-SB-02-3-6]	B203135	30.3	1.00	05/11/18
18E0198-06 [401075-SB-FD-01]	B203135	30.6	1.00	05/11/18
18E0198-09 [401075-MW-01-3-6]	B203135	30.3	1.00	05/11/18
18E0198-12 [401075-MW-06-5-7]	B203135	30.1	1.00	05/11/18
18E0198-14 [401075-SB-14-9-11]	B203135	30.3	1.00	05/11/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0198-17 [401075-RB-5-2-2018]	B202931	1000	1.00	05/09/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0198-01 [401075-SB-07-3-6]	B203031	1.14	50.0	05/10/18
18E0198-02 [401075-SB-15-6-7.5]	B203031	1.35	50.0	05/10/18
18E0198-03 [401075-SB-06-6-9]	B203031	1.33	50.0	05/10/18
18E0198-05 [401075-SB-02-3-6]	B203031	1.46	50.0	05/10/18
18E0198-06 [401075-SB-FD-01]	B203031	1.20	50.0	05/10/18
18E0198-09 [401075-MW-01-3-6]	B203031	1.05	50.0	05/10/18
18E0198-12 [401075-MW-06-5-7]	B203031	1.03	50.0	05/10/18
18E0198-14 [401075-SB-14-9-11]	B203031	1.05	50.0	05/10/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0198-17 [401075-RB-5-2-2018]	B202758	50.0	50.0	05/07/18

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202587 - SW-846 5035										
Blank (B202587-BLK1)				Prepared: 05/04/18 Analyzed: 05/14/18						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							V-05
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							V-05
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	5.0	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl Acetate	ND	0.50	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202587 - SW-846 5035

Blank (B202587-BLK1)

Prepared: 05/04/18 Analyzed: 05/14/18

Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methyl Cyclohexane	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0245		mg/Kg wet	0.0250		98.0	70-130			
Surrogate: Toluene-d8	0.0257		mg/Kg wet	0.0250		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0259		mg/Kg wet	0.0250		104	70-130			

LCS (B202587-BS1)

Prepared: 05/04/18 Analyzed: 05/14/18

Acetone	0.133	0.057	mg/Kg wet	0.113		118	70-160			†
Acrylonitrile	0.0131	0.0057	mg/Kg wet	0.0113		115	70-130			
tert-Amyl Methyl Ether (TAME)	0.0131	0.00057	mg/Kg wet	0.0113		116	70-130			
Benzene	0.0141	0.0011	mg/Kg wet	0.0113		124	70-130			
Bromobenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
Bromochloromethane	0.0164	0.0011	mg/Kg wet	0.0113		145 *	70-130		L-02, V-20	
Bromodichloromethane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
Bromoform	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130			
Bromomethane	0.00851	0.0023	mg/Kg wet	0.0113		75.1	40-130			†
2-Butanone (MEK)	0.124	0.023	mg/Kg wet	0.113		110	70-160			†
tert-Butyl Alcohol (TBA)	0.143	0.023	mg/Kg wet	0.113		126	40-130		V-20	†
n-Butylbenzene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
sec-Butylbenzene	0.0111	0.0011	mg/Kg wet	0.0113		98.1	70-130			
tert-Butylbenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.9	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0125	0.00057	mg/Kg wet	0.0113		110	70-130			
Carbon Disulfide	0.0149	0.0034	mg/Kg wet	0.0113		132 *	70-130		L-07, V-05	
Carbon Tetrachloride	0.0156	0.0011	mg/Kg wet	0.0113		138 *	70-130		L-02	
Chlorobenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Chlorodibromomethane	0.0142	0.00057	mg/Kg wet	0.0113		126	70-130			
Chloroethane	0.0118	0.0023	mg/Kg wet	0.0113		104	70-130			
Chloroform	0.0146	0.0023	mg/Kg wet	0.0113		129	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202587 - SW-846 5035										
LCS (B202587-BS1)										
					Prepared: 05/04/18 Analyzed: 05/14/18					
Chloromethane	0.00918	0.0023	mg/Kg wet	0.0113		81.0	70-130			V-05
2-Chlorotoluene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
4-Chlorotoluene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0110	0.0057	mg/Kg wet	0.0113		96.8	70-130			
1,2-Dibromoethane (EDB)	0.0146	0.00057	mg/Kg wet	0.0113		128	70-130			
Dibromomethane	0.0142	0.0011	mg/Kg wet	0.0113		125	70-130			
1,2-Dichlorobenzene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,3-Dichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
1,4-Dichlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
trans-1,4-Dichloro-2-butene	0.0110	0.0023	mg/Kg wet	0.0113		97.1	70-130			
Dichlorodifluoromethane (Freon 12)	0.00585	0.0023	mg/Kg wet	0.0113		51.6	40-160			V-34 †
1,1-Dichloroethane	0.0142	0.0011	mg/Kg wet	0.0113		126	70-130			
1,2-Dichloroethane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,1-Dichloroethylene	0.0143	0.0011	mg/Kg wet	0.0113		126	70-130			
cis-1,2-Dichloroethylene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
trans-1,2-Dichloroethylene	0.0137	0.0011	mg/Kg wet	0.0113		121	70-130			
1,2-Dichloropropane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,3-Dichloropropane	0.0134	0.00057	mg/Kg wet	0.0113		118	70-130			
2,2-Dichloropropane	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
1,1-Dichloropropene	0.0144	0.0023	mg/Kg wet	0.0113		127	70-130			
cis-1,3-Dichloropropene	0.0126	0.00057	mg/Kg wet	0.0113		111	70-130			
trans-1,3-Dichloropropene	0.0134	0.00057	mg/Kg wet	0.0113		118	70-130			
Diethyl Ether	0.0135	0.0023	mg/Kg wet	0.0113		119	70-130			
Diisopropyl Ether (DIPE)	0.0121	0.00057	mg/Kg wet	0.0113		106	70-130			
1,4-Dioxane	0.122	0.11	mg/Kg wet	0.113		108	40-160			†
Ethylbenzene	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130			
Hexachlorobutadiene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-160			
2-Hexanone (MBK)	0.124	0.011	mg/Kg wet	0.113		109	70-160			†
Isopropylbenzene (Cumene)	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
p-Isopropyltoluene (p-Cymene)	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
Methyl Acetate	0.00976	0.011	mg/Kg wet	0.0113		86.1	70-130			J
Methyl tert-Butyl Ether (MTBE)	0.0143	0.0011	mg/Kg wet	0.0113		126	70-130			
Methyl Cyclohexane	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
Methylene Chloride	0.0119	0.0057	mg/Kg wet	0.0113		105	40-160			†
4-Methyl-2-pentanone (MIBK)	0.118	0.011	mg/Kg wet	0.113		104	70-160			†
Naphthalene	0.0101	0.0023	mg/Kg wet	0.0113		89.0	40-130			†
n-Propylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Styrene	0.0124	0.0011	mg/Kg wet	0.0113		110	70-130			
1,1,1,2-Tetrachloroethane	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
1,1,2,2-Tetrachloroethane	0.0111	0.00057	mg/Kg wet	0.0113		98.1	70-130			
Tetrachloroethylene	0.0150	0.0011	mg/Kg wet	0.0113		132	* 70-130			L-06
Tetrahydrofuran	0.0118	0.011	mg/Kg wet	0.0113		104	70-130			
Toluene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,2,3-Trichlorobenzene	0.0107	0.0057	mg/Kg wet	0.0113		94.2	70-130			
1,2,4-Trichlorobenzene	0.0103	0.0011	mg/Kg wet	0.0113		91.1	70-130			
1,3,5-Trichlorobenzene	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1,1-Trichloroethane	0.0148	0.0011	mg/Kg wet	0.0113		131	* 70-130			L-07
1,1,2-Trichloroethane	0.0141	0.0011	mg/Kg wet	0.0113		124	70-130			
Trichloroethylene	0.0152	0.0011	mg/Kg wet	0.0113		134	* 70-130			L-07
Trichlorofluoromethane (Freon 11)	0.0122	0.0023	mg/Kg wet	0.0113		107	70-130			
1,2,3-Trichloropropane	0.0130	0.0023	mg/Kg wet	0.0113		115	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202587 - SW-846 5035										
LCS (B202587-BS1)										
					Prepared: 05/04/18 Analyzed: 05/14/18					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130			V-20
1,2,4-Trimethylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
1,3,5-Trimethylbenzene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130			
Vinyl Chloride	0.0114	0.0023	mg/Kg wet	0.0113		101	40-130			†
m+p Xylene	0.0246	0.0023	mg/Kg wet	0.0227		109	70-130			
o-Xylene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0278		mg/Kg wet	0.0283		98.0	70-130			
Surrogate: Toluene-d8	0.0288		mg/Kg wet	0.0283		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0298		mg/Kg wet	0.0283		105	70-130			
LCS Dup (B202587-BSD1)										
					Prepared: 05/04/18 Analyzed: 05/14/18					
Acetone	0.115	0.057	mg/Kg wet	0.113		102	70-160	14.3	25	†
Acrylonitrile	0.0121	0.0057	mg/Kg wet	0.0113		106	70-130	7.85	25	
tert-Amyl Methyl Ether (TAME)	0.0131	0.00057	mg/Kg wet	0.0113		116	70-130	0.173	25	
Benzene	0.0140	0.0011	mg/Kg wet	0.0113		124	70-130	0.323	25	
Bromobenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	3.00	25	
Bromochloromethane	0.0168	0.0011	mg/Kg wet	0.0113		148	* 70-130	2.11	25	V-20, L-02
Bromodichloromethane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130	0.0841	25	
Bromoform	0.0133	0.0011	mg/Kg wet	0.0113		117	70-130	0.511	25	
Bromomethane	0.0101	0.0023	mg/Kg wet	0.0113		89.3	40-130	17.3	25	†
2-Butanone (MEK)	0.119	0.023	mg/Kg wet	0.113		105	70-160	4.09	25	†
tert-Butyl Alcohol (TBA)	0.132	0.023	mg/Kg wet	0.113		117	40-130	8.13	25	V-20 †
n-Butylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130	2.26	25	
sec-Butylbenzene	0.0107	0.0011	mg/Kg wet	0.0113		94.6	70-130	3.63	25	
tert-Butylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-160	2.69	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0125	0.00057	mg/Kg wet	0.0113		110	70-130	0.0908	25	
Carbon Disulfide	0.0144	0.0034	mg/Kg wet	0.0113		127	70-130	3.32	25	V-05
Carbon Tetrachloride	0.0149	0.0011	mg/Kg wet	0.0113		132	* 70-130	4.68	25	L-02
Chlorobenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	0.0925	25	
Chlorodibromomethane	0.0142	0.00057	mg/Kg wet	0.0113		126	70-130	0.159	25	
Chloroethane	0.0116	0.0023	mg/Kg wet	0.0113		102	70-130	2.33	25	
Chloroform	0.0144	0.0023	mg/Kg wet	0.0113		127	70-130	1.33	25	
Chloromethane	0.00910	0.0023	mg/Kg wet	0.0113		80.3	70-130	0.868	25	V-05
2-Chlorotoluene	0.0117	0.0011	mg/Kg wet	0.0113		104	70-130	2.10	25	
4-Chlorotoluene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	3.67	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0105	0.0057	mg/Kg wet	0.0113		92.7	70-130	4.33	25	
1,2-Dibromoethane (EDB)	0.0147	0.00057	mg/Kg wet	0.0113		130	70-130	0.852	25	
Dibromomethane	0.0142	0.0011	mg/Kg wet	0.0113		126	70-130	0.479	25	
1,2-Dichlorobenzene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130	1.38	25	
1,3-Dichlorobenzene	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130	1.93	25	
1,4-Dichlorobenzene	0.0110	0.0011	mg/Kg wet	0.0113		97.4	70-130	3.93	25	
trans-1,4-Dichloro-2-butene	0.0106	0.0023	mg/Kg wet	0.0113		93.2	70-130	4.10	25	
Dichlorodifluoromethane (Freon 12)	0.00593	0.0023	mg/Kg wet	0.0113		52.3	40-160	1.35	25	V-34 †
1,1-Dichloroethane	0.0142	0.0011	mg/Kg wet	0.0113		125	70-130	0.399	25	
1,2-Dichloroethane	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130	0.922	25	
1,1-Dichloroethylene	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130	3.87	25	
cis-1,2-Dichloroethylene	0.0132	0.0011	mg/Kg wet	0.0113		116	70-130	2.46	25	
trans-1,2-Dichloroethylene	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130	2.10	25	
1,2-Dichloropropane	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130	0.167	25	
1,3-Dichloropropane	0.0132	0.00057	mg/Kg wet	0.0113		117	70-130	0.937	25	
2,2-Dichloropropane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	3.20	25	
1,1-Dichloropropene	0.0141	0.0023	mg/Kg wet	0.0113		125	70-130	2.14	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202587 - SW-846 5035

LCS Dup (B202587-BSD1)

Prepared: 05/04/18 Analyzed: 05/14/18

cis-1,3-Dichloropropene	0.0125	0.00057	mg/Kg wet	0.0113		110	70-130	0.542	25	
trans-1,3-Dichloropropene	0.0130	0.00057	mg/Kg wet	0.0113		114	70-130	3.02	25	
Diethyl Ether	0.0132	0.0023	mg/Kg wet	0.0113		117	70-130	1.86	25	
Diisopropyl Ether (DIPE)	0.0122	0.00057	mg/Kg wet	0.0113		107	70-130	0.842	25	
1,4-Dioxane	0.109	0.11	mg/Kg wet	0.113		96.1	40-160	11.4	50	J † ‡
Ethylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	2.19	25	
Hexachlorobutadiene	0.0129	0.0011	mg/Kg wet	0.0113		113	70-160	0.615	25	
2-Hexanone (MBK)	0.117	0.011	mg/Kg wet	0.113		103	70-160	5.62	25	†
Isopropylbenzene (Cumene)	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130	2.00	25	
p-Isopropyltoluene (p-Cymene)	0.0113	0.0011	mg/Kg wet	0.0113		99.4	70-130	3.07	25	
Methyl Acetate	0.00929	0.011	mg/Kg wet	0.0113		82.0	70-130	4.88	25	J
Methyl tert-Butyl Ether (MTBE)	0.0141	0.0011	mg/Kg wet	0.0113		124	70-130	1.52	25	
Methyl Cyclohexane	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130	3.72	25	
Methylene Chloride	0.0119	0.0057	mg/Kg wet	0.0113		105	40-160	0.00	25	†
4-Methyl-2-pentanone (MIBK)	0.114	0.011	mg/Kg wet	0.113		101	70-160	3.06	25	†
Naphthalene	0.00963	0.0023	mg/Kg wet	0.0113		85.0	40-130	4.60	25	†
n-Propylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	3.67	25	
Styrene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	1.29	25	
1,1,1,2-Tetrachloroethane	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130	1.44	25	
1,1,2,2-Tetrachloroethane	0.0124	0.00057	mg/Kg wet	0.0113		109	70-130	10.8	25	
Tetrachloroethylene	0.0149	0.0011	mg/Kg wet	0.0113		131	* 70-130	0.608	25	L-06
Tetrahydrofuran	0.0126	0.011	mg/Kg wet	0.0113		112	70-130	6.57	25	
Toluene	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130	0.846	25	
1,2,3-Trichlorobenzene	0.0102	0.0057	mg/Kg wet	0.0113		89.9	70-130	4.67	25	
1,2,4-Trichlorobenzene	0.0103	0.0011	mg/Kg wet	0.0113		90.8	70-130	0.330	25	
1,3,5-Trichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.8	70-130	2.30	25	
1,1,1-Trichloroethane	0.0146	0.0011	mg/Kg wet	0.0113		129	70-130	1.70	25	
1,1,2-Trichloroethane	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130	2.12	25	
Trichloroethylene	0.0138	0.0011	mg/Kg wet	0.0113		122	70-130	9.29	25	
Trichlorofluoromethane (Freon 11)	0.0120	0.0023	mg/Kg wet	0.0113		106	70-130	1.69	25	
1,2,3-Trichloropropane	0.0128	0.0023	mg/Kg wet	0.0113		113	70-130	1.67	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0136	0.0011	mg/Kg wet	0.0113		120	70-130	1.52	25	V-20
1,2,4-Trimethylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130	1.31	25	
1,3,5-Trimethylbenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	1.04	25	
Vinyl Chloride	0.0113	0.0023	mg/Kg wet	0.0113		99.7	40-130	0.899	25	†
m+p Xylene	0.0245	0.0023	mg/Kg wet	0.0227		108	70-130	0.646	25	
o-Xylene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	0.189	25	
Surrogate: 1,2-Dichloroethane-d4	0.0279		mg/Kg wet	0.0283		98.6	70-130			
Surrogate: Toluene-d8	0.0286		mg/Kg wet	0.0283		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0300		mg/Kg wet	0.0283		106	70-130			

Batch B202661 - SW-846 5035

Blank (B202661-BLK1)

Prepared & Analyzed: 05/07/18

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
Blank (B202661-BLK1)				Prepared & Analyzed: 05/07/18						
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							
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							L-04, V-05
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							V-34
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							L-04, R-05
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							R-05
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							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
Blank (B202661-BLK1)										
Prepared & Analyzed: 05/07/18										
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	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0515		mg/Kg wet	0.0500		103	70-130			
LCS (B202661-BS1)										
Prepared & Analyzed: 05/07/18										
Acetone	0.257	0.10	mg/Kg wet	0.200		129	70-160			V-06 †
Acrylonitrile	0.0177	0.0060	mg/Kg wet	0.0200		88.7	70-130			
tert-Amyl Methyl Ether (TAME)	0.0189	0.0010	mg/Kg wet	0.0200		94.7	70-130			
Benzene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130			
Bromobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromochloromethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Bromodichloromethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromoform	0.0251	0.0020	mg/Kg wet	0.0200		126	70-130			V-20
Bromomethane	0.0114	0.010	mg/Kg wet	0.0200		56.8	40-130			V-34 †
2-Butanone (MEK)	0.186	0.040	mg/Kg wet	0.200		93.0	70-160			†
tert-Butyl Alcohol (TBA)	0.192	0.040	mg/Kg wet	0.200		96.2	40-130			†
n-Butylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
sec-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
tert-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0171	0.0010	mg/Kg wet	0.0200		85.7	70-130			
Carbon Disulfide	0.0216	0.0060	mg/Kg wet	0.0200		108	70-130			
Carbon Tetrachloride	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
Chlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
Chlorodibromomethane	0.0243	0.0010	mg/Kg wet	0.0200		121	70-130			
Chloroethane	0.0142	0.020	mg/Kg wet	0.0200		71.1	70-130			J
Chloroform	0.0194	0.0040	mg/Kg wet	0.0200		97.0	70-130			
Chloromethane	0.0118	0.010	mg/Kg wet	0.0200		58.9	70-130	*		L-04, V-05
2-Chlorotoluene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
4-Chlorotoluene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
1,2-Dibromoethane (EDB)	0.0235	0.0010	mg/Kg wet	0.0200		118	70-130			
Dibromomethane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			V-20
1,2-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
LCS (B202661-BS1)				Prepared & Analyzed: 05/07/18						
1,4-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
trans-1,4-Dichloro-2-butene	0.0216	0.0040	mg/Kg wet	0.0200		108	70-130			
Dichlorodifluoromethane (Freon 12)	0.0104	0.020	mg/Kg wet	0.0200		52.2	40-160			V-34, J †
1,1-Dichloroethane	0.0176	0.0020	mg/Kg wet	0.0200		88.0	70-130			
1,2-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1-Dichloroethylene	0.0226	0.0040	mg/Kg wet	0.0200		113	70-130			
cis-1,2-Dichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.5	70-130			
trans-1,2-Dichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.5	70-130			
1,2-Dichloropropane	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
1,3-Dichloropropane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
2,2-Dichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1-Dichloropropene	0.0181	0.0020	mg/Kg wet	0.0200		90.6	70-130			
cis-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.5	70-130			
trans-1,3-Dichloropropene	0.0229	0.0010	mg/Kg wet	0.0200		115	70-130			
Diethyl Ether	0.0184	0.020	mg/Kg wet	0.0200		92.2	70-130			J
Diisopropyl Ether (DIPE)	0.0166	0.0010	mg/Kg wet	0.0200		83.2	70-130			
1,4-Dioxane	0.224	0.10	mg/Kg wet	0.200		112	40-160			†
Ethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
Hexachlorobutadiene	0.0235	0.0020	mg/Kg wet	0.0200		118	70-160			
2-Hexanone (MBK)	0.216	0.020	mg/Kg wet	0.200		108	70-160			†
Isopropylbenzene (Cumene)	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
p-Isopropyltoluene (p-Cymene)	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
Methyl Acetate	0.0102	0.0020	mg/Kg wet	0.0200		51.2	* 70-130			L-04, R-05
Methyl tert-Butyl Ether (MTBE)	0.0213	0.0040	mg/Kg wet	0.0200		106	70-130			
Methyl Cyclohexane	0.0167	0.0020	mg/Kg wet	0.0200		83.3	70-130			
Methylene Chloride	0.0174	0.020	mg/Kg wet	0.0200		86.8	40-160			R-05, J †
4-Methyl-2-pentanone (MIBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160			†
Naphthalene	0.0221	0.0040	mg/Kg wet	0.0200		110	40-130			†
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Styrene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,1,2-Tetrachloroethane	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130			
1,1,2,2-Tetrachloroethane	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130			
Tetrachloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
Tetrahydrofuran	0.0199	0.010	mg/Kg wet	0.0200		99.3	70-130			
Toluene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
1,2,3-Trichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2,4-Trichlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130			
1,3,5-Trichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,1,1-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
1,1,2-Trichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130			
Trichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130			
Trichlorofluoromethane (Freon 11)	0.0177	0.010	mg/Kg wet	0.0200		88.3	70-130			
1,2,3-Trichloropropane	0.0279	0.0020	mg/Kg wet	0.0200		140	* 70-130			L-02, V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0209	0.010	mg/Kg wet	0.0200		104	70-130			V-20
1,2,4-Trimethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,3,5-Trimethylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Vinyl Chloride	0.0146	0.010	mg/Kg wet	0.0200		73.1	40-130			†
m+p Xylene	0.0411	0.0040	mg/Kg wet	0.0400		103	70-130			
o-Xylene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0515		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	0.0503		mg/Kg wet	0.0500		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
LCS (B202661-BS1)					Prepared & Analyzed: 05/07/18					
Surrogate: 4-Bromofluorobenzene	0.0522		mg/Kg wet	0.0500		104	70-130			
LCS Dup (B202661-BSD1)					Prepared & Analyzed: 05/07/18					
Acetone	0.271	0.10	mg/Kg wet	0.200		135	70-160	5.06	25	V-06 †
Acrylonitrile	0.0213	0.0060	mg/Kg wet	0.0200		106	70-130	18.2	25	
tert-Amyl Methyl Ether (TAME)	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130	5.44	25	
Benzene	0.0183	0.0020	mg/Kg wet	0.0200		91.6	70-130	3.56	25	
Bromobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.12	25	
Bromochloromethane	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130	13.6	25	
Bromodichloromethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	4.84	25	
Bromoform	0.0254	0.0020	mg/Kg wet	0.0200		127	70-130	1.11	25	V-20
Bromomethane	0.0112	0.010	mg/Kg wet	0.0200		55.9	40-130	1.60	25	V-34 †
2-Butanone (MEK)	0.218	0.040	mg/Kg wet	0.200		109	70-160	16.0	25	†
tert-Butyl Alcohol (TBA)	0.230	0.040	mg/Kg wet	0.200		115	40-130	17.7	25	†
n-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	4.39	25	
sec-Butylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	8.20	25	
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-160	2.04	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0198	0.0010	mg/Kg wet	0.0200		99.2	70-130	14.6	25	
Carbon Disulfide	0.0226	0.0060	mg/Kg wet	0.0200		113	70-130	4.34	25	
Carbon Tetrachloride	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	9.22	25	
Chlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	5.09	25	
Chlorodibromomethane	0.0235	0.0010	mg/Kg wet	0.0200		117	70-130	3.44	25	
Chloroethane	0.0153	0.020	mg/Kg wet	0.0200		76.3	70-130	7.06	25	J
Chloroform	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	3.74	25	
Chloromethane	0.0124	0.010	mg/Kg wet	0.0200		61.8	* 70-130	4.81	25	L-04, V-05
2-Chlorotoluene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.43	25	
4-Chlorotoluene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	3.68	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	4.14	25	
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130	7.96	25	
Dibromomethane	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130	5.24	25	V-20
1,2-Dichlorobenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	4.62	25	
1,3-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	0.656	25	
1,4-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.20	25	
trans-1,4-Dichloro-2-butene	0.0233	0.0040	mg/Kg wet	0.0200		117	70-130	7.47	25	
Dichlorodifluoromethane (Freon 12)	0.0105	0.020	mg/Kg wet	0.0200		52.3	40-160	0.191	25	V-34, J †
1,1-Dichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	12.5	25	
1,2-Dichloroethane	0.0235	0.0020	mg/Kg wet	0.0200		118	70-130	12.7	25	
1,1-Dichloroethylene	0.0241	0.0040	mg/Kg wet	0.0200		120	70-130	6.16	25	
cis-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	12.8	25	
trans-1,2-Dichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	13.3	25	
1,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	11.7	25	
1,3-Dichloropropane	0.0203	0.0010	mg/Kg wet	0.0200		101	70-130	3.59	25	
2,2-Dichloropropane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	5.46	25	
1,1-Dichloropropene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	12.4	25	
cis-1,3-Dichloropropene	0.0188	0.0010	mg/Kg wet	0.0200		94.0	70-130	2.62	25	
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130	10.7	25	
Diethyl Ether	0.0170	0.020	mg/Kg wet	0.0200		84.9	70-130	8.24	25	J
Diisopropyl Ether (DIPE)	0.0205	0.0010	mg/Kg wet	0.0200		103	70-130	20.9	25	
1,4-Dioxane	0.229	0.10	mg/Kg wet	0.200		115	40-160	2.23	50	† ‡
Ethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130	2.60	25	
Hexachlorobutadiene	0.0239	0.0020	mg/Kg wet	0.0200		120	70-160	1.68	25	
2-Hexanone (MBK)	0.210	0.020	mg/Kg wet	0.200		105	70-160	2.97	25	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
LCS Dup (B202661-BSD1)				Prepared & Analyzed: 05/07/18						
Isopropylbenzene (Cumene)	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	1.42	25	
p-Isopropyltoluene (p-Cymene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	2.33	25	
Methyl Acetate	0.0137	0.0020	mg/Kg wet	0.0200		68.7	* 70-130	29.2	* 25	L-04, R-05
Methyl tert-Butyl Ether (MTBE)	0.0224	0.0040	mg/Kg wet	0.0200		112	70-130	5.13	25	
Methyl Cyclohexane	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130	6.62	25	
Methylene Chloride	0.0241	0.020	mg/Kg wet	0.0200		120	40-160	32.4	* 25	R-05 †
4-Methyl-2-pentanone (MIBK)	0.204	0.020	mg/Kg wet	0.200		102	70-160	1.60	25	†
Naphthalene	0.0222	0.0040	mg/Kg wet	0.0200		111	40-130	0.633	25	†
n-Propylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.946	25	
Styrene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	0.820	25	
1,1,1,2-Tetrachloroethane	0.0253	0.0020	mg/Kg wet	0.0200		126	70-130	6.45	25	
1,1,2,2-Tetrachloroethane	0.0242	0.0010	mg/Kg wet	0.0200		121	70-130	5.70	25	
Tetrachloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	7.88	25	
Tetrahydrofuran	0.0237	0.010	mg/Kg wet	0.0200		118	70-130	17.5	25	
Toluene	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130	2.98	25	
1,2,3-Trichlorobenzene	0.0239	0.0020	mg/Kg wet	0.0200		119	70-130	9.02	25	
1,2,4-Trichlorobenzene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	3.21	25	
1,3,5-Trichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	6.66	25	
1,1,1-Trichloroethane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	7.02	25	
1,1,2-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	3.90	25	
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	12.4	25	
Trichlorofluoromethane (Freon 11)	0.0175	0.010	mg/Kg wet	0.0200		87.6	70-130	0.796	25	
1,2,3-Trichloropropane	0.0273	0.0020	mg/Kg wet	0.0200		137	* 70-130	2.03	25	L-02, V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0209	0.010	mg/Kg wet	0.0200		104	70-130	0.0957	25	V-20
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130	1.52	25	
1,3,5-Trimethylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	1.08	25	
Vinyl Chloride	0.0142	0.010	mg/Kg wet	0.0200		71.2	40-130	2.63	25	†
m+p Xylene	0.0418	0.0040	mg/Kg wet	0.0400		104	70-130	1.54	25	
o-Xylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.04	25	
Surrogate: 1,2-Dichloroethane-d4	0.0560		mg/Kg wet	0.0500		112	70-130			
Surrogate: Toluene-d8	0.0445		mg/Kg wet	0.0500		89.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0514		mg/Kg wet	0.0500		103	70-130			
Matrix Spike (B202661-MS1)				Source: 18E0198-01 Prepared & Analyzed: 05/07/18						
Acetone	0.640	0.13	mg/Kg dry	0.258	0.386	98.4	70-130			V-06
Acrylonitrile	0.0230	0.0077	mg/Kg dry	0.0258	ND	89.2	70-130			
tert-Amyl Methyl Ether (TAME)	0.0234	0.0013	mg/Kg dry	0.0258	ND	90.4	70-130			
Benzene	0.0208	0.0026	mg/Kg dry	0.0258	ND	80.5	70-130			
Bromobenzene	0.0240	0.0026	mg/Kg dry	0.0258	ND	93.1	70-130			
Bromochloromethane	0.0281	0.0026	mg/Kg dry	0.0258	ND	109	70-130			
Bromodichloromethane	0.0248	0.0026	mg/Kg dry	0.0258	ND	96.2	70-130			
Bromoform	0.0293	0.0026	mg/Kg dry	0.0258	ND	114	70-130			V-20
Bromomethane	0.0149	0.013	mg/Kg dry	0.0258	ND	57.5	* 70-130			MS-07A, V-34
2-Butanone (MEK)	0.290	0.052	mg/Kg dry	0.258	0.0673	86.2	70-130			
tert-Butyl Alcohol (TBA)	0.246	0.052	mg/Kg dry	0.258	ND	95.3	70-130			
n-Butylbenzene	0.0230	0.0026	mg/Kg dry	0.0258	ND	88.9	70-130			
sec-Butylbenzene	0.0304	0.0026	mg/Kg dry	0.0258	0.0130	67.4	* 70-130			MS-07A
tert-Butylbenzene	0.0230	0.0026	mg/Kg dry	0.0258	0.00314	76.9	70-130			
tert-Butyl Ethyl Ether (TBEE)	0.0216	0.0013	mg/Kg dry	0.0258	ND	83.7	70-130			
Carbon Disulfide	0.0270	0.0077	mg/Kg dry	0.0258	ND	105	70-130			
Carbon Tetrachloride	0.0247	0.0026	mg/Kg dry	0.0258	ND	95.6	70-130			
Chlorobenzene	0.0244	0.0026	mg/Kg dry	0.0258	ND	94.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
Matrix Spike (B202661-MS1)	Source: 18E0198-01			Prepared & Analyzed: 05/07/18						
Chlorodibromomethane	0.0291	0.0013	mg/Kg dry	0.0258	ND	112	70-130			
Chloroethane	0.0195	0.026	mg/Kg dry	0.0258	ND	75.6	70-130			J
Chloroform	0.0223	0.0052	mg/Kg dry	0.0258	ND	86.3	70-130			
Chloromethane	0.0143	0.013	mg/Kg dry	0.0258	ND	55.3	* 70-130			MS-09, V-05, L-04
2-Chlorotoluene	0.0231	0.0026	mg/Kg dry	0.0258	ND	89.3	70-130			
4-Chlorotoluene	0.0237	0.0026	mg/Kg dry	0.0258	ND	91.9	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0290	0.0026	mg/Kg dry	0.0258	ND	112	70-130			
1,2-Dibromoethane (EDB)	0.0288	0.0013	mg/Kg dry	0.0258	ND	112	70-130			
Dibromomethane	0.0297	0.0026	mg/Kg dry	0.0258	ND	115	70-130			V-20
1,2-Dichlorobenzene	0.0229	0.0026	mg/Kg dry	0.0258	ND	88.6	70-130			
1,3-Dichlorobenzene	0.0231	0.0026	mg/Kg dry	0.0258	ND	89.6	70-130			
1,4-Dichlorobenzene	0.0222	0.0026	mg/Kg dry	0.0258	ND	85.8	70-130			
trans-1,4-Dichloro-2-butene	0.0270	0.0052	mg/Kg dry	0.0258	ND	105	70-130			
Dichlorodifluoromethane (Freon 12)	0.0124	0.026	mg/Kg dry	0.0258	ND	47.9	* 70-130			MS-07A, V-34, J
1,1-Dichloroethane	0.0220	0.0026	mg/Kg dry	0.0258	ND	85.1	70-130			
1,2-Dichloroethane	0.0265	0.0026	mg/Kg dry	0.0258	ND	103	70-130			
1,1-Dichloroethylene	0.0271	0.0052	mg/Kg dry	0.0258	ND	105	70-130			
cis-1,2-Dichloroethylene	0.0392	0.0026	mg/Kg dry	0.0258	0.0372	7.52	* 70-130			MS-07A
trans-1,2-Dichloroethylene	0.0220	0.0026	mg/Kg dry	0.0258	0.00177	78.4	70-130			
1,2-Dichloropropane	0.0235	0.0026	mg/Kg dry	0.0258	ND	90.8	70-130			
1,3-Dichloropropane	0.0271	0.0013	mg/Kg dry	0.0258	ND	105	70-130			
2,2-Dichloropropane	0.0252	0.0026	mg/Kg dry	0.0258	ND	97.6	70-130			
1,1-Dichloropropene	0.0222	0.0026	mg/Kg dry	0.0258	ND	86.1	70-130			
cis-1,3-Dichloropropene	0.0236	0.0013	mg/Kg dry	0.0258	ND	91.2	70-130			
trans-1,3-Dichloropropene	0.0273	0.0013	mg/Kg dry	0.0258	ND	106	70-130			
Diethyl Ether	0.0252	0.026	mg/Kg dry	0.0258	ND	97.5	70-130			J
Diisopropyl Ether (DIPE)	0.0195	0.0013	mg/Kg dry	0.0258	ND	75.3	70-130			
1,4-Dioxane	0.299	0.13	mg/Kg dry	0.258	ND	116	70-130			
Ethylbenzene	0.0242	0.0026	mg/Kg dry	0.0258	ND	93.8	70-130			
Hexachlorobutadiene	0.0222	0.0026	mg/Kg dry	0.0258	ND	85.9	70-130			
2-Hexanone (MBK)	0.266	0.026	mg/Kg dry	0.258	ND	103	70-130			
Isopropylbenzene (Cumene)	0.0267	0.0026	mg/Kg dry	0.0258	ND	103	70-130			
p-Isopropyltoluene (p-Cymene)	0.0225	0.0026	mg/Kg dry	0.0258	0.00125	82.4	70-130			
Methyl Acetate	0.0194	0.0026	mg/Kg dry	0.0258	ND	75.0	70-130			L-04
Methyl tert-Butyl Ether (MTBE)	0.0265	0.0052	mg/Kg dry	0.0258	ND	102	70-130			
Methyl Cyclohexane	0.0198	0.0026	mg/Kg dry	0.0258	ND	76.5	70-130			
Methylene Chloride	0.0214	0.026	mg/Kg dry	0.0258	ND	82.8	70-130			J
4-Methyl-2-pentanone (MIBK)	0.257	0.026	mg/Kg dry	0.258	ND	99.6	70-130			
Naphthalene	0.0241	0.0052	mg/Kg dry	0.0258	ND	93.2	70-130			
n-Propylbenzene	0.0230	0.0026	mg/Kg dry	0.0258	ND	89.1	70-130			
Styrene	0.0239	0.0026	mg/Kg dry	0.0258	ND	92.6	70-130			
1,1,1,2-Tetrachloroethane	0.0275	0.0026	mg/Kg dry	0.0258	ND	106	70-130			
1,1,2,2-Tetrachloroethane	0.0247	0.0013	mg/Kg dry	0.0258	ND	95.7	70-130			
Tetrachloroethylene	0.0290	0.0026	mg/Kg dry	0.0258	0.00630	88.0	70-130			
Tetrahydrofuran	0.0241	0.013	mg/Kg dry	0.0258	ND	93.4	70-130			
Toluene	0.0239	0.0026	mg/Kg dry	0.0258	ND	92.7	70-130			
1,2,3-Trichlorobenzene	0.0225	0.0026	mg/Kg dry	0.0258	ND	87.2	70-130			
1,2,4-Trichlorobenzene	0.0223	0.0026	mg/Kg dry	0.0258	ND	86.4	70-130			R-06
1,3,5-Trichlorobenzene	0.0219	0.0026	mg/Kg dry	0.0258	ND	84.9	70-130			
1,1,1-Trichloroethane	0.0226	0.0026	mg/Kg dry	0.0258	ND	87.5	70-130			
1,1,2-Trichloroethane	0.0271	0.0026	mg/Kg dry	0.0258	ND	105	70-130			
Trichloroethylene	0.0253	0.0026	mg/Kg dry	0.0258	0.00471	79.7	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
Matrix Spike (B202661-MS1)	Source: 18E0198-01			Prepared & Analyzed: 05/07/18						
Trichlorofluoromethane (Freon 11)	0.0223	0.013	mg/Kg dry	0.0258	ND	86.2	70-130			
1,2,3-Trichloropropane	0.0337	0.0026	mg/Kg dry	0.0258	ND	130	70-130			V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0267	0.013	mg/Kg dry	0.0258	ND	103	70-130			V-20
1,2,4-Trimethylbenzene	0.0224	0.0026	mg/Kg dry	0.0258	0.00152	80.9	70-130			
1,3,5-Trimethylbenzene	0.0245	0.0026	mg/Kg dry	0.0258	0.000797	91.7	70-130			
Vinyl Chloride	0.0178	0.013	mg/Kg dry	0.0258	ND	69.0	* 70-130			MS-07A
m+p Xylene	0.0479	0.0052	mg/Kg dry	0.0517	ND	92.7	70-130			
o-Xylene	0.0246	0.0026	mg/Kg dry	0.0258	ND	95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0644		mg/Kg dry	0.0646		99.7	70-130			
Surrogate: Toluene-d8	0.0643		mg/Kg dry	0.0646		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0688		mg/Kg dry	0.0646		106	70-130			
Matrix Spike Dup (B202661-MSD1)	Source: 18E0198-01			Prepared & Analyzed: 05/07/18						
Acetone	0.568	0.12	mg/Kg dry	0.237	0.386	76.6	70-130	12.0	30	V-06
Acrylonitrile	0.0208	0.0071	mg/Kg dry	0.0237	ND	87.7	70-130	10.2	30	
tert-Amyl Methyl Ether (TAME)	0.0204	0.0012	mg/Kg dry	0.0237	ND	85.9	70-130	13.6	30	
Benzene	0.0174	0.0024	mg/Kg dry	0.0237	ND	73.4	70-130	17.7	30	
Bromobenzene	0.0194	0.0024	mg/Kg dry	0.0237	ND	81.8	70-130	21.4	30	
Bromochloromethane	0.0253	0.0024	mg/Kg dry	0.0237	ND	107	70-130	10.2	30	
Bromodichloromethane	0.0210	0.0024	mg/Kg dry	0.0237	ND	88.7	70-130	16.6	30	
Bromoform	0.0239	0.0024	mg/Kg dry	0.0237	ND	101	70-130	20.3	30	V-20
Bromomethane	0.0128	0.012	mg/Kg dry	0.0237	ND	53.9	* 70-130	15.0	30	MS-07A, V-34
2-Butanone (MEK)	0.263	0.047	mg/Kg dry	0.237	0.0673	82.7	70-130	9.61	30	
tert-Butyl Alcohol (TBA)	0.235	0.047	mg/Kg dry	0.237	ND	98.9	70-130	4.78	30	
n-Butylbenzene	0.0185	0.0024	mg/Kg dry	0.0237	ND	78.0	70-130	21.6	30	
sec-Butylbenzene	0.0252	0.0024	mg/Kg dry	0.0237	0.0130	51.4	* 70-130	18.8	30	MS-07A
tert-Butylbenzene	0.0182	0.0024	mg/Kg dry	0.0237	0.00314	63.7	* 70-130	23.2	30	MS-24
tert-Butyl Ethyl Ether (TBEE)	0.0186	0.0012	mg/Kg dry	0.0237	ND	78.4	70-130	15.1	30	
Carbon Disulfide	0.0218	0.0071	mg/Kg dry	0.0237	ND	92.1	70-130	21.3	30	
Carbon Tetrachloride	0.0205	0.0024	mg/Kg dry	0.0237	ND	86.5	70-130	18.5	30	
Chlorobenzene	0.0198	0.0024	mg/Kg dry	0.0237	ND	83.6	70-130	20.5	30	
Chlorodibromomethane	0.0226	0.0012	mg/Kg dry	0.0237	ND	95.2	70-130	25.1	30	
Chloroethane	0.0166	0.024	mg/Kg dry	0.0237	ND	69.8	* 70-130	16.5	30	MS-24, J
Chloroform	0.0195	0.0047	mg/Kg dry	0.0237	ND	82.2	70-130	13.4	30	
Chloromethane	0.0117	0.012	mg/Kg dry	0.0237	ND	49.2	* 70-130	20.2	30	L-04, MS-09, V-05, J
2-Chlorotoluene	0.0182	0.0024	mg/Kg dry	0.0237	ND	76.7	70-130	23.7	30	
4-Chlorotoluene	0.0190	0.0024	mg/Kg dry	0.0237	ND	80.3	70-130	22.0	30	
1,2-Dibromo-3-chloropropane (DBCP)	0.0262	0.0024	mg/Kg dry	0.0237	ND	111	70-130	9.98	30	
1,2-Dibromoethane (EDB)	0.0228	0.0012	mg/Kg dry	0.0237	ND	96.2	70-130	23.2	30	
Dibromomethane	0.0249	0.0024	mg/Kg dry	0.0237	ND	105	70-130	17.3	30	V-20
1,2-Dichlorobenzene	0.0184	0.0024	mg/Kg dry	0.0237	ND	77.6	70-130	21.7	30	
1,3-Dichlorobenzene	0.0178	0.0024	mg/Kg dry	0.0237	ND	75.0	70-130	26.2	30	
1,4-Dichlorobenzene	0.0175	0.0024	mg/Kg dry	0.0237	ND	74.0	70-130	23.2	30	
trans-1,4-Dichloro-2-butene	0.0245	0.0047	mg/Kg dry	0.0237	ND	103	70-130	9.70	30	
Dichlorodifluoromethane (Freon 12)	0.0110	0.024	mg/Kg dry	0.0237	ND	46.5	* 70-130	11.5	30	MS-07A, V-34, J
1,1-Dichloroethane	0.0183	0.0024	mg/Kg dry	0.0237	ND	77.0	70-130	18.5	30	
1,2-Dichloroethane	0.0223	0.0024	mg/Kg dry	0.0237	ND	94.0	70-130	17.4	30	
1,1-Dichloroethylene	0.0229	0.0047	mg/Kg dry	0.0237	ND	96.6	70-130	16.7	30	
cis-1,2-Dichloroethylene	0.0323	0.0024	mg/Kg dry	0.0237	0.0372	-20.8	* 70-130	19.2	30	MS-07A
trans-1,2-Dichloroethylene	0.0185	0.0024	mg/Kg dry	0.0237	0.00177	70.5	70-130	17.3	30	
1,2-Dichloropropane	0.0187	0.0024	mg/Kg dry	0.0237	ND	78.8	70-130	22.6	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202661 - SW-846 5035										
Matrix Spike Dup (B202661-MSD1)	Source: 18E0198-01			Prepared & Analyzed: 05/07/18						
1,3-Dichloropropane	0.0218	0.0012	mg/Kg dry	0.0237	ND	92.0	70-130	21.7	30	
2,2-Dichloropropane	0.0204	0.0024	mg/Kg dry	0.0237	ND	85.9	70-130	21.2	30	
1,1-Dichloropropene	0.0185	0.0024	mg/Kg dry	0.0237	ND	78.2	70-130	18.1	30	
cis-1,3-Dichloropropene	0.0198	0.0012	mg/Kg dry	0.0237	ND	83.5	70-130	17.3	30	
trans-1,3-Dichloropropene	0.0227	0.0012	mg/Kg dry	0.0237	ND	95.9	70-130	18.1	30	
Diethyl Ether	0.0211	0.024	mg/Kg dry	0.0237	ND	89.1	70-130	17.5	30	J
Diisopropyl Ether (DIPE)	0.0163	0.0012	mg/Kg dry	0.0237	ND	68.9	* 70-130	17.4	30	MS-24
1,4-Dioxane	0.232	0.12	mg/Kg dry	0.237	ND	98.0	70-130	25.1	30	
Ethylbenzene	0.0188	0.0024	mg/Kg dry	0.0237	ND	79.1	70-130	25.5	30	
Hexachlorobutadiene	0.0176	0.0024	mg/Kg dry	0.0237	ND	74.2	70-130	23.1	30	
2-Hexanone (MBK)	0.233	0.024	mg/Kg dry	0.237	ND	98.4	70-130	12.9	30	
Isopropylbenzene (Cumene)	0.0216	0.0024	mg/Kg dry	0.0237	ND	91.3	70-130	20.9	30	
p-Isopropyltoluene (p-Cymene)	0.0178	0.0024	mg/Kg dry	0.0237	0.00125	69.8	* 70-130	23.4	30	MS-24
Methyl Acetate	0.0248	0.0024	mg/Kg dry	0.0237	ND	105	70-130	24.7	30	L-04
Methyl tert-Butyl Ether (MTBE)	0.0221	0.0047	mg/Kg dry	0.0237	ND	93.3	70-130	17.8	30	
Methyl Cyclohexane	0.0173	0.0024	mg/Kg dry	0.0237	ND	73.1	70-130	13.1	30	
Methylene Chloride	0.0170	0.024	mg/Kg dry	0.0237	ND	71.8	70-130	22.7	30	J
4-Methyl-2-pentanone (MIBK)	0.226	0.024	mg/Kg dry	0.237	ND	95.4	70-130	12.9	30	
Naphthalene	0.0183	0.0047	mg/Kg dry	0.0237	ND	77.2	70-130	27.2	30	
n-Propylbenzene	0.0188	0.0024	mg/Kg dry	0.0237	0.000872	75.6	70-130	20.1	30	
Styrene	0.0186	0.0024	mg/Kg dry	0.0237	ND	78.6	70-130	24.8	30	
1,1,1,2-Tetrachloroethane	0.0209	0.0024	mg/Kg dry	0.0237	ND	88.2	70-130	27.1	30	
1,1,2,2-Tetrachloroethane	0.0214	0.0012	mg/Kg dry	0.0237	ND	90.4	70-130	14.2	30	
Tetrachloroethylene	0.0244	0.0024	mg/Kg dry	0.0237	0.00630	76.4	70-130	17.2	30	
Tetrahydrofuran	0.0208	0.012	mg/Kg dry	0.0237	ND	87.6	70-130	14.9	30	
Toluene	0.0196	0.0024	mg/Kg dry	0.0237	ND	82.7	70-130	19.9	30	
1,2,3-Trichlorobenzene	0.0168	0.0024	mg/Kg dry	0.0237	ND	70.8	70-130	29.2	30	
1,2,4-Trichlorobenzene	0.0164	0.0024	mg/Kg dry	0.0237	ND	69.3	* 70-130	30.4	* 30	MS-23, R-06
1,3,5-Trichlorobenzene	0.0171	0.0024	mg/Kg dry	0.0237	ND	72.0	70-130	24.9	30	
1,1,1-Trichloroethane	0.0191	0.0024	mg/Kg dry	0.0237	ND	80.7	70-130	16.6	30	
1,1,2-Trichloroethane	0.0210	0.0024	mg/Kg dry	0.0237	ND	88.6	70-130	25.3	30	
Trichloroethylene	0.0214	0.0024	mg/Kg dry	0.0237	0.00471	70.2	70-130	16.8	30	
Trichlorofluoromethane (Freon 11)	0.0186	0.012	mg/Kg dry	0.0237	ND	78.5	70-130	17.9	30	
1,2,3-Trichloropropane	0.0302	0.0024	mg/Kg dry	0.0237	ND	128	70-130	10.8	30	V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0213	0.012	mg/Kg dry	0.0237	ND	89.9	70-130	22.4	30	V-20
1,2,4-Trimethylbenzene	0.0177	0.0024	mg/Kg dry	0.0237	0.00152	68.4	* 70-130	23.3	30	MS-24
1,3,5-Trimethylbenzene	0.0197	0.0024	mg/Kg dry	0.0237	0.000797	79.6	70-130	21.8	30	
Vinyl Chloride	0.0147	0.012	mg/Kg dry	0.0237	ND	61.9	* 70-130	19.4	30	MS-07A
m+p Xylene	0.0383	0.0047	mg/Kg dry	0.0474	ND	80.7	70-130	22.3	30	
o-Xylene	0.0193	0.0024	mg/Kg dry	0.0237	0.000897	77.5	70-130	24.1	30	
Surrogate: 1,2-Dichloroethane-d4	0.0587		mg/Kg dry	0.0593		99.0	70-130			
Surrogate: Toluene-d8	0.0589		mg/Kg dry	0.0593		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0621		mg/Kg dry	0.0593		105	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202713 - SW-846 5035										
Blank (B202713-BLK1)				Prepared: 05/07/18 Analyzed: 05/14/18						
Acetone	ND	2.5	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0245		mg/Kg wet	0.0250		98.0	70-130			
Surrogate: Toluene-d8	0.0257		mg/Kg wet	0.0250		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.0259		mg/Kg wet	0.0250		104	70-130			
LCS (B202713-BS1)				Prepared: 05/07/18 Analyzed: 05/14/18						
Acetone	0.133	0.057	mg/Kg wet	0.113		118	70-160			†
cis-1,2-Dichloroethylene	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,2,4-Trimethylbenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0278		mg/Kg wet	0.0283		98.0	70-130			
Surrogate: Toluene-d8	0.0288		mg/Kg wet	0.0283		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0298		mg/Kg wet	0.0283		105	70-130			
LCS Dup (B202713-BSD1)				Prepared: 05/07/18 Analyzed: 05/14/18						
Acetone	0.115	0.057	mg/Kg wet	0.113		102	70-160	14.3	25	†
cis-1,2-Dichloroethylene	0.0132	0.0011	mg/Kg wet	0.0113		116	70-130	2.46	25	
1,2,4-Trimethylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130	1.31	25	
Surrogate: 1,2-Dichloroethane-d4	0.0279		mg/Kg wet	0.0283		98.6	70-130			
Surrogate: Toluene-d8	0.0286		mg/Kg wet	0.0283		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0300		mg/Kg wet	0.0283		106	70-130			
Batch B202806 - SW-846 5035										
Blank (B202806-BLK1)				Prepared & Analyzed: 05/08/18						
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							
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							L-04, V-05
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							

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202806 - SW-846 5035										
Blank (B202806-BLK1)	Prepared & Analyzed: 05/08/18									
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							V-34
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							L-04
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							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202806 - SW-846 5035										
Blank (B202806-BLK1)				Prepared & Analyzed: 05/08/18						
Surrogate: 1,2-Dichloroethane-d4	0.0520		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	0.0490		mg/Kg wet	0.0500		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0499		mg/Kg wet	0.0500		99.9	70-130			
LCS (B202806-BS1)				Prepared & Analyzed: 05/08/18						
Acetone	0.251	0.10	mg/Kg wet	0.200		125	70-160			V-20 †
Acrylonitrile	0.0189	0.0060	mg/Kg wet	0.0200		94.5	70-130			
tert-Amyl Methyl Ether (TAME)	0.0192	0.0010	mg/Kg wet	0.0200		95.9	70-130			
Benzene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130			
Bromobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromochloromethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Bromodichloromethane	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromoform	0.0264	0.0020	mg/Kg wet	0.0200		132 *	70-130			L-07
Bromomethane	0.0113	0.010	mg/Kg wet	0.0200		56.4	40-130			V-34 †
2-Butanone (MEK)	0.178	0.040	mg/Kg wet	0.200		89.0	70-160			†
tert-Butyl Alcohol (TBA)	0.193	0.040	mg/Kg wet	0.200		96.5	40-130			†
n-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130			
sec-Butylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
tert-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0175	0.0010	mg/Kg wet	0.0200		87.3	70-130			
Carbon Disulfide	0.0208	0.0060	mg/Kg wet	0.0200		104	70-130			
Carbon Tetrachloride	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
Chlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Chlorodibromomethane	0.0247	0.0010	mg/Kg wet	0.0200		123	70-130			
Chloroethane	0.0144	0.020	mg/Kg wet	0.0200		71.8	70-130			J
Chloroform	0.0192	0.0040	mg/Kg wet	0.0200		95.9	70-130			
Chloromethane	0.0122	0.010	mg/Kg wet	0.0200		61.1 *	70-130			L-04, V-05
2-Chlorotoluene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
4-Chlorotoluene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0199	0.0020	mg/Kg wet	0.0200		99.4	70-130			
1,2-Dibromoethane (EDB)	0.0234	0.0010	mg/Kg wet	0.0200		117	70-130			
Dibromomethane	0.0229	0.0020	mg/Kg wet	0.0200		115	70-130			
1,2-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,3-Dichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
1,4-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,4-Dichloro-2-butene	0.0202	0.0040	mg/Kg wet	0.0200		101	70-130			
Dichlorodifluoromethane (Freon 12)	0.0111	0.020	mg/Kg wet	0.0200		55.6	40-160			V-34, J †
1,1-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
1,2-Dichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1-Dichloroethylene	0.0253	0.0040	mg/Kg wet	0.0200		126	70-130			
cis-1,2-Dichloroethylene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
trans-1,2-Dichloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130			
1,2-Dichloropropane	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130			
1,3-Dichloropropane	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130			
2,2-Dichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1-Dichloropropene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
cis-1,3-Dichloropropene	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130			
trans-1,3-Dichloropropene	0.0231	0.0010	mg/Kg wet	0.0200		116	70-130			
Diethyl Ether	0.0190	0.020	mg/Kg wet	0.0200		94.9	70-130			J
Diisopropyl Ether (DIPE)	0.0166	0.0010	mg/Kg wet	0.0200		83.2	70-130			
1,4-Dioxane	0.168	0.10	mg/Kg wet	0.200		83.9	40-160			†
Ethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202806 - SW-846 5035										
LCS (B202806-BS1)				Prepared & Analyzed: 05/08/18						
Hexachlorobutadiene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-160			
2-Hexanone (MBK)	0.213	0.020	mg/Kg wet	0.200		106	70-160			†
Isopropylbenzene (Cumene)	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130			
p-Isopropyltoluene (p-Cymene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Methyl Acetate	0.0100	0.0020	mg/Kg wet	0.0200		50.0	* 70-130			L-04
Methyl tert-Butyl Ether (MTBE)	0.0205	0.0040	mg/Kg wet	0.0200		102	70-130			
Methyl Cyclohexane	0.0176	0.0020	mg/Kg wet	0.0200		88.0	70-130			
Methylene Chloride	0.0168	0.020	mg/Kg wet	0.0200		83.9	40-160			J †
4-Methyl-2-pentanone (MIBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160			†
Naphthalene	0.0217	0.0040	mg/Kg wet	0.0200		108	40-130			†
n-Propylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Styrene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1,1,2-Tetrachloroethane	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130			
1,1,2,2-Tetrachloroethane	0.0230	0.0010	mg/Kg wet	0.0200		115	70-130			
Tetrachloroethylene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
Tetrahydrofuran	0.0175	0.010	mg/Kg wet	0.0200		87.5	70-130			
Toluene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2,3-Trichlorobenzene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
1,2,4-Trichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,3,5-Trichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,1-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		95.9	70-130			
1,1,2-Trichloroethane	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130			
Trichloroethylene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130			
Trichlorofluoromethane (Freon 11)	0.0171	0.010	mg/Kg wet	0.0200		85.4	70-130			
1,2,3-Trichloropropane	0.0267	0.0020	mg/Kg wet	0.0200		133	* 70-130			L-07, V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0235	0.010	mg/Kg wet	0.0200		118	70-130			V-20
1,2,4-Trimethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,3,5-Trimethylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130			
Vinyl Chloride	0.0145	0.010	mg/Kg wet	0.0200		72.4	40-130			†
m+p Xylene	0.0426	0.0040	mg/Kg wet	0.0400		106	70-130			
o-Xylene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0486		mg/Kg wet	0.0500		97.2	70-130			
Surrogate: Toluene-d8	0.0495		mg/Kg wet	0.0500		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/Kg wet	0.0500		102	70-130			
LCS Dup (B202806-BS1)				Prepared & Analyzed: 05/08/18						
Acetone	0.246	0.10	mg/Kg wet	0.200		123	70-160	1.99	25	V-20 †
Acrylonitrile	0.0188	0.0060	mg/Kg wet	0.0200		93.8	70-130	0.743	25	
tert-Amyl Methyl Ether (TAME)	0.0186	0.0010	mg/Kg wet	0.0200		92.9	70-130	3.18	25	
Benzene	0.0176	0.0020	mg/Kg wet	0.0200		87.8	70-130	0.342	25	
Bromobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	11.1	25	
Bromochloromethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	3.24	25	
Bromodichloromethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	3.87	25	
Bromoform	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130	12.5	25	
Bromomethane	0.0124	0.010	mg/Kg wet	0.0200		62.1	40-130	9.62	25	V-34 †
2-Butanone (MEK)	0.179	0.040	mg/Kg wet	0.200		89.5	70-160	0.572	25	†
tert-Butyl Alcohol (TBA)	0.194	0.040	mg/Kg wet	0.200		96.8	40-130	0.300	25	†
n-Butylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	8.90	25	
sec-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3	70-130	5.89	25	
tert-Butylbenzene	0.0179	0.0020	mg/Kg wet	0.0200		89.4	70-160	8.77	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0174	0.0010	mg/Kg wet	0.0200		87.2	70-130	0.115	25	
Carbon Disulfide	0.0223	0.0060	mg/Kg wet	0.0200		111	70-130	6.77	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202806 - SW-846 5035										
LCS Dup (B202806-BSD1)				Prepared & Analyzed: 05/08/18						
Carbon Tetrachloride	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	0.882	25	
Chlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	7.95	25	
Chlorodibromomethane	0.0230	0.0010	mg/Kg wet	0.0200		115	70-130	6.79	25	
Chloroethane	0.0163	0.020	mg/Kg wet	0.0200		81.5	70-130	12.7	25	J
Chloroform	0.0186	0.0040	mg/Kg wet	0.0200		93.1	70-130	2.96	25	
Chloromethane	0.0122	0.010	mg/Kg wet	0.0200		61.0	* 70-130	0.164	25	L-04, V-05
2-Chlorotoluene	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130	9.81	25	
4-Chlorotoluene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	8.62	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	3.07	25	
1,2-Dibromoethane (EDB)	0.0224	0.0010	mg/Kg wet	0.0200		112	70-130	4.36	25	
Dibromomethane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	0.964	25	
1,2-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	6.15	25	
1,3-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	6.71	25	
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130	6.34	25	
trans-1,4-Dichloro-2-butene	0.0218	0.0040	mg/Kg wet	0.0200		109	70-130	7.43	25	
Dichlorodifluoromethane (Freon 12)	0.0110	0.020	mg/Kg wet	0.0200		55.0	40-160	1.08	25	V-34, J †
1,1-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	0.328	25	
1,2-Dichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.283	25	
1,1-Dichloroethylene	0.0230	0.0040	mg/Kg wet	0.0200		115	70-130	9.44	25	
cis-1,2-Dichloroethylene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	0.218	25	
trans-1,2-Dichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130	2.22	25	
1,2-Dichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130	2.23	25	
1,3-Dichloropropane	0.0208	0.0010	mg/Kg wet	0.0200		104	70-130	4.50	25	
2,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.65	25	
1,1-Dichloropropene	0.0176	0.0020	mg/Kg wet	0.0200		88.1	70-130	5.41	25	
cis-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.7	70-130	7.56	25	
trans-1,3-Dichloropropene	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	2.10	25	
Diethyl Ether	0.0186	0.020	mg/Kg wet	0.0200		93.2	70-130	1.81	25	J
Diisopropyl Ether (DIPE)	0.0163	0.0010	mg/Kg wet	0.0200		81.5	70-130	2.06	25	
1,4-Dioxane	0.190	0.10	mg/Kg wet	0.200		95.0	40-160	12.4	50	† ‡
Ethylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	7.39	25	
Hexachlorobutadiene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-160	9.95	25	
2-Hexanone (MBK)	0.212	0.020	mg/Kg wet	0.200		106	70-160	0.207	25	†
Isopropylbenzene (Cumene)	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	9.58	25	
p-Isopropyltoluene (p-Cymene)	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130	10.9	25	
Methyl Acetate	0.00956	0.0020	mg/Kg wet	0.0200		47.8	* 70-130	4.50	25	L-04
Methyl tert-Butyl Ether (MTBE)	0.0213	0.0040	mg/Kg wet	0.0200		106	70-130	3.83	25	
Methyl Cyclohexane	0.0169	0.0020	mg/Kg wet	0.0200		84.3	70-130	4.29	25	
Methylene Chloride	0.0170	0.020	mg/Kg wet	0.0200		85.0	40-160	1.30	25	J †
4-Methyl-2-pentanone (MIBK)	0.204	0.020	mg/Kg wet	0.200		102	70-160	2.21	25	†
Naphthalene	0.0220	0.0040	mg/Kg wet	0.0200		110	40-130	1.19	25	†
n-Propylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	11.5	25	
Styrene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	9.49	25	
1,1,1,2-Tetrachloroethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	4.38	25	
1,1,2,2-Tetrachloroethane	0.0230	0.0010	mg/Kg wet	0.0200		115	70-130	0.261	25	
Tetrachloroethylene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	3.57	25	
Tetrahydrofuran	0.0197	0.010	mg/Kg wet	0.0200		98.6	70-130	11.9	25	
Toluene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130	2.29	25	
1,2,3-Trichlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130	3.16	25	
1,2,4-Trichlorobenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	2.33	25	
1,3,5-Trichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	3.90	25	
1,1,1-Trichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130	3.72	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202806 - SW-846 5035

LCS Dup (B202806-BSD1)

Prepared & Analyzed: 05/08/18

1,1,2-Trichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	8.78	25	
Trichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130	3.61	25	
Trichlorofluoromethane (Freon 11)	0.0178	0.010	mg/Kg wet	0.0200		89.0	70-130	4.13	25	
1,2,3-Trichloropropane	0.0251	0.0020	mg/Kg wet	0.0200		126	70-130	6.03	25	V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0211	0.010	mg/Kg wet	0.0200		105	70-130	11.0	25	V-20
1,2,4-Trimethylbenzene	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130	12.4	25	
1,3,5-Trimethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	8.80	25	
Vinyl Chloride	0.0153	0.010	mg/Kg wet	0.0200		76.3	40-130	5.25	25	†
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.8	70-130	6.45	25	
o-Xylene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	7.34	25	
Surrogate: 1,2-Dichloroethane-d4	0.0486		mg/Kg wet	0.0500		97.2	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0520		mg/Kg wet	0.0500		104	70-130			

Batch B202827 - SW-846 5035

Blank (B202827-BLK1)

Prepared: 05/08/18 Analyzed: 05/16/18

Acetone	ND	2.5	mg/Kg							
Acrylonitrile	ND	0.25	mg/Kg							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg							
Benzene	ND	0.050	mg/Kg							
Bromobenzene	ND	0.050	mg/Kg							
Bromochloromethane	ND	0.050	mg/Kg							
Bromodichloromethane	ND	0.050	mg/Kg							
Bromoform	ND	0.050	mg/Kg							
Bromomethane	ND	0.10	mg/Kg							
2-Butanone (MEK)	ND	1.0	mg/Kg							
tert-Butyl Alcohol (TBA)	ND	1.0	mg/Kg							
n-Butylbenzene	ND	0.050	mg/Kg							
sec-Butylbenzene	ND	0.050	mg/Kg							
tert-Butylbenzene	ND	0.050	mg/Kg							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg							
Carbon Disulfide	ND	0.15	mg/Kg							
Carbon Tetrachloride	ND	0.050	mg/Kg							
Chlorobenzene	ND	0.050	mg/Kg							
Chlorodibromomethane	ND	0.025	mg/Kg							
Chloroethane	ND	0.10	mg/Kg							
Chloroform	ND	0.10	mg/Kg							
Chloromethane	ND	0.10	mg/Kg							L-04
2-Chlorotoluene	ND	0.050	mg/Kg							
4-Chlorotoluene	ND	0.050	mg/Kg							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg							
Dibromomethane	ND	0.050	mg/Kg							
1,2-Dichlorobenzene	ND	0.050	mg/Kg							
1,3-Dichlorobenzene	ND	0.050	mg/Kg							
1,4-Dichlorobenzene	ND	0.050	mg/Kg							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg							L-04
1,1-Dichloroethane	ND	0.050	mg/Kg							
1,2-Dichloroethane	ND	0.050	mg/Kg							
1,1-Dichloroethylene	ND	0.050	mg/Kg							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202827 - SW-846 5035										
Blank (B202827-BLK1)				Prepared: 05/08/18 Analyzed: 05/16/18						
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg							
1,2-Dichloropropane	ND	0.050	mg/Kg							
1,3-Dichloropropane	ND	0.025	mg/Kg							
2,2-Dichloropropane	ND	0.050	mg/Kg							L-04, V-05
1,1-Dichloropropene	ND	0.10	mg/Kg							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg							
Diethyl Ether	ND	0.10	mg/Kg							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg							
1,4-Dioxane	ND	5.0	mg/Kg							
Ethylbenzene	ND	0.050	mg/Kg							
Hexachlorobutadiene	ND	0.050	mg/Kg							
2-Hexanone (MBK)	ND	0.50	mg/Kg							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg							
Methyl Acetate	ND	0.50	mg/Kg							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg							
Methyl Cyclohexane	ND	0.050	mg/Kg							
Methylene Chloride	ND	0.25	mg/Kg							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg							
Naphthalene	ND	0.10	mg/Kg							
n-Propylbenzene	ND	0.050	mg/Kg							
Styrene	ND	0.050	mg/Kg							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg							
Tetrachloroethylene	ND	0.050	mg/Kg							
Tetrahydrofuran	ND	0.50	mg/Kg							
Toluene	ND	0.050	mg/Kg							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg							
1,3,5-Trichlorobenzene	ND	0.050	mg/Kg							
1,1,1-Trichloroethane	ND	0.050	mg/Kg							
1,1,2-Trichloroethane	ND	0.050	mg/Kg							
Trichloroethylene	ND	0.050	mg/Kg							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg							
1,2,3-Trichloropropane	ND	0.10	mg/Kg							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg							
Vinyl Chloride	ND	0.10	mg/Kg							
m+p Xylene	ND	0.10	mg/Kg							
o-Xylene	ND	0.050	mg/Kg							
Surrogate: 1,2-Dichloroethane-d4	0.0241		mg/Kg	0.0250		96.4	70-130			
Surrogate: Toluene-d8	0.0245		mg/Kg	0.0250		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.0252		mg/Kg	0.0250		101	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202827 - SW-846 5035										
LCS (B202827-BS1)										
Prepared: 05/08/18 Analyzed: 05/16/18										
Acetone	0.102	0.057	mg/Kg	0.113		89.7	70-160			†
Acrylonitrile	0.0102	0.0057	mg/Kg	0.0113		89.8	70-130			
tert-Amyl Methyl Ether (TAME)	0.0106	0.00057	mg/Kg	0.0113		93.8	70-130			
Benzene	0.0112	0.0011	mg/Kg	0.0113		98.5	70-130			
Bromobenzene	0.0126	0.0011	mg/Kg	0.0113		111	70-130			
Bromochloromethane	0.0135	0.0011	mg/Kg	0.0113		120	70-130			
Bromodichloromethane	0.0118	0.0011	mg/Kg	0.0113		104	70-130			
Bromoform	0.0133	0.0011	mg/Kg	0.0113		118	70-130			
Bromomethane	0.00747	0.0023	mg/Kg	0.0113		65.9	40-130			†
2-Butanone (MEK)	0.101	0.023	mg/Kg	0.113		89.1	70-160			†
tert-Butyl Alcohol (TBA)	0.123	0.023	mg/Kg	0.113		108	40-130			†
n-Butylbenzene	0.0130	0.0011	mg/Kg	0.0113		115	70-130			
sec-Butylbenzene	0.0120	0.0011	mg/Kg	0.0113		106	70-130			
tert-Butylbenzene	0.0120	0.0011	mg/Kg	0.0113		106	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0100	0.00057	mg/Kg	0.0113		88.4	70-130			
Carbon Disulfide	0.0128	0.0034	mg/Kg	0.0113		112	70-130			
Carbon Tetrachloride	0.0129	0.0011	mg/Kg	0.0113		113	70-130			
Chlorobenzene	0.0124	0.0011	mg/Kg	0.0113		110	70-130			
Chlorodibromomethane	0.0123	0.00057	mg/Kg	0.0113		108	70-130			
Chloroethane	0.00932	0.0023	mg/Kg	0.0113		82.2	70-130			
Chloroform	0.0118	0.0023	mg/Kg	0.0113		104	70-130			
Chloromethane	0.00711	0.0023	mg/Kg	0.0113		62.7	* 70-130			L-04
2-Chlorotoluene	0.0119	0.0011	mg/Kg	0.0113		105	70-130			
4-Chlorotoluene	0.0119	0.0011	mg/Kg	0.0113		105	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0125	0.0057	mg/Kg	0.0113		110	70-130			
1,2-Dibromoethane (EDB)	0.0127	0.00057	mg/Kg	0.0113		112	70-130			
Dibromomethane	0.0124	0.0011	mg/Kg	0.0113		109	70-130			
1,2-Dichlorobenzene	0.0120	0.0011	mg/Kg	0.0113		106	70-130			
1,3-Dichlorobenzene	0.0123	0.0011	mg/Kg	0.0113		108	70-130			
1,4-Dichlorobenzene	0.0119	0.0011	mg/Kg	0.0113		105	70-130			
trans-1,4-Dichloro-2-butene	0.00936	0.0023	mg/Kg	0.0113		82.6	70-130			
Dichlorodifluoromethane (Freon 12)	0.00432	0.0023	mg/Kg	0.0113		38.1	* 40-160			L-04, V-34 †
1,1-Dichloroethane	0.0116	0.0011	mg/Kg	0.0113		102	70-130			
1,2-Dichloroethane	0.0118	0.0011	mg/Kg	0.0113		104	70-130			
1,1-Dichloroethylene	0.0113	0.0011	mg/Kg	0.0113		99.9	70-130			
cis-1,2-Dichloroethylene	0.0107	0.0011	mg/Kg	0.0113		94.3	70-130			
trans-1,2-Dichloroethylene	0.0110	0.0011	mg/Kg	0.0113		97.4	70-130			
1,2-Dichloropropane	0.0119	0.0011	mg/Kg	0.0113		105	70-130			
1,3-Dichloropropane	0.0113	0.00057	mg/Kg	0.0113		100	70-130			
2,2-Dichloropropane	0.00779	0.0011	mg/Kg	0.0113		68.7	* 70-130			V-05, L-04
1,1-Dichloropropene	0.0117	0.0023	mg/Kg	0.0113		103	70-130			
cis-1,3-Dichloropropene	0.0105	0.00057	mg/Kg	0.0113		92.9	70-130			
trans-1,3-Dichloropropene	0.0111	0.00057	mg/Kg	0.0113		98.0	70-130			
Diethyl Ether	0.0111	0.0023	mg/Kg	0.0113		97.9	70-130			
Diisopropyl Ether (DIPE)	0.00997	0.00057	mg/Kg	0.0113		88.0	70-130			
1,4-Dioxane	0.133	0.11	mg/Kg	0.113		118	40-160			†
Ethylbenzene	0.0126	0.0011	mg/Kg	0.0113		111	70-130			
Hexachlorobutadiene	0.0155	0.0011	mg/Kg	0.0113		136	70-160			V-20
2-Hexanone (MBK)	0.106	0.011	mg/Kg	0.113		93.7	70-160			†
Isopropylbenzene (Cumene)	0.0127	0.0011	mg/Kg	0.0113		112	70-130			
p-Isopropyltoluene (p-Cymene)	0.0123	0.0011	mg/Kg	0.0113		109	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0113	0.0011	mg/Kg	0.0113		99.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202827 - SW-846 5035										
LCS (B202827-BS1)										
Prepared: 05/08/18 Analyzed: 05/16/18										
Methylene Chloride	0.00957	0.0057	mg/Kg	0.0113		84.4	40-160			†
4-Methyl-2-pentanone (MIBK)	0.103	0.011	mg/Kg	0.113		90.5	70-160			†
Naphthalene	0.0107	0.0023	mg/Kg	0.0113		94.0	40-130			†
n-Propylbenzene	0.0121	0.0011	mg/Kg	0.0113		106	70-130			
Styrene	0.0125	0.0011	mg/Kg	0.0113		110	70-130			
1,1,1,2-Tetrachloroethane	0.0133	0.0011	mg/Kg	0.0113		117	70-130			
1,1,2,2-Tetrachloroethane	0.0122	0.00057	mg/Kg	0.0113		107	70-130			
Tetrachloroethylene	0.0136	0.0011	mg/Kg	0.0113		120	70-130			
Tetrahydrofuran	0.0104	0.011	mg/Kg	0.0113		92.0	70-130			
Toluene	0.0116	0.0011	mg/Kg	0.0113		103	70-130			
1,2,3-Trichlorobenzene	0.0112	0.0057	mg/Kg	0.0113		98.4	70-130			
1,2,4-Trichlorobenzene	0.0110	0.0011	mg/Kg	0.0113		96.7	70-130			
1,3,5-Trichlorobenzene	0.0120	0.0011	mg/Kg	0.0113		106	70-130			
1,1,1-Trichloroethane	0.0120	0.0011	mg/Kg	0.0113		106	70-130			
1,1,2-Trichloroethane	0.0122	0.0011	mg/Kg	0.0113		108	70-130			
Trichloroethylene	0.0120	0.0011	mg/Kg	0.0113		106	70-130			
Trichlorofluoromethane (Freon 11)	0.00938	0.0023	mg/Kg	0.0113		82.8	70-130			
1,2,3-Trichloropropane	0.0129	0.0023	mg/Kg	0.0113		114	70-130			V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0109	0.0011	mg/Kg	0.0113		96.5	70-130			
1,2,4-Trimethylbenzene	0.0121	0.0011	mg/Kg	0.0113		106	70-130			
1,3,5-Trimethylbenzene	0.0121	0.0011	mg/Kg	0.0113		106	70-130			
Vinyl Chloride	0.00898	0.0023	mg/Kg	0.0113		79.2	40-130			†
m+p Xylene	0.0250	0.0023	mg/Kg	0.0227		110	70-130			
o-Xylene	0.0120	0.0011	mg/Kg	0.0113		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0268		mg/Kg	0.0283		94.7	70-130			
Surrogate: Toluene-d8	0.0277		mg/Kg	0.0283		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0289		mg/Kg	0.0283		102	70-130			
LCS Dup (B202827-BS1)										
Prepared: 05/08/18 Analyzed: 05/16/18										
Acetone	0.0967	0.057	mg/Kg	0.113		85.3	70-160	5.04	25	†
Acrylonitrile	0.0103	0.0057	mg/Kg	0.0113		90.5	70-130	0.777	25	
tert-Amyl Methyl Ether (TAME)	0.0104	0.00057	mg/Kg	0.0113		92.0	70-130	1.94	25	
Benzene	0.0110	0.0011	mg/Kg	0.0113		97.0	70-130	1.53	25	
Bromobenzene	0.0124	0.0011	mg/Kg	0.0113		109	70-130	1.54	25	
Bromochloromethane	0.0132	0.0011	mg/Kg	0.0113		117	70-130	2.46	25	
Bromodichloromethane	0.0117	0.0011	mg/Kg	0.0113		103	70-130	0.867	25	
Bromoform	0.0133	0.0011	mg/Kg	0.0113		118	70-130	0.0850	25	
Bromomethane	0.00771	0.0023	mg/Kg	0.0113		68.0	40-130	3.14	25	†
2-Butanone (MEK)	0.0965	0.023	mg/Kg	0.113		85.1	70-160	4.58	25	†
tert-Butyl Alcohol (TBA)	0.112	0.023	mg/Kg	0.113		99.0	40-130	9.05	25	†
n-Butylbenzene	0.0116	0.0011	mg/Kg	0.0113		102	70-130	11.5	25	
sec-Butylbenzene	0.0112	0.0011	mg/Kg	0.0113		98.6	70-130	6.86	25	
tert-Butylbenzene	0.0113	0.0011	mg/Kg	0.0113		99.4	70-160	6.52	25	†
tert-Butyl Ethyl Ether (TBEE)	0.00980	0.00057	mg/Kg	0.0113		86.5	70-130	2.17	25	
Carbon Disulfide	0.0120	0.0034	mg/Kg	0.0113		106	70-130	5.95	25	
Carbon Tetrachloride	0.0120	0.0011	mg/Kg	0.0113		106	70-130	6.56	25	
Chlorobenzene	0.0121	0.0011	mg/Kg	0.0113		107	70-130	2.58	25	
Chlorodibromomethane	0.0125	0.00057	mg/Kg	0.0113		110	70-130	1.56	25	
Chloroethane	0.00946	0.0023	mg/Kg	0.0113		83.5	70-130	1.57	25	
Chloroform	0.0114	0.0023	mg/Kg	0.0113		101	70-130	3.03	25	
Chloromethane	0.00666	0.0023	mg/Kg	0.0113		58.8	* 70-130	6.42	25	L-04
2-Chlorotoluene	0.0117	0.0011	mg/Kg	0.0113		104	70-130	1.44	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202827 - SW-846 5035										
LCS Dup (B202827-BSD1)										
Prepared: 05/08/18 Analyzed: 05/16/18										
4-Chlorotoluene	0.0119	0.0011	mg/Kg	0.0113		105	70-130	0.286	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0116	0.0057	mg/Kg	0.0113		102	70-130	7.34	25	
1,2-Dibromoethane (EDB)	0.0127	0.00057	mg/Kg	0.0113		112	70-130	0.0893	25	
Dibromomethane	0.0120	0.0011	mg/Kg	0.0113		106	70-130	2.51	25	
1,2-Dichlorobenzene	0.0119	0.0011	mg/Kg	0.0113		105	70-130	0.570	25	
1,3-Dichlorobenzene	0.0121	0.0011	mg/Kg	0.0113		107	70-130	1.30	25	
1,4-Dichlorobenzene	0.0118	0.0011	mg/Kg	0.0113		104	70-130	0.382	25	
trans-1,4-Dichloro-2-butene	0.00936	0.0023	mg/Kg	0.0113		82.6	70-130	0.00	25	
Dichlorodifluoromethane (Freon 12)	0.00390	0.0023	mg/Kg	0.0113		34.4	* 40-160	10.2	25	L-04, V-34 †
1,1-Dichloroethane	0.0110	0.0011	mg/Kg	0.0113		97.5	70-130	4.61	25	
1,2-Dichloroethane	0.0114	0.0011	mg/Kg	0.0113		101	70-130	2.84	25	
1,1-Dichloroethylene	0.0110	0.0011	mg/Kg	0.0113		96.7	70-130	3.26	25	
cis-1,2-Dichloroethylene	0.0103	0.0011	mg/Kg	0.0113		90.6	70-130	4.00	25	
trans-1,2-Dichloroethylene	0.0107	0.0011	mg/Kg	0.0113		94.6	70-130	2.92	25	
1,2-Dichloropropane	0.0115	0.0011	mg/Kg	0.0113		102	70-130	3.48	25	
1,3-Dichloropropane	0.0115	0.00057	mg/Kg	0.0113		102	70-130	1.39	25	
2,2-Dichloropropane	0.00732	0.0011	mg/Kg	0.0113		64.6	* 70-130	6.15	25	L-04, V-05
1,1-Dichloropropene	0.0114	0.0023	mg/Kg	0.0113		100	70-130	2.55	25	
cis-1,3-Dichloropropene	0.0107	0.00057	mg/Kg	0.0113		94.3	70-130	1.50	25	
trans-1,3-Dichloropropene	0.0112	0.00057	mg/Kg	0.0113		98.4	70-130	0.407	25	
Diethyl Ether	0.0109	0.0023	mg/Kg	0.0113		95.8	70-130	2.17	25	
Diisopropyl Ether (DIPE)	0.00963	0.00057	mg/Kg	0.0113		85.0	70-130	3.47	25	
1,4-Dioxane	0.113	0.11	mg/Kg	0.113		99.4	40-160	16.7	50	† ‡
Ethylbenzene	0.0123	0.0011	mg/Kg	0.0113		109	70-130	1.82	25	
Hexachlorobutadiene	0.0134	0.0011	mg/Kg	0.0113		118	70-160	14.3	25	V-20
2-Hexanone (MBK)	0.104	0.011	mg/Kg	0.113		92.1	70-160	1.74	25	†
Isopropylbenzene (Cumene)	0.0125	0.0011	mg/Kg	0.0113		111	70-130	1.53	25	
p-Isopropyltoluene (p-Cymene)	0.0118	0.0011	mg/Kg	0.0113		104	70-130	4.80	25	
Methyl tert-Butyl Ether (MTBE)	0.0112	0.0011	mg/Kg	0.0113		99.0	70-130	0.303	25	
Methylene Chloride	0.00944	0.0057	mg/Kg	0.0113		83.3	40-160	1.31	25	†
4-Methyl-2-pentanone (MIBK)	0.102	0.011	mg/Kg	0.113		89.6	70-160	1.00	25	†
Naphthalene	0.0106	0.0023	mg/Kg	0.0113		93.3	40-130	0.747	25	†
n-Propylbenzene	0.0118	0.0011	mg/Kg	0.0113		104	70-130	2.38	25	
Styrene	0.0124	0.0011	mg/Kg	0.0113		110	70-130	0.273	25	
1,1,1,2-Tetrachloroethane	0.0130	0.0011	mg/Kg	0.0113		115	70-130	2.07	25	
1,1,2,2-Tetrachloroethane	0.0121	0.00057	mg/Kg	0.0113		107	70-130	0.187	25	
Tetrachloroethylene	0.0134	0.0011	mg/Kg	0.0113		118	70-130	1.09	25	
Tetrahydrofuran	0.00978	0.011	mg/Kg	0.0113		86.3	70-130	6.39	25	
Toluene	0.0116	0.0011	mg/Kg	0.0113		103	70-130	0.00	25	
1,2,3-Trichlorobenzene	0.0112	0.0057	mg/Kg	0.0113		99.1	70-130	0.709	25	
1,2,4-Trichlorobenzene	0.0110	0.0011	mg/Kg	0.0113		97.0	70-130	0.310	25	
1,3,5-Trichlorobenzene	0.0118	0.0011	mg/Kg	0.0113		104	70-130	2.00	25	
1,1,1-Trichloroethane	0.0117	0.0011	mg/Kg	0.0113		103	70-130	2.39	25	
1,1,2-Trichloroethane	0.0123	0.0011	mg/Kg	0.0113		108	70-130	0.278	25	
Trichloroethylene	0.0122	0.0011	mg/Kg	0.0113		107	70-130	0.936	25	
Trichlorofluoromethane (Freon 11)	0.00923	0.0023	mg/Kg	0.0113		81.4	70-130	1.71	25	
1,2,3-Trichloropropane	0.0130	0.0023	mg/Kg	0.0113		115	70-130	0.524	25	V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0109	0.0011	mg/Kg	0.0113		96.0	70-130	0.520	25	
1,2,4-Trimethylbenzene	0.0115	0.0011	mg/Kg	0.0113		102	70-130	4.32	25	
1,3,5-Trimethylbenzene	0.0118	0.0011	mg/Kg	0.0113		104	70-130	2.38	25	
Vinyl Chloride	0.00872	0.0023	mg/Kg	0.0113		76.9	40-130	2.95	25	†

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202827 - SW-846 5035
LCS Dup (B202827-BSD1)

Prepared: 05/08/18 Analyzed: 05/16/18

m+p Xylene	0.0244	0.0023	mg/Kg	0.0227		108	70-130	2.29	25	
o-Xylene	0.0118	0.0011	mg/Kg	0.0113		104	70-130	1.34	25	
Surrogate: 1,2-Dichloroethane-d4	0.0264		mg/Kg	0.0283		93.2	70-130			
Surrogate: Toluene-d8	0.0278		mg/Kg	0.0283		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.0291		mg/Kg	0.0283		103	70-130			

Batch B203365 - SW-846 5030B
Blank (B203365-BLK1)

Prepared & Analyzed: 05/15/18

Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203365 - SW-846 5030B										
Blank (B203365-BLK1)										
Prepared & Analyzed: 05/15/18										
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	100	µg/L							V-05
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							L-04
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.3		µg/L	25.0		93.1	70-130			
Surrogate: Toluene-d8	24.3		µg/L	25.0		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.0	70-130			
LCS (B203365-BS1)										
Prepared & Analyzed: 05/15/18										
Acetone	83.4	50	µg/L	100		83.4	70-160			†
Acrylonitrile	8.96	5.0	µg/L	10.0		89.6	70-130			
tert-Amyl Methyl Ether (TAME)	9.36	0.50	µg/L	10.0		93.6	70-130			
Benzene	10.1	1.0	µg/L	10.0		101	70-130			
Bromobenzene	11.5	1.0	µg/L	10.0		115	70-130			
Bromochloromethane	12.0	1.0	µg/L	10.0		120	70-130			
Bromodichloromethane	10.8	0.50	µg/L	10.0		108	70-130			
Bromoform	12.1	1.0	µg/L	10.0		121	70-130			
Bromomethane	6.48	2.0	µg/L	10.0		64.8	40-160			†
2-Butanone (MEK)	85.7	20	µg/L	100		85.7	40-160			†
tert-Butyl Alcohol (TBA)	95.6	20	µg/L	100		95.6	40-160			†
n-Butylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203365 - SW-846 5030B										
LCS (B203365-BS1)				Prepared & Analyzed: 05/15/18						
tert-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butyl Ethyl Ether (TBEE)	8.91	0.50	µg/L	10.0		89.1	70-130			
Carbon Disulfide	11.1	4.0	µg/L	10.0		111	70-130			
Carbon Tetrachloride	10.8	5.0	µg/L	10.0		108	70-130			
Chlorobenzene	11.5	1.0	µg/L	10.0		115	70-130			
Chlorodibromomethane	11.2	0.50	µg/L	10.0		112	70-130			
Chloroethane	8.47	2.0	µg/L	10.0		84.7	70-130			
Chloroform	10.4	2.0	µg/L	10.0		104	70-130			
Chloromethane	6.36	2.0	µg/L	10.0		63.6	40-160			†
2-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130			
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106	70-130			
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130			
Dibromomethane	11.5	1.0	µg/L	10.0		115	70-130			
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130			
1,3-Dichlorobenzene	11.6	1.0	µg/L	10.0		116	70-130			
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
trans-1,4-Dichloro-2-butene	10.5	2.0	µg/L	10.0		105	70-130			
Dichlorodifluoromethane (Freon 12)	4.07	2.0	µg/L	10.0		40.7	40-160			V-34 †
1,1-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloroethane	10.8	1.0	µg/L	10.0		108	70-130			
1,1-Dichloroethylene	9.93	1.0	µg/L	10.0		99.3	70-130			
cis-1,2-Dichloroethylene	9.88	1.0	µg/L	10.0		98.8	70-130			
trans-1,2-Dichloroethylene	9.70	1.0	µg/L	10.0		97.0	70-130			
1,2-Dichloropropane	10.5	1.0	µg/L	10.0		105	70-130			
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130			
2,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	40-130			†
1,1-Dichloropropene	10.2	2.0	µg/L	10.0		102	70-130			
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0		103	70-130			
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110	70-130			
Diethyl Ether	9.80	2.0	µg/L	10.0		98.0	70-130			
Diisopropyl Ether (DIPE)	8.77	0.50	µg/L	10.0		87.7	70-130			
1,4-Dioxane	109	100	µg/L	100		109	40-130			V-05 †
Ethylbenzene	11.3	1.0	µg/L	10.0		113	70-130			
Hexachlorobutadiene	13.0	1.0	µg/L	10.0		130	70-130			
2-Hexanone (MBK)	94.0	10	µg/L	100		94.0	70-160			†
Isopropylbenzene (Cumene)	11.6	1.0	µg/L	10.0		116	70-130			
p-Isopropyltoluene (p-Cymene)	11.0	1.0	µg/L	10.0		110	70-130			
Methyl Acetate	5.84	1.0	µg/L	10.0		58.4 *	70-130			L-04
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102	70-130			
Methyl Cyclohexane	9.86	1.0	µg/L	10.0		98.6	70-130			
Methylene Chloride	8.47	5.0	µg/L	10.0		84.7	70-130			
4-Methyl-2-pentanone (MIBK)	90.8	10	µg/L	100		90.8	70-160			†
Naphthalene	11.6	2.0	µg/L	10.0		116	40-130			†
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Styrene	11.4	1.0	µg/L	10.0		114	70-130			
1,1,1,2-Tetrachloroethane	11.9	1.0	µg/L	10.0		119	70-130			
1,1,2,2-Tetrachloroethane	11.5	0.50	µg/L	10.0		115	70-130			
Tetrachloroethylene	12.4	1.0	µg/L	10.0		124	70-130			
Tetrahydrofuran	9.08	10	µg/L	10.0		90.8	70-130			J
Toluene	10.7	1.0	µg/L	10.0		107	70-130			
1,2,3-Trichlorobenzene	11.0	5.0	µg/L	10.0		110	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203365 - SW-846 5030B										
LCS (B203365-BS1)										
Prepared & Analyzed: 05/15/18										
1,2,4-Trichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130			
1,3,5-Trichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130			
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,1,2-Trichloroethane	11.0	1.0	µg/L	10.0		110	70-130			
Trichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
Trichlorofluoromethane (Freon 11)	8.49	2.0	µg/L	10.0		84.9	70-130			
1,2,3-Trichloropropane	11.9	2.0	µg/L	10.0		119	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.66	1.0	µg/L	10.0		96.6	70-130			
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3,5-Trimethylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
Vinyl Chloride	7.89	2.0	µg/L	10.0		78.9	40-160			†
m+p Xylene	22.4	2.0	µg/L	20.0		112	70-130			
o-Xylene	11.0	1.0	µg/L	10.0		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.3		µg/L	25.0		93.0	70-130			
Surrogate: Toluene-d8	24.5		µg/L	25.0		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	25.4		µg/L	25.0		102	70-130			
LCS Dup (B203365-BS1)										
Prepared & Analyzed: 05/15/18										
Acetone	84.8	50	µg/L	100		84.8	70-160	1.78	25	†
Acrylonitrile	9.15	5.0	µg/L	10.0		91.5	70-130	2.10	25	
tert-Amyl Methyl Ether (TAME)	9.62	0.50	µg/L	10.0		96.2	70-130	2.74	25	
Benzene	10.1	1.0	µg/L	10.0		101	70-130	0.0987	25	
Bromobenzene	11.7	1.0	µg/L	10.0		117	70-130	1.47	25	
Bromochloromethane	11.8	1.0	µg/L	10.0		118	70-130	1.43	25	
Bromodichloromethane	10.5	0.50	µg/L	10.0		105	70-130	2.54	25	
Bromoform	12.2	1.0	µg/L	10.0		122	70-130	0.742	25	
Bromomethane	7.68	2.0	µg/L	10.0		76.8	40-160	16.9	25	†
2-Butanone (MEK)	84.8	20	µg/L	100		84.8	40-160	1.14	25	†
tert-Butyl Alcohol (TBA)	95.6	20	µg/L	100		95.6	40-160	0.0105	25	†
n-Butylbenzene	11.1	1.0	µg/L	10.0		111	70-130	1.34	25	
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130	0.761	25	
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130	0.473	25	
tert-Butyl Ethyl Ether (TBEE)	8.94	0.50	µg/L	10.0		89.4	70-130	0.336	25	
Carbon Disulfide	11.0	4.0	µg/L	10.0		110	70-130	0.635	25	
Carbon Tetrachloride	10.8	5.0	µg/L	10.0		108	70-130	0.462	25	
Chlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	2.47	25	
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109	70-130	3.35	25	
Chloroethane	8.41	2.0	µg/L	10.0		84.1	70-130	0.711	25	
Chloroform	10.5	2.0	µg/L	10.0		105	70-130	1.44	25	
Chloromethane	6.27	2.0	µg/L	10.0		62.7	40-160	1.43	25	†
2-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130	0.368	25	
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130	0.00	25	
1,2-Dibromo-3-chloropropane (DBCP)	10.3	5.0	µg/L	10.0		103	70-130	2.40	25	
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.0		114	70-130	0.523	25	
Dibromomethane	11.2	1.0	µg/L	10.0		112	70-130	2.82	25	
1,2-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	0.00	25	
1,3-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	2.72	25	
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	0.827	25	
trans-1,4-Dichloro-2-butene	9.98	2.0	µg/L	10.0		99.8	70-130	4.89	25	
Dichlorodifluoromethane (Freon 12)	3.95	2.0	µg/L	10.0		39.5	* 40-160	2.99	25	V-34, L-07 †
1,1-Dichloroethane	9.98	1.0	µg/L	10.0		99.8	70-130	1.89	25	
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130	3.77	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203365 - SW-846 5030B										
LCS Dup (B203365-BSD1)				Prepared & Analyzed: 05/15/18						
1,1-Dichloroethylene	9.89	1.0	µg/L	10.0		98.9	70-130	0.404	25	
cis-1,2-Dichloroethylene	9.85	1.0	µg/L	10.0		98.5	70-130	0.304	25	
trans-1,2-Dichloroethylene	9.71	1.0	µg/L	10.0		97.1	70-130	0.103	25	
1,2-Dichloropropane	10.6	1.0	µg/L	10.0		106	70-130	0.951	25	
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130	3.55	25	
2,2-Dichloropropane	10.0	1.0	µg/L	10.0		100	40-130	2.36	25	†
1,1-Dichloropropene	10.1	2.0	µg/L	10.0		101	70-130	1.08	25	
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130	1.17	25	
trans-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108	70-130	1.19	25	
Diethyl Ether	9.69	2.0	µg/L	10.0		96.9	70-130	1.13	25	
Diisopropyl Ether (DIPE)	8.75	0.50	µg/L	10.0		87.5	70-130	0.228	25	
1,4-Dioxane	92.7	100	µg/L	100		92.7	40-130	16.2	50	V-05, J † ‡
Ethylbenzene	11.2	1.0	µg/L	10.0		112	70-130	0.890	25	
Hexachlorobutadiene	12.8	1.0	µg/L	10.0		128	70-130	1.63	25	
2-Hexanone (MBK)	92.0	10	µg/L	100		92.0	70-160	2.15	25	†
Isopropylbenzene (Cumene)	11.3	1.0	µg/L	10.0		113	70-130	2.79	25	
p-Isopropyltoluene (p-Cymene)	10.9	1.0	µg/L	10.0		109	70-130	0.640	25	
Methyl Acetate	6.33	1.0	µg/L	10.0		63.3 *	70-130	8.05	25	L-04
Methyl tert-Butyl Ether (MTBE)	10.1	1.0	µg/L	10.0		101	70-130	0.689	25	
Methyl Cyclohexane	9.98	1.0	µg/L	10.0		99.8	70-130	1.21	25	
Methylene Chloride	8.68	5.0	µg/L	10.0		86.8	70-130	2.45	25	
4-Methyl-2-pentanone (MIBK)	89.4	10	µg/L	100		89.4	70-160	1.49	25	†
Naphthalene	11.0	2.0	µg/L	10.0		110	40-130	5.41	25	†
n-Propylbenzene	10.9	1.0	µg/L	10.0		109	70-130	1.46	25	
Styrene	11.5	1.0	µg/L	10.0		115	70-130	0.876	25	
1,1,1,2-Tetrachloroethane	11.9	1.0	µg/L	10.0		119	70-130	0.421	25	
1,1,2,2-Tetrachloroethane	11.4	0.50	µg/L	10.0		114	70-130	0.870	25	
Tetrachloroethylene	11.8	1.0	µg/L	10.0		118	70-130	4.80	25	
Tetrahydrofuran	8.65	10	µg/L	10.0		86.5	70-130	4.85	25	J
Toluene	10.5	1.0	µg/L	10.0		105	70-130	2.08	25	
1,2,3-Trichlorobenzene	10.9	5.0	µg/L	10.0		109	70-130	1.01	25	
1,2,4-Trichlorobenzene	10.6	1.0	µg/L	10.0		106	70-130	0.00	25	
1,3,5-Trichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	1.60	25	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	1.25	25	
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130	0.729	25	
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130	1.62	25	
Trichlorofluoromethane (Freon 11)	8.45	2.0	µg/L	10.0		84.5	70-130	0.472	25	
1,2,3-Trichloropropane	11.9	2.0	µg/L	10.0		119	70-130	0.00	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.81	1.0	µg/L	10.0		98.1	70-130	1.54	25	
1,2,4-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	0.740	25	
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.0		109	70-130	1.18	25	
Vinyl Chloride	7.81	2.0	µg/L	10.0		78.1	40-160	1.02	25	†
m+p Xylene	22.3	2.0	µg/L	20.0		112	70-130	0.358	25	
o-Xylene	11.0	1.0	µg/L	10.0		110	70-130	0.181	25	
Surrogate: 1,2-Dichloroethane-d4	23.4		µg/L	25.0		93.6	70-130			
Surrogate: Toluene-d8	24.2		µg/L	25.0		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	25.1		µg/L	25.0		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202931 - SW-846 3510C										
Blank (B202931-BLK1)				Prepared: 05/09/18 Analyzed: 05/11/18						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							R-05, V-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							V-20
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202931 - SW-846 3510C

Blank (B202931-BLK1)

Prepared: 05/09/18 Analyzed: 05/11/18

2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							V-05
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	102		µg/L	200		51.0	15-110			
Surrogate: Phenol-d6	74.2		µg/L	200		37.1	15-110			
Surrogate: Nitrobenzene-d5	67.7		µg/L	100		67.7	30-130			
Surrogate: 2-Fluorobiphenyl	59.6		µg/L	101		59.0	30-130			
Surrogate: 2,4,6-Tribromophenol	148		µg/L	200		73.8	15-110			
Surrogate: p-Terphenyl-d14	72.4		µg/L	101		71.7	30-130			

LCS (B202931-BS1)

Prepared: 05/09/18 Analyzed: 05/11/18

Acenaphthene	37.3	5.0	µg/L	50.0		74.6	40-140			
Acenaphthylene	34.7	5.0	µg/L	50.0		69.5	40-140			
Acetophenone	44.7	10	µg/L	50.0		89.5	40-140			
Aniline	35.2	5.0	µg/L	50.0		70.5	40-140			V-05
Anthracene	39.3	5.0	µg/L	50.0		78.5	40-140			
Benzidine	34.7	20	µg/L	50.0		69.4	40-140			R-05, V-04, V-05
Benzo(a)anthracene	37.4	5.0	µg/L	50.0		74.7	40-140			
Benzo(a)pyrene	40.6	5.0	µg/L	50.0		81.2	40-140			
Benzo(b)fluoranthene	39.3	5.0	µg/L	50.0		78.6	40-140			
Benzo(g,h,i)perylene	38.0	5.0	µg/L	50.0		76.1	40-140			
Benzo(k)fluoranthene	39.1	5.0	µg/L	50.0		78.3	40-140			
Benzoic Acid	15.0	10	µg/L	50.0		30.1	10-130			†
Bis(2-chloroethoxy)methane	43.4	10	µg/L	50.0		86.7	40-140			
Bis(2-chloroethyl)ether	42.7	10	µg/L	50.0		85.3	40-140			
Bis(2-chloroisopropyl)ether	48.2	10	µg/L	50.0		96.4	40-140			
Bis(2-Ethylhexyl)phthalate	35.4	10	µg/L	50.0		70.9	40-140			
4-Bromophenylphenylether	36.6	10	µg/L	50.0		73.1	40-140			
Butylbenzylphthalate	35.2	10	µg/L	50.0		70.4	40-140			
Carbazole	40.4	10	µg/L	50.0		80.9	40-140			
4-Chloroaniline	39.8	10	µg/L	50.0		79.7	40-140			V-34
4-Chloro-3-methylphenol	42.8	10	µg/L	50.0		85.6	30-130			
2-Chloronaphthalene	32.5	10	µg/L	50.0		65.0	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202931 - SW-846 3510C										
LCS (B202931-BS1)				Prepared: 05/09/18 Analyzed: 05/11/18						
2-Chlorophenol	38.9	10	µg/L	50.0		77.8	30-130			
4-Chlorophenylphenylether	38.6	10	µg/L	50.0		77.1	40-140			
Chrysene	37.6	5.0	µg/L	50.0		75.3	40-140			
Dibenz(a,h)anthracene	42.6	5.0	µg/L	50.0		85.2	40-140			
Dibenzofuran	38.2	5.0	µg/L	50.0		76.5	40-140			
Di-n-butylphthalate	37.3	10	µg/L	50.0		74.7	40-140			
1,2-Dichlorobenzene	35.2	5.0	µg/L	50.0		70.5	40-140			
1,3-Dichlorobenzene	32.8	5.0	µg/L	50.0		65.6	40-140			
1,4-Dichlorobenzene	33.7	5.0	µg/L	50.0		67.3	40-140			
3,3-Dichlorobenzidine	43.0	10	µg/L	50.0		85.9	40-140			
2,4-Dichlorophenol	40.2	10	µg/L	50.0		80.4	30-130			
Diethylphthalate	37.1	10	µg/L	50.0		74.2	40-140			
2,4-Dimethylphenol	41.8	10	µg/L	50.0		83.6	30-130			
Dimethylphthalate	38.1	10	µg/L	50.0		76.1	40-140			
4,6-Dinitro-2-methylphenol	41.9	10	µg/L	50.0		83.9	30-130			
2,4-Dinitrophenol	49.5	10	µg/L	50.0		98.9	30-130			
2,4-Dinitrotoluene	41.8	10	µg/L	50.0		83.7	40-140			
2,6-Dinitrotoluene	40.9	10	µg/L	50.0		81.8	40-140			
Di-n-octylphthalate	35.9	10	µg/L	50.0		71.8	40-140			V-06
1,2-Diphenylhydrazine (as Azobenzene)	34.4	10	µg/L	50.0		68.8	40-140			
Fluoranthene	40.6	5.0	µg/L	50.0		81.2	40-140			
Fluorene	38.3	5.0	µg/L	50.0		76.6	40-140			
Hexachlorobenzene	36.2	10	µg/L	50.0		72.5	40-140			
Hexachlorobutadiene	31.7	10	µg/L	50.0		63.4	40-140			
Hexachlorocyclopentadiene	24.2	10	µg/L	50.0		48.5	30-140			†
Hexachloroethane	31.9	10	µg/L	50.0		63.8	40-140			
Indeno(1,2,3-cd)pyrene	40.0	5.0	µg/L	50.0		80.1	40-140			
Isophorone	40.4	10	µg/L	50.0		80.7	40-140			
1-Methylnaphthalene	41.5	5.0	µg/L	50.0		82.9	40-140			
2-Methylnaphthalene	42.0	5.0	µg/L	50.0		84.0	40-140			
2-Methylphenol	33.7	10	µg/L	50.0		67.3	30-130			
3/4-Methylphenol	42.4	10	µg/L	50.0		84.7	30-130			
Naphthalene	35.4	5.0	µg/L	50.0		70.8	40-140			
2-Nitroaniline	40.0	10	µg/L	50.0		79.9	40-140			
3-Nitroaniline	39.7	10	µg/L	50.0		79.4	40-140			
4-Nitroaniline	43.8	10	µg/L	50.0		87.7	40-140			
Nitrobenzene	35.0	10	µg/L	50.0		70.0	40-140			
2-Nitrophenol	40.7	10	µg/L	50.0		81.4	30-130			
4-Nitrophenol	18.5	10	µg/L	50.0		37.1	10-130			V-05 †
N-Nitrosodimethylamine	24.5	10	µg/L	50.0		49.0	40-140			
N-Nitrosodiphenylamine	43.7	10	µg/L	50.0		87.3	40-140			
N-Nitrosodi-n-propylamine	46.0	10	µg/L	50.0		92.0	40-140			
Pentachloronitrobenzene	38.7	10	µg/L	50.0		77.4	40-140			
Pentachlorophenol	43.6	10	µg/L	50.0		87.2	30-130			
Phenanthrene	39.0	5.0	µg/L	50.0		78.1	40-140			
Phenol	20.4	10	µg/L	50.0		40.8	20-130			†
Pyrene	35.3	5.0	µg/L	50.0		70.6	40-140			
Pyridine	19.8	5.0	µg/L	50.0		39.6	10-140			†
1,2,4,5-Tetrachlorobenzene	33.4	10	µg/L	50.0		66.9	40-140			
1,2,4-Trichlorobenzene	34.1	5.0	µg/L	50.0		68.3	40-140			
2,4,5-Trichlorophenol	39.3	10	µg/L	50.0		78.7	30-130			
2,4,6-Trichlorophenol	37.1	10	µg/L	50.0		74.1	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202931 - SW-846 3510C										
LCS (B202931-BS1)										
Prepared: 05/09/18 Analyzed: 05/11/18										
Surrogate: 2-Fluorophenol	110		µg/L	200		54.8	15-110			
Surrogate: Phenol-d6	84.7		µg/L	200		42.4	15-110			
Surrogate: Nitrobenzene-d5	74.6		µg/L	100		74.6	30-130			
Surrogate: 2-Fluorobiphenyl	63.2		µg/L	101		62.6	30-130			
Surrogate: 2,4,6-Tribromophenol	179		µg/L	200		89.5	15-110			
Surrogate: p-Terphenyl-d14	75.4		µg/L	101		74.7	30-130			
LCS Dup (B202931-BSD1)										
Prepared: 05/09/18 Analyzed: 05/11/18										
Acenaphthene	34.0	5.0	µg/L	50.0		67.9	40-140	9.37	20	
Acenaphthylene	31.8	5.0	µg/L	50.0		63.6	40-140	8.84	20	
Acetophenone	40.2	10	µg/L	50.0		80.4	40-140	10.6	20	
Aniline	32.7	5.0	µg/L	50.0		65.5	40-140	7.36	50	V-05 ‡
Anthracene	35.6	5.0	µg/L	50.0		71.2	40-140	9.78	20	
Benzidine	19.1	20	µg/L	50.0		38.3 *	40-140	57.8 *	20	L-07A, V-04, V-05, J
Benzo(a)anthracene	33.2	5.0	µg/L	50.0		66.3	40-140	11.9	20	
Benzo(a)pyrene	35.4	5.0	µg/L	50.0		70.8	40-140	13.7	20	
Benzo(b)fluoranthene	34.8	5.0	µg/L	50.0		69.6	40-140	12.2	20	
Benzo(g,h,i)perylene	33.0	5.0	µg/L	50.0		65.9	40-140	14.3	20	
Benzo(k)fluoranthene	34.3	5.0	µg/L	50.0		68.6	40-140	13.1	20	
Benzoic Acid	18.2	10	µg/L	50.0		36.4	10-130	18.9	50	† ‡
Bis(2-chloroethoxy)methane	39.9	10	µg/L	50.0		79.9	40-140	8.24	20	
Bis(2-chloroethyl)ether	41.3	10	µg/L	50.0		82.7	40-140	3.17	20	
Bis(2-chloroisopropyl)ether	45.9	10	µg/L	50.0		91.8	40-140	4.89	20	
Bis(2-Ethylhexyl)phthalate	32.0	10	µg/L	50.0		64.0	40-140	10.1	20	
4-Bromophenylphenylether	33.1	10	µg/L	50.0		66.3	40-140	9.81	20	
Butylbenzylphthalate	32.0	10	µg/L	50.0		64.0	40-140	9.55	20	
Carbazole	36.1	10	µg/L	50.0		72.2	40-140	11.3	20	
4-Chloroaniline	36.6	10	µg/L	50.0		73.2	40-140	8.42	20	V-34
4-Chloro-3-methylphenol	37.8	10	µg/L	50.0		75.6	30-130	12.5	20	
2-Chloronaphthalene	30.2	10	µg/L	50.0		60.4	40-140	7.46	20	
2-Chlorophenol	37.2	10	µg/L	50.0		74.3	30-130	4.50	20	
4-Chlorophenylphenylether	34.8	10	µg/L	50.0		69.5	40-140	10.4	20	
Chrysene	33.8	5.0	µg/L	50.0		67.7	40-140	10.6	20	
Dibenz(a,h)anthracene	36.5	5.0	µg/L	50.0		73.0	40-140	15.4	20	
Dibenzofuran	34.4	5.0	µg/L	50.0		68.7	40-140	10.7	20	
Di-n-butylphthalate	33.8	10	µg/L	50.0		67.6	40-140	9.95	20	
1,2-Dichlorobenzene	34.7	5.0	µg/L	50.0		69.4	40-140	1.54	20	
1,3-Dichlorobenzene	32.5	5.0	µg/L	50.0		65.0	40-140	0.918	20	
1,4-Dichlorobenzene	33.9	5.0	µg/L	50.0		67.8	40-140	0.769	20	
3,3-Dichlorobenzidine	38.4	10	µg/L	50.0		76.7	40-140	11.3	20	
2,4-Dichlorophenol	36.8	10	µg/L	50.0		73.6	30-130	8.80	20	
Diethylphthalate	32.9	10	µg/L	50.0		65.9	40-140	12.0	20	
2,4-Dimethylphenol	38.8	10	µg/L	50.0		77.6	30-130	7.37	20	
Dimethylphthalate	34.4	10	µg/L	50.0		68.8	40-140	10.1	50	‡
4,6-Dinitro-2-methylphenol	37.2	10	µg/L	50.0		74.5	30-130	11.9	50	‡
2,4-Dinitrophenol	41.0	10	µg/L	50.0		81.9	30-130	18.8	50	‡
2,4-Dinitrotoluene	36.6	10	µg/L	50.0		73.2	40-140	13.4	20	
2,6-Dinitrotoluene	35.8	10	µg/L	50.0		71.7	40-140	13.2	20	
Di-n-octylphthalate	31.4	10	µg/L	50.0		62.8	40-140	13.5	20	V-06
1,2-Diphenylhydrazine (as Azobenzene)	32.4	10	µg/L	50.0		64.8	40-140	5.99	20	
Fluoranthene	36.6	5.0	µg/L	50.0		73.2	40-140	10.3	20	
Fluorene	34.3	5.0	µg/L	50.0		68.5	40-140	11.1	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202931 - SW-846 3510C

LCS Dup (B202931-BSD1)

Prepared: 05/09/18 Analyzed: 05/11/18

Hexachlorobenzene	33.2	10	µg/L	50.0		66.4	40-140	8.70	20	
Hexachlorobutadiene	31.8	10	µg/L	50.0		63.6	40-140	0.284	20	
Hexachlorocyclopentadiene	22.4	10	µg/L	50.0		44.9	30-140	7.71	50	† ‡
Hexachloroethane	32.2	10	µg/L	50.0		64.3	40-140	0.749	50	‡
Indeno(1,2,3-cd)pyrene	35.1	5.0	µg/L	50.0		70.2	40-140	13.1	50	‡
Isophorone	37.0	10	µg/L	50.0		74.0	40-140	8.61	20	
1-Methylnaphthalene	38.7	5.0	µg/L	50.0		77.5	40-140	6.81	20	
2-Methylnaphthalene	38.9	5.0	µg/L	50.0		77.8	40-140	7.76	20	
2-Methylphenol	30.9	10	µg/L	50.0		61.9	30-130	8.48	20	
3/4-Methylphenol	37.2	10	µg/L	50.0		74.4	30-130	12.9	20	
Naphthalene	33.4	5.0	µg/L	50.0		66.8	40-140	5.84	20	
2-Nitroaniline	35.7	10	µg/L	50.0		71.4	40-140	11.2	20	
3-Nitroaniline	34.9	10	µg/L	50.0		69.8	40-140	12.9	20	
4-Nitroaniline	36.4	10	µg/L	50.0		72.7	40-140	18.6	20	
Nitrobenzene	33.1	10	µg/L	50.0		66.2	40-140	5.58	20	
2-Nitrophenol	37.6	10	µg/L	50.0		75.3	30-130	7.79	20	
4-Nitrophenol	14.9	10	µg/L	50.0		29.8	10-130	21.9	50	V-05 † ‡
N-Nitrosodimethylamine	24.9	10	µg/L	50.0		49.8	40-140	1.66	20	
N-Nitrosodiphenylamine	40.3	10	µg/L	50.0		80.7	40-140	7.90	20	
N-Nitrosodi-n-propylamine	41.4	10	µg/L	50.0		82.7	40-140	10.6	20	
Pentachloronitrobenzene	35.4	10	µg/L	50.0		70.8	40-140	8.91	20	
Pentachlorophenol	38.6	10	µg/L	50.0		77.1	30-130	12.3	50	‡
Phenanthrene	35.4	5.0	µg/L	50.0		70.8	40-140	9.75	20	
Phenol	19.1	10	µg/L	50.0		38.1	20-130	6.74	20	†
Pyrene	31.6	5.0	µg/L	50.0		63.2	40-140	11.0	20	
Pyridine	18.6	5.0	µg/L	50.0		37.1	10-140	6.51	50	† ‡
1,2,4,5-Tetrachlorobenzene	31.4	10	µg/L	50.0		62.8	40-140	6.33	20	
1,2,4-Trichlorobenzene	33.7	5.0	µg/L	50.0		67.3	40-140	1.42	20	
2,4,5-Trichlorophenol	34.8	10	µg/L	50.0		69.7	30-130	12.2	20	
2,4,6-Trichlorophenol	33.7	10	µg/L	50.0		67.5	30-130	9.44	50	‡
Surrogate: 2-Fluorophenol	110		µg/L	200		55.1	15-110			
Surrogate: Phenol-d6	79.7		µg/L	200		39.8	15-110			
Surrogate: Nitrobenzene-d5	70.4		µg/L	100		70.4	30-130			
Surrogate: 2-Fluorobiphenyl	58.3		µg/L	101		57.7	30-130			
Surrogate: 2,4,6-Tribromophenol	153		µg/L	200		76.3	15-110			
Surrogate: p-Terphenyl-d14	65.9		µg/L	101		65.3	30-130			

Batch B203135 - SW-846 3546

Blank (B203135-BLK1)

Prepared: 05/11/18 Analyzed: 05/14/18

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benztidine	ND	0.66	mg/Kg wet							V-04, V-05
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							L-04, V-20
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203135 - SW-846 3546										
Blank (B203135-BLK1)										
Prepared: 05/11/18 Analyzed: 05/14/18										
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-20
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							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203135 - SW-846 3546										
Blank (B203135-BLK1)				Prepared: 05/11/18 Analyzed: 05/14/18						
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	4.79		mg/Kg wet	6.67		71.8	30-130			
Surrogate: Phenol-d6	5.09		mg/Kg wet	6.67		76.4	30-130			
Surrogate: Nitrobenzene-d5	2.08		mg/Kg wet	3.33		62.4	30-130			
Surrogate: 2-Fluorobiphenyl	1.88		mg/Kg wet	3.37		56.0	30-130			
Surrogate: 2,4,6-Tribromophenol	3.51		mg/Kg wet	6.67		52.6	30-130			
Surrogate: p-Terphenyl-d14	2.48		mg/Kg wet	3.37		73.7	30-130			
LCS (B203135-BS1)				Prepared: 05/11/18 Analyzed: 05/14/18						
Acenaphthene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140			
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.0	40-140			
Acetophenone	1.12	0.34	mg/Kg wet	1.67		67.2	40-140			
Aniline	0.605	0.34	mg/Kg wet	1.67		36.3	10-140			†
Anthracene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140			
Benidine	0.789	0.66	mg/Kg wet	1.67		47.4	40-140			V-04, V-05
Benzo(a)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140			
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Benzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.67		70.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Benzoic Acid	0.244	1.0	mg/Kg wet	1.61		15.1 *	30-130			L-04, V-06, J
Bis(2-chloroethoxy)methane	1.18	0.34	mg/Kg wet	1.67		70.6	40-140			
Bis(2-chloroethyl)ether	1.08	0.34	mg/Kg wet	1.67		64.7	40-140			
Bis(2-chloroisopropyl)ether	1.28	0.34	mg/Kg wet	1.67		77.0	40-140			V-06
Bis(2-Ethylhexyl)phthalate	1.10	0.34	mg/Kg wet	1.67		66.2	40-140			
4-Bromophenylphenylether	1.08	0.34	mg/Kg wet	1.67		65.0	40-140			
Butylbenzylphthalate	1.10	0.34	mg/Kg wet	1.67		66.0	40-140			
Carbazole	1.14	0.17	mg/Kg wet	1.67		68.3	40-140			
4-Chloroaniline	0.760	0.66	mg/Kg wet	1.67		45.6	10-140			V-34 †
4-Chloro-3-methylphenol	1.11	0.66	mg/Kg wet	1.67		66.6	30-130			
2-Chloronaphthalene	0.931	0.34	mg/Kg wet	1.67		55.9	40-140			
2-Chlorophenol	1.08	0.34	mg/Kg wet	1.67		64.6	30-130			
4-Chlorophenylphenylether	1.10	0.34	mg/Kg wet	1.67		65.9	40-140			
Chrysene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140			
Dibenz(a,h)anthracene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
Dibenzofuran	1.08	0.34	mg/Kg wet	1.67		64.9	40-140			
Di-n-butylphthalate	1.09	0.34	mg/Kg wet	1.67		65.4	40-140			
1,2-Dichlorobenzene	0.916	0.34	mg/Kg wet	1.67		55.0	40-140			
1,3-Dichlorobenzene	0.890	0.34	mg/Kg wet	1.67		53.4	40-140			
1,4-Dichlorobenzene	0.907	0.34	mg/Kg wet	1.67		54.4	40-140			
3,3-Dichlorobenzidine	0.759	0.17	mg/Kg wet	1.67		45.5	20-140			†
2,4-Dichlorophenol	1.10	0.34	mg/Kg wet	1.67		66.1	30-130			
Diethylphthalate	1.04	0.34	mg/Kg wet	1.67		62.5	40-140			
2,4-Dimethylphenol	1.25	0.34	mg/Kg wet	1.67		75.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203135 - SW-846 3546										
LCS (B203135-BS1)				Prepared: 05/11/18 Analyzed: 05/14/18						
Dimethylphthalate	1.09	0.34	mg/Kg wet	1.67		65.6	40-140			
4,6-Dinitro-2-methylphenol	0.858	0.34	mg/Kg wet	1.67		51.5	30-130			
2,4-Dinitrophenol	0.549	0.66	mg/Kg wet	1.67		33.0	30-130			J
2,4-Dinitrotoluene	1.16	0.34	mg/Kg wet	1.67		69.4	40-140			
2,6-Dinitrotoluene	1.12	0.34	mg/Kg wet	1.67		67.1	40-140			
Di-n-octylphthalate	1.08	0.34	mg/Kg wet	1.67		64.8	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.11	0.34	mg/Kg wet	1.67		66.4	40-140			
Fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140			
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Hexachlorobenzene	1.07	0.34	mg/Kg wet	1.67		64.3	40-140			
Hexachlorobutadiene	0.954	0.34	mg/Kg wet	1.67		57.2	40-140			
Hexachlorocyclopentadiene	0.803	0.34	mg/Kg wet	1.67		48.2	40-140			V-05
Hexachloroethane	0.917	0.34	mg/Kg wet	1.67		55.0	40-140			
Indeno(1,2,3-cd)pyrene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Isophorone	1.10	0.34	mg/Kg wet	1.67		66.1	40-140			
1-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
2-Methylphenol	1.04	0.34	mg/Kg wet	1.67		62.4	30-130			
3/4-Methylphenol	1.19	0.34	mg/Kg wet	1.67		71.4	30-130			
Naphthalene	0.996	0.17	mg/Kg wet	1.67		59.8	40-140			
2-Nitroaniline	1.14	0.34	mg/Kg wet	1.67		68.7	40-140			
3-Nitroaniline	0.981	0.34	mg/Kg wet	1.67		58.9	30-140			†
4-Nitroaniline	1.13	0.34	mg/Kg wet	1.67		67.8	40-140			
Nitrobenzene	0.982	0.34	mg/Kg wet	1.67		58.9	40-140			
2-Nitrophenol	1.11	0.34	mg/Kg wet	1.67		66.3	30-130			
4-Nitrophenol	0.877	0.66	mg/Kg wet	1.67		52.6	30-130			
N-Nitrosodimethylamine	1.04	0.34	mg/Kg wet	1.67		62.3	40-140			
N-Nitrosodiphenylamine	1.36	0.34	mg/Kg wet	1.67		81.5	40-140			
N-Nitrosodi-n-propylamine	1.14	0.34	mg/Kg wet	1.67		68.3	40-140			
Pentachloronitrobenzene	1.08	0.34	mg/Kg wet	1.67		65.0	40-140			V-16
Pentachlorophenol	0.573	0.34	mg/Kg wet	1.67		34.4	30-130			
Phenanthrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140			
Phenol	1.11	0.34	mg/Kg wet	1.67		66.6	30-130			
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Pyridine	0.692	0.34	mg/Kg wet	1.67		41.5	30-140			†
1,2,4,5-Tetrachlorobenzene	0.992	0.34	mg/Kg wet	1.67		59.5	40-140			
1,2,4-Trichlorobenzene	0.986	0.34	mg/Kg wet	1.67		59.2	40-140			
2,4,5-Trichlorophenol	1.08	0.34	mg/Kg wet	1.67		64.9	30-130			
2,4,6-Trichlorophenol	1.03	0.34	mg/Kg wet	1.67		61.6	30-130			
Surrogate: 2-Fluorophenol	4.60		mg/Kg wet	6.67		68.9	30-130			
Surrogate: Phenol-d6	4.94		mg/Kg wet	6.67		74.0	30-130			
Surrogate: Nitrobenzene-d5	2.11		mg/Kg wet	3.33		63.4	30-130			
Surrogate: 2-Fluorobiphenyl	1.90		mg/Kg wet	3.37		56.4	30-130			
Surrogate: 2,4,6-Tribromophenol	4.58		mg/Kg wet	6.67		68.7	30-130			
Surrogate: p-Terphenyl-d14	2.34		mg/Kg wet	3.37		69.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203135 - SW-846 3546										
LCS Dup (B203135-BSD1)										
Prepared: 05/11/18 Analyzed: 05/14/18										
Acenaphthene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140	3.13	30	
Acenaphthylene	0.951	0.17	mg/Kg wet	1.67		57.1	40-140	4.99	30	
Acetophenone	1.07	0.34	mg/Kg wet	1.67		64.1	40-140	4.69	30	
Aniline	0.635	0.34	mg/Kg wet	1.67		38.1	10-140	4.89	50	† ‡
Anthracene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140	5.62	30	
Benzidine	0.801	0.66	mg/Kg wet	1.67		48.1	40-140	1.47	30	V-04, V-05
Benzo(a)anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	5.12	30	
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140	5.79	30	
Benzo(b)fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140	4.53	30	
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140	7.23	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140	5.32	30	
Benzoic Acid	0.232	1.0	mg/Kg wet	1.61		14.4	* 30-130	5.32	50	L-04, V-06, J ‡
Bis(2-chloroethoxy)methane	1.14	0.34	mg/Kg wet	1.67		68.4	40-140	3.28	30	
Bis(2-chloroethyl)ether	1.05	0.34	mg/Kg wet	1.67		63.1	40-140	2.54	30	
Bis(2-chloroisopropyl)ether	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	3.27	30	V-06
Bis(2-Ethylhexyl)phthalate	1.05	0.34	mg/Kg wet	1.67		63.3	40-140	4.45	30	
4-Bromophenylphenylether	1.03	0.34	mg/Kg wet	1.67		62.1	40-140	4.60	30	
Butylbenzylphthalate	1.05	0.34	mg/Kg wet	1.67		63.0	40-140	4.71	30	
Carbazole	1.08	0.17	mg/Kg wet	1.67		64.8	40-140	5.23	30	
4-Chloroaniline	0.773	0.66	mg/Kg wet	1.67		46.4	10-140	1.70	30	V-34 †
4-Chloro-3-methylphenol	1.06	0.66	mg/Kg wet	1.67		63.6	30-130	4.64	30	
2-Chloronaphthalene	0.895	0.34	mg/Kg wet	1.67		53.7	40-140	3.91	30	
2-Chlorophenol	1.01	0.34	mg/Kg wet	1.67		60.9	30-130	5.87	30	
4-Chlorophenylphenylether	1.05	0.34	mg/Kg wet	1.67		62.8	40-140	4.72	30	
Chrysene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140	3.74	30	
Dibenz(a,h)anthracene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	6.22	30	
Dibenzofuran	1.03	0.34	mg/Kg wet	1.67		62.0	40-140	4.51	30	
Di-n-butylphthalate	1.04	0.34	mg/Kg wet	1.67		62.2	40-140	5.08	30	
1,2-Dichlorobenzene	0.926	0.34	mg/Kg wet	1.67		55.6	40-140	1.09	30	
1,3-Dichlorobenzene	0.883	0.34	mg/Kg wet	1.67		53.0	40-140	0.790	30	
1,4-Dichlorobenzene	0.898	0.34	mg/Kg wet	1.67		53.9	40-140	0.960	30	
3,3-Dichlorobenzidine	0.793	0.17	mg/Kg wet	1.67		47.6	20-140	4.34	50	† ‡
2,4-Dichlorophenol	1.07	0.34	mg/Kg wet	1.67		64.2	30-130	2.79	30	
Diethylphthalate	0.991	0.34	mg/Kg wet	1.67		59.4	40-140	5.08	30	
2,4-Dimethylphenol	1.10	0.34	mg/Kg wet	1.67		66.1	30-130	13.0	30	
Dimethylphthalate	1.03	0.34	mg/Kg wet	1.67		62.1	40-140	5.55	30	
4,6-Dinitro-2-methylphenol	0.856	0.34	mg/Kg wet	1.67		51.3	30-130	0.272	30	
2,4-Dinitrophenol	0.596	0.66	mg/Kg wet	1.67		35.8	30-130	8.15	30	J
2,4-Dinitrotoluene	1.07	0.34	mg/Kg wet	1.67		64.4	40-140	7.54	30	
2,6-Dinitrotoluene	1.09	0.34	mg/Kg wet	1.67		65.2	40-140	2.99	30	
Di-n-octylphthalate	1.04	0.34	mg/Kg wet	1.67		62.3	40-140	3.84	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.04	0.34	mg/Kg wet	1.67		62.5	40-140	6.05	30	
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	4.86	30	
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140	3.84	30	
Hexachlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.4	40-140	6.19	30	
Hexachlorobutadiene	0.955	0.34	mg/Kg wet	1.67		57.3	40-140	0.105	30	
Hexachlorocyclopentadiene	0.768	0.34	mg/Kg wet	1.67		46.1	40-140	4.50	30	V-05
Hexachloroethane	0.907	0.34	mg/Kg wet	1.67		54.4	40-140	1.13	30	
Indeno(1,2,3-cd)pyrene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	6.47	30	
Isophorone	1.07	0.34	mg/Kg wet	1.67		64.0	40-140	3.29	30	
1-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		64.5	40-140	5.28	30	
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140	3.11	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203135 - SW-846 3546										
LCS Dup (B203135-BSD1)										
Prepared: 05/11/18 Analyzed: 05/14/18										
2-Methylphenol	1.00	0.34	mg/Kg wet	1.67		60.0	30-130	3.95	30	
3/4-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.5	30-130	5.67	30	
Naphthalene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	3.20	30	
2-Nitroaniline	1.09	0.34	mg/Kg wet	1.67		65.4	40-140	4.92	30	
3-Nitroaniline	1.02	0.34	mg/Kg wet	1.67		61.1	30-140	3.70	30	†
4-Nitroaniline	1.09	0.34	mg/Kg wet	1.67		65.2	40-140	3.82	30	
Nitrobenzene	0.958	0.34	mg/Kg wet	1.67		57.5	40-140	2.44	30	
2-Nitrophenol	1.08	0.34	mg/Kg wet	1.67		64.9	30-130	2.26	30	
4-Nitrophenol	0.867	0.66	mg/Kg wet	1.67		52.0	30-130	1.19	50	‡
N-Nitrosodimethylamine	1.00	0.34	mg/Kg wet	1.67		60.1	40-140	3.66	30	
N-Nitrosodiphenylamine	1.29	0.34	mg/Kg wet	1.67		77.2	40-140	5.37	30	
N-Nitrosodi-n-propylamine	1.08	0.34	mg/Kg wet	1.67		64.6	40-140	5.54	30	
Pentachloronitrobenzene	1.08	0.34	mg/Kg wet	1.67		64.6	40-140	0.710	30	V-16
Pentachlorophenol	0.579	0.34	mg/Kg wet	1.67		34.8	30-130	1.04	30	
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	5.75	30	
Phenol	1.07	0.34	mg/Kg wet	1.67		64.0	30-130	3.89	30	
Pyrene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140	3.53	30	
Pyridine	0.692	0.34	mg/Kg wet	1.67		41.5	30-140	0.00	30	†
1,2,4,5-Tetrachlorobenzene	0.946	0.34	mg/Kg wet	1.67		56.8	40-140	4.78	30	
1,2,4-Trichlorobenzene	0.964	0.34	mg/Kg wet	1.67		57.8	40-140	2.29	30	
2,4,5-Trichlorophenol	1.05	0.34	mg/Kg wet	1.67		63.0	30-130	2.91	30	
2,4,6-Trichlorophenol	0.973	0.34	mg/Kg wet	1.67		58.4	30-130	5.47	30	
Surrogate: 2-Fluorophenol	4.41		mg/Kg wet	6.67		66.1	30-130			
Surrogate: Phenol-d6	4.61		mg/Kg wet	6.67		69.2	30-130			
Surrogate: Nitrobenzene-d5	2.03		mg/Kg wet	3.33		60.8	30-130			
Surrogate: 2-Fluorobiphenyl	1.80		mg/Kg wet	3.37		53.6	30-130			
Surrogate: 2,4,6-Tribromophenol	4.39		mg/Kg wet	6.67		65.8	30-130			
Surrogate: p-Terphenyl-d14	2.23		mg/Kg wet	3.37		66.3	30-130			
Matrix Spike (B203135-MS1)										
Source: 18E0198-01 Prepared: 05/11/18 Analyzed: 05/14/18										
Acenaphthene	1.01	0.23	mg/Kg dry	2.22	ND	45.6	40-140			
Acenaphthylene	0.994	0.23	mg/Kg dry	2.22	ND	44.8	40-140			
Acetophenone	1.20	0.45	mg/Kg dry	2.22	ND	54.3	40-140			
Aniline	0.602	0.45	mg/Kg dry	2.22	ND	27.2	* 40-140			MS-09, R-06
Anthracene	1.16	0.23	mg/Kg dry	2.22	ND	52.2	40-140			
Benzidine	ND	0.88	mg/Kg dry	2.22	ND	*	40-140			MS-09, V-04, V-05
Benzo(a)anthracene	1.07	0.23	mg/Kg dry	2.22	ND	48.1	40-140			
Benzo(a)pyrene	1.12	0.23	mg/Kg dry	2.22	ND	50.5	40-140			
Benzo(b)fluoranthene	1.09	0.23	mg/Kg dry	2.22	ND	49.1	40-140			
Benzo(g,h,i)perylene	1.07	0.23	mg/Kg dry	2.22	ND	48.1	40-140			
Benzo(k)fluoranthene	1.07	0.23	mg/Kg dry	2.22	ND	48.4	40-140			
Benzoic Acid	0.882	1.3	mg/Kg dry	2.15	ND	41.1	40-140			V-06, J
Bis(2-chloroethoxy)methane	1.18	0.45	mg/Kg dry	2.22	ND	53.3	40-140			
Bis(2-chloroethyl)ether	1.08	0.45	mg/Kg dry	2.22	ND	48.5	40-140			
Bis(2-chloroisopropyl)ether	1.27	0.45	mg/Kg dry	2.22	ND	57.4	40-140			V-06
Bis(2-Ethylhexyl)phthalate	1.23	0.45	mg/Kg dry	2.22	ND	55.4	40-140			
4-Bromophenylphenylether	1.05	0.45	mg/Kg dry	2.22	ND	47.2	40-140			
Butylbenzylphthalate	1.07	0.45	mg/Kg dry	2.22	ND	48.4	40-140			
Carbazole	1.14	0.23	mg/Kg dry	2.22	ND	51.3	40-140			
4-Chloroaniline	0.712	0.88	mg/Kg dry	2.22	ND	32.1	* 40-140			MS-22, V-34, J
4-Chloro-3-methylphenol	1.13	0.88	mg/Kg dry	2.22	ND	50.9	30-130			
2-Chloronaphthalene	0.956	0.45	mg/Kg dry	2.22	ND	43.1	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203135 - SW-846 3546										
Matrix Spike (B203135-MS1)	Source: 18E0198-01			Prepared: 05/11/18 Analyzed: 05/14/18						
2-Chlorophenol	1.11	0.45	mg/Kg dry	2.22	ND	49.8	30-130			
4-Chlorophenylphenylether	1.05	0.45	mg/Kg dry	2.22	ND	47.5	40-140			
Chrysene	1.07	0.23	mg/Kg dry	2.22	ND	48.4	40-140			
Dibenz(a,h)anthracene	1.19	0.23	mg/Kg dry	2.22	ND	53.7	40-140			
Dibenzofuran	1.09	0.45	mg/Kg dry	2.22	ND	49.0	40-140			
Di-n-butylphthalate	1.07	0.45	mg/Kg dry	2.22	ND	48.1	40-140			
1,2-Dichlorobenzene	0.933	0.45	mg/Kg dry	2.22	ND	42.1	40-140			
1,3-Dichlorobenzene	0.851	0.45	mg/Kg dry	2.22	ND	38.4	* 40-140			MS-23
1,4-Dichlorobenzene	0.869	0.45	mg/Kg dry	2.22	ND	39.2	* 40-140			MS-23
3,3-Dichlorobenzidine	0.819	0.23	mg/Kg dry	2.22	ND	37.0	* 40-140			MS-22
2,4-Dichlorophenol	1.12	0.45	mg/Kg dry	2.22	ND	50.5	30-130			
Diethylphthalate	1.03	0.45	mg/Kg dry	2.22	ND	46.5	40-140			
2,4-Dimethylphenol	1.14	0.45	mg/Kg dry	2.22	ND	51.4	30-130			
Dimethylphthalate	1.06	0.45	mg/Kg dry	2.22	ND	47.9	40-140			
4,6-Dinitro-2-methylphenol	0.628	0.45	mg/Kg dry	2.22	ND	28.3	* 30-130			MS-23
2,4-Dinitrophenol	0.576	0.88	mg/Kg dry	2.22	ND	26.0	* 30-130			MS-23, J
2,4-Dinitrotoluene	1.05	0.45	mg/Kg dry	2.22	ND	47.2	40-140			
2,6-Dinitrotoluene	1.06	0.45	mg/Kg dry	2.22	ND	47.7	40-140			
Di-n-octylphthalate	1.04	0.45	mg/Kg dry	2.22	ND	47.1	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.11	0.45	mg/Kg dry	2.22	ND	50.1	40-140			
Fluoranthene	1.12	0.23	mg/Kg dry	2.22	ND	50.5	40-140			
Fluorene	1.06	0.23	mg/Kg dry	2.22	ND	47.6	40-140			
Hexachlorobenzene	1.06	0.45	mg/Kg dry	2.22	ND	47.9	40-140			
Hexachlorobutadiene	0.932	0.45	mg/Kg dry	2.22	ND	42.0	40-140			
Hexachlorocyclopentadiene	0.322	0.45	mg/Kg dry	2.22	ND	14.5	* 30-130			V-05, MS-22, J
Hexachloroethane	0.887	0.45	mg/Kg dry	2.22	ND	40.0	40-140			R-06
Indeno(1,2,3-cd)pyrene	1.11	0.23	mg/Kg dry	2.22	ND	50.1	40-140			
Isophorone	1.13	0.45	mg/Kg dry	2.22	ND	51.0	40-140			
1-Methylnaphthalene	1.16	0.23	mg/Kg dry	2.22	ND	52.5	40-140			
2-Methylnaphthalene	1.14	0.23	mg/Kg dry	2.22	ND	51.4	40-140			
2-Methylphenol	1.06	0.45	mg/Kg dry	2.22	ND	48.0	30-130			
3/4-Methylphenol	1.22	0.45	mg/Kg dry	2.22	ND	55.0	30-130			
Naphthalene	1.02	0.23	mg/Kg dry	2.22	ND	45.9	40-140			
2-Nitroaniline	1.26	0.45	mg/Kg dry	2.22	ND	57.0	40-140			
3-Nitroaniline	1.01	0.45	mg/Kg dry	2.22	ND	45.6	40-140			
4-Nitroaniline	1.19	0.45	mg/Kg dry	2.22	ND	53.8	40-140			
Nitrobenzene	0.996	0.45	mg/Kg dry	2.22	ND	44.9	40-140			
2-Nitrophenol	0.880	0.45	mg/Kg dry	2.22	ND	39.7	30-130			R-06
4-Nitrophenol	0.907	0.88	mg/Kg dry	2.22	ND	40.9	30-130			
N-Nitrosodimethylamine	0.951	0.45	mg/Kg dry	2.22	ND	42.9	40-140			R-06
N-Nitrosodiphenylamine	1.34	0.45	mg/Kg dry	2.22	ND	60.6	40-140			
N-Nitrosodi-n-propylamine	1.35	0.45	mg/Kg dry	2.22	ND	60.7	40-140			
Pentachloronitrobenzene	1.12	0.45	mg/Kg dry	2.22	ND	50.7	40-140			V-16
Pentachlorophenol	0.968	0.45	mg/Kg dry	2.22	ND	43.6	30-130			
Phenanthrene	1.15	0.23	mg/Kg dry	2.22	ND	51.7	40-140			
Phenol	1.16	0.45	mg/Kg dry	2.22	ND	52.4	30-130			
Pyrene	1.05	0.23	mg/Kg dry	2.22	ND	47.6	40-140			
Pyridine	0.656	0.45	mg/Kg dry	2.22	ND	29.6	* 40-140			MS-22
1,2,4,5-Tetrachlorobenzene	0.988	0.45	mg/Kg dry	2.22	ND	44.6	40-140			
1,2,4-Trichlorobenzene	0.987	0.45	mg/Kg dry	2.22	ND	44.5	40-140			
2,4,5-Trichlorophenol	1.09	0.45	mg/Kg dry	2.22	ND	49.3	30-130			
2,4,6-Trichlorophenol	1.02	0.45	mg/Kg dry	2.22	ND	46.1	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203135 - SW-846 3546										
Matrix Spike (B203135-MS1)	Source: 18E0198-01			Prepared: 05/11/18 Analyzed: 05/14/18						
Surrogate: 2-Fluorophenol	4.56		mg/Kg dry	8.87		51.4	30-130			
Surrogate: Phenol-d6	5.07		mg/Kg dry	8.87		57.1	30-130			
Surrogate: Nitrobenzene-d5	2.01		mg/Kg dry	4.43		45.3	30-130			
Surrogate: 2-Fluorobiphenyl	1.90		mg/Kg dry	4.48		42.4	30-130			
Surrogate: 2,4,6-Tribromophenol	4.53		mg/Kg dry	8.87		51.0	30-130			
Surrogate: p-Terphenyl-d14	2.22		mg/Kg dry	4.48		49.6	30-130			
Matrix Spike Dup (B203135-MSD1)	Source: 18E0198-01			Prepared: 05/11/18 Analyzed: 05/14/18						
Acenaphthene	1.25	0.22	mg/Kg dry	2.19	ND	57.0	40-140	20.9	30	
Acenaphthylene	1.19	0.22	mg/Kg dry	2.19	ND	54.6	40-140	18.2	30	
Acetophenone	1.39	0.45	mg/Kg dry	2.19	ND	63.4	40-140	14.1	30	
Aniline	0.857	0.45	mg/Kg dry	2.19	ND	39.2	* 40-140	35.0	* 30	MS-09, R-06
Anthracene	1.33	0.22	mg/Kg dry	2.19	ND	60.6	40-140	13.5	30	
Benidine	0.639	0.87	mg/Kg dry	2.19	ND	29.2	* 40-140		30	MS-09, V-04, V-05, J
Benzo(a)anthracene	1.22	0.22	mg/Kg dry	2.19	ND	55.9	40-140	13.6	30	
Benzo(a)pyrene	1.28	0.22	mg/Kg dry	2.19	ND	58.6	40-140	13.5	30	
Benzo(b)fluoranthene	1.26	0.22	mg/Kg dry	2.19	ND	57.5	40-140	14.3	30	
Benzo(g,h,i)perylene	1.23	0.22	mg/Kg dry	2.19	ND	56.3	40-140	14.4	30	
Benzo(k)fluoranthene	1.23	0.22	mg/Kg dry	2.19	ND	56.3	40-140	13.7	30	
Benzoic Acid	0.978	1.3	mg/Kg dry	2.12	ND	46.2	40-140	10.3	30	V-06, J
Bis(2-chloroethoxy)methane	1.46	0.45	mg/Kg dry	2.19	ND	66.7	40-140	20.9	30	
Bis(2-chloroethyl)ether	1.39	0.45	mg/Kg dry	2.19	ND	63.3	40-140	25.2	30	
Bis(2-chloroisopropyl)ether	1.65	0.45	mg/Kg dry	2.19	ND	75.2	40-140	25.5	30	V-06
Bis(2-Ethylhexyl)phthalate	1.30	0.45	mg/Kg dry	2.19	ND	59.5	40-140	5.71	30	
4-Bromophenylphenylether	1.24	0.45	mg/Kg dry	2.19	ND	56.7	40-140	17.0	30	
Butylbenzylphthalate	1.27	0.45	mg/Kg dry	2.19	ND	58.0	40-140	16.8	30	
Carbazole	1.30	0.22	mg/Kg dry	2.19	ND	59.4	40-140	13.2	30	
4-Chloroaniline	0.880	0.87	mg/Kg dry	2.19	ND	40.2	40-140	21.1	30	V-34
4-Chloro-3-methylphenol	1.35	0.87	mg/Kg dry	2.19	ND	61.9	30-130	18.3	30	
2-Chloronaphthalene	1.15	0.45	mg/Kg dry	2.19	ND	52.6	40-140	18.6	30	
2-Chlorophenol	1.35	0.45	mg/Kg dry	2.19	ND	61.6	30-130	19.8	30	
4-Chlorophenylphenylether	1.26	0.45	mg/Kg dry	2.19	ND	57.4	40-140	17.6	30	
Chrysene	1.24	0.22	mg/Kg dry	2.19	ND	56.9	40-140	14.8	30	
Dibenz(a,h)anthracene	1.35	0.22	mg/Kg dry	2.19	ND	61.9	40-140	12.8	30	
Dibenzofuran	1.28	0.45	mg/Kg dry	2.19	ND	58.5	40-140	16.4	30	
Di-n-butylphthalate	1.25	0.45	mg/Kg dry	2.19	ND	57.2	40-140	16.0	30	
1,2-Dichlorobenzene	1.22	0.45	mg/Kg dry	2.19	ND	55.5	40-140	26.2	30	
1,3-Dichlorobenzene	1.18	0.45	mg/Kg dry	2.19	ND	54.1	40-140	32.6	* 30	R-06
1,4-Dichlorobenzene	1.18	0.45	mg/Kg dry	2.19	ND	54.1	40-140	30.6	* 30	R-06
3,3-Dichlorobenzidine	0.964	0.22	mg/Kg dry	2.19	ND	44.1	40-140	16.3	30	
2,4-Dichlorophenol	1.32	0.45	mg/Kg dry	2.19	ND	60.4	30-130	16.4	30	
Diethylphthalate	1.19	0.45	mg/Kg dry	2.19	ND	54.6	40-140	14.7	30	
2,4-Dimethylphenol	1.39	0.45	mg/Kg dry	2.19	ND	63.5	30-130	19.8	30	
Dimethylphthalate	1.28	0.45	mg/Kg dry	2.19	ND	58.4	40-140	18.5	30	
4,6-Dinitro-2-methylphenol	1.09	0.45	mg/Kg dry	2.19	ND	49.7	30-130	53.6	* 30	R-06
2,4-Dinitrophenol	1.08	0.87	mg/Kg dry	2.19	ND	49.3	30-130	60.7	* 30	R-06
2,4-Dinitrotoluene	1.33	0.45	mg/Kg dry	2.19	ND	60.9	40-140	24.0	30	
2,6-Dinitrotoluene	1.34	0.45	mg/Kg dry	2.19	ND	61.3	40-140	23.6	30	
Di-n-octylphthalate	1.21	0.45	mg/Kg dry	2.19	ND	55.1	40-140	14.5	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.28	0.45	mg/Kg dry	2.19	ND	58.4	40-140	14.0	30	
Fluoranthene	1.29	0.22	mg/Kg dry	2.19	ND	59.1	40-140	14.2	30	
Fluorene	1.25	0.22	mg/Kg dry	2.19	ND	57.3	40-140	17.2	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203135 - SW-846 3546										
Matrix Spike Dup (B203135-MSD1)	Source: 18E0198-01			Prepared: 05/11/18 Analyzed: 05/14/18						
Hexachlorobenzene	1.24	0.45	mg/Kg dry	2.19	ND	56.7	40-140	15.6	30	
Hexachlorobutadiene	1.22	0.45	mg/Kg dry	2.19	ND	55.9	40-140	26.9	30	
Hexachlorocyclopentadiene	0.767	0.45	mg/Kg dry	2.19	ND	35.0	30-130	81.7	*	R-06, V-05
Hexachloroethane	1.22	0.45	mg/Kg dry	2.19	ND	55.9	40-140	31.9	*	R-06
Indeno(1,2,3-cd)pyrene	1.31	0.22	mg/Kg dry	2.19	ND	59.7	40-140	16.1	30	
Isophorone	1.35	0.45	mg/Kg dry	2.19	ND	61.6	40-140	17.5	30	
1-Methylnaphthalene	1.38	0.22	mg/Kg dry	2.19	ND	63.1	40-140	17.1	30	
2-Methylnaphthalene	1.36	0.22	mg/Kg dry	2.19	ND	62.2	40-140	17.7	30	
2-Methylphenol	1.28	0.45	mg/Kg dry	2.19	ND	58.7	30-130	18.7	30	
3/4-Methylphenol	1.46	0.45	mg/Kg dry	2.19	ND	66.9	30-130	18.3	30	
Naphthalene	1.24	0.22	mg/Kg dry	2.19	ND	56.7	40-140	19.8	30	
2-Nitroaniline	1.35	0.45	mg/Kg dry	2.19	ND	61.5	40-140	6.34	30	
3-Nitroaniline	1.19	0.45	mg/Kg dry	2.19	ND	54.5	40-140	16.3	30	
4-Nitroaniline	1.35	0.45	mg/Kg dry	2.19	ND	61.9	40-140	12.7	30	
Nitrobenzene	1.25	0.45	mg/Kg dry	2.19	ND	56.9	40-140	22.3	30	
2-Nitrophenol	1.33	0.45	mg/Kg dry	2.19	ND	60.8	30-130	40.8	*	R-06
4-Nitrophenol	1.14	0.87	mg/Kg dry	2.19	ND	52.1	30-130	22.8	30	
N-Nitrosodimethylamine	1.35	0.45	mg/Kg dry	2.19	ND	61.7	40-140	34.7	*	R-06
N-Nitrosodiphenylamine	1.56	0.45	mg/Kg dry	2.19	ND	71.4	40-140	15.1	30	
N-Nitrosodi-n-propylamine	1.45	0.45	mg/Kg dry	2.19	ND	66.5	40-140	7.77	30	
Pentachloronitrobenzene	1.25	0.45	mg/Kg dry	2.19	ND	57.2	40-140	10.6	30	V-16
Pentachlorophenol	1.20	0.45	mg/Kg dry	2.19	ND	55.1	30-130	21.8	30	
Phenanthrene	1.33	0.22	mg/Kg dry	2.19	ND	60.6	40-140	14.5	30	
Phenol	1.40	0.45	mg/Kg dry	2.19	ND	64.1	30-130	18.8	30	
Pyrene	1.22	0.22	mg/Kg dry	2.19	ND	55.9	40-140	14.7	30	
Pyridine	0.929	0.45	mg/Kg dry	2.19	ND	42.5	40-140	34.4	*	R-06
1,2,4,5-Tetrachlorobenzene	1.24	0.45	mg/Kg dry	2.19	ND	56.9	40-140	23.0	30	
1,2,4-Trichlorobenzene	1.24	0.45	mg/Kg dry	2.19	ND	56.5	40-140	22.4	30	
2,4,5-Trichlorophenol	1.28	0.45	mg/Kg dry	2.19	ND	58.5	30-130	15.8	30	
2,4,6-Trichlorophenol	1.26	0.45	mg/Kg dry	2.19	ND	57.5	30-130	20.7	30	
Surrogate: 2-Fluorophenol	5.85		mg/Kg dry	8.75		66.8	30-130			
Surrogate: Phenol-d6	5.99		mg/Kg dry	8.75		68.4	30-130			
Surrogate: Nitrobenzene-d5	2.58		mg/Kg dry	4.38		59.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.17		mg/Kg dry	4.42		49.1	30-130			
Surrogate: 2,4,6-Tribromophenol	5.40		mg/Kg dry	8.75		61.8	30-130			
Surrogate: p-Terphenyl-d14	2.57		mg/Kg dry	4.42		58.1	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202646 - SW-846 3510C										
Blank (B202646-BLK1)				Prepared: 05/06/18 Analyzed: 05/09/18						
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	0.863		µg/L	2.00		43.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.999		µg/L	2.00		50.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.48		µg/L	2.00		73.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.48		µg/L	2.00		73.8	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202646 - SW-846 3510C										
LCS (B202646-BS1)				Prepared: 05/06/18 Analyzed: 05/09/18						
Alachlor	0.96	0.20	µg/L	1.00		95.6	40-140			
Alachlor [2C]	0.97	0.20	µg/L	1.00		97.4	40-140			
Aldrin	0.94	0.050	µg/L	1.00		93.9	40-140			
Aldrin [2C]	0.90	0.050	µg/L	1.00		90.1	40-140			
alpha-BHC	1.0	0.050	µg/L	1.00		101	40-140			
alpha-BHC [2C]	0.89	0.050	µg/L	1.00		89.3	40-140			
beta-BHC	0.84	0.050	µg/L	1.00		84.5	40-140			
beta-BHC [2C]	0.82	0.050	µg/L	1.00		81.7	40-140			
delta-BHC	0.94	0.050	µg/L	1.00		94.4	40-140			
delta-BHC [2C]	0.91	0.050	µg/L	1.00		91.0	40-140			
gamma-BHC (Lindane)	0.92	0.030	µg/L	1.00		91.7	40-140			
gamma-BHC (Lindane) [2C]	0.91	0.030	µg/L	1.00		90.6	40-140			
4,4'-DDD	1.0	0.040	µg/L	1.00		100	40-140			
4,4'-DDD [2C]	0.97	0.040	µg/L	1.00		96.8	40-140			
4,4'-DDE	0.98	0.040	µg/L	1.00		97.7	40-140			
4,4'-DDE [2C]	0.95	0.040	µg/L	1.00		95.2	40-140			
4,4'-DDT	0.99	0.040	µg/L	1.00		98.9	40-140			
4,4'-DDT [2C]	0.98	0.040	µg/L	1.00		98.0	40-140			
Dieldrin	0.97	0.0020	µg/L	1.00		96.5	40-140			
Dieldrin [2C]	0.94	0.0020	µg/L	1.00		93.9	40-140			
Endosulfan I	0.95	0.050	µg/L	1.00		95.4	40-140			
Endosulfan I [2C]	0.96	0.050	µg/L	1.00		95.7	40-140			
Endosulfan II	0.98	0.080	µg/L	1.00		97.7	40-140			
Endosulfan II [2C]	0.99	0.080	µg/L	1.00		98.7	40-140			
Endosulfan Sulfate	0.95	0.080	µg/L	1.00		95.4	40-140			
Endosulfan Sulfate [2C]	0.93	0.080	µg/L	1.00		93.0	40-140			
Endrin	0.93	0.080	µg/L	1.00		92.8	40-140			
Endrin [2C]	0.93	0.080	µg/L	1.00		93.5	40-140			
Endrin Aldehyde	0.98	0.080	µg/L	1.00		97.8	40-140			
Endrin Aldehyde [2C]	1.0	0.080	µg/L	1.00		100	40-140			
Endrin Ketone	0.84	0.080	µg/L	1.00		83.6	40-140			
Endrin Ketone [2C]	0.81	0.080	µg/L	1.00		81.1	40-140			
Heptachlor	0.87	0.050	µg/L	1.00		87.2	40-140			
Heptachlor [2C]	0.89	0.050	µg/L	1.00		88.6	40-140			
Heptachlor Epoxide	0.92	0.050	µg/L	1.00		91.7	40-140			
Heptachlor Epoxide [2C]	0.91	0.050	µg/L	1.00		90.9	40-140			
Hexachlorobenzene	0.92	0.050	µg/L	1.00		92.0	40-140			
Hexachlorobenzene [2C]	0.91	0.050	µg/L	1.00		91.0	40-140			
Methoxychlor	0.91	0.50	µg/L	1.00		91.2	40-140			
Methoxychlor [2C]	0.94	0.50	µg/L	1.00		93.9	40-140			
Surrogate: Decachlorobiphenyl	1.37		µg/L	2.00		68.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.70		µg/L	2.00		84.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.51		µg/L	2.00		75.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.52		µg/L	2.00		76.2	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202646 - SW-846 3510C										
LCS Dup (B202646-BSD1)										
Prepared: 05/06/18 Analyzed: 05/09/18										
Alachlor	1.0	0.20	µg/L	1.00		102	40-140	6.52	20	
Alachlor [2C]	1.0	0.20	µg/L	1.00		103	40-140	5.98	20	
Aldrin	0.98	0.050	µg/L	1.00		98.3	40-140	4.64	20	
Aldrin [2C]	0.96	0.050	µg/L	1.00		96.1	40-140	6.47	20	
alpha-BHC	1.0	0.050	µg/L	1.00		104	40-140	2.26	20	
alpha-BHC [2C]	0.94	0.050	µg/L	1.00		93.6	40-140	4.68	20	
beta-BHC	0.86	0.050	µg/L	1.00		86.3	40-140	2.15	20	
beta-BHC [2C]	0.87	0.050	µg/L	1.00		86.9	40-140	6.13	20	
delta-BHC	0.98	0.050	µg/L	1.00		97.8	40-140	3.62	20	
delta-BHC [2C]	0.97	0.050	µg/L	1.00		97.5	40-140	6.90	20	
gamma-BHC (Lindane)	0.94	0.030	µg/L	1.00		94.4	40-140	2.85	20	
gamma-BHC (Lindane) [2C]	0.96	0.030	µg/L	1.00		96.3	40-140	6.12	20	
4,4'-DDD	1.1	0.040	µg/L	1.00		108	40-140	7.59	20	
4,4'-DDD [2C]	1.0	0.040	µg/L	1.00		100	40-140	3.45	20	
4,4'-DDE	1.0	0.040	µg/L	1.00		104	40-140	6.32	20	
4,4'-DDE [2C]	1.0	0.040	µg/L	1.00		99.9	40-140	4.86	20	
4,4'-DDT	1.1	0.040	µg/L	1.00		108	40-140	8.97	20	
4,4'-DDT [2C]	1.0	0.040	µg/L	1.00		99.6	40-140	1.63	20	
Dieldrin	1.0	0.0020	µg/L	1.00		104	40-140	7.31	20	
Dieldrin [2C]	0.98	0.0020	µg/L	1.00		97.9	40-140	4.18	20	
Endosulfan I	1.0	0.050	µg/L	1.00		101	40-140	5.62	20	
Endosulfan I [2C]	1.0	0.050	µg/L	1.00		100	40-140	4.53	20	
Endosulfan II	1.1	0.080	µg/L	1.00		105	40-140	7.57	20	
Endosulfan II [2C]	1.0	0.080	µg/L	1.00		102	40-140	3.11	20	
Endosulfan Sulfate	1.0	0.080	µg/L	1.00		104	40-140	8.81	20	
Endosulfan Sulfate [2C]	1.0	0.080	µg/L	1.00		103	40-140	10.5	20	
Endrin	0.99	0.080	µg/L	1.00		98.9	40-140	6.43	20	
Endrin [2C]	0.96	0.080	µg/L	1.00		96.4	40-140	3.06	20	
Endrin Aldehyde	1.1	0.080	µg/L	1.00		106	40-140	8.03	20	
Endrin Aldehyde [2C]	1.1	0.080	µg/L	1.00		109	40-140	8.51	20	
Endrin Ketone	0.91	0.080	µg/L	1.00		91.2	40-140	8.76	20	
Endrin Ketone [2C]	0.87	0.080	µg/L	1.00		86.8	40-140	6.82	20	
Heptachlor	0.91	0.050	µg/L	1.00		90.9	40-140	4.16	20	
Heptachlor [2C]	0.94	0.050	µg/L	1.00		94.1	40-140	5.99	20	
Heptachlor Epoxide	0.97	0.050	µg/L	1.00		96.7	40-140	5.32	20	
Heptachlor Epoxide [2C]	0.96	0.050	µg/L	1.00		96.1	40-140	5.49	20	
Hexachlorobenzene	0.94	0.050	µg/L	1.00		94.2	40-140	2.35	20	
Hexachlorobenzene [2C]	0.95	0.050	µg/L	1.00		95.0	40-140	4.27	20	
Methoxychlor	1.0	0.50	µg/L	1.00		100	40-140	9.20	20	
Methoxychlor [2C]	0.99	0.50	µg/L	1.00		98.9	40-140	5.22	20	
Surrogate: Decachlorobiphenyl	1.53		µg/L	2.00		76.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.77		µg/L	2.00		88.6	30-150			
Surrogate: Tetrachloro-m-xylene	1.54		µg/L	2.00		76.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.56		µg/L	2.00		78.0	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202680 - SW-846 3546
Blank (B202680-BLK1)

Prepared: 05/07/18 Analyzed: 05/14/18

alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.156		mg/Kg wet	0.200		78.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.160		mg/Kg wet	0.200		80.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.3	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202680 - SW-846 3546										
LCS (B202680-BS1)					Prepared: 05/07/18 Analyzed: 05/14/18					
alpha-Chlordane	0.093	0.0050	mg/Kg wet	0.100		93.0	40-140			
alpha-Chlordane [2C]	0.096	0.0050	mg/Kg wet	0.100		95.8	40-140			
gamma-Chlordane	0.080	0.0050	mg/Kg wet	0.100		80.0	40-140			
gamma-Chlordane [2C]	0.096	0.0050	mg/Kg wet	0.100		96.2	40-140			
Alachlor	0.11	0.020	mg/Kg wet	0.100		110	40-140			
Alachlor [2C]	0.13	0.020	mg/Kg wet	0.100		125	40-140			
Aldrin	0.096	0.0050	mg/Kg wet	0.100		95.8	40-140			
Aldrin [2C]	0.095	0.0050	mg/Kg wet	0.100		95.2	40-140			
alpha-BHC	0.10	0.0050	mg/Kg wet	0.100		105	40-140			
alpha-BHC [2C]	0.086	0.0050	mg/Kg wet	0.100		86.4	40-140			
beta-BHC	0.090	0.0050	mg/Kg wet	0.100		90.2	40-140			
beta-BHC [2C]	0.080	0.0050	mg/Kg wet	0.100		79.6	40-140			
delta-BHC	0.089	0.0050	mg/Kg wet	0.100		89.0	40-140			
delta-BHC [2C]	0.076	0.0050	mg/Kg wet	0.100		76.0	40-140			
gamma-BHC (Lindane)	0.097	0.0020	mg/Kg wet	0.100		97.3	40-140			
gamma-BHC (Lindane) [2C]	0.087	0.0020	mg/Kg wet	0.100		87.2	40-140			
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		104	40-140			
4,4'-DDD [2C]	0.11	0.0040	mg/Kg wet	0.100		109	40-140			
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		102	40-140			
4,4'-DDE [2C]	0.11	0.0040	mg/Kg wet	0.100		106	40-140			
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		104	40-140			
4,4'-DDT [2C]	0.10	0.0040	mg/Kg wet	0.100		103	40-140			
Dieldrin	0.096	0.0040	mg/Kg wet	0.100		96.5	40-140			
Dieldrin [2C]	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
Endosulfan I	0.093	0.0050	mg/Kg wet	0.100		92.9	40-140			
Endosulfan I [2C]	0.096	0.0050	mg/Kg wet	0.100		96.2	40-140			
Endosulfan II	0.098	0.0080	mg/Kg wet	0.100		98.2	40-140			
Endosulfan II [2C]	0.10	0.0080	mg/Kg wet	0.100		101	40-140			
Endosulfan Sulfate	0.10	0.0080	mg/Kg wet	0.100		103	40-140			
Endosulfan Sulfate [2C]	0.10	0.0080	mg/Kg wet	0.100		102	40-140			
Endrin	0.097	0.0080	mg/Kg wet	0.100		96.7	40-140			
Endrin [2C]	0.098	0.0080	mg/Kg wet	0.100		97.9	40-140			
Endrin Aldehyde	0.10	0.0080	mg/Kg wet	0.100		100	40-140			
Endrin Aldehyde [2C]	0.10	0.0080	mg/Kg wet	0.100		101	40-140			
Endrin Ketone	0.086	0.0080	mg/Kg wet	0.100		86.5	40-140			
Endrin Ketone [2C]	0.086	0.0080	mg/Kg wet	0.100		85.9	40-140			
Heptachlor	0.093	0.0050	mg/Kg wet	0.100		92.6	40-140			
Heptachlor [2C]	0.091	0.0050	mg/Kg wet	0.100		91.3	40-140			
Heptachlor Epoxide	0.091	0.0050	mg/Kg wet	0.100		91.2	40-140			
Heptachlor Epoxide [2C]	0.096	0.0050	mg/Kg wet	0.100		95.8	40-140			
Hexachlorobenzene	0.11	0.0060	mg/Kg wet	0.100		109	40-140			
Hexachlorobenzene [2C]	0.089	0.0060	mg/Kg wet	0.100		88.6	40-140			
Methoxychlor	0.10	0.050	mg/Kg wet	0.100		105	40-140			
Methoxychlor [2C]	0.11	0.050	mg/Kg wet	0.100		108	40-140			
Surrogate: Decachlorobiphenyl	0.157		mg/Kg wet	0.200		78.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.184		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		84.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.148		mg/Kg wet	0.200		73.9	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202680 - SW-846 3546										
LCS Dup (B202680-BSD1)					Prepared: 05/07/18 Analyzed: 05/14/18					
alpha-Chlordane	0.086	0.0050	mg/Kg wet	0.100		85.5	40-140	8.40	30	
alpha-Chlordane [2C]	0.088	0.0050	mg/Kg wet	0.100		88.4	40-140	8.06	30	
gamma-Chlordane	0.071	0.0050	mg/Kg wet	0.100		71.1	40-140	11.8	30	
gamma-Chlordane [2C]	0.088	0.0050	mg/Kg wet	0.100		87.8	40-140	9.14	30	
Alachlor	0.10	0.020	mg/Kg wet	0.100		102	40-140	7.02	30	
Alachlor [2C]	0.12	0.020	mg/Kg wet	0.100		118	40-140	5.70	30	
Aldrin	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140	7.77	30	
Aldrin [2C]	0.087	0.0050	mg/Kg wet	0.100		87.0	40-140	9.05	30	
alpha-BHC	0.096	0.0050	mg/Kg wet	0.100		96.5	40-140	8.13	30	
alpha-BHC [2C]	0.078	0.0050	mg/Kg wet	0.100		77.9	40-140	10.3	30	
beta-BHC	0.085	0.0050	mg/Kg wet	0.100		84.8	40-140	6.27	30	
beta-BHC [2C]	0.074	0.0050	mg/Kg wet	0.100		73.7	40-140	7.69	30	
delta-BHC	0.083	0.0050	mg/Kg wet	0.100		83.2	40-140	6.72	30	
delta-BHC [2C]	0.070	0.0050	mg/Kg wet	0.100		69.8	40-140	8.55	30	
gamma-BHC (Lindane)	0.090	0.0020	mg/Kg wet	0.100		90.3	40-140	7.55	30	
gamma-BHC (Lindane) [2C]	0.080	0.0020	mg/Kg wet	0.100		79.8	40-140	8.90	30	
4,4'-DDD	0.096	0.0040	mg/Kg wet	0.100		95.6	40-140	7.93	30	
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		100	40-140	8.53	30	
4,4'-DDE	0.093	0.0040	mg/Kg wet	0.100		93.4	40-140	8.40	30	
4,4'-DDE [2C]	0.097	0.0040	mg/Kg wet	0.100		96.8	40-140	9.39	30	
4,4'-DDT	0.097	0.0040	mg/Kg wet	0.100		96.7	40-140	7.58	30	
4,4'-DDT [2C]	0.092	0.0040	mg/Kg wet	0.100		92.1	40-140	11.2	30	
Dieldrin	0.088	0.0040	mg/Kg wet	0.100		88.5	40-140	8.66	30	
Dieldrin [2C]	0.094	0.0040	mg/Kg wet	0.100		93.8	40-140	7.46	30	
Endosulfan I	0.087	0.0050	mg/Kg wet	0.100		86.8	40-140	6.84	30	
Endosulfan I [2C]	0.090	0.0050	mg/Kg wet	0.100		89.5	40-140	7.17	30	
Endosulfan II	0.092	0.0080	mg/Kg wet	0.100		91.5	40-140	6.99	30	
Endosulfan II [2C]	0.094	0.0080	mg/Kg wet	0.100		94.2	40-140	7.44	30	
Endosulfan Sulfate	0.093	0.0080	mg/Kg wet	0.100		93.0	40-140	10.3	30	
Endosulfan Sulfate [2C]	0.094	0.0080	mg/Kg wet	0.100		94.1	40-140	7.87	30	
Endrin	0.089	0.0080	mg/Kg wet	0.100		89.4	40-140	7.93	30	
Endrin [2C]	0.090	0.0080	mg/Kg wet	0.100		90.5	40-140	7.89	30	
Endrin Aldehyde	0.092	0.0080	mg/Kg wet	0.100		92.5	40-140	7.87	30	
Endrin Aldehyde [2C]	0.093	0.0080	mg/Kg wet	0.100		92.6	40-140	8.26	30	
Endrin Ketone	0.080	0.0080	mg/Kg wet	0.100		80.2	40-140	7.54	30	
Endrin Ketone [2C]	0.079	0.0080	mg/Kg wet	0.100		79.3	40-140	8.01	30	
Heptachlor	0.086	0.0050	mg/Kg wet	0.100		85.9	40-140	7.46	30	
Heptachlor [2C]	0.083	0.0050	mg/Kg wet	0.100		83.2	40-140	9.33	30	
Heptachlor Epoxide	0.084	0.0050	mg/Kg wet	0.100		83.6	40-140	8.75	30	
Heptachlor Epoxide [2C]	0.089	0.0050	mg/Kg wet	0.100		88.9	40-140	7.46	30	
Hexachlorobenzene	0.10	0.0060	mg/Kg wet	0.100		99.8	40-140	9.10	30	
Hexachlorobenzene [2C]	0.080	0.0060	mg/Kg wet	0.100		79.8	40-140	10.5	30	
Methoxychlor	0.098	0.050	mg/Kg wet	0.100		98.1	40-140	6.71	30	
Methoxychlor [2C]	0.10	0.050	mg/Kg wet	0.100		100	40-140	7.47	30	
Surrogate: Decachlorobiphenyl	0.144		mg/Kg wet	0.200		72.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.168		mg/Kg wet	0.200		84.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.153		mg/Kg wet	0.200		76.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.130		mg/Kg wet	0.200		64.9	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202680 - SW-846 3546										
Matrix Spike (B202680-MS1)	Source: 18E0198-01			Prepared: 05/07/18 Analyzed: 05/15/18						
Alachlor	0.10	0.026	mg/Kg dry	0.132	ND	75.8	30-150			
Alachlor [2C]	0.12	0.026	mg/Kg dry	0.132	ND	91.7	30-150			
Aldrin	0.11	0.0066	mg/Kg dry	0.132	ND	84.1	30-150			
Aldrin [2C]	0.11	0.0066	mg/Kg dry	0.132	ND	83.8	30-150			
alpha-BHC	0.12	0.0066	mg/Kg dry	0.132	ND	88.0	30-150			
alpha-BHC [2C]	0.094	0.0066	mg/Kg dry	0.132	ND	71.3	30-150			
beta-BHC	0.096	0.0066	mg/Kg dry	0.132	ND	73.2	30-150			
beta-BHC [2C]	0.085	0.0066	mg/Kg dry	0.132	ND	64.4	30-150			
delta-BHC	0.10	0.0066	mg/Kg dry	0.132	ND	77.4	30-150			
delta-BHC [2C]	0.091	0.0066	mg/Kg dry	0.132	ND	69.4	30-150			
gamma-BHC (Lindane)	0.11	0.0026	mg/Kg dry	0.132	ND	81.7	30-150			
gamma-BHC (Lindane) [2C]	0.094	0.0026	mg/Kg dry	0.132	ND	71.0	30-150			
4,4'-DDD	0.14	0.0053	mg/Kg dry	0.132	0.058	60.1	30-150			
4,4'-DDD [2C]	0.14	0.0053	mg/Kg dry	0.132	0.062	62.0	30-150			
4,4'-DDE	0.11	0.0053	mg/Kg dry	0.132	ND	86.3	30-150			
4,4'-DDE [2C]	0.12	0.0053	mg/Kg dry	0.132	ND	89.3	30-150			
4,4'-DDT	0.11	0.0053	mg/Kg dry	0.132	ND	86.8	30-150			
4,4'-DDT [2C]	0.097	0.0053	mg/Kg dry	0.132	ND	73.3	30-150			
Dieldrin	0.11	0.0053	mg/Kg dry	0.132	ND	80.0	30-150			
Dieldrin [2C]	0.11	0.0053	mg/Kg dry	0.132	ND	83.9	30-150			
Endosulfan I	0.11	0.0066	mg/Kg dry	0.132	ND	80.8	30-150			
Endosulfan I [2C]	0.11	0.0066	mg/Kg dry	0.132	ND	82.3	30-150			
Endosulfan II	0.10	0.011	mg/Kg dry	0.132	ND	78.6	30-150			
Endosulfan II [2C]	0.11	0.011	mg/Kg dry	0.132	ND	81.9	30-150			
Endosulfan Sulfate	0.095	0.011	mg/Kg dry	0.132	ND	72.5	30-150			
Endosulfan Sulfate [2C]	0.098	0.011	mg/Kg dry	0.132	ND	74.7	30-150			
Endrin	0.11	0.011	mg/Kg dry	0.132	ND	80.0	30-150			
Endrin [2C]	0.11	0.011	mg/Kg dry	0.132	ND	81.4	30-150			
Endrin Aldehyde	0.090	0.011	mg/Kg dry	0.132	ND	68.4	30-150			
Endrin Aldehyde [2C]	0.092	0.011	mg/Kg dry	0.132	ND	69.5	30-150			
Endrin Ketone	0.085	0.011	mg/Kg dry	0.132	ND	64.2	30-150			
Endrin Ketone [2C]	0.084	0.011	mg/Kg dry	0.132	ND	63.8	30-150			
Heptachlor	0.10	0.0066	mg/Kg dry	0.132	ND	75.9	30-150			
Heptachlor [2C]	0.10	0.0066	mg/Kg dry	0.132	ND	78.8	30-150			
Heptachlor Epoxide	0.10	0.0066	mg/Kg dry	0.132	ND	76.4	30-150			
Heptachlor Epoxide [2C]	0.11	0.0066	mg/Kg dry	0.132	ND	80.3	30-150			
Hexachlorobenzene	0.15	0.0079	mg/Kg dry	0.132	ND	114	30-150			
Hexachlorobenzene [2C]	0.096	0.0079	mg/Kg dry	0.132	ND	72.7	30-150			
Methoxychlor	0.10	0.066	mg/Kg dry	0.132	ND	79.3	30-150			
Methoxychlor [2C]	0.11	0.066	mg/Kg dry	0.132	ND	83.8	30-150			
Surrogate: Decachlorobiphenyl	0.174		mg/Kg dry	0.263		65.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.201		mg/Kg dry	0.263		76.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.197		mg/Kg dry	0.263		74.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.168		mg/Kg dry	0.263		63.7	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202680 - SW-846 3546										
Matrix Spike Dup (B202680-MSD1)	Source: 18E0198-01			Prepared: 05/07/18 Analyzed: 05/15/18						
Alachlor	0.090	0.026	mg/Kg dry	0.132	ND	68.7	30-150	9.83	30	
Alachlor [2C]	0.12	0.026	mg/Kg dry	0.132	ND	88.6	30-150	3.43	30	
Aldrin	0.10	0.0066	mg/Kg dry	0.132	ND	77.5	30-150	8.18	30	
Aldrin [2C]	0.10	0.0066	mg/Kg dry	0.132	ND	79.3	30-150	5.50	30	
alpha-BHC	0.11	0.0066	mg/Kg dry	0.132	ND	84.1	30-150	4.60	30	
alpha-BHC [2C]	0.082	0.0066	mg/Kg dry	0.132	ND	62.5	30-150	13.2	30	
beta-BHC	0.090	0.0066	mg/Kg dry	0.132	ND	68.6	30-150	6.59	30	
beta-BHC [2C]	0.077	0.0066	mg/Kg dry	0.132	ND	58.1	30-150	10.3	30	
delta-BHC	0.095	0.0066	mg/Kg dry	0.132	ND	72.2	30-150	6.93	30	
delta-BHC [2C]	0.084	0.0066	mg/Kg dry	0.132	ND	63.8	30-150	8.53	30	
gamma-BHC (Lindane)	0.10	0.0026	mg/Kg dry	0.132	ND	77.0	30-150	5.96	30	
gamma-BHC (Lindane) [2C]	0.083	0.0026	mg/Kg dry	0.132	ND	63.1	30-150	11.8	30	
4,4'-DDD	0.14	0.0053	mg/Kg dry	0.132	0.058	63.8	30-150	3.54	30	
4,4'-DDD [2C]	0.15	0.0053	mg/Kg dry	0.132	0.062	67.2	30-150	4.67	30	
4,4'-DDE	0.11	0.0053	mg/Kg dry	0.132	ND	80.9	30-150	6.49	30	
4,4'-DDE [2C]	0.11	0.0053	mg/Kg dry	0.132	ND	86.0	30-150	3.73	30	
4,4'-DDT	0.11	0.0053	mg/Kg dry	0.132	ND	82.6	30-150	4.93	30	
4,4'-DDT [2C]	0.092	0.0053	mg/Kg dry	0.132	ND	70.1	30-150	4.51	30	
Dieldrin	0.097	0.0053	mg/Kg dry	0.132	ND	74.0	30-150	7.83	30	
Dieldrin [2C]	0.11	0.0053	mg/Kg dry	0.132	ND	80.7	30-150	3.84	30	
Endosulfan I	0.098	0.0066	mg/Kg dry	0.132	ND	74.6	30-150	7.97	30	
Endosulfan I [2C]	0.11	0.0066	mg/Kg dry	0.132	ND	79.8	30-150	3.03	30	
Endosulfan II	0.097	0.011	mg/Kg dry	0.132	ND	73.3	30-150	6.99	30	
Endosulfan II [2C]	0.10	0.011	mg/Kg dry	0.132	ND	78.6	30-150	4.16	30	
Endosulfan Sulfate	0.089	0.011	mg/Kg dry	0.132	ND	67.6	30-150	6.92	30	
Endosulfan Sulfate [2C]	0.093	0.011	mg/Kg dry	0.132	ND	70.7	30-150	5.47	30	
Endrin	0.099	0.011	mg/Kg dry	0.132	ND	74.8	30-150	6.66	30	
Endrin [2C]	0.10	0.011	mg/Kg dry	0.132	ND	78.4	30-150	3.72	30	
Endrin Aldehyde	0.089	0.011	mg/Kg dry	0.132	ND	67.2	30-150	1.74	30	
Endrin Aldehyde [2C]	0.091	0.011	mg/Kg dry	0.132	ND	69.2	30-150	0.421	30	
Endrin Ketone	0.080	0.011	mg/Kg dry	0.132	ND	60.5	30-150	5.92	30	
Endrin Ketone [2C]	0.080	0.011	mg/Kg dry	0.132	ND	60.7	30-150	4.97	30	
Heptachlor	0.093	0.0066	mg/Kg dry	0.132	ND	70.5	30-150	7.38	30	
Heptachlor [2C]	0.096	0.0066	mg/Kg dry	0.132	ND	73.2	30-150	7.40	30	
Heptachlor Epoxide	0.092	0.0066	mg/Kg dry	0.132	ND	70.0	30-150	8.68	30	
Heptachlor Epoxide [2C]	0.10	0.0066	mg/Kg dry	0.132	ND	76.8	30-150	4.56	30	
Hexachlorobenzene	0.14	0.0079	mg/Kg dry	0.132	ND	106	30-150	7.00	30	
Hexachlorobenzene [2C]	0.085	0.0079	mg/Kg dry	0.132	ND	64.6	30-150	11.9	30	
Methoxychlor	0.10	0.066	mg/Kg dry	0.132	ND	75.8	30-150	4.54	30	
Methoxychlor [2C]	0.10	0.066	mg/Kg dry	0.132	ND	78.8	30-150	6.13	30	
Surrogate: Decachlorobiphenyl	0.166		mg/Kg dry	0.263		63.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg dry	0.263		73.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg dry	0.263		74.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.148		mg/Kg dry	0.263		56.4	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202647 - SW-846 3510C
Blank (B202647-BLK1)

Prepared: 05/06/18 Analyzed: 05/11/18

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.13		µg/L	2.00		56.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.14		µg/L	2.00		57.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.70		µg/L	2.00		85.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.37		µg/L	2.00		68.7	30-150			

LCS (B202647-BS1)

Prepared: 05/06/18 Analyzed: 05/11/18

Aroclor-1016	0.47	0.20	µg/L	0.500		94.2	40-140			
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.1	40-140			
Aroclor-1260	0.44	0.20	µg/L	0.500		88.3	40-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.8	40-140			
Surrogate: Decachlorobiphenyl	1.98		µg/L	2.00		98.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.02		µg/L	2.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	1.82		µg/L	2.00		91.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.48		µg/L	2.00		74.0	30-150			

LCS Dup (B202647-BSD1)

Prepared: 05/06/18 Analyzed: 05/11/18

Aroclor-1016	0.48	0.20	µg/L	0.500		96.6	40-140	2.54	20	
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		93.0	40-140	3.16	20	
Aroclor-1260	0.44	0.20	µg/L	0.500		88.0	40-140	0.286	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.9	40-140	0.156	20	
Surrogate: Decachlorobiphenyl	1.94		µg/L	2.00		97.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.98		µg/L	2.00		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.77		µg/L	2.00		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.44		µg/L	2.00		72.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202679 - SW-846 3546

Blank (B202679-BLK1)

Prepared: 05/07/18 Analyzed: 05/09/18

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	0.162		mg/Kg wet	0.200		81.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg wet	0.200		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.200		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.7	30-150			

LCS (B202679-BS1)

Prepared: 05/07/18 Analyzed: 05/09/18

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.6	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		82.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		77.9	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.5	40-140			
Surrogate: Decachlorobiphenyl	0.166		mg/Kg wet	0.200		83.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.203		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.160		mg/Kg wet	0.200		80.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.168		mg/Kg wet	0.200		83.8	30-150			

LCS Dup (B202679-BSD1)

Prepared: 05/07/18 Analyzed: 05/09/18

Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		76.0	40-140	7.09	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.5	40-140	7.44	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		72.6	40-140	7.05	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		77.8	40-140	7.02	30	
Surrogate: Decachlorobiphenyl	0.156		mg/Kg wet	0.200		78.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.190		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.149		mg/Kg wet	0.200		74.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		77.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202679 - SW-846 3546

Matrix Spike (B202679-MS1)

Source: 18E0198-01

Prepared: 05/07/18 Analyzed: 05/10/18

Aroclor-1016	0.22	0.11	mg/Kg dry	0.263	ND	84.1	40-140			
Aroclor-1016 [2C]	0.23	0.11	mg/Kg dry	0.263	ND	85.5	40-140			
Aroclor-1260	0.19	0.11	mg/Kg dry	0.263	ND	73.2	40-140			
Aroclor-1260 [2C]	0.21	0.11	mg/Kg dry	0.263	ND	78.6	40-140			
Surrogate: Decachlorobiphenyl	0.178		mg/Kg dry	0.263		67.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.214		mg/Kg dry	0.263		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.197		mg/Kg dry	0.263		74.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.201		mg/Kg dry	0.263		76.2	30-150			

Matrix Spike Dup (B202679-MSD1)

Source: 18E0198-01

Prepared: 05/07/18 Analyzed: 05/10/18

Aroclor-1016	0.17	0.11	mg/Kg dry	0.263	ND	64.1	40-140	27.0	30	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.263	ND	66.1	40-140	25.6	30	
Aroclor-1260	0.15	0.11	mg/Kg dry	0.263	ND	56.6	40-140	25.5	30	
Aroclor-1260 [2C]	0.16	0.11	mg/Kg dry	0.263	ND	60.3	40-140	26.3	30	
Surrogate: Decachlorobiphenyl	0.136		mg/Kg dry	0.263		51.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.158		mg/Kg dry	0.263		60.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.149		mg/Kg dry	0.263		56.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.149		mg/Kg dry	0.263		56.7	30-150			

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QUALITY CONTROL
Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202854 - SW-846 3580A										
Blank (B202854-BLK1)				Prepared: 05/08/18 Analyzed: 05/09/18						
TPH (C9-C36)	ND	25000	mg/Kg							
Surrogate: 2-Fluorobiphenyl	2270		mg/Kg	2000		113	40-140			
LCS (B202854-BS1)				Prepared: 05/08/18 Analyzed: 05/09/18						
TPH (C9-C36)	23000	25000	mg/Kg	20000		115	0-200			
Surrogate: 2-Fluorobiphenyl	2330		mg/Kg	2000		117	40-140			
LCS Dup (B202854-BSD1)				Prepared: 05/08/18 Analyzed: 05/09/18						
TPH (C9-C36)	22700	25000	mg/Kg	20000		114	0-200	1.00		
Surrogate: 2-Fluorobiphenyl	2260		mg/Kg	2000		113	40-140			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203074 - SW-846 7470A Prep
Blank (B203074-BLK1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	ND	0.00010	mg/L							
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LCS (B203074-BS1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	0.00196	0.00010	mg/L	0.00200		98.2	80-120			
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LCS Dup (B203074-BSD1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	0.00191	0.00010	mg/L	0.00200		95.3	80-120	2.98	20	
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Batch B203328 - SW-846 3050B
Blank (B203328-BLK1)

Prepared: 05/14/18 Analyzed: 05/15/18

Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Calcium	4.3	5.0	mg/Kg wet							J
Chromium	ND	0.33	mg/Kg wet							
Cobalt	ND	1.7	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Iron	ND	1.7	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Magnesium	ND	5.0	mg/Kg wet							
Manganese	ND	0.33	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Potassium	ND	67	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Sodium	ND	67	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	0.65	0.67	mg/Kg wet							J

LCS (B203328-BS1)

Prepared: 05/14/18 Analyzed: 05/15/18

Antimony	76.2	4.9	mg/Kg wet	65.1		117	3.8-212			
Arsenic	141	4.9	mg/Kg wet	147		96.0	83-117			
Barium	332	4.9	mg/Kg wet	314		106	82.2-117.8			
Beryllium	58.1	0.49	mg/Kg wet	53.4		109	82.8-117.2			
Cadmium	206	0.49	mg/Kg wet	193		107	82.4-117.6			
Calcium	4480	15	mg/Kg wet	4580		97.9	80.8-119			
Chromium	81.4	0.98	mg/Kg wet	82.6		98.5	81.8-118.2			
Cobalt	89.7	4.9	mg/Kg wet	81.3		110	83.4-116.6			
Copper	178	0.98	mg/Kg wet	171		104	83.6-116.4			
Iron	11200	4.9	mg/Kg wet	14100		79.1	60.4-139.7			
Lead	85.2	1.5	mg/Kg wet	92.3		92.3	82.8-117			
Magnesium	2050	15	mg/Kg wet	2240		91.6	75.4-125			
Manganese	205	0.98	mg/Kg wet	222		92.5	82-118			
Nickel	149	0.98	mg/Kg wet	137		109	82.5-118.2			
Potassium	1970	200	mg/Kg wet	2000		98.5	69.5-130.5			
Selenium	190	9.8	mg/Kg wet	187		101	79.1-121.4			
Silver	39.2	0.98	mg/Kg wet	40.7		96.4	79.6-120.4			
Sodium	235	200	mg/Kg wet	216		109	72.2-127.8			
Thallium	163	4.9	mg/Kg wet	153		107	81-119			
Vanadium	96.7	2.0	mg/Kg wet	86.6		112	77.6-122.4			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203328 - SW-846 3050B
LCS (B203328-BS1)

Prepared: 05/14/18 Analyzed: 05/15/18

Zinc	206	2.0	mg/Kg wet	189		109	79.9-120.1			
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LCS Dup (B203328-BSD1)

Prepared: 05/14/18 Analyzed: 05/15/18

Antimony	70.5	5.0	mg/Kg wet	65.1		108	3.8-212	7.83	30	
Arsenic	143	5.0	mg/Kg wet	147		97.4	83-117	1.48	30	
Barium	337	5.0	mg/Kg wet	314		107	82.2-117.8	1.55	30	
Beryllium	57.5	0.50	mg/Kg wet	53.4		108	82.8-117.2	1.03	30	
Cadmium	198	0.50	mg/Kg wet	193		102	82.4-117.6	4.04	30	
Calcium	4480	15	mg/Kg wet	4580		97.8	80.8-119	0.102	30	
Chromium	82.4	1.0	mg/Kg wet	82.6		99.7	81.8-118.2	1.22	30	
Cobalt	85.3	5.0	mg/Kg wet	81.3		105	83.4-116.6	4.99	30	
Copper	185	1.0	mg/Kg wet	171		108	83.6-116.4	4.01	30	
Iron	11600	5.0	mg/Kg wet	14100		82.3	60.4-139.7	3.94	30	
Lead	87.6	1.5	mg/Kg wet	92.3		94.9	82.8-117	2.77	30	
Magnesium	2150	15	mg/Kg wet	2240		96.1	75.4-125	4.78	30	
Manganese	219	1.0	mg/Kg wet	222		98.5	82-118	6.31	30	
Nickel	142	1.0	mg/Kg wet	137		103	82.5-118.2	4.97	30	
Potassium	2090	200	mg/Kg wet	2000		105	69.5-130.5	6.11	30	
Selenium	188	10	mg/Kg wet	187		100	79.1-121.4	1.02	30	
Silver	39.4	1.0	mg/Kg wet	40.7		96.7	79.6-120.4	0.339	30	
Sodium	233	200	mg/Kg wet	216		108	72.2-127.8	0.860	30	
Thallium	161	5.0	mg/Kg wet	153		105	81-119	1.52	30	
Vanadium	91.0	2.0	mg/Kg wet	86.6		105	77.6-122.4	6.00	30	
Zinc	201	2.0	mg/Kg wet	189		107	79.9-120.1	2.04	30	

MRL Check (B203328-MRL1)

Prepared: 05/14/18 Analyzed: 05/15/18

Lead	0.565	0.51	mg/Kg wet	0.508		111	80-120			
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Batch B203412 - SW-846 3005A
Blank (B203412-BLK1)

Prepared: 05/15/18 Analyzed: 05/16/18

Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.15	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.050	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	0.0049	0.010	mg/L							J
Magnesium	ND	0.15	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.020	mg/L							

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203412 - SW-846 3005A
LCS (B203412-BS1)

Prepared: 05/15/18 Analyzed: 05/16/18

Aluminum	0.552	0.050	mg/L	0.500		110	80-120			
Antimony	0.596	0.050	mg/L	0.500		119	80-120			
Arsenic	0.596	0.010	mg/L	0.500		119	80-120			
Barium	0.601	0.050	mg/L	0.500		120	80-120			
Beryllium	0.582	0.0040	mg/L	0.500		116	80-120			
Cadmium	0.587	0.0040	mg/L	0.500		117	80-120			
Calcium	4.68	0.15	mg/L	4.00		117	80-120			
Chromium	0.592	0.010	mg/L	0.500		118	80-120			
Cobalt	0.577	0.050	mg/L	0.500		115	80-120			
Copper	1.13	0.010	mg/L	1.00		113	80-120			
Iron	4.69	0.050	mg/L	4.00		117	80-120			
Lead	0.591	0.010	mg/L	0.500		118	80-120			
Magnesium	4.63	0.15	mg/L	4.00		116	80-120			
Manganese	0.566	0.010	mg/L	0.500		113	80-120			
Nickel	0.602	0.010	mg/L	0.500		120	80-120			
Potassium	4.71	2.0	mg/L	4.00		118	80-120			
Selenium	0.592	0.050	mg/L	0.500		118	80-120			
Silver	0.564	0.0050	mg/L	0.500		113	80-120			
Sodium	4.75	2.0	mg/L	4.00		119	80-120			
Thallium	0.595	0.050	mg/L	0.500		119	80-120			
Vanadium	0.590	0.010	mg/L	0.500		118	80-120			
Zinc	1.15	0.020	mg/L	1.00		115	80-120			

LCS Dup (B203412-BSD1)

Prepared: 05/15/18 Analyzed: 05/16/18

Aluminum	0.549	0.050	mg/L	0.500		110	80-120	0.576	20	
Antimony	0.599	0.050	mg/L	0.500		120	80-120	0.444	20	
Arsenic	0.608	0.010	mg/L	0.500		122	* 80-120	1.92	20	L-07
Barium	0.594	0.050	mg/L	0.500		119	80-120	1.15	20	
Beryllium	0.579	0.0040	mg/L	0.500		116	80-120	0.577	20	
Cadmium	0.598	0.0040	mg/L	0.500		120	80-120	1.92	20	
Calcium	4.67	0.15	mg/L	4.00		117	80-120	0.307	20	
Chromium	0.585	0.010	mg/L	0.500		117	80-120	1.12	20	
Cobalt	0.600	0.050	mg/L	0.500		120	80-120	3.83	20	
Copper	1.11	0.010	mg/L	1.00		111	80-120	1.02	20	
Iron	4.69	0.050	mg/L	4.00		117	80-120	0.0179	20	
Lead	0.587	0.010	mg/L	0.500		117	80-120	0.693	20	
Magnesium	4.62	0.15	mg/L	4.00		115	80-120	0.342	20	
Manganese	0.565	0.010	mg/L	0.500		113	80-120	0.286	20	
Nickel	0.594	0.010	mg/L	0.500		119	80-120	1.29	20	
Potassium	4.68	2.0	mg/L	4.00		117	80-120	0.484	20	
Selenium	0.595	0.050	mg/L	0.500		119	80-120	0.504	20	
Silver	0.551	0.0050	mg/L	0.500		110	80-120	2.37	20	
Sodium	4.74	2.0	mg/L	4.00		119	80-120	0.247	20	
Thallium	0.590	0.050	mg/L	0.500		118	80-120	0.850	20	
Vanadium	0.583	0.010	mg/L	0.500		117	80-120	1.32	20	
Zinc	1.17	0.020	mg/L	1.00		117	80-120	1.88	20	

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203421 - SW-846 7471										
Blank (B203421-BLK1)				Prepared: 05/15/18 Analyzed: 05/16/18						
Mercury	ND	0.025	mg/Kg wet							
LCS (B203421-BS1)				Prepared: 05/15/18 Analyzed: 05/16/18						
Mercury	8.88	1.9	mg/Kg wet	9.36		94.9	73.7-126.3			
LCS Dup (B203421-BSD1)				Prepared: 05/15/18 Analyzed: 05/16/18						
Mercury	9.68	2.0	mg/Kg wet	9.36		103	73.7-126.3	8.62	30	
Matrix Spike (B203421-MS1)				Source: 18E0198-01 Prepared: 05/15/18 Analyzed: 05/16/18						
Mercury	0.213	0.031	mg/Kg dry	0.206	0.0245	91.3	75-125			
Matrix Spike Dup (B203421-MSD1)				Source: 18E0198-01 Prepared: 05/15/18 Analyzed: 05/16/18						
Mercury	0.219	0.031	mg/Kg dry	0.206	0.0245	94.5	75-125	2.88	35	
Batch B203423 - SW-846 3050B										
Blank (B203423-BLK1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Aluminum	ND	2.5	mg/Kg wet							
LCS (B203423-BS1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Aluminum	7360	4.9	mg/Kg wet	8000		92.0	47.4-152.5			
LCS Dup (B203423-BSD1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Aluminum	7830	5.0	mg/Kg wet	8000		97.8	47.4-152.5	6.17	30	
Batch B203510 - SW-846 3051										
Blank (B203510-BLK1)				Prepared: 05/16/18 Analyzed: 05/17/18						
Aluminum	ND	1.7	mg/Kg wet							
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Calcium	ND	5.0	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Cobalt	ND	1.7	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Iron	4.1	1.7	mg/Kg wet							B-07
Lead	ND	0.50	mg/Kg wet							
Magnesium	ND	5.0	mg/Kg wet							
Manganese	ND	0.33	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Potassium	ND	67	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Sodium	ND	67	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203510 - SW-846 3051
LCS (B203510-BS1)

Prepared: 05/16/18 Analyzed: 05/17/18

Aluminum	4990	4.9	mg/Kg wet	8000		62.4	47.4-152.5			
Antimony	101	4.9	mg/Kg wet	65.1		155	3.8-212			
Arsenic	129	4.9	mg/Kg wet	147		87.9	83-117			
Barium	283	4.9	mg/Kg wet	314		90.0	82.2-117.8			
Beryllium	48.4	0.49	mg/Kg wet	53.4		90.6	82.8-117.2			
Cadmium	166	0.49	mg/Kg wet	193		85.8	82.4-117.6			
Calcium	4240	15	mg/Kg wet	4580		92.6	80.8-119			
Chromium	75.8	0.98	mg/Kg wet	82.6		91.8	81.8-118.2			
Cobalt	72.3	4.9	mg/Kg wet	81.3		88.9	83.4-116.6			
Copper	152	0.98	mg/Kg wet	171		88.9	83.6-116.4			
Iron	11900	4.9	mg/Kg wet	14100		84.1	60.4-139.7			B
Lead	83.2	1.5	mg/Kg wet	92.3		90.1	82.8-117			
Magnesium	1770	15	mg/Kg wet	2240		79.0	75.4-125			
Manganese	190	0.98	mg/Kg wet	222		85.6	82-118			
Nickel	120	0.98	mg/Kg wet	137		87.9	82.5-118.2			
Potassium	1500	200	mg/Kg wet	2000		74.8	69.5-130.5			
Selenium	169	9.8	mg/Kg wet	187		90.5	79.1-121.4			
Sodium	189	200	mg/Kg wet	216		87.6	72.2-127.8			J
Thallium	132	4.9	mg/Kg wet	153		86.5	81-119			
Vanadium	75.9	2.0	mg/Kg wet	86.6		87.6	77.6-122.4			
Zinc	169	2.0	mg/Kg wet	189		89.4	79.9-120.1			

LCS Dup (B203510-BSD1)

Prepared: 05/16/18 Analyzed: 05/17/18

Aluminum	3380	4.9	mg/Kg wet	8000		42.2	* 47.4-152.5	38.5	* 30	L-07A
Antimony	107	4.9	mg/Kg wet	65.1		164	3.8-212	5.45	30	
Arsenic	126	4.9	mg/Kg wet	147		85.4	83-117	2.85	30	
Barium	272	4.9	mg/Kg wet	314		86.5	82.2-117.8	4.00	30	
Beryllium	47.4	0.49	mg/Kg wet	53.4		88.8	82.8-117.2	1.97	30	
Cadmium	165	0.49	mg/Kg wet	193		85.6	82.4-117.6	0.257	30	
Calcium	3970	15	mg/Kg wet	4580		86.6	80.8-119	6.63	30	
Chromium	72.1	0.99	mg/Kg wet	82.6		87.2	81.8-118.2	5.06	30	
Cobalt	72.0	4.9	mg/Kg wet	81.3		88.6	83.4-116.6	0.343	30	
Copper	148	0.99	mg/Kg wet	171		86.7	83.6-116.4	2.50	30	
Iron	8730	4.9	mg/Kg wet	14100		61.9	60.4-139.7	30.3	* 30	L-07, B
Lead	82.7	1.5	mg/Kg wet	92.3		89.6	82.8-117	0.564	30	
Magnesium	1420	15	mg/Kg wet	2240		63.2	* 75.4-125	22.3	30	L-07
Manganese	188	0.99	mg/Kg wet	222		84.5	82-118	1.25	30	
Nickel	119	0.99	mg/Kg wet	137		87.0	82.5-118.2	1.00	30	
Potassium	1180	200	mg/Kg wet	2000		59.0	* 69.5-130.5	23.6	30	L-07
Selenium	167	9.9	mg/Kg wet	187		89.5	79.1-121.4	1.12	30	
Sodium	168	200	mg/Kg wet	216		77.7	72.2-127.8	11.9	30	J
Thallium	130	4.9	mg/Kg wet	153		84.9	81-119	1.90	30	
Vanadium	72.5	2.0	mg/Kg wet	86.6		83.7	77.6-122.4	4.49	30	
Zinc	160	2.0	mg/Kg wet	189		84.8	79.9-120.1	5.21	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203510 - SW-846 3051										
MRL Check (B203510-MRL1)					Prepared & Analyzed: 05/16/18					
Lead	0.603	0.50	mg/Kg wet	0.504		120	80-120			
Matrix Spike (B203510-MS1)					Source: 18E0198-01RE1		Prepared: 05/16/18 Analyzed: 05/17/18			
Aluminum	15800	2.3	mg/Kg dry	23.1	14500	5490	*	75-125		MS-19
Antimony	21.2	2.3	mg/Kg dry	23.1	ND	91.7		75-125		
Arsenic	30.6	2.3	mg/Kg dry	23.1	8.38	96.1		75-125		
Barium	184	2.3	mg/Kg dry	23.1	169	65.6	*	75-125		MS-19
Beryllium	21.7	0.23	mg/Kg dry	23.1	0.868	90.2		75-125		
Cadmium	21.0	0.23	mg/Kg dry	23.1	0.397	89.3		75-125		
Calcium	1890	6.9	mg/Kg dry	185	1760	72.4	*	75-125		MS-19
Chromium	44.1	0.46	mg/Kg dry	23.1	22.0	95.6		75-125		
Cobalt	35.0	2.3	mg/Kg dry	23.1	16.7	79.4		75-125		
Copper	68.1	0.46	mg/Kg dry	46.2	21.3	101		75-125		
Iron	49800	23	mg/Kg dry	185	51200	-747	*	75-125		MS-19, B
Lead	33.7	0.69	mg/Kg dry	23.1	13.2	88.7		75-125		
Magnesium	4590	69	mg/Kg dry	185	4330	144	*	75-125		MS-19
Manganese	1750	0.46	mg/Kg dry	23.1	2080	-1440	*	75-125		MS-19
Nickel	41.7	0.46	mg/Kg dry	23.1	19.5	96.0		75-125		
Potassium	2320	920	mg/Kg dry	185	1710	332	*	75-125		MS-19
Selenium	16.7	4.6	mg/Kg dry	23.1	ND	72.2	*	75-125		MS-07A
Sodium	259	92	mg/Kg dry	185	88.7	92.0		75-125		
Thallium	22.7	2.3	mg/Kg dry	23.1	ND	98.4		75-125		
Vanadium	44.6	0.92	mg/Kg dry	23.1	21.8	98.7		75-125		
Zinc	115	0.92	mg/Kg dry	46.2	62.5	114		75-125		
Matrix Spike Dup (B203510-MSD1)					Source: 18E0198-01RE1		Prepared: 05/16/18 Analyzed: 05/17/18			
Aluminum	11700	2.3	mg/Kg dry	23.1	14500	-12000	*	75-125	29.5	35 MS-19
Antimony	19.9	2.3	mg/Kg dry	23.1	ND	85.9		75-125	6.50	35
Arsenic	26.2	2.3	mg/Kg dry	23.1	8.38	77.0		75-125	15.5	35
Barium	152	2.3	mg/Kg dry	23.1	169	-76.4	*	75-125	19.5	35 MS-19
Beryllium	22.1	0.23	mg/Kg dry	23.1	0.868	91.6		75-125	1.54	35
Cadmium	21.3	0.23	mg/Kg dry	23.1	0.397	90.4		75-125	1.31	35
Calcium	1650	6.9	mg/Kg dry	185	1760	-59.1	*	75-125	13.7	35 L-07
Chromium	39.6	0.46	mg/Kg dry	23.1	22.0	76.0		75-125	10.7	35
Cobalt	31.3	2.3	mg/Kg dry	23.1	16.7	63.2	*	75-125	11.2	35 MS-22
Copper	66.0	0.46	mg/Kg dry	46.3	21.3	96.4		75-125	3.17	35
Iron	43400	23	mg/Kg dry	185	51200	-4230	*	75-125	13.9	35 MS-19, B
Lead	30.3	0.69	mg/Kg dry	23.1	13.2	74.0	*	75-125	10.6	35 MS-22
Magnesium	4780	69	mg/Kg dry	185	4330	246	*	75-125	4.05	35 MS-19
Manganese	1010	0.46	mg/Kg dry	23.1	2080	-4620	*	75-125	53.1	* 35 MS-19
Nickel	39.7	0.46	mg/Kg dry	23.1	19.5	87.3		75-125	4.87	35
Potassium	1720	930	mg/Kg dry	185	1710	10.6	*	75-125	29.4	35 MS-19
Selenium	16.6	4.6	mg/Kg dry	23.1	ND	71.6	*	75-125	0.615	35 MS-07A
Sodium	249	93	mg/Kg dry	185	88.7	86.6		75-125	3.92	35
Thallium	22.3	2.3	mg/Kg dry	23.1	ND	96.3		75-125	2.01	35
Vanadium	39.9	0.93	mg/Kg dry	23.1	21.8	78.5		75-125	11.0	35
Zinc	100	0.93	mg/Kg dry	46.3	62.5	81.2		75-125	13.9	35

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202758 - SW-846 9014										
Blank (B202758-BLK1)				Prepared: 05/07/18 Analyzed: 05/08/18						
Cyanide	ND	0.010	mg/L							
LCS (B202758-BS1)				Prepared: 05/07/18 Analyzed: 05/08/18						
Cyanide	0.69	0.020	mg/L	0.684		101	80-120			
LCS Dup (B202758-BSD1)				Prepared: 05/07/18 Analyzed: 05/08/18						
Cyanide	0.67	0.020	mg/L	0.684		97.3	80-120	3.55	20	
Batch B202903 - % Solids										
Duplicate (B202903-DUP2)		Source: 18E0198-01		Prepared: 05/09/18 Analyzed: 05/10/18						
% Solids	76.1		% Wt		75.2			1.20	20	
Batch B203031 - SW-846 9014										
Blank (B203031-BLK1)				Prepared: 05/10/18 Analyzed: 05/11/18						
Cyanide	ND	0.49	mg/Kg wet							
LCS (B203031-BS1)				Prepared: 05/10/18 Analyzed: 05/11/18						
Cyanide	58	2.4	mg/Kg wet	62.6		92.9	80-120			
LCS Dup (B203031-BSD1)				Prepared: 05/10/18 Analyzed: 05/11/18						
Cyanide	62	2.5	mg/Kg wet	62.6		98.2	80-120	5.68	20	
Matrix Spike (B203031-MS1)		Source: 18E0198-01		Prepared: 05/10/18 Analyzed: 05/11/18						
Cyanide	21	0.58	mg/Kg dry	18.9	ND	111	75-125			
Matrix Spike Dup (B203031-MSD1)		Source: 18E0198-01		Prepared: 05/10/18 Analyzed: 05/11/18						
Cyanide	22	0.58	mg/Kg dry	19.0	ND	117	75-125	6.35	35	

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BREAKDOWN REPORT

Lab Sample ID: S023024-PEM1 **Analyzed:** 05/09/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.53
Endrin [1]	3.35

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.67
Endrin [2]	3.49

BREAKDOWN REPORT

Lab Sample ID: S023024-PEM2 **Analyzed:** 05/09/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.66
Endrin [1]	3.38

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.80
Endrin [2]	3.51

BREAKDOWN REPORT

Lab Sample ID: S023145-PEM1 **Analyzed:** 05/14/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.70
Endrin [1]	4.26

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BREAKDOWN REPORT

Lab Sample ID: S023145-PEM1 **Analyzed:** 05/14/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.77
Endrin [2]	3.99

BREAKDOWN REPORT

Lab Sample ID: S023145-PEM2 **Analyzed:** 05/14/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.98
Endrin [1]	3.28

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.98
Endrin [2]	2.91

BREAKDOWN REPORT

Lab Sample ID: S023145-PEM3 **Analyzed:** 05/15/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.07
Endrin [1]	3.18

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.01
Endrin [2]	2.83

BREAKDOWN REPORT

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BREAKDOWN REPORT

Lab Sample ID: S023145-PEM4 **Analyzed:** 05/15/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.11
Endrin [1]	2.97

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.03
Endrin [2]	2.59

BREAKDOWN REPORT

Lab Sample ID: S023145-PEM5 **Analyzed:** 05/15/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.29
Endrin [1]	2.90

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.16
Endrin [2]	2.48

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

401075-SB-07-3-6

SW-846 8081B

Lab Sample ID: 18E0198-01 Date(s) Analyzed: 05/15/2018 05/15/2018

Instrument ID (1): ECD6A Instrument ID (2): ECD6B

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.886	6.857	6.917	0.058	
	2	6.939	6.909	6.969	0.062	6.7

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****401075-SB-06-6-9***SW-846 8082A*

Lab Sample ID: 18E0198-03 Date(s) Analyzed: 05/09/2018 05/09/2018
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.077	
	2	0.000	0.000	0.000	0.096	22.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

401075-FD-01-PEST

Lab Sample ID: 18E0198-16 Date(s) Analyzed: 05/15/2018 05/15/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.883	6.858	6.918	0.0012	
	2	6.938	6.909	6.969	0.0012	0.0
4,4'-DDE	1	6.462	6.435	6.495	0.0012	
	2	6.526	6.495	6.555	0.0029	82.9
4,4'-DDT	1	7.087	7.062	7.122	0.0012	
	2	7.169	7.141	7.201	0.0011	8.7

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B202646-BS1 Date(s) Analyzed: 05/09/2018 05/09/2018
Instrument ID (1): ECD2 Instrument ID (2): ECD2
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.820	6.790	6.850	1.0	
	2	6.841	6.811	6.871	0.97	3.1
4,4'-DDE	1	6.403	6.373	6.433	0.98	
	2	6.431	6.401	6.461	0.95	3.1
4,4'-DDT	1	7.024	6.993	7.053	0.99	
	2	7.069	7.038	7.098	0.98	1.0
Alachlor	1	5.879	5.848	5.908	0.96	
	2	5.676	5.647	5.707	0.97	1.0
Aldrin	1	5.777	5.747	5.807	0.94	
	2	5.715	5.685	5.745	0.90	4.4
alpha-BHC	1	5.140	5.109	5.169	1.0	
	2	5.092	5.062	5.122	0.89	11.6
beta-BHC	1	5.369	5.338	5.398	0.84	
	2	5.335	5.305	5.365	0.82	3.6
delta-BHC	1	5.470	5.440	5.500	0.94	
	2	5.498	5.469	5.529	0.91	3.2
Dieldrin	1	6.593	6.563	6.623	0.97	
	2	6.519	6.489	6.549	0.94	3.1
Endosulfan I	1	6.427	6.397	6.457	0.95	
	2	6.331	6.301	6.361	0.96	1.1
Endosulfan II	1	6.914	6.883	6.943	0.98	
	2	6.886	6.855	6.915	0.99	1.0
Endosulfan Sulfate	1	7.549	7.519	7.579	0.95	
	2	7.348	7.318	7.378	0.93	2.1
Endrin	1	6.753	6.723	6.783	0.93	
	2	6.728	6.698	6.758	0.93	0.0
Endrin Aldehyde	1	7.222	7.193	7.253	0.98	
	2	7.138	7.108	7.168	1.0	2.0
Endrin Ketone	1	7.758	7.729	7.789	0.84	
	2	7.743	7.714	7.774	0.81	3.6
gamma-BHC (Lindane)	1	5.318	5.288	5.348	0.92	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B202646-BS1 Date(s) Analyzed: 05/09/2018 05/09/2018
Instrument ID (1): ECD2 Instrument ID (2): ECD2
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.283	5.253	5.313	0.91	1.1
Heptachlor	1	5.595	5.565	5.625	0.87	
	2	5.526	5.497	5.557	0.89	2.3
Heptachlor Epoxide	1	6.167	6.136	6.196	0.92	
	2	6.077	6.047	6.107	0.91	1.1
Hexachlorobenzene	1	5.045	5.016	5.076	0.92	
	2	5.013	4.983	5.043	0.91	1.1
Methoxychlor	1	7.403	7.372	7.432	0.91	
	2	7.614	7.584	7.644	0.94	3.2

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B202646-BSD1 Date(s) Analyzed: 05/09/2018 05/09/2018
Instrument ID (1): ECD2 Instrument ID (2): ECD2
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.819	6.790	6.850	1.1	
	2	6.841	6.811	6.871	1.0	9.5
4,4'-DDE	1	6.402	6.373	6.433	1.0	
	2	6.430	6.401	6.461	1.0	0.0
4,4'-DDT	1	7.023	6.993	7.053	1.1	
	2	7.068	7.038	7.098	1.0	9.5
Alachlor	1	5.878	5.848	5.908	1.0	
	2	5.676	5.647	5.707	1.0	0.0
Aldrin	1	5.777	5.747	5.807	0.98	
	2	5.715	5.685	5.745	0.96	2.1
alpha-BHC	1	5.140	5.109	5.169	1.0	
	2	5.092	5.062	5.122	0.94	6.2
beta-BHC	1	5.369	5.338	5.398	0.86	
	2	5.334	5.305	5.365	0.87	1.2
delta-BHC	1	5.470	5.440	5.500	0.98	
	2	5.499	5.469	5.529	0.97	1.0
Dieldrin	1	6.593	6.563	6.623	1.0	
	2	6.518	6.489	6.549	0.98	2.0
Endosulfan I	1	6.427	6.397	6.457	1.0	
	2	6.331	6.301	6.361	1.0	0.0
Endosulfan II	1	6.913	6.883	6.943	1.1	
	2	6.885	6.855	6.915	1.0	9.5
Endosulfan Sulfate	1	7.549	7.519	7.579	1.0	
	2	7.347	7.318	7.378	1.0	0.0
Endrin	1	6.753	6.723	6.783	0.99	
	2	6.728	6.698	6.758	0.96	3.1
Endrin Aldehyde	1	7.222	7.193	7.253	1.1	
	2	7.137	7.108	7.168	1.1	0.0
Endrin Ketone	1	7.759	7.729	7.789	0.91	
	2	7.743	7.714	7.774	0.87	4.5
gamma-BHC (Lindane)	1	5.318	5.288	5.348	0.94	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B202646-BSD1 Date(s) Analyzed: 05/09/2018 05/09/2018
Instrument ID (1): ECD2 Instrument ID (2): ECD2
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.283	5.253	5.313	0.96	2.1
Heptachlor	1	5.596	5.565	5.625	0.91	
	2	5.526	5.497	5.557	0.94	3.2
Heptachlor Epoxide	1	6.166	6.136	6.196	0.97	
	2	6.076	6.047	6.107	0.96	1.0
Hexachlorobenzene	1	5.045	5.016	5.076	0.94	
	2	5.012	4.983	5.043	0.95	1.1
Methoxychlor	1	7.403	7.372	7.432	1.0	
	2	7.613	7.584	7.644	0.99	1.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***LCS**

Lab Sample ID: B202647-BS1 Date(s) Analyzed: 05/11/2018 05/11/2018
Instrument ID (1): ECD4 Instrument ID (2): ECD4
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.47	
	2	0.000	0.000	0.000	0.45	4.4
Aroclor-1260	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.45	2.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***LCS Dup**

Lab Sample ID: B202647-BSD1 Date(s) Analyzed: 05/11/2018 05/11/2018
Instrument ID (1): ECD4 Instrument ID (2): ECD4
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.47	2.1
Aroclor-1260	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.45	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B202679-BS1 Date(s) Analyzed: 05/09/2018 05/09/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.16	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.17	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B202679-BSD1 Date(s) Analyzed: 05/09/2018 05/09/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.15	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.16	6.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Matrix Spike**

Lab Sample ID: B202679-MS1 Date(s) Analyzed: 05/10/2018 05/10/2018
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.22	
	2	0.000	0.000	0.000	0.23	4.4
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.21	10.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Matrix Spike Dup**

Lab Sample ID: B202679-MSD1 Date(s) Analyzed: 05/10/2018 05/10/2018
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.17	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.16	6.5

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B202680-BS1 Date(s) Analyzed: 05/14/2018 05/14/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.887	6.856	6.916	0.10	
	2	6.942	6.912	6.972	0.11	9.5
4,4'-DDE	1	6.464	6.434	6.494	0.10	
	2	6.526	6.497	6.557	0.11	9.5
4,4'-DDT	1	7.092	7.061	7.121	0.10	
	2	7.173	7.143	7.203	0.10	0.0
Alachlor	1	5.932	5.902	5.962	0.11	
	2	5.756	5.726	5.786	0.13	16.7
Aldrin	1	5.833	5.802	5.862	0.096	
	2	5.800	5.771	5.831	0.095	1.1
alpha-BHC	1	5.183	5.153	5.213	0.10	
	2	5.158	5.128	5.188	0.086	24.5
alpha-Chlordane	1	6.403	6.372	6.432	0.093	
	2	6.395	6.366	6.426	0.096	3.2
beta-BHC	1	5.416	5.386	5.446	0.090	
	2	5.406	5.376	5.436	0.080	11.8
delta-BHC	1	5.519	5.489	5.549	0.089	
	2	5.574	5.544	5.604	0.076	15.8
Dieldrin	1	6.661	6.631	6.691	0.096	
	2	6.620	6.590	6.650	0.10	3.1
Endosulfan I	1	6.493	6.463	6.523	0.093	
	2	6.429	6.399	6.459	0.096	3.2
Endosulfan II	1	6.985	6.954	7.014	0.098	
	2	6.990	6.960	7.020	0.10	2.0
Endosulfan Sulfate	1	7.626	7.597	7.657	0.10	
	2	7.457	7.428	7.488	0.10	0.0
Endrin	1	6.823	6.794	6.854	0.097	
	2	6.832	6.802	6.862	0.098	1.0
Endrin Aldehyde	1	7.296	7.266	7.326	0.10	
	2	7.245	7.215	7.275	0.10	0.0
Endrin Ketone	1	7.838	7.808	7.868	0.086	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B202680-BS1 Date(s) Analyzed: 05/14/2018 05/14/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	7.856	7.828	7.888	0.086	1.2
gamma-BHC (Lindane)	1	5.364	5.334	5.394	0.097	
	2	5.354	5.324	5.384	0.087	10.9
gamma-Chlordane	1	6.311	6.282	6.342	0.080	
	2	6.296	6.266	6.326	0.096	18.2
Heptachlor	1	5.647	5.617	5.677	0.093	
	2	5.607	5.577	5.637	0.091	2.2
Heptachlor Epoxide	1	6.228	6.198	6.258	0.091	
	2	6.169	6.139	6.199	0.096	5.4
Hexachlorobenzene	1	5.087	5.057	5.117	0.11	
	2	5.078	5.048	5.108	0.089	21.1
Methoxychlor	1	7.470	7.440	7.500	0.10	
	2	7.718	7.690	7.750	0.11	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B202680-BSD1 Date(s) Analyzed: 05/14/2018 05/14/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.886	6.856	6.916	0.096	
	2	6.942	6.912	6.972	0.10	4.1
4,4'-DDE	1	6.464	6.434	6.494	0.093	
	2	6.526	6.497	6.557	0.097	4.2
4,4'-DDT	1	7.091	7.061	7.121	0.097	
	2	7.173	7.143	7.203	0.092	5.3
Alachlor	1	5.932	5.902	5.962	0.10	
	2	5.756	5.726	5.786	0.12	18.2
Aldrin	1	5.832	5.802	5.862	0.089	
	2	5.801	5.771	5.831	0.087	2.3
alpha-BHC	1	5.183	5.153	5.213	0.096	
	2	5.157	5.128	5.188	0.078	21.7
alpha-Chlordane	1	6.402	6.372	6.432	0.086	
	2	6.395	6.366	6.426	0.088	2.3
beta-BHC	1	5.415	5.386	5.446	0.085	
	2	5.405	5.376	5.436	0.074	13.8
delta-BHC	1	5.519	5.489	5.549	0.083	
	2	5.574	5.544	5.604	0.070	17.0
Dieldrin	1	6.660	6.631	6.691	0.088	
	2	6.620	6.590	6.650	0.094	5.5
Endosulfan I	1	6.493	6.463	6.523	0.087	
	2	6.429	6.399	6.459	0.090	3.4
Endosulfan II	1	6.984	6.954	7.014	0.092	
	2	6.990	6.960	7.020	0.094	2.2
Endosulfan Sulfate	1	7.626	7.597	7.657	0.093	
	2	7.458	7.428	7.488	0.094	1.1
Endrin	1	6.823	6.794	6.854	0.089	
	2	6.832	6.802	6.862	0.090	1.1
Endrin Aldehyde	1	7.296	7.266	7.326	0.092	
	2	7.245	7.215	7.275	0.093	0.0
Endrin Ketone	1	7.837	7.808	7.868	0.080	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B202680-BSD1 Date(s) Analyzed: 05/14/2018 05/14/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	7.857	7.828	7.888	0.079	1.3
gamma-BHC (Lindane)	1	5.364	5.334	5.394	0.090	
	2	5.354	5.324	5.384	0.080	11.8
gamma-Chlordane	1	6.311	6.282	6.342	0.071	
	2	6.296	6.266	6.326	0.088	21.4
Heptachlor	1	5.647	5.617	5.677	0.086	
	2	5.606	5.577	5.637	0.083	3.6
Heptachlor Epoxide	1	6.227	6.198	6.258	0.084	
	2	6.169	6.139	6.199	0.089	5.8
Hexachlorobenzene	1	5.087	5.057	5.117	0.10	
	2	5.078	5.048	5.108	0.080	22.2
Methoxychlor	1	7.470	7.440	7.500	0.098	
	2	7.719	7.690	7.750	0.10	2.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B202680-MS1 Date(s) Analyzed: 05/15/2018 05/15/2018
Instrument ID (1): ECD6A Instrument ID (2): ECD6B
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.886	6.857	6.917	0.14	
	2	6.939	6.909	6.969	0.14	0.0
4,4'-DDE	1	6.464	6.434	6.494	0.11	
	2	6.524	6.494	6.554	0.12	8.7
4,4'-DDT	1	7.092	7.062	7.122	0.11	
	2	7.169	7.140	7.200	0.097	12.6
Alachlor	1	5.933	5.903	5.963	0.10	
	2	5.754	5.724	5.784	0.12	18.2
Aldrin	1	5.833	5.804	5.864	0.11	
	2	5.798	5.767	5.827	0.11	0.0
alpha-BHC	1	5.183	5.153	5.213	0.12	
	2	5.156	5.125	5.185	0.094	24.3
beta-BHC	1	5.415	5.386	5.446	0.096	
	2	5.405	5.373	5.433	0.085	13.2
delta-BHC	1	5.519	5.490	5.550	0.10	
	2	5.572	5.541	5.601	0.091	9.4
Dieldrin	1	6.661	6.631	6.691	0.11	
	2	6.616	6.587	6.647	0.11	0.0
Endosulfan I	1	6.493	6.464	6.524	0.11	
	2	6.426	6.397	6.457	0.11	0.0
Endosulfan II	1	6.985	6.955	7.015	0.10	
	2	6.987	6.957	7.017	0.11	9.5
Endosulfan Sulfate	1	7.627	7.597	7.657	0.095	
	2	7.454	7.425	7.485	0.098	3.1
Endrin	1	6.823	6.793	6.853	0.11	
	2	6.829	6.800	6.860	0.11	0.0
Endrin Aldehyde	1	7.296	7.266	7.326	0.090	
	2	7.242	7.213	7.273	0.092	2.2
Endrin Ketone	1	7.838	7.808	7.868	0.085	
	2	7.854	7.824	7.884	0.084	1.2
gamma-BHC (Lindane)	1	5.364	5.334	5.394	0.11	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B202680-MS1 Date(s) Analyzed: 05/15/2018 05/15/2018
Instrument ID (1): ECD6A Instrument ID (2): ECD6B
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.352	5.321	5.381	0.094	15.7
Heptachlor	1	5.646	5.617	5.677	0.10	
	2	5.604	5.574	5.634	0.10	0.0
Heptachlor Epoxide	1	6.228	6.198	6.258	0.10	
	2	6.166	6.136	6.196	0.11	9.5
Hexachlorobenzene	1	5.086	5.057	5.117	0.15	
	2	5.075	5.045	5.105	0.096	43.9
Methoxychlor	1	7.470	7.441	7.501	0.10	
	2	7.716	7.686	7.746	0.11	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B202680-MSD1 Date(s) Analyzed: 05/15/2018 05/15/2018
Instrument ID (1): ECD6A Instrument ID (2): ECD6B
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.887	6.857	6.917	0.14	
	2	6.939	6.909	6.969	0.15	6.9
4,4'-DDE	1	6.464	6.434	6.494	0.11	
	2	6.523	6.494	6.554	0.11	0.0
4,4'-DDT	1	7.092	7.062	7.122	0.11	
	2	7.168	7.140	7.200	0.092	17.8
Alachlor	1	5.933	5.903	5.963	0.090	
	2	5.753	5.724	5.784	0.12	27.5
Aldrin	1	5.833	5.804	5.864	0.10	
	2	5.797	5.767	5.827	0.10	0.0
alpha-BHC	1	5.183	5.153	5.213	0.11	
	2	5.155	5.125	5.185	0.082	29.2
beta-BHC	1	5.416	5.386	5.446	0.090	
	2	5.404	5.373	5.433	0.077	15.6
delta-BHC	1	5.519	5.490	5.550	0.095	
	2	5.571	5.541	5.601	0.084	12.3
Dieldrin	1	6.661	6.631	6.691	0.097	
	2	6.616	6.587	6.647	0.11	12.6
Endosulfan I	1	6.492	6.464	6.524	0.098	
	2	6.426	6.397	6.457	0.11	11.5
Endosulfan II	1	6.985	6.955	7.015	0.097	
	2	6.986	6.957	7.017	0.10	3.1
Endosulfan Sulfate	1	7.626	7.597	7.657	0.089	
	2	7.454	7.425	7.485	0.093	4.4
Endrin	1	6.823	6.793	6.853	0.099	
	2	6.829	6.800	6.860	0.10	1.0
Endrin Aldehyde	1	7.296	7.266	7.326	0.089	
	2	7.242	7.213	7.273	0.091	2.2
Endrin Ketone	1	7.838	7.808	7.868	0.080	
	2	7.854	7.824	7.884	0.080	0.0
gamma-BHC (Lindane)	1	5.364	5.334	5.394	0.10	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B202680-MSD1 Date(s) Analyzed: 05/15/2018 05/15/2018
Instrument ID (1): ECD6A Instrument ID (2): ECD6B
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.351	5.321	5.381	0.083	18.6
Heptachlor	1	5.647	5.617	5.677	0.093	
	2	5.604	5.574	5.634	0.096	3.2
Heptachlor Epoxide	1	6.228	6.198	6.258	0.092	
	2	6.166	6.136	6.196	0.10	8.3
Hexachlorobenzene	1	5.087	5.057	5.117	0.14	
	2	5.075	5.045	5.105	0.085	48.9
Methoxychlor	1	7.470	7.441	7.501	0.10	
	2	7.715	7.686	7.746	0.10	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-07	Data is not affected by elevated level in laboratory blank since sample result is >10x level found in the blank.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
E	Reported result is estimated. Value reported over verified calibration range.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-06	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
PR-07	pH of sample (pH 4) is outside of method specified preservation criteria.
PR-15	According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
RL-11	Elevated reporting limit due to high concentration of target compounds.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

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*	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.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
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.
Z-01	Chromatogram most closely matches a mix of #2 fuel oil and mineral spirits.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C-D in Soil</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 6010C-D in Water</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7470A in Water</i>	

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8081B in Soil</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Soil</i>	
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8081B in Water</i>	
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME,VA
Acetone	CT,NH,NY,VA
Acetone	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,VA
Acrylonitrile	CT,NH,NY,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Benzene	CT,NH,NY,VA
Benzene	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromobenzene	NH,NY,VA
Bromobenzene	NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromochloromethane	NH,NY,VA
Bromochloromethane	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,VA
Bromoform	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,VA
Bromomethane	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,VA
tert-Butyl Alcohol (TBA)	NY
n-Butylbenzene	CT,NH,NY,ME,VA
n-Butylbenzene	CT,NH,NY,VA
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,VA
Chlorodibromomethane	CT,NH,NY,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Chloroform	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME,VA
Dibromomethane	NH,NY,ME,VA
Dibromomethane	NH,NY,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,VA
1,3-Dichloropropane	NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,VA
cis-1,3-Dichloropropene	CT,NH,NY,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,VA
Hexachlorobutadiene	NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
Methylene Chloride	CT,NH,NY,VA
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
Naphthalene	NH,NY,ME,VA
Naphthalene	NH,NY,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME,VA
Styrene	CT,NH,NY,ME,VA
Styrene	CT,NH,NY,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,VA
Toluene	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
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,2,4-Trichlorobenzene	NH,NY,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,VA
Trichloroethylene	CT,NH,NY,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,VA
1,2,4-Trimethylbenzene	CT,NH,NY,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,VA
Vinyl Chloride	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
<i>SW-846 8260C in Water</i>	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA

CERTIFICATIONS
Certified Analyses included in this Report

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	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 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
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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine (as Azobenzene)	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
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-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA
SW-846 9014 in Water	
Cyanide	NY,CT,NH,NC,ME,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



18E0198
Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: **EA Engineering**
Address: **6712 Brooklyn Parkway Suite 104 Greenvale NY 11548**
Phone: **315-565-6565**
Project Name: **Admiral Chenery**
Project Location: **Wardville, NY**
Project Number: **1490778 0003**
Project Manager: **Chris Schroer**
Con-Test Quote Name/Number:
Invoice Recipient: **CSchroer@eastest.com**
Sampled By: **Justin Morris, Stephen Solter**

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	401075-SB-07-3-6	5/12/18	0930			S	
2	401075-SB-15-6-7.5		0945			S	
3	401075-SB-06-6-9		1020			S	H
4	401075-SB-06-6W-GRAB		1030	X		6W	H
5	401075-SB-02-3-6		1150			S	
6	401075-SB-FD-01					S	
7	401075-SB-02-6W-GRAB		1200	X		6W	
8	401075-SB-FD-6W-01			X		6W	
9	401075-MW-01-3-6		1315			S	
10	401075-FD-01					S	

Comments: **Use 401075-SB-07-3-6 (MS/MD) for MS/MD**
Only 2 Vials for 401075-SB-FD-6W-01
All Vial Soil Samples are grab samples
18 oz jar provided for 401075-FD-01-PEST

Relinquished by: (signature)	Date/Time: 5/18/18 1745
Received by: (signature)	Date/Time: 5-3-18 8:20 AM
Relinquished by: (signature)	Date/Time: 5-3-18 1700
Received by: (signature)	Date/Time: 5-4-18 1855
Relinquished by: (signature)	Date/Time: 4.9/13.3
Received by: (signature)	Date/Time: 5/18/18 1515

Requested Turnaround Time: ☒ 7-Day ☐ 10-Day ☐ 15-Day
Due Date:
Resub-Approval Required: ☐ 1-Day ☐ 3-Day ☐ 4-Day
Data Delivery: ☐ PDF ☐ EXCEL
Other: **CHIT B**
CLP Like Data Pkg Required: ☐
Email To: **CSchroer@eastest.com**
Fax To #:

ANALYSIS REQUESTED									
82608-VOCs	X								
8270C-SVOCs	X								
8082-PCB	X								
8081-pest	X								
6010B-TAL Metal	X								
9012B-Glycide	X								
7971B-Aerary	X								
% Moisture	X								
8015 Fingerprint	X								

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

Program & Regulatory Information
☐ AWQ STDS ☐ NYC TOGS
☐ NYC Sewer Discharge ☐ NYC CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other: ☐ Other

Deliverables
☐ Enhanced Data Package
☒ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Project Entity: **NYSDEC**
☒ Government ☐ Municipality
☐ Federal ☐ City
☐ City ☐ Brownfield
☐ City ☐ Brownfield

Other: ☐ WRTA ☐ MWRA ☐ School ☐ MBTA
☐ Chromatogram ☐ AIHA-LAP, LLC

3 Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
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)

1 Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)



Phone: 413-525-2332

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Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 2

Table of Contents

Company Name		Address	
Phone:		Project Name:	
Project Location:		Project Number:	
Project Manager:		Con-Test Quote Name/Number:	
Invoice Recipient:		Sampled By:	
Requested Turnaround Time		Due Date:	
7-Day ☐ 10-Day ☒		1-Day ☐ 3-Day ☐	
Rush Approval Required		2-Day ☐ 4-Day ☐	
Data Delivery		Format: PDF ☐ EXCEL ☐	
Other: CAT ☐		CLP Like Data Pkg Required: ☐	
Email To:		Fax To #:	

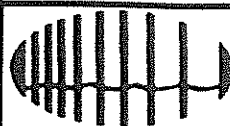
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	401075-MW-01-8-8.5	5/2/18	1320		X	S	
12	401075-MW-06-5-7	1	1340			S	
13	401075-MW-06-7	1	1345			S	
14	401075-SB-14-9-11	1	1420			S	
15	401075-SB-14-6W-6.8.0	1	1430		X	GW	
16	401075-FD-01-PEST	↓	—	X		S	
17	401075-RB-5-2-2018	5/2/18	1530		X	W	
18	TRIP BLK					W	

Comments:

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

Relinquished by: (signature)	Date/Time: 5/2/18 1745	Program & Regulatory Information		Deliverables	
Received by: (signature)	Date/Time: 5-3-18 8:20 AM	AWQ STDS ☐ NYC Sewer Discharge ☐ Part 360 GW (Landfill) ☐ NY Restricted Use ☐ NY Unrestricted Use ☐ NY Part 375 ☐		Enhanced Data Package ☐ NYSDEC EQUIS EDD ☒ EQUIS (Standard) EDD ☐ NY Regulatory EDD ☐ NY Regs Hits-Only EDD ☐	
Relinquished by: (signature)	Date/Time: 5-3-18 1700	Other		Other	
Received by: (signature)	Date/Time: 5-4-18 1515	Project Entity: ☒ Government ☐ Federal ☐ City		Other: ☐ Chromatogram ☐ AIHA-LAP, LLC	
Relinquished by: (signature)	Date/Time: 5/4/18 1515	Municipality: ☐ 21 J ☐ Brownfield ☐ MBTA		Other: ☐ WRTA ☐ School ☐	
Received by: (signature)	Date/Time: 5/4/18 1515	MWRA ☐ School ☐ MBTA		Other: ☐ Chromatogram ☐ AIHA-LAP, LLC	


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 EA Engineering
 Received By hop Date 5/4/18 Time 1515

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 # 577 Actual Temp - 4.9 | 3.3
 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 pertinent Information? Client T Analysis T Sampler Name T
 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? f MS/MSD? T
 Proper Media/Containers Used? T Is splitting samples required? f
 Were trip blanks received? T On COC? T
 Do all samples have the proper pH? Acid pH 4.2 Base pH 2.11

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	13	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	10
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		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:

May 15, 2018

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

Project Location: Watervliet, NY
Client Job Number:
Project Number: 1490378.0003
Laboratory Work Order Number: 18E0010

Enclosed are results of analyses for samples received by the laboratory on May 1, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a long horizontal line extending to the right.

Aaron L. Benoit
Project Manager

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

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

REPORT DATE: 5/15/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490378.0003

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18E0010

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

PROJECT LOCATION: Watervliet, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
401075-SB-13-0-5	18E0010-01	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-03-5-10	18E0010-02	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-01-5-9	18E0010-03	Soil		SM 2540G SW-846 6010C-D SW-846 7471B SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	
401075-SB-GW-SB-03	18E0010-04	Trip Blank Water		SW-846 8260C	
401075-RB-4-30-2018	18E0010-05	Water		SW-846 6010C-D SW-846 7470A SW-846 8082A SW-846 8260C SW-846 8270D SW-846 9014	

CASE NARRATIVE SUMMARY

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

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

SW-846 6010C-D

Qualifications:**DL-04**

Elevated reporting limit due to high concentration of an interfering analyte(s).

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

18E0010-01[401075-SB-13-0-5], 18E0010-03[401075-SB-01-5-9]

SW-846 8260C

Qualifications:**L-02**

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

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

B202360-BS1, B202360-BSD1, B203147-BS1, B203147-BSD1

Carbon Tetrachloride

B203147-BS1, B203147-BSD1

L-04

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

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

18E0010-01[401075-SB-13-0-5], B202358-BLK1, B202358-BS1, B202358-BSD1

Methyl Acetate

18E0010-01[401075-SB-13-0-5], B202358-BLK1, B202358-BS1, B202358-BSD1

L-06

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

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

18E0010-02RE1[401075-SB-03-5-10], 18E0010-04[401075-SB-GW-SB-03], 18E0010-05[401075-RB-4-30-2018], B203147-BS1, B203147-BSD1, B203306-BS1, B203306-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:**Carbon Disulfide**

B202360-BS1, B203147-BS1

Methyl Acetate

B202360-BSD1

Tetrachloroethylene

B202360-BS1

PR-15

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

Analyte & Samples(s) Qualified:

18E0010-01[401075-SB-13-0-5], 18E0010-02[401075-SB-03-5-10], 18E0010-02RE1[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9]

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

18E0010-02[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9], 18E0010-04[401075-SB-GW-SB-03]

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V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

18E0010-01[401075-SB-13-0-5], B202358-BLK1, B202358-BS1, B202358-BSD1, S022761-CCV1

Carbon Disulfide

18E0010-01[401075-SB-13-0-5], B202358-BLK1, B202358-BS1, B202358-BSD1, S022761-CCV1

Chloromethane

18E0010-01[401075-SB-13-0-5], 18E0010-04[401075-SB-GW-SB-03], 18E0010-05[401075-RB-4-30-2018], B202358-BLK1, B202358-BS1, B202358-BSD1, B203147-BLK1, B203147-BS1, B203147-BSD1, S022761-CCV1, S023167-CCV1

Methyl Acetate

18E0010-01[401075-SB-13-0-5], B202358-BLK1, B202358-BS1, B202358-BSD1, S022761-CCV1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**tert-Butyl Alcohol (TBA)**

B203147-BS1, B203147-BSD1, S023167-CCV1

V-20

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

Analyte & Samples(s) Qualified:**1,1,2-Trichloro-1,2,2-trifluoroethane**

B202360-BS1, B202360-BSD1, S023131-CCV1

1,2,3-Trichloropropane

B202358-BS1, B202358-BSD1, S022761-CCV1

1,2-Dibromoethane (EDB)

B202360-BS1, B202360-BSD1, S023131-CCV1

Bromochloromethane

B202360-BS1, B202360-BSD1, B203147-BS1, B203147-BSD1, S023131-CCV1, S023167-CCV1

Chlorodibromomethane

B203147-BS1, B203147-BSD1, S023167-CCV1

Trichlorofluoromethane (Freon 11)

B202360-BS1, B202360-BSD1, S023131-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**

18E0010-01[401075-SB-13-0-5], B202358-BLK1, B202358-BS1, B202358-BSD1, S022761-CCV1

Dichlorodifluoromethane (Freon 12)

18E0010-01[401075-SB-13-0-5], B202358-BLK1, B202358-BS1, B202358-BSD1, B202360-BS1, B202360-BSD1, B203147-BS1, B203147-BSD1, S022761-CCV1, S023131-CCV1, S023167-CCV1

SW-846 8270D**Qualifications:****L-07A**

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

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

B202466-BS1, B202879-BS1

Benzoic Acid

B202879-BS1

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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:**Benzidine**

18E0010-01[401075-SB-13-0-5], 18E0010-02[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9], 18E0010-05RE1[401075-RB-4-30-2018], B202466-BLK1, B202466-BSD1, B202879-BLK1, B202879-BSD1

Benzoic Acid

18E0010-01[401075-SB-13-0-5], 18E0010-02[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9], B202879-BLK1, B202879-BSD1

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**

18E0010-01[401075-SB-13-0-5], 18E0010-02[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9], 18E0010-05RE1[401075-RB-4-30-2018], B202466-BLK1, B202466-BSD1, B202879-BLK1, B202879-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

18E0010-01[401075-SB-13-0-5], 18E0010-02[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9], 18E0010-05RE1[401075-RB-4-30-2018], B202879-BLK1, B202879-BSD1

Aniline

18E0010-01[401075-SB-13-0-5], 18E0010-02[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9], 18E0010-05RE1[401075-RB-4-30-2018], B202879-BLK1, B202879-BSD1

Benzidine

18E0010-01[401075-SB-13-0-5], 18E0010-02[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9], 18E0010-05RE1[401075-RB-4-30-2018], B202466-BLK1, B202466-BSD1, B202879-BLK1, B202879-BSD1

Hexachlorocyclopentadiene

18E0010-01[401075-SB-13-0-5], 18E0010-02[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9], 18E0010-05RE1[401075-RB-4-30-2018], B202466-BLK1, B202466-BSD1, B202879-BLK1, B202879-BSD1

V-16

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

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

18E0010-01[401075-SB-13-0-5], 18E0010-02[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9], 18E0010-05RE1[401075-RB-4-30-2018], B202466-BLK1, B202466-BSD1, B202879-BLK1, B202879-BSD1

V-19

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

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

18E0010-01[401075-SB-13-0-5], 18E0010-02[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9], 18E0010-05RE1[401075-RB-4-30-2018], B202466-BLK1, B202466-BSD1, B202879-BLK1, B202879-BSD1

V-20

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

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

B202466-BSD1

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**

18E0010-01[401075-SB-13-0-5], 18E0010-02[401075-SB-03-5-10], 18E0010-03[401075-SB-01-5-9], 18E0010-05RE1[401075-RB-4-30-2018], B202466-BLK1, B202466-BSD1, B202879-BLK1, B202879-BSD1

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SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

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

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

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light pink rectangular background.

Lisa A. Worthington
Project Manager

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-13-0-5

Sampled: 4/30/2018 09:50

Sample ID: 18E0010-01

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.031	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Acrylonitrile	ND	0.0079	0.0033	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Benzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Bromobenzene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Bromodichloromethane	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Bromomethane	ND	0.013	0.0055	mg/Kg dry	1	V-05, V-34	SW-846 8260C	5/2/18	5/2/18 14:07	MFF
2-Butanone (MEK)	ND	0.053	0.023	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
tert-Butyl Alcohol (TBA)	ND	0.053	0.027	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
n-Butylbenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
sec-Butylbenzene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
tert-Butylbenzene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00079	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Carbon Disulfide	ND	0.0079	0.0057	mg/Kg dry	1	V-05	SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Carbon Tetrachloride	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Chlorobenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Chlorodibromomethane	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Chloroethane	ND	0.026	0.0020	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Chloroform	ND	0.0053	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Chloromethane	ND	0.013	0.0084	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/2/18	5/2/18 14:07	MFF
2-Chlorotoluene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
4-Chlorotoluene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Dibromomethane	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
trans-1,4-Dichloro-2-butene	ND	0.0053	0.0028	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1	V-34	SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,1-Dichloroethane	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,1-Dichloroethylene	ND	0.0053	0.0014	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
cis-1,2-Dichloroethylene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,3-Dichloropropane	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
2,2-Dichloropropane	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,1-Dichloropropene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Diethyl Ether	ND	0.026	0.0024	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-13-0-5

Sampled: 4/30/2018 09:50

Sample ID: 18E0010-01

Sample Matrix: Soil

Sample Flags: PR-15

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.0013	0.00079	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,4-Dioxane	ND	0.13	0.076	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Ethylbenzene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Hexachlorobutadiene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Methyl Acetate	ND	0.0026	0.0021	mg/Kg dry	1	L-04, V-05	SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0053	0.0012	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Methyl Cyclohexane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Methylene Chloride	ND	0.026	0.0093	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.010	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Naphthalene	ND	0.0053	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
n-Propylbenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Styrene	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	0.0024	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Tetrachloroethylene	0.0082	0.0026	0.0017	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Tetrahydrofuran	ND	0.013	0.0029	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Toluene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,2,4-Trichlorobenzene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,3,5-Trichlorobenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0016	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Trichloroethylene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,2,3-Trichloropropane	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,2,4-Trimethylbenzene	ND	0.0026	0.0011	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
1,3,5-Trimethylbenzene	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
m+p Xylene	ND	0.0053	0.0022	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
o-Xylene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260C	5/2/18	5/2/18 14:07	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	103	70-130				5/2/18 14:07				
Toluene-d8	99.4	70-130				5/2/18 14:07				
4-Bromofluorobenzene	100	70-130				5/2/18 14:07				

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-13-0-5

Sampled: 4/30/2018 09:50

Sample ID: 18E0010-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.23	0.068	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Acenaphthylene	ND	0.23	0.076	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Acetophenone	ND	0.45	0.089	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Aniline	ND	0.45	0.13	mg/Kg dry	1	V-05	SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Anthracene	ND	0.23	0.065	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Benzidine	ND	0.88	0.57	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Benzo(a)anthracene	ND	0.23	0.060	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Benzo(a)pyrene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Benzo(b)fluoranthene	ND	0.23	0.064	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Benzo(g,h,i)perylene	ND	0.23	0.10	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Benzo(k)fluoranthene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Benzoic Acid	ND	1.3	0.24	mg/Kg dry	1	R-05	SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Bis(2-chloroethoxy)methane	ND	0.45	0.087	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Bis(2-chloroethyl)ether	ND	0.45	0.089	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Bis(2-chloroisopropyl)ether	ND	0.45	0.097	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.45	0.18	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
4-Bromophenylphenylether	ND	0.45	0.076	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Butylbenzylphthalate	ND	0.45	0.11	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Carbazole	ND	0.23	0.059	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
4-Chloroaniline	ND	0.88	0.10	mg/Kg dry	1	V-34	SW-846 8270D	5/9/18	5/10/18 23:26	CDT
4-Chloro-3-methylphenol	ND	0.88	0.097	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2-Chloronaphthalene	ND	0.45	0.085	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2-Chlorophenol	ND	0.45	0.081	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
4-Chlorophenylphenylether	ND	0.45	0.076	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Chrysene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Dibenz(a,h)anthracene	ND	0.23	0.14	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Dibenzofuran	ND	0.45	0.079	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Di-n-butylphthalate	ND	0.45	0.099	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
1,2-Dichlorobenzene	ND	0.45	0.080	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
1,3-Dichlorobenzene	ND	0.45	0.077	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
1,4-Dichlorobenzene	ND	0.45	0.081	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
3,3-Dichlorobenzidine	ND	0.23	0.069	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2,4-Dichlorophenol	ND	0.45	0.077	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Diethylphthalate	ND	0.45	0.081	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2,4-Dimethylphenol	ND	0.45	0.084	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Dimethylphthalate	ND	0.45	0.080	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
4,6-Dinitro-2-methylphenol	ND	0.45	0.43	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2,4-Dinitrophenol	ND	0.88	0.26	mg/Kg dry	1	V-05, V-19	SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2,4-Dinitrotoluene	ND	0.45	0.073	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2,6-Dinitrotoluene	ND	0.45	0.080	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Di-n-octylphthalate	ND	0.45	0.24	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.45	0.073	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Fluoranthene	ND	0.23	0.075	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Fluorene	ND	0.23	0.073	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-13-0-5

Sampled: 4/30/2018 09:50

Sample ID: 18E0010-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.45	0.080	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Hexachlorobutadiene	ND	0.45	0.080	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Hexachlorocyclopentadiene	ND	0.45	0.096	mg/Kg dry	1	V-05	SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Hexachloroethane	ND	0.45	0.091	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Indeno(1,2,3-cd)pyrene	ND	0.23	0.16	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Isophorone	ND	0.45	0.088	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
1-Methylnaphthalene	ND	0.23	0.087	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2-Methylnaphthalene	ND	0.23	0.079	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2-Methylphenol	ND	0.45	0.11	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
3/4-Methylphenol	ND	0.45	0.14	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Naphthalene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2-Nitroaniline	ND	0.45	0.076	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
3-Nitroaniline	ND	0.45	0.065	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
4-Nitroaniline	ND	0.45	0.076	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Nitrobenzene	ND	0.45	0.085	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2-Nitrophenol	ND	0.45	0.12	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
4-Nitrophenol	ND	0.88	0.099	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
N-Nitrosodimethylamine	ND	0.45	0.29	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
N-Nitrosodiphenylamine	ND	0.45	0.093	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
N-Nitrosodi-n-propylamine	ND	0.45	0.093	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Pentachloronitrobenzene	ND	0.45	0.11	mg/Kg dry	1	V-16	SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Pentachlorophenol	ND	0.45	0.11	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Phenanthrene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Phenol	ND	0.45	0.077	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Pyrene	ND	0.23	0.075	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Pyridine	ND	0.45	0.073	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.45	0.081	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
1,2,4-Trichlorobenzene	ND	0.45	0.081	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2,4,5-Trichlorophenol	ND	0.45	0.10	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
2,4,6-Trichlorophenol	ND	0.45	0.076	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:26	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	59.5		30-130				5/10/18 23:26			
Phenol-d6	61.9		30-130				5/10/18 23:26			
Nitrobenzene-d5	60.3		30-130				5/10/18 23:26			
2-Fluorobiphenyl	51.4		30-130				5/10/18 23:26			
2,4,6-Tribromophenol	50.6		30-130				5/10/18 23:26			
p-Terphenyl-d14	72.0		30-130				5/10/18 23:26			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-13-0-5

Sampled: 4/30/2018 09:50

Sample ID: 18E0010-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.027	0.016	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:27	WAL
Aroclor-1221 [1]	ND	0.027	0.017	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:27	WAL
Aroclor-1232 [1]	ND	0.027	0.012	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:27	WAL
Aroclor-1242 [1]	ND	0.027	0.013	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:27	WAL
Aroclor-1248 [1]	ND	0.027	0.016	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:27	WAL
Aroclor-1254 [1]	ND	0.027	0.017	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:27	WAL
Aroclor-1260 [1]	ND	0.027	0.019	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:27	WAL
Aroclor-1262 [1]	ND	0.027	0.013	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:27	WAL
Aroclor-1268 [1]	ND	0.027	0.011	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:27	WAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	85.4		30-150						5/6/18 11:27	
Decachlorobiphenyl [2]	93.6		30-150						5/6/18 11:27	
Tetrachloro-m-xylene [1]	77.3		30-150						5/6/18 11:27	
Tetrachloro-m-xylene [2]	86.7		30-150						5/6/18 11:27	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-13-0-5

Sampled: 4/30/2018 09:50

Sample ID: 18E0010-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	2.3	2.1	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Antimony	ND	2.3	1.6	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Arsenic	5.6	2.3	1.2	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Barium	130	2.3	1.1	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Beryllium	0.96	0.23	0.17	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Cadmium	0.22	0.23	0.14	mg/Kg dry	1	J	SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Calcium	12000	6.9	4.8	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Chromium	22	0.46	0.29	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Cobalt	13	2.3	1.3	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Copper	33	0.46	0.39	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Iron	47000	46	40	mg/Kg dry	20		SW-846 6010C-D	5/11/18	5/15/18 9:49	QNW
Lead	38	0.69	0.41	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Magnesium	10000	140	75	mg/Kg dry	20		SW-846 6010C-D	5/11/18	5/15/18 9:49	QNW
Manganese	710	0.46	0.14	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Mercury	0.12	0.034	0.0034	mg/Kg dry	1		SW-846 7471B	5/11/18	5/14/18 10:34	EJB
Nickel	27	0.46	0.37	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Potassium	2900	1800	670	mg/Kg dry	20		SW-846 6010C-D	5/11/18	5/15/18 9:49	QNW
Selenium	ND	4.6	3.8	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Silver	ND	0.92	0.54	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/11/18	5/15/18 9:59	QNW
Sodium	190	92	35	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Thallium	ND	2.3	1.7	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Vanadium	23	0.92	0.69	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH
Zinc	92	0.92	0.63	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:29	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-13-0-5

Sampled: 4/30/2018 09:50

Sample ID: 18E0010-01

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.64	0.31	mg/Kg dry	1		SW-846 9014	5/2/18	5/3/18 12:00	DJM
% Solids	74.6			% Wt	1		SM 2540G	5/2/18	5/3/18 7:23	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-03-5-10

Sampled: 4/30/2018 12:50

Sample ID: 18E0010-02

Sample Matrix: Soil

Sample Flags: PR-15, RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	29	5.6	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Acrylonitrile	ND	2.9	0.33	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.29	0.061	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Benzene	ND	0.58	0.069	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Bromobenzene	ND	0.58	0.087	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Bromochloromethane	ND	0.58	0.13	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Bromodichloromethane	ND	0.58	0.17	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Bromoform	ND	0.58	0.12	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Bromomethane	ND	1.2	0.54	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
2-Butanone (MEK)	ND	12	1.4	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
tert-Butyl Alcohol (TBA)	ND	12	1.3	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
n-Butylbenzene	0.20	0.58	0.087	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
sec-Butylbenzene	0.092	0.58	0.075	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
tert-Butylbenzene	ND	0.58	0.070	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.29	0.055	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Carbon Disulfide	ND	1.7	0.59	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Carbon Tetrachloride	ND	0.58	0.14	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Chlorobenzene	ND	0.58	0.092	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Chlorodibromomethane	ND	0.29	0.060	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Chloroethane	ND	1.2	0.16	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Chloroform	ND	1.2	0.13	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Chloromethane	ND	1.2	0.32	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
2-Chlorotoluene	ND	0.58	0.069	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
4-Chlorotoluene	ND	0.58	0.081	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.9	0.21	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,2-Dibromoethane (EDB)	ND	0.29	0.085	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Dibromomethane	ND	0.58	0.092	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,2-Dichlorobenzene	ND	0.58	0.098	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,3-Dichlorobenzene	ND	0.58	0.098	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,4-Dichlorobenzene	ND	0.58	0.087	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
trans-1,4-Dichloro-2-butene	ND	1.2	0.18	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Dichlorodifluoromethane (Freon 12)	ND	1.2	0.16	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,1-Dichloroethane	ND	0.58	0.091	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,2-Dichloroethane	ND	0.58	0.11	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,1-Dichloroethylene	ND	0.58	0.12	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
cis-1,2-Dichloroethylene	21	0.58	0.085	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
trans-1,2-Dichloroethylene	0.13	0.58	0.087	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,2-Dichloropropane	ND	0.58	0.075	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,3-Dichloropropane	ND	0.29	0.075	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
2,2-Dichloropropane	ND	0.58	0.12	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,1-Dichloropropene	ND	1.2	0.074	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
cis-1,3-Dichloropropene	ND	0.29	0.069	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
trans-1,3-Dichloropropene	ND	0.29	0.065	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Diethyl Ether	ND	1.2	0.13	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-03-5-10

Sampled: 4/30/2018 12:50

Sample ID: 18E0010-02

Sample Matrix: Soil

Sample Flags: PR-15, RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.29	0.10	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,4-Dioxane	ND	58	15	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Ethylbenzene	0.19	0.58	0.075	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Hexachlorobutadiene	ND	0.58	0.34	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
2-Hexanone (MBK)	ND	5.8	0.88	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Isopropylbenzene (Cumene)	0.12	0.58	0.069	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
p-Isopropyltoluene (p-Cymene)	0.087	0.58	0.087	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Methyl Acetate	ND	5.8	0.24	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.58	0.052	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Methyl Cyclohexane	ND	0.58	0.36	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Methylene Chloride	ND	2.9	1.8	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.8	0.85	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Naphthalene	0.68	1.2	0.070	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
n-Propylbenzene	0.20	0.58	0.075	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Styrene	ND	0.58	0.087	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,1,1,2-Tetrachloroethane	ND	0.58	0.069	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,1,2,2-Tetrachloroethane	ND	0.29	0.092	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Tetrachloroethylene	170	5.8	1.6	mg/Kg dry	100	L-06	SW-846 8260C	5/14/18	5/14/18 17:36	LBD
Tetrahydrofuran	ND	5.8	0.62	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Toluene	0.10	0.58	0.098	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,2,3-Trichlorobenzene	ND	2.9	0.081	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,2,4-Trichlorobenzene	ND	0.58	0.11	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,3,5-Trichlorobenzene	ND	0.58	0.098	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,1,1-Trichloroethane	ND	0.58	0.076	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,1,2-Trichloroethane	ND	0.58	0.14	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Trichloroethylene	35	0.58	0.12	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Trichlorofluoromethane (Freon 11)	ND	1.2	0.085	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,2,3-Trichloropropane	ND	1.2	0.12	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.58	0.11	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,2,4-Trimethylbenzene	0.39	0.58	0.10	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
1,3,5-Trimethylbenzene	0.12	0.58	0.075	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Vinyl Chloride	ND	1.2	0.077	mg/Kg dry	10		SW-846 8260C	5/2/18	5/12/18 0:17	LBD
m+p Xylene	0.16	1.2	0.15	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
o-Xylene	0.11	0.58	0.076	mg/Kg dry	10	J	SW-846 8260C	5/2/18	5/12/18 0:17	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	98.0		70-130				5/12/18 0:17			
1,2-Dichloroethane-d4	101		70-130				5/14/18 17:36			
Toluene-d8	100		70-130				5/12/18 0:17			
Toluene-d8	102		70-130				5/14/18 17:36			
4-Bromofluorobenzene	101		70-130				5/12/18 0:17			
4-Bromofluorobenzene	103		70-130				5/14/18 17:36			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-03-5-10

Sampled: 4/30/2018 12:50

Sample ID: 18E0010-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.057	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Acenaphthylene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Acetophenone	ND	0.38	0.075	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Aniline	ND	0.38	0.11	mg/Kg dry	1	V-05	SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Anthracene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Benzidine	ND	0.74	0.48	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Benzo(a)anthracene	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Benzo(a)pyrene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Benzo(g,h,i)perylene	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Benzo(k)fluoranthene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Benzoic Acid	ND	1.1	0.20	mg/Kg dry	1	R-05	SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Bis(2-chloroethoxy)methane	ND	0.38	0.073	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Bis(2-chloroethyl)ether	ND	0.38	0.075	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Bis(2-chloroisopropyl)ether	ND	0.38	0.082	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
4-Bromophenylphenylether	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Butylbenzylphthalate	ND	0.38	0.091	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Carbazole	ND	0.19	0.049	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
4-Chloroaniline	ND	0.74	0.087	mg/Kg dry	1	V-34	SW-846 8270D	5/9/18	5/10/18 23:52	CDT
4-Chloro-3-methylphenol	ND	0.74	0.082	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2-Chloronaphthalene	ND	0.38	0.072	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2-Chlorophenol	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
4-Chlorophenylphenylether	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Chrysene	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Dibenzofuran	0.17	0.38	0.066	mg/Kg dry	1	J	SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Di-n-butylphthalate	ND	0.38	0.083	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
1,2-Dichlorobenzene	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
1,3-Dichlorobenzene	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
1,4-Dichlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
3,3-Dichlorobenzidine	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2,4-Dichlorophenol	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Diethylphthalate	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2,4-Dimethylphenol	ND	0.38	0.070	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Dimethylphthalate	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
4,6-Dinitro-2-methylphenol	ND	0.38	0.36	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2,4-Dinitrophenol	ND	0.74	0.22	mg/Kg dry	1	V-05, V-19	SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2,4-Dinitrotoluene	ND	0.38	0.062	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2,6-Dinitrotoluene	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Di-n-octylphthalate	ND	0.38	0.20	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	0.062	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Fluoranthene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Fluorene	0.47	0.19	0.062	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-03-5-10

Sampled: 4/30/2018 12:50

Sample ID: 18E0010-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Hexachlorobutadiene	ND	0.38	0.067	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Hexachlorocyclopentadiene	ND	0.38	0.081	mg/Kg dry	1	V-05	SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Hexachloroethane	ND	0.38	0.076	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Isophorone	ND	0.38	0.074	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
1-Methylnaphthalene	1.6	0.19	0.073	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2-Methylnaphthalene	0.90	0.19	0.066	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2-Methylphenol	ND	0.38	0.095	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
3/4-Methylphenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Naphthalene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2-Nitroaniline	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
3-Nitroaniline	ND	0.38	0.055	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
4-Nitroaniline	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Nitrobenzene	ND	0.38	0.072	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2-Nitrophenol	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
4-Nitrophenol	ND	0.74	0.083	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
N-Nitrosodimethylamine	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
N-Nitrosodiphenylamine	ND	0.38	0.078	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
N-Nitrosodi-n-propylamine	ND	0.38	0.078	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Pentachloronitrobenzene	ND	0.38	0.091	mg/Kg dry	1	V-16	SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Pentachlorophenol	ND	0.38	0.092	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Phenanthrene	1.3	0.19	0.098	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Phenol	ND	0.38	0.065	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Pyrene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Pyridine	ND	0.38	0.062	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
1,2,4-Trichlorobenzene	ND	0.38	0.068	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2,4,5-Trichlorophenol	ND	0.38	0.086	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
2,4,6-Trichlorophenol	ND	0.38	0.064	mg/Kg dry	1		SW-846 8270D	5/9/18	5/10/18 23:52	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	60.7		30-130				5/10/18 23:52			
Phenol-d6	59.6		30-130				5/10/18 23:52			
Nitrobenzene-d5	55.5		30-130				5/10/18 23:52			
2-Fluorobiphenyl	49.0		30-130				5/10/18 23:52			
2,4,6-Tribromophenol	58.9		30-130				5/10/18 23:52			
p-Terphenyl-d14	70.1		30-130				5/10/18 23:52			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-03-5-10

Sampled: 4/30/2018 12:50

Sample ID: 18E0010-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.023	0.014	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:39	WAL
Aroclor-1221 [1]	ND	0.023	0.015	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:39	WAL
Aroclor-1232 [1]	ND	0.023	0.010	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:39	WAL
Aroclor-1242 [1]	ND	0.023	0.011	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:39	WAL
Aroclor-1248 [1]	ND	0.023	0.014	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:39	WAL
Aroclor-1254 [1]	ND	0.023	0.015	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:39	WAL
Aroclor-1260 [1]	ND	0.023	0.016	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:39	WAL
Aroclor-1262 [1]	ND	0.023	0.011	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:39	WAL
Aroclor-1268 [1]	ND	0.023	0.0092	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:39	WAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	80.4		30-150						5/6/18 11:39	
Decachlorobiphenyl [2]	88.2		30-150						5/6/18 11:39	
Tetrachloro-m-xylene [1]	53.9		30-150						5/6/18 11:39	
Tetrachloro-m-xylene [2]	65.1		30-150						5/6/18 11:39	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-03-5-10

Sampled: 4/30/2018 12:50

Sample ID: 18E0010-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	12000	1.8	1.7	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Antimony	ND	1.8	1.2	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Arsenic	1.6	1.8	0.91	mg/Kg dry	1	J	SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Barium	77	1.8	0.89	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Beryllium	0.62	0.18	0.13	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Cadmium	0.30	0.18	0.11	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Calcium	2100	5.4	3.7	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Chromium	20	0.36	0.22	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Cobalt	6.3	1.8	1.0	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Copper	55	0.36	0.31	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Iron	23000	36	31	mg/Kg dry	20		SW-846 6010C-D	5/11/18	5/15/18 10:02	QNW
Lead	18	0.54	0.32	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Magnesium	5500	110	58	mg/Kg dry	20		SW-846 6010C-D	5/11/18	5/15/18 10:02	QNW
Manganese	270	0.36	0.11	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Mercury	0.57	0.055	0.0055	mg/Kg dry	2		SW-846 7471B	5/11/18	5/14/18 11:07	EJB
Nickel	26	0.36	0.29	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Potassium	1000	720	260	mg/Kg dry	10		SW-846 6010C-D	5/11/18	5/15/18 10:07	QNW
Selenium	ND	3.6	3.0	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Silver	ND	0.36	0.21	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Sodium	120	72	27	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Thallium	ND	1.8	1.3	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Vanadium	16	0.72	0.53	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH
Zinc	100	0.72	0.49	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:35	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-03-5-10

Sampled: 4/30/2018 12:50

Sample ID: 18E0010-02

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.28	0.40	0.20	mg/Kg dry	1	J	SW-846 9014	5/2/18	5/3/18 12:00	DJM
% Solids	87.3			% Wt	1		SM 2540G	5/2/18	5/3/18 7:23	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-01-5-9

Sampled: 4/30/2018 13:40

Sample ID: 18E0010-03

Sample Matrix: Soil

Sample Flags: PR-15, RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	340	66	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Acrylonitrile	ND	34	4.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
tert-Amyl Methyl Ether (TAME)	ND	3.4	0.73	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Benzene	ND	6.8	0.82	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Bromobenzene	ND	6.8	1.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Bromochloromethane	ND	6.8	1.5	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Bromodichloromethane	ND	6.8	2.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Bromoform	ND	6.8	1.4	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Bromomethane	ND	14	6.4	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
2-Butanone (MEK)	ND	140	16	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
tert-Butyl Alcohol (TBA)	ND	140	15	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
n-Butylbenzene	1.2	6.8	1.0	mg/Kg dry	100	J	SW-846 8260C	5/2/18	5/12/18 0:48	LBD
sec-Butylbenzene	ND	6.8	0.89	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
tert-Butylbenzene	ND	6.8	0.83	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	3.4	0.65	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Carbon Disulfide	ND	21	7.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Carbon Tetrachloride	ND	6.8	1.7	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Chlorobenzene	ND	6.8	1.1	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Chlorodibromomethane	ND	3.4	0.71	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Chloroethane	ND	14	1.9	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Chloroform	ND	14	1.5	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Chloromethane	ND	14	3.8	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
2-Chlorotoluene	ND	6.8	0.82	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
4-Chlorotoluene	ND	6.8	0.96	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	34	2.5	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,2-Dibromoethane (EDB)	ND	3.4	1.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Dibromomethane	ND	6.8	1.1	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,2-Dichlorobenzene	ND	6.8	1.2	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,3-Dichlorobenzene	ND	6.8	1.2	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,4-Dichlorobenzene	ND	6.8	1.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
trans-1,4-Dichloro-2-butene	ND	14	2.1	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Dichlorodifluoromethane (Freon 12)	ND	14	1.9	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,1-Dichloroethane	ND	6.8	1.1	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,2-Dichloroethane	ND	6.8	1.3	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,1-Dichloroethylene	ND	6.8	1.4	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
cis-1,2-Dichloroethylene	9.3	6.8	1.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
trans-1,2-Dichloroethylene	ND	6.8	1.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,2-Dichloropropane	ND	6.8	0.89	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,3-Dichloropropane	ND	3.4	0.89	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
2,2-Dichloropropane	ND	6.8	1.5	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,1-Dichloropropene	ND	14	0.88	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
cis-1,3-Dichloropropene	ND	3.4	0.82	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
trans-1,3-Dichloropropene	ND	3.4	0.77	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Diethyl Ether	ND	14	1.5	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-01-5-9

Sampled: 4/30/2018 13:40

Sample ID: 18E0010-03

Sample Matrix: Soil

Sample Flags: PR-15, RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	3.4	1.2	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,4-Dioxane	ND	680	180	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Ethylbenzene	ND	6.8	0.89	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Hexachlorobutadiene	ND	6.8	4.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
2-Hexanone (MBK)	ND	68	10	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Isopropylbenzene (Cumene)	ND	6.8	0.82	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
p-Isopropyltoluene (p-Cymene)	ND	6.8	1.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Methyl Acetate	ND	68	2.9	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Methyl tert-Butyl Ether (MTBE)	ND	6.8	0.62	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Methyl Cyclohexane	ND	6.8	4.3	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Methylene Chloride	ND	34	22	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
4-Methyl-2-pentanone (MIBK)	ND	68	10	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Naphthalene	ND	14	0.83	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
n-Propylbenzene	ND	6.8	0.89	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Styrene	ND	6.8	1.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,1,1,2-Tetrachloroethane	ND	6.8	0.81	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,1,2,2-Tetrachloroethane	ND	3.4	1.1	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Tetrachloroethylene	240	6.8	1.9	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Tetrahydrofuran	ND	68	7.3	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Toluene	ND	6.8	1.2	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,2,3-Trichlorobenzene	ND	34	0.96	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,2,4-Trichlorobenzene	ND	6.8	1.3	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,3,5-Trichlorobenzene	ND	6.8	1.2	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,1,1-Trichloroethane	ND	6.8	0.90	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,1,2-Trichloroethane	ND	6.8	1.6	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Trichloroethylene	8.3	6.8	1.4	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Trichlorofluoromethane (Freon 11)	ND	14	1.0	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,2,3-Trichloropropane	ND	14	1.5	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	6.8	1.3	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,2,4-Trimethylbenzene	1.2	6.8	1.2	mg/Kg dry	100	J	SW-846 8260C	5/2/18	5/12/18 0:48	LBD
1,3,5-Trimethylbenzene	1.2	6.8	0.89	mg/Kg dry	100	J	SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Vinyl Chloride	ND	14	0.91	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
m+p Xylene	ND	14	1.7	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
o-Xylene	ND	6.8	0.90	mg/Kg dry	100		SW-846 8260C	5/2/18	5/12/18 0:48	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	97.5	70-130								
Toluene-d8	101	70-130								
4-Bromofluorobenzene	99.6	70-130								

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-01-5-9

Sampled: 4/30/2018 13:40

Sample ID: 18E0010-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Acetophenone	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Aniline	ND	0.40	0.11	mg/Kg dry	1	V-05	SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Benzidine	ND	0.78	0.50	mg/Kg dry	1	R-05, V-04, V-05	SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Benzoic Acid	ND	1.2	0.21	mg/Kg dry	1	R-05	SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Bis(2-chloroethoxy)methane	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Bis(2-chloroethyl)ether	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Bis(2-chloroisopropyl)ether	ND	0.40	0.086	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
4-Bromophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Butylbenzylphthalate	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Carbazole	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
4-Chloroaniline	ND	0.78	0.092	mg/Kg dry	1	V-34	SW-846 8270D	5/9/18	5/11/18 0:17	CDT
4-Chloro-3-methylphenol	ND	0.78	0.086	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2-Chloronaphthalene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2-Chlorophenol	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
4-Chlorophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Dibenzofuran	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Di-n-butylphthalate	ND	0.40	0.087	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
1,2-Dichlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
1,3-Dichlorobenzene	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
1,4-Dichlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
3,3-Dichlorobenzidine	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2,4-Dichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Diethylphthalate	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2,4-Dimethylphenol	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Dimethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2,4-Dinitrophenol	ND	0.78	0.23	mg/Kg dry	1	V-05, V-19	SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2,4-Dinitrotoluene	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2,6-Dinitrotoluene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Fluorene	0.10	0.20	0.065	mg/Kg dry	1	J	SW-846 8270D	5/9/18	5/11/18 0:17	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-01-5-9

Sampled: 4/30/2018 13:40

Sample ID: 18E0010-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Hexachlorobutadiene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Hexachlorocyclopentadiene	ND	0.40	0.085	mg/Kg dry	1	V-05	SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Hexachloroethane	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Isophorone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
1-Methylnaphthalene	0.37	0.20	0.077	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2-Methylnaphthalene	0.10	0.20	0.069	mg/Kg dry	1	J	SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2-Methylphenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
3-Nitroaniline	ND	0.40	0.058	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
4-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Nitrobenzene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
4-Nitrophenol	ND	0.78	0.087	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
N-Nitrosodimethylamine	ND	0.40	0.25	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
N-Nitrosodiphenylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
N-Nitrosodi-n-propylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Pentachloronitrobenzene	ND	0.40	0.095	mg/Kg dry	1	V-16	SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Pentachlorophenol	ND	0.40	0.097	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Phenanthrene	0.28	0.20	0.10	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Phenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Pyridine	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
1,2,4-Trichlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2,4,5-Trichlorophenol	ND	0.40	0.091	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
2,4,6-Trichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	5/9/18	5/11/18 0:17	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	59.6		30-130				5/11/18 0:17			
Phenol-d6	59.0		30-130				5/11/18 0:17			
Nitrobenzene-d5	57.1		30-130				5/11/18 0:17			
2-Fluorobiphenyl	49.0		30-130				5/11/18 0:17			
2,4,6-Tribromophenol	45.9		30-130				5/11/18 0:17			
p-Terphenyl-d14	70.6		30-130				5/11/18 0:17			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-01-5-9

Sampled: 4/30/2018 13:40

Sample ID: 18E0010-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.024	0.014	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:52	WAL
Aroclor-1221 [1]	ND	0.024	0.015	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:52	WAL
Aroclor-1232 [1]	ND	0.024	0.011	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:52	WAL
Aroclor-1242 [1]	ND	0.024	0.012	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:52	WAL
Aroclor-1248 [1]	ND	0.024	0.014	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:52	WAL
Aroclor-1254 [1]	ND	0.024	0.015	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:52	WAL
Aroclor-1260 [1]	ND	0.024	0.017	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:52	WAL
Aroclor-1262 [1]	ND	0.024	0.012	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:52	WAL
Aroclor-1268 [1]	ND	0.024	0.0095	mg/Kg dry	1		SW-846 8082A	5/2/18	5/6/18 11:52	WAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	85.3		30-150						5/6/18 11:52	
Decachlorobiphenyl [2]	92.3		30-150						5/6/18 11:52	
Tetrachloro-m-xylene [1]	63.8		30-150						5/6/18 11:52	
Tetrachloro-m-xylene [2]	71.6		30-150						5/6/18 11:52	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-01-5-9

Sampled: 4/30/2018 13:40

Sample ID: 18E0010-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	13000	2.0	1.9	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Antimony	ND	2.0	1.4	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Arsenic	8.5	2.0	1.0	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Barium	110	2.0	1.0	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Beryllium	0.83	0.20	0.15	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Cadmium	0.28	0.20	0.12	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Calcium	7900	6.1	4.2	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Chromium	22	0.40	0.25	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Cobalt	14	2.0	1.1	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Copper	53	0.40	0.35	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Iron	44000	40	35	mg/Kg dry	20		SW-846 6010C-D	5/11/18	5/15/18 10:46	QNW
Lead	22	0.61	0.36	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Magnesium	8700	120	65	mg/Kg dry	20		SW-846 6010C-D	5/11/18	5/15/18 10:46	QNW
Manganese	460	0.40	0.12	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Mercury	0.045	0.029	0.0029	mg/Kg dry	1		SW-846 7471B	5/11/18	5/14/18 10:37	EJB
Nickel	30	0.40	0.32	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Potassium	1600	810	290	mg/Kg dry	10		SW-846 6010C-D	5/11/18	5/15/18 10:51	QNW
Selenium	ND	4.0	3.4	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Silver	ND	0.81	0.47	mg/Kg dry	2	DL-04	SW-846 6010C-D	5/11/18	5/15/18 10:56	QNW
Sodium	94	81	31	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Thallium	ND	2.0	1.5	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Vanadium	20	0.81	0.60	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH
Zinc	76	0.81	0.56	mg/Kg dry	1		SW-846 6010C-D	5/11/18	5/14/18 18:40	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-01-5-9

Sampled: 4/30/2018 13:40

Sample ID: 18E0010-03

Sample Matrix: Soil

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.50	0.25	mg/Kg dry	1		SW-846 9014	5/2/18	5/3/18 12:00	DJM
% Solids	84.1			% Wt	1		SM 2540G	5/2/18	5/3/18 7:23	MRL

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-GW-SB-03

Sampled: 4/30/2018 13:45

Sample ID: 18E0010-04

Sample Matrix: Trip Blank Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	120000	24000	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Acrylonitrile	ND	12000	1400	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
tert-Amyl Methyl Ether (TAME)	ND	1200	260	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Benzene	ND	2500	300	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Bromobenzene	ND	2500	380	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Bromochloromethane	ND	2500	560	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Bromodichloromethane	ND	1200	740	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Bromoform	ND	2500	520	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Bromomethane	ND	5000	2400	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
2-Butanone (MEK)	ND	50000	5900	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
tert-Butyl Alcohol (TBA)	ND	50000	5400	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
n-Butylbenzene	480	2500	380	µg/L	2500	J	SW-846 8260C	5/11/18	5/14/18 12:28	LBD
sec-Butylbenzene	380	2500	320	µg/L	2500	J	SW-846 8260C	5/11/18	5/14/18 12:28	LBD
tert-Butylbenzene	ND	2500	300	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1200	240	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Carbon Disulfide	ND	10000	2600	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Carbon Tetrachloride	ND	12000	620	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Chlorobenzene	ND	2500	400	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Chlorodibromomethane	ND	1200	260	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Chloroethane	ND	5000	700	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Chloroform	ND	5000	550	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Chloromethane	ND	5000	1400	µg/L	2500	V-05	SW-846 8260C	5/11/18	5/14/18 12:28	LBD
2-Chlorotoluene	ND	2500	300	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
4-Chlorotoluene	ND	2500	350	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	12000	920	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,2-Dibromoethane (EDB)	ND	1200	370	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Dibromomethane	ND	2500	400	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,2-Dichlorobenzene	ND	2500	420	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,3-Dichlorobenzene	ND	2500	420	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,4-Dichlorobenzene	ND	2500	380	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
trans-1,4-Dichloro-2-butene	ND	5000	780	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Dichlorodifluoromethane (Freon 12)	ND	5000	710	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,1-Dichloroethane	ND	2500	400	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,2-Dichloroethane	ND	2500	480	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,1-Dichloroethylene	ND	2500	520	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
cis-1,2-Dichloroethylene	30000	2500	370	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
trans-1,2-Dichloroethylene	ND	2500	380	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,2-Dichloropropane	ND	2500	320	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,3-Dichloropropane	ND	1200	320	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
2,2-Dichloropropane	ND	2500	530	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,1-Dichloropropene	ND	5000	320	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
cis-1,3-Dichloropropene	ND	1200	300	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
trans-1,3-Dichloropropene	ND	1200	280	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Diethyl Ether	ND	5000	560	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-SB-GW-SB-03

Sampled: 4/30/2018 13:45

Sample ID: 18E0010-04

Sample Matrix: Trip Blank Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1200	450	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,4-Dioxane	ND	250000	66000	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Ethylbenzene	1200	2500	320	µg/L	2500	J	SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Hexachlorobutadiene	ND	2500	1500	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
2-Hexanone (MBK)	ND	25000	3800	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Isopropylbenzene (Cumene)	ND	2500	300	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
p-Isopropyltoluene (p-Cymene)	ND	2500	380	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Methyl Acetate	ND	2500	1000	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2500	220	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Methyl Cyclohexane	ND	2500	1600	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Methylene Chloride	ND	12000	8000	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
4-Methyl-2-pentanone (MIBK)	ND	25000	3700	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Naphthalene	ND	5000	300	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
n-Propylbenzene	320	2500	320	µg/L	2500	J	SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Styrene	ND	2500	380	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,1,1,2-Tetrachloroethane	ND	2500	300	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,1,2,2-Tetrachloroethane	ND	1200	400	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Tetrachloroethylene	180000	2500	680	µg/L	2500	L-06	SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Tetrahydrofuran	ND	25000	2700	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Toluene	ND	2500	420	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,2,3-Trichlorobenzene	ND	12000	350	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,2,4-Trichlorobenzene	ND	2500	480	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,3,5-Trichlorobenzene	ND	2500	420	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,1,1-Trichloroethane	ND	2500	330	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,1,2-Trichloroethane	ND	2500	590	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Trichloroethylene	12000	2500	500	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Trichlorofluoromethane (Freon 11)	ND	5000	370	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,2,3-Trichloropropane	ND	5000	540	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2500	490	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,2,4-Trimethylbenzene	650	2500	450	µg/L	2500	J	SW-846 8260C	5/11/18	5/14/18 12:28	LBD
1,3,5-Trimethylbenzene	500	2500	320	µg/L	2500	J	SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Vinyl Chloride	ND	5000	330	µg/L	2500		SW-846 8260C	5/11/18	5/14/18 12:28	LBD
m+p Xylene	3900	5000	640	µg/L	2500	J	SW-846 8260C	5/11/18	5/14/18 12:28	LBD
o-Xylene	1200	2500	330	µg/L	2500	J	SW-846 8260C	5/11/18	5/14/18 12:28	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	98.6	70-130				5/14/18 12:28				
Toluene-d8	101	70-130				5/14/18 12:28				
4-Bromofluorobenzene	103	70-130				5/14/18 12:28				

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-RB-4-30-2018

Sampled: 4/30/2018 14:10

Sample ID: 18E0010-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Chloroform	0.25	2.0	0.22	µg/L	1	J	SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Chloromethane	ND	2.0	0.55	µg/L	1	V-05	SW-846 8260C	5/11/18	5/14/18 11:58	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-RB-4-30-2018

Sampled: 4/30/2018 14:10

Sample ID: 18E0010-05

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,4-Dioxane	ND	100	26	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Hexachlorobutadiene	ND	1.0	0.59	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Tetrachloroethylene	0.38	1.0	0.27	µg/L	1	L-06, J	SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	5/11/18	5/14/18 11:58	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	99.0		70-130				5/14/18 11:58			
Toluene-d8	100		70-130				5/14/18 11:58			
4-Bromofluorobenzene	103		70-130				5/14/18 11:58			

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-RB-4-30-2018

Sampled: 4/30/2018 14:10

Sample ID: 18E0010-05

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Acenaphthylene	ND	5.0	1.4	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Acetophenone	ND	10	1.7	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Aniline	ND	5.0	2.5	µg/L	1	V-05	SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Anthracene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Benzidine	ND	20	9.7	µg/L	1	R-05, V-04, V-05	SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Benzo(a)anthracene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Benzo(a)pyrene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Benzo(b)fluoranthene	ND	5.0	1.2	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Benzo(g,h,i)perylene	ND	5.0	2.2	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Benzo(k)fluoranthene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Benzoic Acid	ND	10	2.0	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Bis(2-chloroethoxy)methane	ND	10	1.8	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Bis(2-chloroethyl)ether	ND	10	1.7	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Bis(2-chloroisopropyl)ether	ND	10	2.2	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Bis(2-Ethylhexyl)phthalate	ND	10	2.0	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
4-Bromophenylphenylether	ND	10	1.4	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Butylbenzylphthalate	ND	10	1.9	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Carbazole	ND	10	1.6	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
4-Chloroaniline	ND	10	1.5	µg/L	1	V-34	SW-846 8270D	5/3/18	5/10/18 20:04	CDT
4-Chloro-3-methylphenol	ND	10	1.4	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2-Chloronaphthalene	ND	10	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2-Chlorophenol	ND	10	1.2	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
4-Chlorophenylphenylether	ND	10	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Chrysene	ND	5.0	1.4	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Dibenz(a,h)anthracene	ND	5.0	2.0	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Dibenzofuran	ND	5.0	1.4	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Di-n-butylphthalate	ND	10	1.8	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
1,2-Dichlorobenzene	ND	5.0	1.3	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
1,3-Dichlorobenzene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
1,4-Dichlorobenzene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
3,3-Dichlorobenzidine	ND	10	2.3	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2,4-Dichlorophenol	ND	10	1.4	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Diethylphthalate	ND	10	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2,4-Dimethylphenol	ND	10	3.7	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Dimethylphthalate	ND	10	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
4,6-Dinitro-2-methylphenol	ND	10	2.0	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2,4-Dinitrophenol	ND	10	3.4	µg/L	1	V-05, V-19	SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2,4-Dinitrotoluene	ND	10	1.8	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2,6-Dinitrotoluene	ND	10	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Di-n-octylphthalate	ND	10	2.1	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.6	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Fluoranthene	ND	5.0	1.8	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Fluorene	ND	5.0	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-RB-4-30-2018

Sampled: 4/30/2018 14:10

Sample ID: 18E0010-05

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Hexachlorobutadiene	ND	10	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Hexachlorocyclopentadiene	ND	10	1.9	µg/L	1	V-05	SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Hexachloroethane	ND	10	1.6	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Indeno(1,2,3-cd)pyrene	ND	5.0	2.1	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Isophorone	ND	10	1.9	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
1-Methylnaphthalene	ND	5.0	1.8	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2-Methylnaphthalene	ND	5.0	1.6	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2-Methylphenol	ND	10	1.4	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
3/4-Methylphenol	ND	10	1.1	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Naphthalene	ND	5.0	1.7	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2-Nitroaniline	ND	10	2.2	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
3-Nitroaniline	ND	10	2.0	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
4-Nitroaniline	ND	10	1.9	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Nitrobenzene	ND	10	1.6	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2-Nitrophenol	ND	10	1.6	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
4-Nitrophenol	ND	10	1.0	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
N-Nitrosodimethylamine	ND	10	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
N-Nitrosodi-n-propylamine	ND	10	1.7	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Pentachloronitrobenzene	ND	10	1.7	µg/L	1	V-16	SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Pentachlorophenol	ND	10	1.1	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Phenanthrene	ND	5.0	1.4	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Phenol	ND	10	1.0	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Pyrene	ND	5.0	1.6	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Pyridine	ND	5.0	2.1	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
1,2,4,5-Tetrachlorobenzene	ND	10	1.6	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
1,2,4-Trichlorobenzene	ND	5.0	1.6	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2,4,5-Trichlorophenol	ND	10	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
2,4,6-Trichlorophenol	ND	10	1.5	µg/L	1		SW-846 8270D	5/3/18	5/10/18 20:04	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	50.1		15-110				5/10/18 20:04			
Phenol-d6	33.8		15-110				5/10/18 20:04			
Nitrobenzene-d5	78.0		30-130				5/10/18 20:04			
2-Fluorobiphenyl	59.5		30-130				5/10/18 20:04			
2,4,6-Tribromophenol	69.1		15-110				5/10/18 20:04			
p-Terphenyl-d14	93.1		30-130				5/10/18 20:04			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-RB-4-30-2018

Sampled: 4/30/2018 14:10

Sample ID: 18E0010-05

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.18	µg/L	1		SW-846 8082A	5/2/18	5/8/18 16:23	TG
Aroclor-1221 [1]	ND	0.20	0.16	µg/L	1		SW-846 8082A	5/2/18	5/8/18 16:23	TG
Aroclor-1232 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/2/18	5/8/18 16:23	TG
Aroclor-1242 [1]	ND	0.20	0.17	µg/L	1		SW-846 8082A	5/2/18	5/8/18 16:23	TG
Aroclor-1248 [1]	ND	0.20	0.19	µg/L	1		SW-846 8082A	5/2/18	5/8/18 16:23	TG
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	5/2/18	5/8/18 16:23	TG
Aroclor-1260 [1]	ND	0.20	0.19	µg/L	1		SW-846 8082A	5/2/18	5/8/18 16:23	TG
Aroclor-1262 [1]	ND	0.20	0.14	µg/L	1		SW-846 8082A	5/2/18	5/8/18 16:23	TG
Aroclor-1268 [1]	ND	0.20	0.12	µg/L	1		SW-846 8082A	5/2/18	5/8/18 16:23	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	58.2		30-150							
Decachlorobiphenyl [2]	65.3		30-150							
Tetrachloro-m-xylene [1]	71.5		30-150							
Tetrachloro-m-xylene [2]	72.7		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-RB-4-30-2018

Sampled: 4/30/2018 14:10

Sample ID: 18E0010-05

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.15	0.050	0.037	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Antimony	ND	0.050	0.031	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Arsenic	ND	0.010	0.0080	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Barium	ND	0.050	0.0053	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Beryllium	ND	0.0040	0.0017	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Cadmium	ND	0.0040	0.00090	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Calcium	0.45	0.15	0.11	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 11:34	QNW
Chromium	ND	0.010	0.0061	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Cobalt	ND	0.050	0.0080	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Copper	ND	0.010	0.0028	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Iron	0.10	0.050	0.040	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010C-D	5/14/18	5/15/18 11:34	QNW
Magnesium	0.053	0.15	0.026	mg/L	1	J	SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Manganese	0.0020	0.010	0.0020	mg/L	1	J	SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	5/11/18	5/14/18 14:47	EJB
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Potassium	ND	2.0	0.32	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Selenium	ND	0.050		mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Silver	ND	0.0050	0.0049	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Sodium	0.62	2.0	0.28	mg/L	1	J	SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Thallium	ND	0.050	0.040	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Vanadium	ND	0.010	0.0047	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH
Zinc	ND	0.020	0.0052	mg/L	1		SW-846 6010C-D	5/14/18	5/14/18 22:20	MJH

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E0010

Date Received: 5/1/2018

Field Sample #: 401075-RB-4-30-2018

Sampled: 4/30/2018 14:10

Sample ID: 18E0010-05

Sample Matrix: Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.010	0.0080	mg/L	1		SW-846 9014	5/3/18	5/4/18 11:40	DJM

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
18E0010-01 [401075-SB-13-0-5]	B202346	05/02/18
18E0010-02 [401075-SB-03-5-10]	B202346	05/02/18
18E0010-03 [401075-SB-01-5-9]	B202346	05/02/18

Prep Method: SW-846 3051-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0010-01 [401075-SB-13-0-5]	B203157	1.45	50.0	05/11/18
18E0010-02 [401075-SB-03-5-10]	B203157	1.59	50.0	05/11/18
18E0010-03 [401075-SB-01-5-9]	B203157	1.47	50.0	05/11/18

Prep Method: SW-846 3051-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0010-01 [401075-SB-13-0-5]	B203399	1.45	50.0	05/11/18
18E0010-02 [401075-SB-03-5-10]	B203399	1.59	50.0	05/11/18
18E0010-03 [401075-SB-01-5-9]	B203399	1.47	50.0	05/11/18

Prep Method: SW-846 3005A-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0010-05 [401075-RB-4-30-2018]	B203238	50.0	50.0	05/14/18

Prep Method: SW-846 3005A-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0010-05 [401075-RB-4-30-2018]	B203415	50.0	50.0	05/14/18

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0010-05 [401075-RB-4-30-2018]	B203074	6.00	6.00	05/11/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0010-01 [401075-SB-13-0-5]	B203151	0.587	50.0	05/11/18
18E0010-02 [401075-SB-03-5-10]	B203151	0.629	50.0	05/11/18
18E0010-03 [401075-SB-01-5-9]	B203151	0.617	50.0	05/11/18

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0010-01 [401075-SB-13-0-5]	B202331	10.1	10.0	05/02/18
18E0010-02 [401075-SB-03-5-10]	B202331	10.0	10.0	05/02/18
18E0010-03 [401075-SB-01-5-9]	B202331	10.0	10.0	05/02/18

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

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0010-05 [401075-RB-4-30-2018]	B202327	1020	10.0	05/02/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0010-01 [401075-SB-13-0-5]	B202358	5.10	10.0	05/02/18

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18E0010-02 [401075-SB-03-5-10]	B202360	5.67	5.72	0.1	50	05/02/18
18E0010-03 [401075-SB-01-5-9]	B202360	5.04	5.80	0.01	50	05/02/18

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18E0010-02RE1 [401075-SB-03-5-10]	B203306	5.67	5.72	0.01	50	05/14/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0010-04 [401075-SB-GW-SB-03]	B203147	0.002	5.00	05/11/18
18E0010-05 [401075-RB-4-30-2018]	B203147	5	5.00	05/11/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0010-01 [401075-SB-13-0-5]	B202879	30.2	1.00	05/09/18
18E0010-02 [401075-SB-03-5-10]	B202879	30.7	1.00	05/09/18
18E0010-03 [401075-SB-01-5-9]	B202879	30.3	1.00	05/09/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0010-05RE1 [401075-RB-4-30-2018]	B202466	1000	1.00	05/03/18

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18E0010-01 [401075-SB-13-0-5]	B202378	1.06	50.0	05/02/18
18E0010-02 [401075-SB-03-5-10]	B202378	1.43	50.0	05/02/18
18E0010-03 [401075-SB-01-5-9]	B202378	1.18	50.0	05/02/18

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

Sample Extraction Data

SW-846 9014

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E0010-05 [401075-RB-4-30-2018]	B202491	50.0	50.0	05/03/18

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 B202358 - SW-846 5035										
Blank (B202358-BLK1)				Prepared & Analyzed: 05/02/18						
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-05, 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							
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							V-05
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							V-05, L-04
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							V-34
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							L-04, V-05

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202358 - SW-846 5035

Blank (B202358-BLK1)

Prepared & Analyzed: 05/02/18

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	0.0504		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0491		mg/Kg wet	0.0500		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0498		mg/Kg wet	0.0500		99.6	70-130			

LCS (B202358-BS1)

Prepared & Analyzed: 05/02/18

Acetone	0.158	0.10	mg/Kg wet	0.200		79.0	70-160			†
Acrylonitrile	0.0173	0.0060	mg/Kg wet	0.0200		86.3	70-130			
tert-Amyl Methyl Ether (TAME)	0.0187	0.0010	mg/Kg wet	0.0200		93.3	70-130			
Benzene	0.0173	0.0020	mg/Kg wet	0.0200		86.5	70-130			
Bromobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
Bromochloromethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromodichloromethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromoform	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
Bromomethane	0.00880	0.010	mg/Kg wet	0.0200		44.0	40-130	V-05, V-34, J		†
2-Butanone (MEK)	0.170	0.040	mg/Kg wet	0.200		85.0	70-160			†
tert-Butyl Alcohol (TBA)	0.188	0.040	mg/Kg wet	0.200		94.2	40-130			†
n-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
sec-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
tert-Butylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0176	0.0010	mg/Kg wet	0.0200		88.0	70-130			
Carbon Disulfide	0.0160	0.0060	mg/Kg wet	0.0200		79.9	70-130		V-05	
Carbon Tetrachloride	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
Chlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Chlorodibromomethane	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130			
Chloroethane	0.0145	0.020	mg/Kg wet	0.0200		72.6	70-130			J
Chloroform	0.0191	0.0040	mg/Kg wet	0.0200		95.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202358 - SW-846 5035										
LCS (B202358-BS1)				Prepared & Analyzed: 05/02/18						
Chloromethane	0.0110	0.010	mg/Kg wet	0.0200		55.1 *	70-130			L-04, V-05
2-Chlorotoluene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130			
4-Chlorotoluene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dibromoethane (EDB)	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130			
Dibromomethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130			
1,2-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,4-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
trans-1,4-Dichloro-2-butene	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130			
Dichlorodifluoromethane (Freon 12)	0.00886	0.020	mg/Kg wet	0.0200		44.3	40-160			V-34, J †
1,1-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
1,2-Dichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1-Dichloroethylene	0.0171	0.0040	mg/Kg wet	0.0200		85.6	70-130			
cis-1,2-Dichloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
trans-1,2-Dichloroethylene	0.0174	0.0020	mg/Kg wet	0.0200		86.9	70-130			
1,2-Dichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
1,3-Dichloropropane	0.0198	0.0010	mg/Kg wet	0.0200		99.0	70-130			
2,2-Dichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,1-Dichloropropene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.0	70-130			
trans-1,3-Dichloropropene	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Diethyl Ether	0.0181	0.020	mg/Kg wet	0.0200		90.4	70-130			J
Diisopropyl Ether (DIPE)	0.0166	0.0010	mg/Kg wet	0.0200		83.1	70-130			
1,4-Dioxane	0.180	0.10	mg/Kg wet	0.200		90.2	40-160			†
Ethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Hexachlorobutadiene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-160			
2-Hexanone (MBK)	0.206	0.020	mg/Kg wet	0.200		103	70-160			†
Isopropylbenzene (Cumene)	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130			
p-Isopropyltoluene (p-Cymene)	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Methyl Acetate	0.0102	0.0020	mg/Kg wet	0.0200		50.9 *	70-130			V-05, L-04
Methyl tert-Butyl Ether (MTBE)	0.0204	0.0040	mg/Kg wet	0.0200		102	70-130			
Methyl Cyclohexane	0.0168	0.0020	mg/Kg wet	0.0200		84.0	70-130			
Methylene Chloride	0.0183	0.020	mg/Kg wet	0.0200		91.4	40-160			J †
4-Methyl-2-pentanone (MIBK)	0.198	0.020	mg/Kg wet	0.200		98.9	70-160			†
Naphthalene	0.0224	0.0040	mg/Kg wet	0.0200		112	40-130			†
n-Propylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.6	70-130			
Styrene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,1,1,2-Tetrachloroethane	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,2,2-Tetrachloroethane	0.0217	0.0010	mg/Kg wet	0.0200		109	70-130			
Tetrachloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Tetrahydrofuran	0.0199	0.010	mg/Kg wet	0.0200		99.5	70-130			
Toluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2,3-Trichlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
1,2,4-Trichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,3,5-Trichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,1-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130			
1,1,2-Trichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Trichloroethylene	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130			
Trichlorofluoromethane (Freon 11)	0.0154	0.010	mg/Kg wet	0.0200		76.9	70-130			
1,2,3-Trichloropropane	0.0241	0.0020	mg/Kg wet	0.0200		121	70-130			V-20

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202358 - SW-846 5035										
LCS (B202358-BS1)				Prepared & Analyzed: 05/02/18						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0168	0.010	mg/Kg wet	0.0200		84.2	70-130			
1,2,4-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
1,3,5-Trimethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Vinyl Chloride	0.0146	0.010	mg/Kg wet	0.0200		72.8	40-130			†
m+p Xylene	0.0407	0.0040	mg/Kg wet	0.0400		102	70-130			
o-Xylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0503		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	0.0498		mg/Kg wet	0.0500		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.0514		mg/Kg wet	0.0500		103	70-130			
LCS Dup (B202358-BSD1)				Prepared & Analyzed: 05/02/18						
Acetone	0.150	0.10	mg/Kg wet	0.200		75.2	70-160	4.91	25	†
Acrylonitrile	0.0174	0.0060	mg/Kg wet	0.0200		87.2	70-130	1.04	25	
tert-Amyl Methyl Ether (TAME)	0.0178	0.0010	mg/Kg wet	0.0200		88.8	70-130	4.94	25	
Benzene	0.0165	0.0020	mg/Kg wet	0.0200		82.3	70-130	4.98	25	
Bromobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	2.20	25	
Bromochloromethane	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130	7.21	25	
Bromodichloromethane	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130	6.68	25	
Bromoform	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	4.69	25	
Bromomethane	0.00824	0.010	mg/Kg wet	0.0200		41.2	40-130	6.57	25	V-05, V-34, J †
2-Butanone (MEK)	0.167	0.040	mg/Kg wet	0.200		83.7	70-160	1.53	25	†
tert-Butyl Alcohol (TBA)	0.179	0.040	mg/Kg wet	0.200		89.6	40-130	4.99	25	†
n-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6	70-130	2.48	25	
sec-Butylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	4.40	25	
tert-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-160	1.28	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0169	0.0010	mg/Kg wet	0.0200		84.4	70-130	4.18	25	
Carbon Disulfide	0.0148	0.0060	mg/Kg wet	0.0200		73.8	70-130	7.94	25	V-05
Carbon Tetrachloride	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130	6.06	25	
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	5.42	25	
Chlorodibromomethane	0.0225	0.0010	mg/Kg wet	0.0200		112	70-130	1.68	25	
Chloroethane	0.0148	0.020	mg/Kg wet	0.0200		73.9	70-130	1.77	25	J
Chloroform	0.0180	0.0040	mg/Kg wet	0.0200		90.2	70-130	5.50	25	
Chloromethane	0.0108	0.010	mg/Kg wet	0.0200		53.8	* 70-130	2.39	25	L-04, V-05
2-Chlorotoluene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130	0.101	25	
4-Chlorotoluene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	3.18	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	5.29	25	
1,2-Dibromoethane (EDB)	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130	3.60	25	
Dibromomethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.34	25	
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.948	25	
1,3-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	3.58	25	
1,4-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130	2.86	25	
trans-1,4-Dichloro-2-butene	0.0217	0.0040	mg/Kg wet	0.0200		108	70-130	4.05	25	
Dichlorodifluoromethane (Freon 12)	0.00874	0.020	mg/Kg wet	0.0200		43.7	40-160	1.36	25	V-34, J †
1,1-Dichloroethane	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130	4.47	25	
1,2-Dichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	3.63	25	
1,1-Dichloroethylene	0.0157	0.0040	mg/Kg wet	0.0200		78.7	70-130	8.40	25	
cis-1,2-Dichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130	2.33	25	
trans-1,2-Dichloroethylene	0.0170	0.0020	mg/Kg wet	0.0200		85.0	70-130	2.21	25	
1,2-Dichloropropane	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130	2.55	25	
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130	1.30	25	
2,2-Dichloropropane	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	1.28	25	
1,1-Dichloropropene	0.0179	0.0020	mg/Kg wet	0.0200		89.6	70-130	2.32	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202358 - SW-846 5035

LCS Dup (B202358-BSD1)

Prepared & Analyzed: 05/02/18

cis-1,3-Dichloropropene	0.0192	0.0010	mg/Kg wet	0.0200		96.0	70-130	3.08	25	
trans-1,3-Dichloropropene	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130	0.836	25	
Diethyl Ether	0.0182	0.020	mg/Kg wet	0.0200		91.2	70-130	0.881	25	J
Diisopropyl Ether (DIPE)	0.0158	0.0010	mg/Kg wet	0.0200		79.1	70-130	4.93	25	
1,4-Dioxane	0.196	0.10	mg/Kg wet	0.200		98.1	40-160	8.38	50	† ‡
Ethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130	8.12	25	
Hexachlorobutadiene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-160	0.366	25	
2-Hexanone (MBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160	1.05	25	†
Isopropylbenzene (Cumene)	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	6.66	25	
p-Isopropyltoluene (p-Cymene)	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	1.32	25	
Methyl Acetate	0.00900	0.0020	mg/Kg wet	0.0200		45.0 *	70-130	12.3	25	L-04, V-05
Methyl tert-Butyl Ether (MTBE)	0.0194	0.0040	mg/Kg wet	0.0200		97.2	70-130	5.02	25	
Methyl Cyclohexane	0.0161	0.0020	mg/Kg wet	0.0200		80.4	70-130	4.38	25	
Methylene Chloride	0.0175	0.020	mg/Kg wet	0.0200		87.4	40-160	4.47	25	J †
4-Methyl-2-pentanone (MIBK)	0.201	0.020	mg/Kg wet	0.200		100	70-160	1.45	25	†
Naphthalene	0.0215	0.0040	mg/Kg wet	0.0200		107	40-130	4.10	25	†
n-Propylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130	4.73	25	
Styrene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	4.68	25	
1,1,1,2-Tetrachloroethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	1.76	25	
1,1,2,2-Tetrachloroethane	0.0212	0.0010	mg/Kg wet	0.0200		106	70-130	2.33	25	
Tetrachloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	1.02	25	
Tetrahydrofuran	0.0184	0.010	mg/Kg wet	0.0200		91.9	70-130	7.94	25	
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130	4.61	25	
1,2,3-Trichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	1.73	25	
1,2,4-Trichlorobenzene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130	3.12	25	
1,3,5-Trichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130	5.11	25	
1,1,1-Trichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.5	70-130	7.63	25	
1,1,2-Trichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	5.53	25	
Trichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	4.23	25	
Trichlorofluoromethane (Freon 11)	0.0168	0.010	mg/Kg wet	0.0200		83.9	70-130	8.71	25	
1,2,3-Trichloropropane	0.0244	0.0020	mg/Kg wet	0.0200		122	70-130	1.07	25	V-20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0152	0.010	mg/Kg wet	0.0200		76.2	70-130	9.98	25	
1,2,4-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130	0.316	25	
1,3,5-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	8.16	25	
Vinyl Chloride	0.0136	0.010	mg/Kg wet	0.0200		67.8	40-130	7.11	25	†
m+p Xylene	0.0394	0.0040	mg/Kg wet	0.0400		98.4	70-130	3.35	25	
o-Xylene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130	4.52	25	
Surrogate: 1,2-Dichloroethane-d4	0.0497		mg/Kg wet	0.0500		99.3	70-130			
Surrogate: Toluene-d8	0.0497		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.0503		mg/Kg wet	0.0500		101	70-130			

Batch B202360 - SW-846 5035

Blank (B202360-BLK1)

Prepared: 05/02/18 Analyzed: 05/11/18

Acetone	ND	2.5	mg/Kg wet
Acrylonitrile	ND	0.25	mg/Kg wet
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet
Benzene	ND	0.050	mg/Kg wet
Bromobenzene	ND	0.050	mg/Kg wet
Bromochloromethane	ND	0.050	mg/Kg wet
Bromodichloromethane	ND	0.050	mg/Kg wet
Bromoform	ND	0.050	mg/Kg wet

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202360 - SW-846 5035
Blank (B202360-BLK1)

Prepared: 05/02/18 Analyzed: 05/11/18

Bromomethane	ND	0.10	mg/Kg wet
2-Butanone (MEK)	ND	1.0	mg/Kg wet
tert-Butyl Alcohol (TBA)	ND	1.0	mg/Kg wet
n-Butylbenzene	ND	0.050	mg/Kg wet
sec-Butylbenzene	ND	0.050	mg/Kg wet
tert-Butylbenzene	ND	0.050	mg/Kg wet
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet
Carbon Disulfide	ND	0.15	mg/Kg wet
Carbon Tetrachloride	ND	0.050	mg/Kg wet
Chlorobenzene	ND	0.050	mg/Kg wet
Chlorodibromomethane	ND	0.025	mg/Kg wet
Chloroethane	ND	0.10	mg/Kg wet
Chloroform	ND	0.10	mg/Kg wet
Chloromethane	ND	0.10	mg/Kg wet
2-Chlorotoluene	ND	0.050	mg/Kg wet
4-Chlorotoluene	ND	0.050	mg/Kg wet
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet
Dibromomethane	ND	0.050	mg/Kg wet
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet
1,1-Dichloroethane	ND	0.050	mg/Kg wet
1,2-Dichloroethane	ND	0.050	mg/Kg wet
1,1-Dichloroethylene	ND	0.050	mg/Kg wet
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet
1,2-Dichloropropane	ND	0.050	mg/Kg wet
1,3-Dichloropropane	ND	0.025	mg/Kg wet
2,2-Dichloropropane	ND	0.050	mg/Kg wet
1,1-Dichloropropene	ND	0.10	mg/Kg wet
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet
Diethyl Ether	ND	0.10	mg/Kg wet
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet
1,4-Dioxane	ND	5.0	mg/Kg wet
Ethylbenzene	ND	0.050	mg/Kg wet
Hexachlorobutadiene	ND	0.050	mg/Kg wet
2-Hexanone (MBK)	ND	0.50	mg/Kg wet
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet
Methyl Acetate	ND	0.50	mg/Kg wet
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet
Methyl Cyclohexane	ND	0.050	mg/Kg wet
Methylene Chloride	ND	0.25	mg/Kg wet
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet
Naphthalene	ND	0.10	mg/Kg wet
n-Propylbenzene	ND	0.050	mg/Kg wet
Styrene	ND	0.050	mg/Kg wet
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202360 - SW-846 5035										
Blank (B202360-BLK1)										
Prepared: 05/02/18 Analyzed: 05/11/18										
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,3,5-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0249		mg/Kg wet	0.0250		99.5	70-130			
Surrogate: Toluene-d8	0.0252		mg/Kg wet	0.0250		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0252		mg/Kg wet	0.0250		101	70-130			
LCS (B202360-BS1)										
Prepared: 05/02/18 Analyzed: 05/11/18										
Acetone	0.116	0.057	mg/Kg wet	0.113		102	70-160			†
Acrylonitrile	0.0118	0.0057	mg/Kg wet	0.0113		104	70-130			
tert-Amyl Methyl Ether (TAME)	0.0123	0.00057	mg/Kg wet	0.0113		109	70-130			
Benzene	0.0132	0.0011	mg/Kg wet	0.0113		116	70-130			
Bromobenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
Bromochloromethane	0.0157	0.0011	mg/Kg wet	0.0113		139 *	70-130			V-20, L-02
Bromodichloromethane	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
Bromoform	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130			
Bromomethane	0.00882	0.0023	mg/Kg wet	0.0113		77.8	40-130			†
2-Butanone (MEK)	0.113	0.023	mg/Kg wet	0.113		99.8	70-160			†
tert-Butyl Alcohol (TBA)	0.124	0.023	mg/Kg wet	0.113		109	40-130			†
n-Butylbenzene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130			
sec-Butylbenzene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
tert-Butylbenzene	0.0118	0.0011	mg/Kg wet	0.0113		104	70-160			†
tert-Butyl Ethyl Ether (TBEE)	0.0116	0.00057	mg/Kg wet	0.0113		103	70-130			
Carbon Disulfide	0.0148	0.0034	mg/Kg wet	0.0113		131 *	70-130			L-07
Carbon Tetrachloride	0.0140	0.0011	mg/Kg wet	0.0113		123	70-130			
Chlorobenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
Chlorodibromomethane	0.0132	0.00057	mg/Kg wet	0.0113		117	70-130			
Chloroethane	0.0111	0.0023	mg/Kg wet	0.0113		98.2	70-130			
Chloroform	0.0137	0.0023	mg/Kg wet	0.0113		121	70-130			
Chloromethane	0.00912	0.0023	mg/Kg wet	0.0113		80.5	70-130			
2-Chlorotoluene	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
4-Chlorotoluene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0115	0.0057	mg/Kg wet	0.0113		102	70-130			
1,2-Dibromoethane (EDB)	0.0137	0.00057	mg/Kg wet	0.0113		121	70-130			V-20
Dibromomethane	0.0137	0.0011	mg/Kg wet	0.0113		121	70-130			
1,2-Dichlorobenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
1,3-Dichlorobenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202360 - SW-846 5035										
LCS (B202360-BS1)					Prepared: 05/02/18 Analyzed: 05/11/18					
1,4-Dichlorobenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
trans-1,4-Dichloro-2-butene	0.0114	0.0023	mg/Kg wet	0.0113		101	70-130			
Dichlorodifluoromethane (Freon 12)	0.00589	0.0023	mg/Kg wet	0.0113		52.0	40-160			V-34 †
1,1-Dichloroethane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,2-Dichloroethane	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130			
1,1-Dichloroethylene	0.0130	0.0011	mg/Kg wet	0.0113		114	70-130			
cis-1,2-Dichloroethylene	0.0128	0.0011	mg/Kg wet	0.0113		112	70-130			
trans-1,2-Dichloroethylene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130			
1,2-Dichloropropane	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130			
1,3-Dichloropropane	0.0129	0.00057	mg/Kg wet	0.0113		114	70-130			
2,2-Dichloropropane	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
1,1-Dichloropropene	0.0132	0.0023	mg/Kg wet	0.0113		116	70-130			
cis-1,3-Dichloropropene	0.0124	0.00057	mg/Kg wet	0.0113		110	70-130			
trans-1,3-Dichloropropene	0.0128	0.00057	mg/Kg wet	0.0113		113	70-130			
Diethyl Ether	0.0124	0.0023	mg/Kg wet	0.0113		110	70-130			
Diisopropyl Ether (DIPE)	0.0114	0.00057	mg/Kg wet	0.0113		101	70-130			
1,4-Dioxane	0.111	0.11	mg/Kg wet	0.113		97.7	40-160			J †
Ethylbenzene	0.0129	0.0011	mg/Kg wet	0.0113		113	70-130			
Hexachlorobutadiene	0.0131	0.0011	mg/Kg wet	0.0113		116	70-160			†
2-Hexanone (MBK)	0.114	0.011	mg/Kg wet	0.113		100	70-160			†
Isopropylbenzene (Cumene)	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
p-Isopropyltoluene (p-Cymene)	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
Methyl Acetate	0.00815	0.011	mg/Kg wet	0.0113		71.9	70-130			J
Methyl tert-Butyl Ether (MTBE)	0.0131	0.0011	mg/Kg wet	0.0113		116	70-130			
Methyl Cyclohexane	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
Methylene Chloride	0.0114	0.0057	mg/Kg wet	0.0113		101	40-160			†
4-Methyl-2-pentanone (MIBK)	0.109	0.011	mg/Kg wet	0.113		96.6	70-160			†
Naphthalene	0.0111	0.0023	mg/Kg wet	0.0113		97.8	40-130			†
n-Propylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Styrene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130			
1,1,1,2-Tetrachloroethane	0.0133	0.0011	mg/Kg wet	0.0113		117	70-130			
1,1,2,2-Tetrachloroethane	0.0118	0.00057	mg/Kg wet	0.0113		104	70-130			
Tetrachloroethylene	0.0148	0.0011	mg/Kg wet	0.0113		131	* 70-130			L-07
Tetrahydrofuran	0.0109	0.011	mg/Kg wet	0.0113		96.5	70-130			J
Toluene	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130			
1,2,3-Trichlorobenzene	0.0112	0.0057	mg/Kg wet	0.0113		98.7	70-130			
1,2,4-Trichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.9	70-130			
1,3,5-Trichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			
1,1,1-Trichloroethane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130			
1,1,2-Trichloroethane	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130			
Trichloroethylene	0.0142	0.0011	mg/Kg wet	0.0113		126	70-130			
Trichlorofluoromethane (Freon 11)	0.0114	0.0023	mg/Kg wet	0.0113		101	70-130			V-20
1,2,3-Trichloropropane	0.0135	0.0023	mg/Kg wet	0.0113		119	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130			V-20
1,2,4-Trimethylbenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130			
1,3,5-Trimethylbenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
Vinyl Chloride	0.0110	0.0023	mg/Kg wet	0.0113		97.2	40-130			†
m+p Xylene	0.0255	0.0023	mg/Kg wet	0.0227		112	70-130			
o-Xylene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0279		mg/Kg wet	0.0283		98.6	70-130			
Surrogate: Toluene-d8	0.0283		mg/Kg wet	0.0283		99.7	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202360 - SW-846 5035										
LCS (B202360-BS1)										
					Prepared: 05/02/18 Analyzed: 05/11/18					
Surrogate: 4-Bromofluorobenzene	0.0288		mg/Kg wet	0.0283		102	70-130			
LCS Dup (B202360-BSD1)										
					Prepared: 05/02/18 Analyzed: 05/11/18					
Acetone	0.107	0.057	mg/Kg wet	0.113		94.8	70-160	7.41	25	†
Acrylonitrile	0.0117	0.0057	mg/Kg wet	0.0113		103	70-130	1.06	25	
tert-Amyl Methyl Ether (TAME)	0.0120	0.00057	mg/Kg wet	0.0113		106	70-130	2.79	25	
Benzene	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130	2.61	25	
Bromobenzene	0.0129	0.0011	mg/Kg wet	0.0113		113	70-130	1.24	25	
Bromochloromethane	0.0151	0.0011	mg/Kg wet	0.0113		133	* 70-130	4.20	25	L-02, V-20
Bromodichloromethane	0.0132	0.0011	mg/Kg wet	0.0113		116	70-130	2.00	25	
Bromoform	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130	4.53	25	
Bromomethane	0.00954	0.0023	mg/Kg wet	0.0113		84.2	40-130	7.90	25	†
2-Butanone (MEK)	0.107	0.023	mg/Kg wet	0.113		94.5	70-160	5.38	25	†
tert-Butyl Alcohol (TBA)	0.117	0.023	mg/Kg wet	0.113		103	40-130	5.57	25	†
n-Butylbenzene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130	0.897	25	
sec-Butylbenzene	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130	0.389	25	
tert-Butylbenzene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-160	1.45	25	†
tert-Butyl Ethyl Ether (TBEE)	0.0114	0.00057	mg/Kg wet	0.0113		101	70-130	1.67	25	
Carbon Disulfide	0.0146	0.0034	mg/Kg wet	0.0113		129	70-130	1.38	25	
Carbon Tetrachloride	0.0140	0.0011	mg/Kg wet	0.0113		124	70-130	0.485	25	
Chlorobenzene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	3.18	25	
Chlorodibromomethane	0.0132	0.00057	mg/Kg wet	0.0113		116	70-130	0.172	25	
Chloroethane	0.0108	0.0023	mg/Kg wet	0.0113		95.5	70-130	2.79	25	
Chloroform	0.0134	0.0023	mg/Kg wet	0.0113		118	70-130	2.34	25	
Chloromethane	0.00881	0.0023	mg/Kg wet	0.0113		77.7	70-130	3.54	25	
2-Chlorotoluene	0.0122	0.0011	mg/Kg wet	0.0113		107	70-130	1.20	25	
4-Chlorotoluene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130	1.30	25	
1,2-Dibromo-3-chloropropane (DBCP)	0.0104	0.0057	mg/Kg wet	0.0113		92.0	70-130	9.92	25	
1,2-Dibromoethane (EDB)	0.0138	0.00057	mg/Kg wet	0.0113		122	70-130	0.660	25	V-20
Dibromomethane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130	1.50	25	
1,2-Dichlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		107	70-130	1.12	25	
1,3-Dichlorobenzene	0.0125	0.0011	mg/Kg wet	0.0113		110	70-130	0.544	25	
1,4-Dichlorobenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	0.00	25	
trans-1,4-Dichloro-2-butene	0.0108	0.0023	mg/Kg wet	0.0113		95.6	70-130	5.10	25	
Dichlorodifluoromethane (Freon 12)	0.00604	0.0023	mg/Kg wet	0.0113		53.3	40-160	2.47	25	V-34 †
1,1-Dichloroethane	0.0132	0.0011	mg/Kg wet	0.0113		116	70-130	2.63	25	
1,2-Dichloroethane	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	0.531	25	
1,1-Dichloroethylene	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	0.879	25	
cis-1,2-Dichloroethylene	0.0124	0.0011	mg/Kg wet	0.0113		110	70-130	2.43	25	
trans-1,2-Dichloroethylene	0.0124	0.0011	mg/Kg wet	0.0113		110	70-130	2.08	25	
1,2-Dichloropropane	0.0130	0.0011	mg/Kg wet	0.0113		115	70-130	0.174	25	
1,3-Dichloropropane	0.0126	0.00057	mg/Kg wet	0.0113		111	70-130	2.76	25	
2,2-Dichloropropane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	1.81	25	
1,1-Dichloropropene	0.0131	0.0023	mg/Kg wet	0.0113		116	70-130	0.430	25	
cis-1,3-Dichloropropene	0.0120	0.00057	mg/Kg wet	0.0113		106	70-130	3.06	25	
trans-1,3-Dichloropropene	0.0127	0.00057	mg/Kg wet	0.0113		112	70-130	1.07	25	
Diethyl Ether	0.0121	0.0023	mg/Kg wet	0.0113		107	70-130	2.49	25	
Diisopropyl Ether (DIPE)	0.0114	0.00057	mg/Kg wet	0.0113		100	70-130	0.398	25	
1,4-Dioxane	0.119	0.11	mg/Kg wet	0.113		105	40-160	7.09	50	† ‡
Ethylbenzene	0.0126	0.0011	mg/Kg wet	0.0113		111	70-130	1.78	25	
Hexachlorobutadiene	0.0134	0.0011	mg/Kg wet	0.0113		118	70-160	2.31	25	
2-Hexanone (MBK)	0.110	0.011	mg/Kg wet	0.113		97.2	70-160	3.15	25	†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202360 - SW-846 5035										
LCS Dup (B202360-BSD1)				Prepared: 05/02/18 Analyzed: 05/11/18						
Isopropylbenzene (Cumene)	0.0129	0.0011	mg/Kg wet	0.0113		114	70-130	0.440	25	
p-Isopropyltoluene (p-Cymene)	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130	1.02	25	
Methyl Acetate	0.00790	0.011	mg/Kg wet	0.0113		69.7	* 70-130	3.11	25	L-07, J
Methyl tert-Butyl Ether (MTBE)	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	2.97	25	
Methyl Cyclohexane	0.0122	0.0011	mg/Kg wet	0.0113		107	70-130	1.02	25	
Methylene Chloride	0.0109	0.0057	mg/Kg wet	0.0113		96.6	40-160	4.16	25	†
4-Methyl-2-pentanone (MIBK)	0.107	0.011	mg/Kg wet	0.113		94.7	70-160	1.93	25	†
Naphthalene	0.0108	0.0023	mg/Kg wet	0.0113		95.4	40-130	2.48	25	†
n-Propylbenzene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130	0.278	25	
Styrene	0.0127	0.0011	mg/Kg wet	0.0113		112	70-130	1.33	25	
1,1,1,2-Tetrachloroethane	0.0132	0.0011	mg/Kg wet	0.0113		116	70-130	0.943	25	
1,1,2,2-Tetrachloroethane	0.0123	0.00057	mg/Kg wet	0.0113		108	70-130	4.34	25	
Tetrachloroethylene	0.0143	0.0011	mg/Kg wet	0.0113		126	70-130	3.42	25	
Tetrahydrofuran	0.0108	0.011	mg/Kg wet	0.0113		95.5	70-130	1.04	25	J
Toluene	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	1.58	25	
1,2,3-Trichlorobenzene	0.0111	0.0057	mg/Kg wet	0.0113		97.8	70-130	0.916	25	
1,2,4-Trichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.6	70-130	0.304	25	
1,3,5-Trichlorobenzene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130	0.666	25	
1,1,1-Trichloroethane	0.0135	0.0011	mg/Kg wet	0.0113		119	70-130	0.0841	25	
1,1,2-Trichloroethane	0.0134	0.0011	mg/Kg wet	0.0113		118	70-130	0.508	25	
Trichloroethylene	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130	6.66	25	
Trichlorofluoromethane (Freon 11)	0.0115	0.0023	mg/Kg wet	0.0113		101	70-130	0.495	25	V-20
1,2,3-Trichloropropane	0.0126	0.0023	mg/Kg wet	0.0113		111	70-130	6.35	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130	2.15	25	V-20
1,2,4-Trimethylbenzene	0.0120	0.0011	mg/Kg wet	0.0113		106	70-130	0.189	25	
1,3,5-Trimethylbenzene	0.0124	0.0011	mg/Kg wet	0.0113		109	70-130	1.01	25	
Vinyl Chloride	0.0112	0.0023	mg/Kg wet	0.0113		98.5	40-130	1.33	25	†
m+p Xylene	0.0251	0.0023	mg/Kg wet	0.0227		111	70-130	1.30	25	
o-Xylene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130	0.278	25	
Surrogate: 1,2-Dichloroethane-d4	0.0275		mg/Kg wet	0.0283		97.0	70-130			
Surrogate: Toluene-d8	0.0283		mg/Kg wet	0.0283		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.0287		mg/Kg wet	0.0283		101	70-130			

Batch B203147 - SW-846 5030B

Blank (B203147-BLK1)				Prepared: 05/11/18 Analyzed: 05/14/18						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203147 - SW-846 5030B
Blank (B203147-BLK1)

Prepared: 05/11/18 Analyzed: 05/14/18

Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							V-05
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	100	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203147 - SW-846 5030B										
Blank (B203147-BLK1)										
Prepared: 05/11/18 Analyzed: 05/14/18										
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	24.7		µg/L	25.0		98.7	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		µg/L	25.0		104	70-130			
LCS (B203147-BS1)										
Prepared: 05/11/18 Analyzed: 05/14/18										
Acetone	100	50	µg/L	100		100	70-160			†
Acrylonitrile	10.7	5.0	µg/L	10.0		107	70-130			
tert-Amyl Methyl Ether (TAME)	11.5	0.50	µg/L	10.0		115	70-130			
Benzene	12.3	1.0	µg/L	10.0		123	70-130			
Bromobenzene	11.2	1.0	µg/L	10.0		112	70-130			
Bromochloromethane	14.5	1.0	µg/L	10.0		145	* 70-130			L-02, V-20
Bromodichloromethane	12.2	0.50	µg/L	10.0		122	70-130			
Bromoform	11.8	1.0	µg/L	10.0		118	70-130			
Bromomethane	7.37	2.0	µg/L	10.0		73.7	40-160			†
2-Butanone (MEK)	102	20	µg/L	100		102	40-160			†
tert-Butyl Alcohol (TBA)	116	20	µg/L	100		116	40-160			V-06 †
n-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
sec-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130			
tert-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
tert-Butyl Ethyl Ether (TBEE)	11.0	0.50	µg/L	10.0		110	70-130			
Carbon Disulfide	13.1	4.0	µg/L	10.0		131	* 70-130			L-07
Carbon Tetrachloride	13.5	5.0	µg/L	10.0		135	* 70-130			L-02
Chlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
Chlorodibromomethane	12.8	0.50	µg/L	10.0		128	70-130			V-20
Chloroethane	9.99	2.0	µg/L	10.0		99.9	70-130			
Chloroform	12.8	2.0	µg/L	10.0		128	70-130			
Chloromethane	8.12	2.0	µg/L	10.0		81.2	40-160			V-05 †
2-Chlorotoluene	10.4	1.0	µg/L	10.0		104	70-130			
4-Chlorotoluene	10.7	1.0	µg/L	10.0		107	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.67	5.0	µg/L	10.0		96.7	70-130			
1,2-Dibromoethane (EDB)	13.0	0.50	µg/L	10.0		130	70-130			
Dibromomethane	12.5	1.0	µg/L	10.0		125	70-130			
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,3-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
1,4-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
trans-1,4-Dichloro-2-butene	9.98	2.0	µg/L	10.0		99.8	70-130			
Dichlorodifluoromethane (Freon 12)	5.60	2.0	µg/L	10.0		56.0	40-160			V-34 †
1,1-Dichloroethane	12.4	1.0	µg/L	10.0		124	70-130			
1,2-Dichloroethane	12.0	1.0	µg/L	10.0		120	70-130			
1,1-Dichloroethylene	12.4	1.0	µg/L	10.0		124	70-130			
cis-1,2-Dichloroethylene	12.2	1.0	µg/L	10.0		122	70-130			
trans-1,2-Dichloroethylene	12.1	1.0	µg/L	10.0		121	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203147 - SW-846 5030B										
LCS (B203147-BS1)										
Prepared: 05/11/18 Analyzed: 05/14/18										
1,2-Dichloropropane	12.0	1.0	µg/L	10.0		120	70-130			
1,3-Dichloropropane	11.6	0.50	µg/L	10.0		116	70-130			
2,2-Dichloropropane	12.6	1.0	µg/L	10.0		126	40-130			†
1,1-Dichloropropene	12.3	2.0	µg/L	10.0		123	70-130			
cis-1,3-Dichloropropene	11.7	0.50	µg/L	10.0		117	70-130			
trans-1,3-Dichloropropene	12.5	0.50	µg/L	10.0		125	70-130			
Diethyl Ether	11.9	2.0	µg/L	10.0		119	70-130			
Diisopropyl Ether (DIPE)	10.8	0.50	µg/L	10.0		108	70-130			
1,4-Dioxane	114	100	µg/L	100		114	40-130			†
Ethylbenzene	11.2	1.0	µg/L	10.0		112	70-130			
Hexachlorobutadiene	12.5	1.0	µg/L	10.0		125	70-130			
2-Hexanone (MBK)	102	10	µg/L	100		102	70-160			†
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.0		111	70-130			
p-Isopropyltoluene (p-Cymene)	10.6	1.0	µg/L	10.0		106	70-130			
Methyl Acetate	7.54	1.0	µg/L	10.0		75.4	70-130			
Methyl tert-Butyl Ether (MTBE)	12.3	1.0	µg/L	10.0		123	70-130			
Methyl Cyclohexane	11.1	1.0	µg/L	10.0		111	70-130			
Methylene Chloride	10.4	5.0	µg/L	10.0		104	70-130			
4-Methyl-2-pentanone (MIBK)	98.8	10	µg/L	100		98.8	70-160			†
Naphthalene	8.58	2.0	µg/L	10.0		85.8	40-130			†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Styrene	11.3	1.0	µg/L	10.0		113	70-130			
1,1,1,2-Tetrachloroethane	11.6	1.0	µg/L	10.0		116	70-130			
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107	70-130			
Tetrachloroethylene	13.8	1.0	µg/L	10.0		138	* 70-130			L-06
Tetrahydrofuran	11.0	10	µg/L	10.0		110	70-130			
Toluene	11.9	1.0	µg/L	10.0		119	70-130			
1,2,3-Trichlorobenzene	9.23	5.0	µg/L	10.0		92.3	70-130			
1,2,4-Trichlorobenzene	9.49	1.0	µg/L	10.0		94.9	70-130			
1,3,5-Trichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,1,1-Trichloroethane	13.0	1.0	µg/L	10.0		130	70-130			
1,1,2-Trichloroethane	12.1	1.0	µg/L	10.0		121	70-130			
Trichloroethylene	12.2	1.0	µg/L	10.0		122	70-130			
Trichlorofluoromethane (Freon 11)	10.7	2.0	µg/L	10.0		107	70-130			
1,2,3-Trichloropropane	10.8	2.0	µg/L	10.0		108	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.8	1.0	µg/L	10.0		118	70-130			
1,2,4-Trimethylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Vinyl Chloride	10.3	2.0	µg/L	10.0		103	40-160			†
m+p Xylene	22.5	2.0	µg/L	20.0		112	70-130			
o-Xylene	10.8	1.0	µg/L	10.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.5		µg/L	25.0		98.0	70-130			
Surrogate: Toluene-d8	25.5		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	25.6		µg/L	25.0		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203147 - SW-846 5030B										
LCS Dup (B203147-BSD1)										
Prepared: 05/11/18 Analyzed: 05/14/18										
Acetone	96.1	50	µg/L	100		96.1	70-160	3.97	25	†
Acrylonitrile	11.1	5.0	µg/L	10.0		111	70-130	3.39	25	
tert-Amyl Methyl Ether (TAME)	11.3	0.50	µg/L	10.0		113	70-130	1.93	25	
Benzene	12.0	1.0	µg/L	10.0		120	70-130	2.39	25	
Bromobenzene	11.2	1.0	µg/L	10.0		112	70-130	0.267	25	
Bromochloromethane	14.5	1.0	µg/L	10.0		145	* 70-130	0.0690	25	L-02, V-20
Bromodichloromethane	11.8	0.50	µg/L	10.0		118	70-130	2.67	25	
Bromoform	11.8	1.0	µg/L	10.0		118	70-130	0.0848	25	
Bromomethane	8.15	2.0	µg/L	10.0		81.5	40-160	10.1	25	†
2-Butanone (MEK)	99.4	20	µg/L	100		99.4	40-160	2.93	25	†
tert-Butyl Alcohol (TBA)	110	20	µg/L	100		110	40-160	5.11	25	V-06 †
n-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130	3.26	25	
sec-Butylbenzene	9.98	1.0	µg/L	10.0		99.8	70-130	0.500	25	
tert-Butylbenzene	10.0	1.0	µg/L	10.0		100	70-130	0.894	25	
tert-Butyl Ethyl Ether (TBEE)	10.7	0.50	µg/L	10.0		107	70-130	2.03	25	
Carbon Disulfide	12.4	4.0	µg/L	10.0		124	70-130	5.02	25	
Carbon Tetrachloride	13.2	5.0	µg/L	10.0		132	* 70-130	1.95	25	L-02
Chlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	0.270	25	
Chlorodibromomethane	12.1	0.50	µg/L	10.0		121	70-130	5.68	25	V-20
Chloroethane	9.89	2.0	µg/L	10.0		98.9	70-130	1.01	25	
Chloroform	12.3	2.0	µg/L	10.0		123	70-130	4.22	25	
Chloromethane	7.95	2.0	µg/L	10.0		79.5	40-160	2.12	25	V-05 †
2-Chlorotoluene	10.6	1.0	µg/L	10.0		106	70-130	1.91	25	
4-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130	1.30	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.34	5.0	µg/L	10.0		93.4	70-130	3.47	25	
1,2-Dibromoethane (EDB)	12.4	0.50	µg/L	10.0		124	70-130	4.74	25	
Dibromomethane	12.4	1.0	µg/L	10.0		124	70-130	0.806	25	
1,2-Dichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	0.192	25	
1,3-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130	0.460	25	
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130	1.16	25	
trans-1,4-Dichloro-2-butene	9.99	2.0	µg/L	10.0		99.9	70-130	0.100	25	
Dichlorodifluoromethane (Freon 12)	5.23	2.0	µg/L	10.0		52.3	40-160	6.83	25	V-34 †
1,1-Dichloroethane	12.2	1.0	µg/L	10.0		122	70-130	2.03	25	
1,2-Dichloroethane	11.7	1.0	µg/L	10.0		117	70-130	2.44	25	
1,1-Dichloroethylene	11.8	1.0	µg/L	10.0		118	70-130	5.46	25	
cis-1,2-Dichloroethylene	11.7	1.0	µg/L	10.0		117	70-130	4.10	25	
trans-1,2-Dichloroethylene	11.7	1.0	µg/L	10.0		117	70-130	3.37	25	
1,2-Dichloropropane	11.7	1.0	µg/L	10.0		117	70-130	2.87	25	
1,3-Dichloropropane	11.4	0.50	µg/L	10.0		114	70-130	2.26	25	
2,2-Dichloropropane	12.3	1.0	µg/L	10.0		123	40-130	2.97	25	†
1,1-Dichloropropene	12.2	2.0	µg/L	10.0		122	70-130	0.489	25	
cis-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130	3.93	25	
trans-1,3-Dichloropropene	12.1	0.50	µg/L	10.0		121	70-130	3.58	25	
Diethyl Ether	11.3	2.0	µg/L	10.0		113	70-130	5.26	25	
Diisopropyl Ether (DIPE)	10.5	0.50	µg/L	10.0		105	70-130	2.92	25	
1,4-Dioxane	86.9	100	µg/L	100		86.9	40-130	27.3	50	J † ‡
Ethylbenzene	11.1	1.0	µg/L	10.0		111	70-130	1.61	25	
Hexachlorobutadiene	12.0	1.0	µg/L	10.0		120	70-130	3.76	25	
2-Hexanone (MBK)	97.1	10	µg/L	100		97.1	70-160	4.68	25	†
Isopropylbenzene (Cumene)	11.3	1.0	µg/L	10.0		113	70-130	1.34	25	
p-Isopropyltoluene (p-Cymene)	10.4	1.0	µg/L	10.0		104	70-130	1.71	25	
Methyl Acetate	7.36	1.0	µg/L	10.0		73.6	70-130	2.42	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203147 - SW-846 5030B

LCS Dup (B203147-BSD1)

Prepared: 05/11/18 Analyzed: 05/14/18

Methyl tert-Butyl Ether (MTBE)	12.1	1.0	µg/L	10.0		121	70-130	2.13	25	
Methyl Cyclohexane	10.9	1.0	µg/L	10.0		109	70-130	2.18	25	
Methylene Chloride	10.3	5.0	µg/L	10.0		103	70-130	1.35	25	
4-Methyl-2-pentanone (MIBK)	95.9	10	µg/L	100		95.9	70-160	2.98	25	†
Naphthalene	8.46	2.0	µg/L	10.0		84.6	40-130	1.41	25	†
n-Propylbenzene	10.8	1.0	µg/L	10.0		108	70-130	0.648	25	
Styrene	11.3	1.0	µg/L	10.0		113	70-130	0.00	25	
1,1,1,2-Tetrachloroethane	11.3	1.0	µg/L	10.0		113	70-130	2.71	25	
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.0		109	70-130	1.39	25	
Tetrachloroethylene	13.2	1.0	µg/L	10.0		132	* 70-130	4.60	25	L-06
Tetrahydrofuran	10.1	10	µg/L	10.0		101	70-130	8.65	25	
Toluene	11.4	1.0	µg/L	10.0		114	70-130	4.03	25	
1,2,3-Trichlorobenzene	9.29	5.0	µg/L	10.0		92.9	70-130	0.648	25	
1,2,4-Trichlorobenzene	9.31	1.0	µg/L	10.0		93.1	70-130	1.91	25	
1,3,5-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130	1.45	25	
1,1,1-Trichloroethane	12.5	1.0	µg/L	10.0		125	70-130	3.93	25	
1,1,2-Trichloroethane	11.8	1.0	µg/L	10.0		118	70-130	2.68	25	
Trichloroethylene	11.7	1.0	µg/L	10.0		117	70-130	4.68	25	
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0		102	70-130	4.77	25	
1,2,3-Trichloropropane	11.5	2.0	µg/L	10.0		115	70-130	6.26	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6	1.0	µg/L	10.0		116	70-130	1.63	25	
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102	70-130	0.681	25	
1,3,5-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	0.558	25	
Vinyl Chloride	9.79	2.0	µg/L	10.0		97.9	40-160	5.27	25	†
m+p Xylene	22.2	2.0	µg/L	20.0		111	70-130	1.30	25	
o-Xylene	10.8	1.0	µg/L	10.0		108	70-130	0.647	25	
Surrogate: 1,2-Dichloroethane-d4	24.4		µg/L	25.0		97.5	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	26.1		µg/L	25.0		104	70-130			

Batch B203306 - SW-846 5035

Blank (B203306-BLK1)

Prepared & Analyzed: 05/14/18

Tetrachloroethylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0247		mg/Kg wet	0.0250		98.7	70-130			
Surrogate: Toluene-d8	0.0251		mg/Kg wet	0.0250		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0259		mg/Kg wet	0.0250		104	70-130			

LCS (B203306-BS1)

Prepared & Analyzed: 05/14/18

Tetrachloroethylene	0.0156	0.0011	mg/Kg wet	0.0113		138	* 70-130			L-06
Surrogate: 1,2-Dichloroethane-d4	0.0278		mg/Kg wet	0.0283		98.0	70-130			
Surrogate: Toluene-d8	0.0289		mg/Kg wet	0.0283		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0290		mg/Kg wet	0.0283		102	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203306 - SW-846 5035
LCS Dup (B203306-BSD1)

Prepared & Analyzed: 05/14/18

Tetrachloroethylene	0.0149	0.0011	mg/Kg wet	0.0113		132	*	70-130	4.60	25	L-06
Surrogate: 1,2-Dichloroethane-d4	0.0276		mg/Kg wet	0.0283		97.5		70-130			
Surrogate: Toluene-d8	0.0283		mg/Kg wet	0.0283		100		70-130			
Surrogate: 4-Bromofluorobenzene	0.0295		mg/Kg wet	0.0283		104		70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202466 - SW-846 3510C

Blank (B202466-BLK1)

Prepared: 05/03/18 Analyzed: 05/04/18

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							R-05, V-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-19
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202466 - SW-846 3510C										
Blank (B202466-BLK1)				Prepared: 05/03/18 Analyzed: 05/04/18						
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	158		µg/L	200		79.0	15-110			
Surrogate: Phenol-d6	121		µg/L	200		60.6	15-110			
Surrogate: Nitrobenzene-d5	98.1		µg/L	100		98.1	30-130			
Surrogate: 2-Fluorobiphenyl	77.4		µg/L	101		76.7	30-130			
Surrogate: 2,4,6-Tribromophenol	183		µg/L	200		91.6	15-110			
Surrogate: p-Terphenyl-d14	121		µg/L	101		120	30-130			
LCS (B202466-BS1)				Prepared: 05/03/18 Analyzed: 05/04/18						
Acenaphthene	34.4	5.0	µg/L	50.0		68.9	40-140			
Acenaphthylene	35.2	5.0	µg/L	50.0		70.3	40-140			
Acetophenone	43.5	10	µg/L	50.0		87.0	40-140			
Aniline	42.7	5.0	µg/L	50.0		85.5	40-140			
Anthracene	39.1	5.0	µg/L	50.0		78.1	40-140			
Benzidine	16.4	20	µg/L	50.0		32.7 *	40-140			V-04, V-05, L-07A, J
Benzo(a)anthracene	41.4	5.0	µg/L	50.0		82.8	40-140			
Benzo(a)pyrene	41.8	5.0	µg/L	50.0		83.6	40-140			
Benzo(b)fluoranthene	40.9	5.0	µg/L	50.0		81.7	40-140			
Benzo(g,h,i)perylene	35.3	5.0	µg/L	50.0		70.7	40-140			
Benzo(k)fluoranthene	42.0	5.0	µg/L	50.0		84.0	40-140			
Benzoic Acid	29.4	10	µg/L	50.0		58.8	10-130			V-20 †
Bis(2-chloroethoxy)methane	47.5	10	µg/L	50.0		94.9	40-140			
Bis(2-chloroethyl)ether	42.7	10	µg/L	50.0		85.4	40-140			
Bis(2-chloroisopropyl)ether	46.3	10	µg/L	50.0		92.7	40-140			
Bis(2-Ethylhexyl)phthalate	41.9	10	µg/L	50.0		83.7	40-140			
4-Bromophenylphenylether	39.2	10	µg/L	50.0		78.5	40-140			
Butylbenzylphthalate	42.7	10	µg/L	50.0		85.4	40-140			
Carbazole	40.0	10	µg/L	50.0		80.0	40-140			
4-Chloroaniline	39.2	10	µg/L	50.0		78.5	40-140			V-34
4-Chloro-3-methylphenol	42.7	10	µg/L	50.0		85.4	30-130			
2-Chloronaphthalene	33.3	10	µg/L	50.0		66.5	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202466 - SW-846 3510C										
LCS (B202466-BS1)				Prepared: 05/03/18 Analyzed: 05/04/18						
2-Chlorophenol	40.3	10	µg/L	50.0		80.5	30-130			
4-Chlorophenylphenylether	36.7	10	µg/L	50.0		73.4	40-140			
Chrysene	39.2	5.0	µg/L	50.0		78.4	40-140			
Dibenz(a,h)anthracene	39.2	5.0	µg/L	50.0		78.4	40-140			
Dibenzofuran	37.1	5.0	µg/L	50.0		74.1	40-140			
Di-n-butylphthalate	40.6	10	µg/L	50.0		81.3	40-140			
1,2-Dichlorobenzene	36.8	5.0	µg/L	50.0		73.6	40-140			
1,3-Dichlorobenzene	35.6	5.0	µg/L	50.0		71.3	40-140			
1,4-Dichlorobenzene	35.6	5.0	µg/L	50.0		71.1	40-140			
3,3-Dichlorobenzidine	44.9	10	µg/L	50.0		89.8	40-140			
2,4-Dichlorophenol	41.3	10	µg/L	50.0		82.6	30-130			
Diethylphthalate	37.4	10	µg/L	50.0		74.8	40-140			
2,4-Dimethylphenol	38.4	10	µg/L	50.0		76.8	30-130			
Dimethylphthalate	39.6	10	µg/L	50.0		79.2	40-140			
4,6-Dinitro-2-methylphenol	34.5	10	µg/L	50.0		69.1	30-130			
2,4-Dinitrophenol	32.9	10	µg/L	50.0		65.8	30-130			V-19
2,4-Dinitrotoluene	36.9	10	µg/L	50.0		73.8	40-140			
2,6-Dinitrotoluene	39.6	10	µg/L	50.0		79.3	40-140			
Di-n-octylphthalate	43.6	10	µg/L	50.0		87.3	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	43.1	10	µg/L	50.0		86.2	40-140			
Fluoranthene	39.7	5.0	µg/L	50.0		79.3	40-140			
Fluorene	36.3	5.0	µg/L	50.0		72.6	40-140			
Hexachlorobenzene	38.1	10	µg/L	50.0		76.2	40-140			
Hexachlorobutadiene	37.5	10	µg/L	50.0		75.0	40-140			
Hexachlorocyclopentadiene	21.2	10	µg/L	50.0		42.3	30-140			V-05 †
Hexachloroethane	37.5	10	µg/L	50.0		75.1	40-140			
Indeno(1,2,3-cd)pyrene	38.0	5.0	µg/L	50.0		76.0	40-140			
Isophorone	43.4	10	µg/L	50.0		86.7	40-140			
1-Methylnaphthalene	41.8	5.0	µg/L	50.0		83.6	40-140			
2-Methylnaphthalene	42.6	5.0	µg/L	50.0		85.1	40-140			
2-Methylphenol	36.7	10	µg/L	50.0		73.4	30-130			
3/4-Methylphenol	42.8	10	µg/L	50.0		85.5	30-130			
Naphthalene	40.2	5.0	µg/L	50.0		80.4	40-140			
2-Nitroaniline	39.0	10	µg/L	50.0		77.9	40-140			
3-Nitroaniline	36.9	10	µg/L	50.0		73.8	40-140			
4-Nitroaniline	38.4	10	µg/L	50.0		76.8	40-140			
Nitrobenzene	41.9	10	µg/L	50.0		83.8	40-140			
2-Nitrophenol	41.1	10	µg/L	50.0		82.2	30-130			
4-Nitrophenol	28.3	10	µg/L	50.0		56.6	10-130			†
N-Nitrosodimethylamine	37.5	10	µg/L	50.0		75.0	40-140			
N-Nitrosodiphenylamine	46.0	10	µg/L	50.0		91.9	40-140			
N-Nitrosodi-n-propylamine	43.2	10	µg/L	50.0		86.4	40-140			
Pentachloronitrobenzene	39.2	10	µg/L	50.0		78.4	40-140			V-16
Pentachlorophenol	31.7	10	µg/L	50.0		63.4	30-130			
Phenanthrene	39.9	5.0	µg/L	50.0		79.7	40-140			
Phenol	28.6	10	µg/L	50.0		57.2	20-130			†
Pyrene	39.6	5.0	µg/L	50.0		79.1	40-140			
Pyridine	26.4	5.0	µg/L	50.0		52.8	10-140			†
1,2,4,5-Tetrachlorobenzene	36.2	10	µg/L	50.0		72.4	40-140			
1,2,4-Trichlorobenzene	37.6	5.0	µg/L	50.0		75.2	40-140			
2,4,5-Trichlorophenol	39.0	10	µg/L	50.0		78.1	30-130			
2,4,6-Trichlorophenol	38.5	10	µg/L	50.0		76.9	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202466 - SW-846 3510C										
LCS (B202466-BS1)										
					Prepared: 05/03/18 Analyzed: 05/04/18					
Surrogate: 2-Fluorophenol	145		µg/L	200		72.5	15-110			
Surrogate: Phenol-d6	118		µg/L	200		58.9	15-110			
Surrogate: Nitrobenzene-d5	86.6		µg/L	100		86.6	30-130			
Surrogate: 2-Fluorobiphenyl	70.8		µg/L	101		70.1	30-130			
Surrogate: 2,4,6-Tribromophenol	156		µg/L	200		77.8	15-110			
Surrogate: p-Terphenyl-d14	93.7		µg/L	101		92.7	30-130			
LCS Dup (B202466-BSD1)										
					Prepared: 05/03/18 Analyzed: 05/04/18					
Acenaphthene	32.9	5.0	µg/L	50.0		65.8	40-140	4.57	20	
Acenaphthylene	33.7	5.0	µg/L	50.0		67.4	40-140	4.18	20	
Acetophenone	43.6	10	µg/L	50.0		87.2	40-140	0.276	20	
Aniline	41.2	5.0	µg/L	50.0		82.3	40-140	3.77	50	‡
Anthracene	37.8	5.0	µg/L	50.0		75.6	40-140	3.28	20	
Benzidine	26.4	20	µg/L	50.0		52.9	40-140	47.1 *	20	R-05, V-04, V-05
Benzo(a)anthracene	40.0	5.0	µg/L	50.0		79.9	40-140	3.56	20	
Benzo(a)pyrene	40.8	5.0	µg/L	50.0		81.7	40-140	2.32	20	
Benzo(b)fluoranthene	39.4	5.0	µg/L	50.0		78.7	40-140	3.74	20	
Benzo(g,h,i)perylene	34.3	5.0	µg/L	50.0		68.5	40-140	3.07	20	
Benzo(k)fluoranthene	39.8	5.0	µg/L	50.0		79.5	40-140	5.46	20	
Benzoic Acid	29.2	10	µg/L	50.0		58.4	10-130	0.682	50	† ‡
Bis(2-chloroethoxy)methane	46.1	10	µg/L	50.0		92.2	40-140	2.88	20	
Bis(2-chloroethyl)ether	43.1	10	µg/L	50.0		86.2	40-140	0.932	20	
Bis(2-chloroisopropyl)ether	47.2	10	µg/L	50.0		94.4	40-140	1.82	20	
Bis(2-Ethylhexyl)phthalate	40.6	10	µg/L	50.0		81.2	40-140	3.13	20	
4-Bromophenylphenylether	38.1	10	µg/L	50.0		76.3	40-140	2.84	20	
Butylbenzylphthalate	41.9	10	µg/L	50.0		83.8	40-140	1.89	20	
Carbazole	38.2	10	µg/L	50.0		76.3	40-140	4.73	20	
4-Chloroaniline	33.3	10	µg/L	50.0		66.6	40-140	16.3	20	V-34
4-Chloro-3-methylphenol	41.5	10	µg/L	50.0		83.0	30-130	2.95	20	
2-Chloronaphthalene	31.2	10	µg/L	50.0		62.3	40-140	6.49	20	
2-Chlorophenol	40.4	10	µg/L	50.0		80.9	30-130	0.446	20	
4-Chlorophenylphenylether	35.2	10	µg/L	50.0		70.4	40-140	4.09	20	
Chrysene	38.2	5.0	µg/L	50.0		76.3	40-140	2.69	20	
Dibenz(a,h)anthracene	37.4	5.0	µg/L	50.0		74.7	40-140	4.81	20	
Dibenzofuran	35.6	5.0	µg/L	50.0		71.1	40-140	4.10	20	
Di-n-butylphthalate	39.5	10	µg/L	50.0		79.1	40-140	2.77	20	
1,2-Dichlorobenzene	37.0	5.0	µg/L	50.0		73.9	40-140	0.407	20	
1,3-Dichlorobenzene	36.1	5.0	µg/L	50.0		72.2	40-140	1.25	20	
1,4-Dichlorobenzene	35.6	5.0	µg/L	50.0		71.2	40-140	0.0562	20	
3,3-Dichlorobenzidine	42.3	10	µg/L	50.0		84.6	40-140	6.03	20	
2,4-Dichlorophenol	40.3	10	µg/L	50.0		80.5	30-130	2.57	20	
Diethylphthalate	36.2	10	µg/L	50.0		72.3	40-140	3.34	20	
2,4-Dimethylphenol	41.2	10	µg/L	50.0		82.3	30-130	6.91	20	
Dimethylphthalate	37.9	10	µg/L	50.0		75.9	40-140	4.23	50	‡
4,6-Dinitro-2-methylphenol	34.0	10	µg/L	50.0		68.1	30-130	1.43	50	‡
2,4-Dinitrophenol	32.3	10	µg/L	50.0		64.5	30-130	1.93	50	V-19 ‡
2,4-Dinitrotoluene	35.4	10	µg/L	50.0		70.9	40-140	4.04	20	
2,6-Dinitrotoluene	37.8	10	µg/L	50.0		75.6	40-140	4.75	20	
Di-n-octylphthalate	42.2	10	µg/L	50.0		84.3	40-140	3.45	20	
1,2-Diphenylhydrazine (as Azobenzene)	41.9	10	µg/L	50.0		83.8	40-140	2.89	20	
Fluoranthene	38.0	5.0	µg/L	50.0		76.1	40-140	4.22	20	
Fluorene	34.7	5.0	µg/L	50.0		69.4	40-140	4.39	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202466 - SW-846 3510C

LCS Dup (B202466-BSD1)

Prepared: 05/03/18 Analyzed: 05/04/18

Hexachlorobenzene	37.4	10	µg/L	50.0		74.8	40-140	1.83	20	
Hexachlorobutadiene	36.6	10	µg/L	50.0		73.2	40-140	2.54	20	
Hexachlorocyclopentadiene	21.6	10	µg/L	50.0		43.2	30-140	1.97	50	V-05 † ‡
Hexachloroethane	38.0	10	µg/L	50.0		76.0	40-140	1.27	50	‡
Indeno(1,2,3-cd)pyrene	39.6	5.0	µg/L	50.0		79.2	40-140	4.15	50	‡
Isophorone	42.2	10	µg/L	50.0		84.3	40-140	2.81	20	
1-Methylnaphthalene	41.0	5.0	µg/L	50.0		82.1	40-140	1.88	20	
2-Methylnaphthalene	40.7	5.0	µg/L	50.0		81.5	40-140	4.37	20	
2-Methylphenol	36.3	10	µg/L	50.0		72.6	30-130	1.15	20	
3/4-Methylphenol	41.5	10	µg/L	50.0		83.0	30-130	2.94	20	
Naphthalene	39.6	5.0	µg/L	50.0		79.2	40-140	1.50	20	
2-Nitroaniline	37.0	10	µg/L	50.0		74.0	40-140	5.08	20	
3-Nitroaniline	34.3	10	µg/L	50.0		68.6	40-140	7.28	20	
4-Nitroaniline	36.6	10	µg/L	50.0		73.2	40-140	4.82	20	
Nitrobenzene	40.8	10	µg/L	50.0		81.7	40-140	2.61	20	
2-Nitrophenol	39.8	10	µg/L	50.0		79.6	30-130	3.29	20	
4-Nitrophenol	27.2	10	µg/L	50.0		54.4	10-130	4.11	50	† ‡
N-Nitrosodimethylamine	37.8	10	µg/L	50.0		75.6	40-140	0.824	20	
N-Nitrosodiphenylamine	45.2	10	µg/L	50.0		90.3	40-140	1.80	20	
N-Nitrosodi-n-propylamine	43.2	10	µg/L	50.0		86.3	40-140	0.0232	20	
Pentachloronitrobenzene	37.5	10	µg/L	50.0		75.0	40-140	4.33	20	V-16
Pentachlorophenol	31.8	10	µg/L	50.0		63.7	30-130	0.504	50	‡
Phenanthrene	38.2	5.0	µg/L	50.0		76.4	40-140	4.30	20	
Phenol	28.4	10	µg/L	50.0		56.8	20-130	0.631	20	†
Pyrene	38.8	5.0	µg/L	50.0		77.5	40-140	1.99	20	
Pyridine	26.4	5.0	µg/L	50.0		52.7	10-140	0.0379	50	† ‡
1,2,4,5-Tetrachlorobenzene	34.8	10	µg/L	50.0		69.6	40-140	3.83	20	
1,2,4-Trichlorobenzene	36.5	5.0	µg/L	50.0		73.0	40-140	2.89	20	
2,4,5-Trichlorophenol	37.8	10	µg/L	50.0		75.7	30-130	3.07	20	
2,4,6-Trichlorophenol	36.4	10	µg/L	50.0		72.8	30-130	5.56	50	‡
Surrogate: 2-Fluorophenol	144		µg/L	200		72.2	15-110			
Surrogate: Phenol-d6	116		µg/L	200		57.9	15-110			
Surrogate: Nitrobenzene-d5	84.5		µg/L	100		84.5	30-130			
Surrogate: 2-Fluorobiphenyl	67.0		µg/L	101		66.3	30-130			
Surrogate: 2,4,6-Tribromophenol	149		µg/L	200		74.6	15-110			
Surrogate: p-Terphenyl-d14	89.6		µg/L	101		88.8	30-130			

Batch B202879 - SW-846 3546

Blank (B202879-BLK1)

Prepared: 05/09/18 Analyzed: 05/10/18

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
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.66	mg/Kg wet							R-05, V-04, V-05
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							R-05
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202879 - SW-846 3546										
Blank (B202879-BLK1)										
Prepared: 05/09/18 Analyzed: 05/10/18										
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							V-05, V-19
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202879 - SW-846 3546										
Blank (B202879-BLK1)										
Prepared: 05/09/18 Analyzed: 05/10/18										
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	4.74		mg/Kg wet	6.67		71.1	30-130			
Surrogate: Phenol-d6	4.69		mg/Kg wet	6.67		70.3	30-130			
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	1.87		mg/Kg wet	3.37		55.4	30-130			
Surrogate: 2,4,6-Tribromophenol	4.10		mg/Kg wet	6.67		61.6	30-130			
Surrogate: p-Terphenyl-d14	3.00		mg/Kg wet	3.37		89.2	30-130			
LCS (B202879-BS1)										
Prepared: 05/09/18 Analyzed: 05/10/18										
Acenaphthene	0.909	0.17	mg/Kg wet	1.66		54.7	40-140			
Acenaphthylene	0.954	0.17	mg/Kg wet	1.66		57.5	40-140			
Acetophenone	1.06	0.34	mg/Kg wet	1.66		64.1	40-140			
Aniline	0.776	0.34	mg/Kg wet	1.66		46.7	10-140			V-05 †
Anthracene	1.07	0.17	mg/Kg wet	1.66		64.5	40-140			
Benzydine	0.642	0.66	mg/Kg wet	1.66		38.6 *	40-140			L-07A, V-04, V-05, J
Benzo(a)anthracene	1.11	0.17	mg/Kg wet	1.66		66.6	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.66		68.6	40-140			
Benzo(b)fluoranthene	1.08	0.17	mg/Kg wet	1.66		64.8	40-140			
Benzo(g,h,i)perylene	1.16	0.17	mg/Kg wet	1.66		69.5	40-140			
Benzo(k)fluoranthene	1.08	0.17	mg/Kg wet	1.66		65.0	40-140			
Benzoic Acid	0.247	1.0	mg/Kg wet	1.61		15.4 *	30-130			L-07A, J
Bis(2-chloroethoxy)methane	1.20	0.34	mg/Kg wet	1.66		72.5	40-140			
Bis(2-chloroethyl)ether	1.10	0.34	mg/Kg wet	1.66		66.5	40-140			
Bis(2-chloroisopropyl)ether	1.17	0.34	mg/Kg wet	1.66		70.4	40-140			
Bis(2-Ethylhexyl)phthalate	1.17	0.34	mg/Kg wet	1.66		70.1	40-140			
4-Bromophenylphenylether	1.10	0.34	mg/Kg wet	1.66		66.3	40-140			
Butylbenzylphthalate	1.18	0.34	mg/Kg wet	1.66		70.8	40-140			
Carbazole	1.04	0.17	mg/Kg wet	1.66		62.5	40-140			
4-Chloroaniline	0.781	0.66	mg/Kg wet	1.66		47.0	10-140			V-34 †
4-Chloro-3-methylphenol	1.12	0.66	mg/Kg wet	1.66		67.4	30-130			
2-Chloronaphthalene	0.855	0.34	mg/Kg wet	1.66		51.5	40-140			
2-Chlorophenol	1.05	0.34	mg/Kg wet	1.66		63.5	30-130			
4-Chlorophenylphenylether	1.01	0.34	mg/Kg wet	1.66		60.6	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.66		63.5	40-140			
Dibenz(a,h)anthracene	1.19	0.17	mg/Kg wet	1.66		71.8	40-140			
Dibenzofuran	1.00	0.34	mg/Kg wet	1.66		60.3	40-140			
Di-n-butylphthalate	1.07	0.34	mg/Kg wet	1.66		64.7	40-140			
1,2-Dichlorobenzene	0.947	0.34	mg/Kg wet	1.66		57.0	40-140			
1,3-Dichlorobenzene	0.919	0.34	mg/Kg wet	1.66		55.3	40-140			
1,4-Dichlorobenzene	0.916	0.34	mg/Kg wet	1.66		55.2	40-140			
3,3-Dichlorobenzidine	1.01	0.17	mg/Kg wet	1.66		60.8	20-140			†
2,4-Dichlorophenol	1.10	0.34	mg/Kg wet	1.66		65.9	30-130			
Diethylphthalate	1.00	0.34	mg/Kg wet	1.66		60.2	40-140			
2,4-Dimethylphenol	1.08	0.34	mg/Kg wet	1.66		65.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202879 - SW-846 3546										
LCS (B202879-BS1)					Prepared: 05/09/18 Analyzed: 05/10/18					
Dimethylphthalate	1.05	0.34	mg/Kg wet	1.66		63.2	40-140			
4,6-Dinitro-2-methylphenol	0.847	0.34	mg/Kg wet	1.66		51.0	30-130			
2,4-Dinitrophenol	0.597	0.66	mg/Kg wet	1.66		36.0	30-130			V-05, V-19, J
2,4-Dinitrotoluene	0.984	0.34	mg/Kg wet	1.66		59.2	40-140			
2,6-Dinitrotoluene	1.06	0.34	mg/Kg wet	1.66		63.7	40-140			
Di-n-octylphthalate	1.19	0.34	mg/Kg wet	1.66		71.6	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	1.14	0.34	mg/Kg wet	1.66		68.4	40-140			
Fluoranthene	1.04	0.17	mg/Kg wet	1.66		62.8	40-140			
Fluorene	0.985	0.17	mg/Kg wet	1.66		59.3	40-140			
Hexachlorobenzene	1.04	0.34	mg/Kg wet	1.66		62.7	40-140			
Hexachlorobutadiene	1.02	0.34	mg/Kg wet	1.66		61.3	40-140			
Hexachlorocyclopentadiene	0.777	0.34	mg/Kg wet	1.66		46.8	40-140			V-05
Hexachloroethane	0.975	0.34	mg/Kg wet	1.66		58.7	40-140			
Indeno(1,2,3-cd)pyrene	1.20	0.17	mg/Kg wet	1.66		72.1	40-140			
Isophorone	1.09	0.34	mg/Kg wet	1.66		65.8	40-140			
1-Methylnaphthalene	1.11	0.17	mg/Kg wet	1.66		67.0	40-140			
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.66		67.5	40-140			
2-Methylphenol	0.956	0.34	mg/Kg wet	1.66		57.6	30-130			
3/4-Methylphenol	1.11	0.34	mg/Kg wet	1.66		66.8	30-130			
Naphthalene	1.05	0.17	mg/Kg wet	1.66		63.1	40-140			
2-Nitroaniline	1.02	0.34	mg/Kg wet	1.66		61.6	40-140			
3-Nitroaniline	0.902	0.34	mg/Kg wet	1.66		54.3	30-140			†
4-Nitroaniline	0.921	0.34	mg/Kg wet	1.66		55.4	40-140			
Nitrobenzene	1.07	0.34	mg/Kg wet	1.66		64.4	40-140			
2-Nitrophenol	1.05	0.34	mg/Kg wet	1.66		63.1	30-130			
4-Nitrophenol	0.992	0.66	mg/Kg wet	1.66		59.7	30-130			
N-Nitrosodimethylamine	1.06	0.34	mg/Kg wet	1.66		64.0	40-140			
N-Nitrosodiphenylamine	1.34	0.34	mg/Kg wet	1.66		80.5	40-140			
N-Nitrosodi-n-propylamine	1.05	0.34	mg/Kg wet	1.66		63.3	40-140			
Pentachloronitrobenzene	1.07	0.34	mg/Kg wet	1.66		64.6	40-140			V-16
Pentachlorophenol	0.652	0.34	mg/Kg wet	1.66		39.3	30-130			
Phenanthrene	1.07	0.17	mg/Kg wet	1.66		64.1	40-140			
Phenol	1.09	0.34	mg/Kg wet	1.66		65.5	30-130			
Pyrene	1.13	0.17	mg/Kg wet	1.66		67.8	40-140			
Pyridine	0.698	0.34	mg/Kg wet	1.66		42.0	30-140			†
1,2,4,5-Tetrachlorobenzene	0.985	0.34	mg/Kg wet	1.66		59.3	40-140			
1,2,4-Trichlorobenzene	0.999	0.34	mg/Kg wet	1.66		60.2	40-140			
2,4,5-Trichlorophenol	1.04	0.34	mg/Kg wet	1.66		62.6	30-130			
2,4,6-Trichlorophenol	0.994	0.34	mg/Kg wet	1.66		59.9	30-130			
Surrogate: 2-Fluorophenol	4.45		mg/Kg wet	6.64		67.0	30-130			
Surrogate: Phenol-d6	4.31		mg/Kg wet	6.64		64.9	30-130			
Surrogate: Nitrobenzene-d5	2.09		mg/Kg wet	3.32		63.0	30-130			
Surrogate: 2-Fluorobiphenyl	1.76		mg/Kg wet	3.36		52.5	30-130			
Surrogate: 2,4,6-Tribromophenol	3.95		mg/Kg wet	6.64		59.4	30-130			
Surrogate: p-Terphenyl-d14	2.45		mg/Kg wet	3.36		73.0	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202879 - SW-846 3546										
LCS Dup (B202879-BSD1)										
Prepared: 05/09/18 Analyzed: 05/10/18										
Acenaphthene	0.990	0.17	mg/Kg wet	1.66		59.6	40-140	8.61	30	
Acenaphthylene	1.01	0.17	mg/Kg wet	1.66		60.9	40-140	5.81	30	
Acetophenone	1.14	0.34	mg/Kg wet	1.66		68.4	40-140	6.52	30	
Aniline	0.987	0.34	mg/Kg wet	1.66		59.4	10-140	23.9	50	V-05 † ‡
Anthracene	1.15	0.17	mg/Kg wet	1.66		69.1	40-140	6.83	30	
Benztidine	0.891	0.66	mg/Kg wet	1.66		53.7	40-140	32.5 *	30	R-05, V-04, V-05
Benzo(a)anthracene	1.21	0.17	mg/Kg wet	1.66		72.7	40-140	8.82	30	
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.66		74.0	40-140	7.55	30	
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.66		69.3	40-140	6.59	30	
Benzo(g,h,i)perylene	1.23	0.17	mg/Kg wet	1.66		74.0	40-140	6.19	30	
Benzo(k)fluoranthene	1.19	0.17	mg/Kg wet	1.66		71.6	40-140	9.75	30	
Benzoic Acid	0.520	1.0	mg/Kg wet	1.61		32.3	30-130	71.1 *	50	R-05, J ‡
Bis(2-chloroethoxy)methane	1.28	0.34	mg/Kg wet	1.66		77.2	40-140	6.28	30	
Bis(2-chloroethyl)ether	1.09	0.34	mg/Kg wet	1.66		65.5	40-140	1.52	30	
Bis(2-chloroisopropyl)ether	1.23	0.34	mg/Kg wet	1.66		74.3	40-140	5.36	30	
Bis(2-Ethylhexyl)phthalate	1.25	0.34	mg/Kg wet	1.66		75.0	40-140	6.67	30	
4-Bromophenylphenylether	1.19	0.34	mg/Kg wet	1.66		71.6	40-140	7.80	30	
Butylbenzylphthalate	1.25	0.34	mg/Kg wet	1.66		75.4	40-140	6.35	30	
Carbazole	1.12	0.17	mg/Kg wet	1.66		67.7	40-140	8.08	30	
4-Chloroaniline	0.912	0.66	mg/Kg wet	1.66		54.9	10-140	15.4	30	V-34 †
4-Chloro-3-methylphenol	1.20	0.66	mg/Kg wet	1.66		72.1	30-130	6.85	30	
2-Chloronaphthalene	0.922	0.34	mg/Kg wet	1.66		55.5	40-140	7.51	30	
2-Chlorophenol	1.12	0.34	mg/Kg wet	1.66		67.6	30-130	6.26	30	
4-Chlorophenylphenylether	1.06	0.34	mg/Kg wet	1.66		63.9	40-140	5.30	30	
Chrysene	1.15	0.17	mg/Kg wet	1.66		69.3	40-140	8.77	30	
Dibenz(a,h)anthracene	1.28	0.17	mg/Kg wet	1.66		77.2	40-140	7.30	30	
Dibenzofuran	1.06	0.34	mg/Kg wet	1.66		63.9	40-140	5.80	30	
Di-n-butylphthalate	1.16	0.34	mg/Kg wet	1.66		69.9	40-140	7.70	30	
1,2-Dichlorobenzene	0.985	0.34	mg/Kg wet	1.66		59.3	40-140	3.92	30	
1,3-Dichlorobenzene	0.974	0.34	mg/Kg wet	1.66		58.6	40-140	5.79	30	
1,4-Dichlorobenzene	0.969	0.34	mg/Kg wet	1.66		58.4	40-140	5.64	30	
3,3-Dichlorobenzidine	1.15	0.17	mg/Kg wet	1.66		69.4	20-140	13.2	50	† ‡
2,4-Dichlorophenol	1.18	0.34	mg/Kg wet	1.66		71.1	30-130	7.50	30	
Diethylphthalate	1.03	0.34	mg/Kg wet	1.66		62.3	40-140	3.36	30	
2,4-Dimethylphenol	1.18	0.34	mg/Kg wet	1.66		71.2	30-130	8.86	30	
Dimethylphthalate	1.12	0.34	mg/Kg wet	1.66		67.1	40-140	5.98	30	
4,6-Dinitro-2-methylphenol	0.952	0.34	mg/Kg wet	1.66		57.3	30-130	11.7	30	
2,4-Dinitrophenol	0.738	0.66	mg/Kg wet	1.66		44.4	30-130	21.0	30	V-05, V-19
2,4-Dinitrotoluene	1.04	0.34	mg/Kg wet	1.66		62.6	40-140	5.61	30	
2,6-Dinitrotoluene	1.14	0.34	mg/Kg wet	1.66		68.4	40-140	7.06	30	
Di-n-octylphthalate	1.27	0.34	mg/Kg wet	1.66		76.5	40-140	6.62	30	
1,2-Diphenylhydrazine (as Azobenzene)	1.25	0.34	mg/Kg wet	1.66		75.1	40-140	9.40	30	
Fluoranthene	1.12	0.17	mg/Kg wet	1.66		67.5	40-140	7.19	30	
Fluorene	1.04	0.17	mg/Kg wet	1.66		62.9	40-140	5.83	30	
Hexachlorobenzene	1.14	0.34	mg/Kg wet	1.66		68.4	40-140	8.73	30	
Hexachlorobutadiene	1.07	0.34	mg/Kg wet	1.66		64.4	40-140	4.84	30	
Hexachlorocyclopentadiene	0.826	0.34	mg/Kg wet	1.66		49.7	40-140	6.09	30	V-05
Hexachloroethane	1.02	0.34	mg/Kg wet	1.66		61.5	40-140	4.63	30	
Indeno(1,2,3-cd)pyrene	1.31	0.17	mg/Kg wet	1.66		79.1	40-140	9.34	30	
Isophorone	1.18	0.34	mg/Kg wet	1.66		70.9	40-140	7.47	30	
1-Methylnaphthalene	1.23	0.17	mg/Kg wet	1.66		73.8	40-140	9.66	30	
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.66		71.9	40-140	6.28	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202879 - SW-846 3546										
LCS Dup (B202879-BSD1)					Prepared: 05/09/18 Analyzed: 05/10/18					
2-Methylphenol	1.04	0.34	mg/Kg wet	1.66		62.7	30-130	8.58	30	
3/4-Methylphenol	1.19	0.34	mg/Kg wet	1.66		71.6	30-130	6.88	30	
Naphthalene	1.12	0.17	mg/Kg wet	1.66		67.2	40-140	6.38	30	
2-Nitroaniline	1.09	0.34	mg/Kg wet	1.66		65.7	40-140	6.41	30	
3-Nitroaniline	0.970	0.34	mg/Kg wet	1.66		58.4	30-140	7.27	30	†
4-Nitroaniline	1.03	0.34	mg/Kg wet	1.66		61.9	40-140	11.0	30	
Nitrobenzene	1.14	0.34	mg/Kg wet	1.66		68.9	40-140	6.63	30	
2-Nitrophenol	1.14	0.34	mg/Kg wet	1.66		68.8	30-130	8.58	30	
4-Nitrophenol	1.01	0.66	mg/Kg wet	1.66		60.6	30-130	1.50	50	‡
N-Nitrosodimethylamine	1.12	0.34	mg/Kg wet	1.66		67.3	40-140	5.09	30	
N-Nitrosodiphenylamine	1.47	0.34	mg/Kg wet	1.66		88.4	40-140	9.40	30	
N-Nitrosodi-n-propylamine	1.11	0.34	mg/Kg wet	1.66		66.8	40-140	5.38	30	
Pentachloronitrobenzene	1.17	0.34	mg/Kg wet	1.66		70.2	40-140	8.37	30	V-16
Pentachlorophenol	0.759	0.34	mg/Kg wet	1.66		45.7	30-130	15.2	30	
Phenanthrene	1.16	0.17	mg/Kg wet	1.66		69.9	40-140	8.57	30	
Phenol	1.18	0.34	mg/Kg wet	1.66		71.0	30-130	8.05	30	
Pyrene	1.21	0.17	mg/Kg wet	1.66		72.7	40-140	7.06	30	
Pyridine	0.706	0.34	mg/Kg wet	1.66		42.5	30-140	1.14	30	†
1,2,4,5-Tetrachlorobenzene	1.08	0.34	mg/Kg wet	1.66		65.0	40-140	9.11	30	
1,2,4-Trichlorobenzene	1.09	0.34	mg/Kg wet	1.66		65.5	40-140	8.44	30	
2,4,5-Trichlorophenol	1.12	0.34	mg/Kg wet	1.66		67.3	30-130	7.17	30	
2,4,6-Trichlorophenol	1.08	0.34	mg/Kg wet	1.66		65.0	30-130	8.23	30	
Surrogate: 2-Fluorophenol	4.86		mg/Kg wet	6.64		73.2	30-130			
Surrogate: Phenol-d6	4.79		mg/Kg wet	6.64		72.1	30-130			
Surrogate: Nitrobenzene-d5	2.32		mg/Kg wet	3.32		69.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.00		mg/Kg wet	3.36		59.7	30-130			
Surrogate: 2,4,6-Tribromophenol	4.31		mg/Kg wet	6.64		64.8	30-130			
Surrogate: p-Terphenyl-d14	2.72		mg/Kg wet	3.36		81.0	30-130			

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QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202327 - SW-846 3510C										
Blank (B202327-BLK1)										
Prepared & Analyzed: 05/02/18										
Aroclor-1016	ND	0.10	µg/L							
Aroclor-1016 [2C]	ND	0.10	µg/L							
Aroclor-1221	ND	0.10	µg/L							
Aroclor-1221 [2C]	ND	0.10	µg/L							
Aroclor-1232	ND	0.10	µg/L							
Aroclor-1232 [2C]	ND	0.10	µg/L							
Aroclor-1242	ND	0.10	µg/L							
Aroclor-1242 [2C]	ND	0.10	µg/L							
Aroclor-1248	ND	0.10	µg/L							
Aroclor-1248 [2C]	ND	0.10	µg/L							
Aroclor-1254	ND	0.10	µg/L							
Aroclor-1254 [2C]	ND	0.10	µg/L							
Aroclor-1260	ND	0.10	µg/L							
Aroclor-1260 [2C]	ND	0.10	µg/L							
Aroclor-1262	ND	0.10	µg/L							
Aroclor-1262 [2C]	ND	0.10	µg/L							
Aroclor-1268	ND	0.10	µg/L							
Aroclor-1268 [2C]	ND	0.10	µg/L							
Surrogate: Decachlorobiphenyl	1.99		µg/L	2.00		99.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.08		µg/L	2.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	1.64		µg/L	2.00		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.75		µg/L	2.00		87.3	30-150			
LCS (B202327-BS1)										
Prepared & Analyzed: 05/02/18										
Aroclor-1016	0.46	0.20	µg/L	0.500		91.9	40-140			
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		95.0	40-140			
Aroclor-1260	0.43	0.20	µg/L	0.500		86.3	40-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.7	40-140			
Surrogate: Decachlorobiphenyl	1.93		µg/L	2.00		96.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.99		µg/L	2.00		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.57		µg/L	2.00		78.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.66		µg/L	2.00		83.0	30-150			
LCS Dup (B202327-BSD1)										
Prepared & Analyzed: 05/02/18										
Aroclor-1016	0.45	0.20	µg/L	0.500		89.5	40-140	2.63	20	
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.2	40-140	1.23	20	
Aroclor-1260	0.43	0.20	µg/L	0.500		86.0	40-140	0.251	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		89.8	40-140	0.0802	20	
Surrogate: Decachlorobiphenyl	1.92		µg/L	2.00		96.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.00		µg/L	2.00		99.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.58		µg/L	2.00		79.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.68		µg/L	2.00		84.0	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202331 - SW-846 3546
Blank (B202331-BLK1)

Prepared: 05/02/18 Analyzed: 05/04/18

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	0.168		mg/Kg wet	0.200		84.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg wet	0.200		85.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		72.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.153		mg/Kg wet	0.200		76.5	30-150			

LCS (B202331-BS1)

Prepared: 05/02/18 Analyzed: 05/04/18

Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.7	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		97.9	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		94.6	40-140			
Aroclor-1260 [2C]	0.20	0.020	mg/Kg wet	0.200		97.8	40-140			
Surrogate: Decachlorobiphenyl	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.218		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.189		mg/Kg wet	0.200		94.6	30-150			

LCS Dup (B202331-BSD1)

Prepared: 05/02/18 Analyzed: 05/04/18

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.5	40-140	9.03	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.5	40-140	8.94	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.9	40-140	10.9	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		87.7	40-140	11.0	30	
Surrogate: Decachlorobiphenyl	0.188		mg/Kg wet	0.200		94.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg wet	0.200		96.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg wet	0.200		80.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.172		mg/Kg wet	0.200		86.1	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B202331 - SW-846 3546
Matrix Spike (B202331-MS1)
Source: 18E0010-03

Prepared: 05/02/18 Analyzed: 05/04/18

Aroclor-1016	0.21	0.095	mg/Kg dry	0.238	ND	89.0	40-140			
Aroclor-1016 [2C]	0.24	0.095	mg/Kg dry	0.238	ND	99.7	40-140			
Aroclor-1260	0.22	0.095	mg/Kg dry	0.238	ND	90.4	40-140			
Aroclor-1260 [2C]	0.24	0.095	mg/Kg dry	0.238	ND	101	40-140			
Surrogate: Decachlorobiphenyl	0.218		mg/Kg dry	0.238		91.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.238		mg/Kg dry	0.238		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg dry	0.238		74.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.195		mg/Kg dry	0.238		81.8	30-150			

Matrix Spike Dup (B202331-MSD1)
Source: 18E0010-03

Prepared: 05/02/18 Analyzed: 05/04/18

Aroclor-1016	0.22	0.095	mg/Kg dry	0.238	ND	91.5	40-140	2.79	30	
Aroclor-1016 [2C]	0.23	0.095	mg/Kg dry	0.238	ND	98.0	40-140	1.70	30	
Aroclor-1260	0.22	0.095	mg/Kg dry	0.238	ND	90.8	40-140	0.417	30	
Aroclor-1260 [2C]	0.24	0.095	mg/Kg dry	0.238	ND	102	40-140	1.45	30	
Surrogate: Decachlorobiphenyl	0.216		mg/Kg dry	0.238		91.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.237		mg/Kg dry	0.238		99.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.173		mg/Kg dry	0.238		72.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.190		mg/Kg dry	0.238		79.7	30-150			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203074 - SW-846 7470A Prep
Blank (B203074-BLK1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	ND	0.00010	mg/L							
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LCS (B203074-BS1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	0.00196	0.00010	mg/L	0.00200		98.2	80-120			
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LCS Dup (B203074-BSD1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	0.00191	0.00010	mg/L	0.00200		95.3	80-120	2.98	20	
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Batch B203151 - SW-846 7471
Blank (B203151-BLK1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	ND	0.025	mg/Kg wet							
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LCS (B203151-BS1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	8.04	1.9	mg/Kg wet	9.36		85.9	73.7-126.3			
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LCS Dup (B203151-BSD1)

Prepared: 05/11/18 Analyzed: 05/14/18

Mercury	8.68	1.9	mg/Kg wet	9.36		92.7	73.7-126.3	7.58	30	
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Batch B203157 - SW-846 3051
Blank (B203157-BLK1)

Prepared: 05/11/18 Analyzed: 05/14/18

Aluminum	ND	1.7	mg/Kg wet							
Antimony	ND	1.7	mg/Kg wet							
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Beryllium	ND	0.17	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Calcium	ND	5.0	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Cobalt	ND	1.7	mg/Kg wet							
Copper	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Manganese	ND	0.33	mg/Kg wet							
Nickel	ND	0.33	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
Sodium	ND	67	mg/Kg wet							
Thallium	ND	1.7	mg/Kg wet							
Vanadium	ND	0.67	mg/Kg wet							
Zinc	ND	0.67	mg/Kg wet							

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203157 - SW-846 3051
LCS (B203157-BS1)

Prepared: 05/11/18 Analyzed: 05/14/18

Aluminum	4450	5.0	mg/Kg wet	8000		55.6	47.4-152.5			
Antimony	105	5.0	mg/Kg wet	65.1		161	3.8-212			
Arsenic	128	5.0	mg/Kg wet	147		86.9	83-117			
Barium	272	5.0	mg/Kg wet	314		86.6	82.2-117.8			
Beryllium	50.2	0.50	mg/Kg wet	53.4		94.1	82.8-117.2			
Cadmium	171	0.50	mg/Kg wet	193		88.8	82.4-117.6			
Calcium	3710	15	mg/Kg wet	4580		81.1	80.8-119			
Chromium	70.3	1.0	mg/Kg wet	82.6		85.1	81.8-118.2			
Cobalt	74.6	5.0	mg/Kg wet	81.3		91.7	83.4-116.6			
Copper	158	1.0	mg/Kg wet	171		92.3	83.6-116.4			
Lead	78.6	1.5	mg/Kg wet	92.3		85.2	82.8-117			
Manganese	188	1.0	mg/Kg wet	222		84.8	82-118			
Nickel	123	1.0	mg/Kg wet	137		89.6	82.5-118.2			
Selenium	166	10	mg/Kg wet	187		88.9	79.1-121.4			
Silver	34.5	1.0	mg/Kg wet	40.7		84.9	79.6-120.4			
Sodium	184	200	mg/Kg wet	216		85.1	72.2-127.8			J
Thallium	135	5.0	mg/Kg wet	153		88.1	81-119			
Vanadium	73.3	2.0	mg/Kg wet	86.6		84.6	77.6-122.4			
Zinc	169	2.0	mg/Kg wet	189		89.4	79.9-120.1			

LCS Dup (B203157-BSD1)

Prepared: 05/11/18 Analyzed: 05/14/18

Aluminum	3920	5.0	mg/Kg wet	8000		49.0	47.4-152.5	12.6	30	
Antimony	110	5.0	mg/Kg wet	65.1		170	3.8-212	5.27	30	
Arsenic	132	5.0	mg/Kg wet	147		90.1	83-117	3.68	30	
Barium	266	5.0	mg/Kg wet	314		84.8	82.2-117.8	2.06	30	
Beryllium	50.3	0.50	mg/Kg wet	53.4		94.1	82.8-117.2	0.0492	30	
Cadmium	171	0.50	mg/Kg wet	193		88.7	82.4-117.6	0.0813	30	
Calcium	3850	15	mg/Kg wet	4580		84.1	80.8-119	3.71	30	
Chromium	71.7	1.0	mg/Kg wet	82.6		86.8	81.8-118.2	1.99	30	
Cobalt	75.8	5.0	mg/Kg wet	81.3		93.3	83.4-116.6	1.63	30	
Copper	155	1.0	mg/Kg wet	171		90.4	83.6-116.4	2.05	30	
Lead	81.6	1.5	mg/Kg wet	92.3		88.4	82.8-117	3.73	30	
Manganese	182	1.0	mg/Kg wet	222		82.1	82-118	3.24	30	
Nickel	124	1.0	mg/Kg wet	137		90.7	82.5-118.2	1.23	30	
Selenium	172	10	mg/Kg wet	187		91.8	79.1-121.4	3.17	30	
Silver	35.7	1.0	mg/Kg wet	40.7		87.8	79.6-120.4	3.39	30	
Sodium	174	200	mg/Kg wet	216		80.7	72.2-127.8	5.36	30	J
Thallium	140	5.0	mg/Kg wet	153		91.6	81-119	3.90	30	
Vanadium	75.5	2.0	mg/Kg wet	86.6		87.1	77.6-122.4	2.95	30	
Zinc	169	2.0	mg/Kg wet	189		89.2	79.9-120.1	0.143	30	

MRL Check (B203157-MRL1)

Prepared: 05/11/18 Analyzed: 05/14/18

Lead	0.572	0.49	mg/Kg wet	0.492		116	80-120			
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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B203238 - SW-846 3005A
Blank (B203238-BLK1)

Prepared & Analyzed: 05/14/18

Aluminum	ND	0.050	mg/L
Antimony	ND	0.050	mg/L
Arsenic	ND	0.010	mg/L
Barium	ND	0.050	mg/L
Beryllium	ND	0.0040	mg/L
Cadmium	ND	0.0040	mg/L
Chromium	ND	0.010	mg/L
Cobalt	ND	0.050	mg/L
Copper	ND	0.010	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.15	mg/L
Manganese	ND	0.010	mg/L
Nickel	ND	0.010	mg/L
Potassium	ND	2.0	mg/L
Selenium	ND	0.050	mg/L
Silver	ND	0.0050	mg/L
Thallium	ND	0.050	mg/L
Vanadium	ND	0.010	mg/L
Zinc	ND	0.020	mg/L

LCS (B203238-BS1)

Prepared & Analyzed: 05/14/18

Aluminum	0.498	0.050	mg/L	0.500	99.7	80-120
Antimony	0.508	0.050	mg/L	0.500	102	80-120
Arsenic	0.477	0.010	mg/L	0.500	95.4	80-120
Barium	0.502	0.050	mg/L	0.500	100	80-120
Beryllium	0.504	0.0040	mg/L	0.500	101	80-120
Cadmium	0.515	0.0040	mg/L	0.500	103	80-120
Chromium	0.502	0.010	mg/L	0.500	100	80-120
Cobalt	0.499	0.050	mg/L	0.500	99.8	80-120
Copper	0.984	0.010	mg/L	1.00	98.4	80-120
Iron	4.01	0.050	mg/L	4.00	100	80-120
Magnesium	4.17	0.15	mg/L	4.00	104	80-120
Manganese	0.488	0.010	mg/L	0.500	97.7	80-120
Nickel	0.501	0.010	mg/L	0.500	100	80-120
Potassium	4.12	2.0	mg/L	4.00	103	80-120
Selenium	0.504	0.050	mg/L	0.500	101	80-120
Silver	0.480	0.0050	mg/L	0.500	96.0	80-120
Thallium	0.502	0.050	mg/L	0.500	100	80-120
Vanadium	0.494	0.010	mg/L	0.500	98.8	80-120
Zinc	0.989	0.020	mg/L	1.00	98.9	80-120

LCS Dup (B203238-BSD1)

Prepared & Analyzed: 05/14/18

Aluminum	0.482	0.050	mg/L	0.500	96.3	80-120	3.45	20
Antimony	0.504	0.050	mg/L	0.500	101	80-120	0.783	20
Arsenic	0.471	0.010	mg/L	0.500	94.1	80-120	1.42	20
Barium	0.492	0.050	mg/L	0.500	98.3	80-120	2.05	20
Beryllium	0.500	0.0040	mg/L	0.500	100	80-120	0.811	20
Cadmium	0.505	0.0040	mg/L	0.500	101	80-120	1.93	20
Chromium	0.493	0.010	mg/L	0.500	98.5	80-120	1.93	20
Cobalt	0.488	0.050	mg/L	0.500	97.7	80-120	2.15	20
Copper	0.970	0.010	mg/L	1.00	97.0	80-120	1.43	20
Iron	3.96	0.050	mg/L	4.00	99.0	80-120	1.37	20
Magnesium	4.14	0.15	mg/L	4.00	104	80-120	0.661	20

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B203238 - SW-846 3005A										
LCS Dup (B203238-BSD1)				Prepared & Analyzed: 05/14/18						
Manganese	0.484	0.010	mg/L	0.500		96.8	80-120	0.873	20	
Nickel	0.489	0.010	mg/L	0.500		97.7	80-120	2.62	20	
Potassium	4.09	2.0	mg/L	4.00		102	80-120	0.624	20	
Selenium	0.495	0.050	mg/L	0.500		99.0	80-120	1.77	20	
Silver	0.464	0.0050	mg/L	0.500		92.7	80-120	3.43	20	
Thallium	0.489	0.050	mg/L	0.500		97.7	80-120	2.75	20	
Vanadium	0.484	0.010	mg/L	0.500		96.9	80-120	1.95	20	
Zinc	0.962	0.020	mg/L	1.00		96.2	80-120	2.76	20	
Batch B203415 - SW-846 3005A										
Blank (B203415-BLK1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Calcium	ND	0.15	mg/L							
Lead	ND	0.010	mg/L							
Sodium	0.39	2.0	mg/L							J
LCS (B203415-BS1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Calcium	4.38	0.15	mg/L	4.00		110	80-120			
Lead	0.540	0.010	mg/L	0.500		108	80-120			
Sodium	4.61	2.0	mg/L	4.00		115	80-120			
LCS Dup (B203415-BSD1)				Prepared: 05/14/18 Analyzed: 05/15/18						
Calcium	4.36	0.15	mg/L	4.00		109	80-120	0.430	20	
Lead	0.534	0.010	mg/L	0.500		107	80-120	1.05	20	
Sodium	4.50	2.0	mg/L	4.00		112	80-120	2.57	20	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B202346 - % Solids										
Blank (B202346-BLK1)				Prepared: 05/02/18 Analyzed: 05/14/18						
% Solids	0.00		% Wt							
Blank (B202346-BLK2)				Prepared: 05/02/18 Analyzed: 05/14/18						
% Solids	0.00		% Wt							
Blank (B202346-BLK3)				Prepared: 05/02/18 Analyzed: 05/14/18						
% Solids	0.00		% Wt							
Blank (B202346-BLK4)				Prepared: 05/02/18 Analyzed: 05/14/18						
% Solids	0.00		% Wt							
Batch B202378 - SW-846 9014										
Blank (B202378-BLK1)				Prepared: 05/02/18 Analyzed: 05/03/18						
Cyanide	0.27	0.50	mg/Kg wet							J
LCS (B202378-BS1)				Prepared: 05/02/18 Analyzed: 05/03/18						
Cyanide	63	2.5	mg/Kg wet	62.7		101	80-120			
LCS Dup (B202378-BSD1)				Prepared: 05/02/18 Analyzed: 05/03/18						
Cyanide	62	2.5	mg/Kg wet	63.5		97.8	80-120	2.10	20	
Batch B202491 - SW-846 9014										
Blank (B202491-BLK1)				Prepared: 05/03/18 Analyzed: 05/04/18						
Cyanide	ND	0.010	mg/L							
LCS (B202491-BS1)				Prepared: 05/03/18 Analyzed: 05/04/18						
Cyanide	0.60	0.020	mg/L	0.692		86.5	80-120			
LCS Dup (B202491-BSD1)				Prepared: 05/03/18 Analyzed: 05/04/18						
Cyanide	0.61	0.020	mg/L	0.692		87.5	80-120	1.17	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B202327-BS1 Date(s) Analyzed 05/02/2018 05/02/2018
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.47	2.2
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.45	4.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B202327-BSD1 Date(s) Analyzed 05/02/2018 05/02/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.48	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.45	4.6

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B202331-BS1 Date(s) Analyzed 05/04/2018 05/04/2018
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.20	5.1
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.20	5.1

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B202331-BSD1 Date(s) Analyzed 05/04/2018 05/04/2018
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.18	5.7
Aroclor-1260	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.18	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A
Matrix Spike

Lab Sample ID: B202331-MS1 Date(s) Analyzed 05/04/2018 05/04/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.24	13.3
Aroclor-1260	1	0.000	0.000	0.000	0.22	
	2	0.000	0.000	0.000	0.24	8.7

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B202331-MSD1 Date(s) Analyzed 05/04/2018 05/04/2018
Instrument ID (1): ECD10 Instrument ID (2): ECD10
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.22	
	2	0.000	0.000	0.000	0.23	4.4
Aroclor-1260	1	0.000	0.000	0.000	0.22	
	2	0.000	0.000	0.000	0.24	8.7

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.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-06	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
PR-15	According to the NY ELAP program, all voa results less than 0.2mg/Kg are estimated and biased low if not collected according to SW-846 5035-L/5035A-L.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
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 did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
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.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C-D in Soil</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 6010C-D in Water</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
<i>SW-846 7470A in Water</i>	

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 7470A in Water</i>	
Mercury	CT,NH,NY,NC,ME,VA
<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,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8260C in Soil</i>	
Acetone	CT,NH,NY,ME,VA
Acetone	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Acrylonitrile	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromobenzene	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
tert-Butyl Alcohol (TBA)	NY
n-Butylbenzene	CT,NH,NY,ME,VA
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
2-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
4-Chlorotoluene	CT,NH,NY,ME,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME,VA
Dibromomethane	NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-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
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
2,2-Dichloropropane	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
1,1-Dichloropropene	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY
Ethylbenzene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Soil</i>	
Naphthalene	NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME,VA
Styrene	CT,NH,NY,ME,VA
1,1,1,2-Tetrachloroethane	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
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	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
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
<i>SW-846 8260C in Water</i>	
Acetone	CT,ME,NH,VA,NY
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
Benzene	CT,ME,NH,VA,NY
Bromobenzene	NY
Bromochloromethane	ME,NH,VA,NY
Bromodichloromethane	CT,ME,NH,VA,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
2-Butanone (MEK)	CT,ME,NH,VA,NY
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,VA,NY
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NH,VA,NY
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethylene	CT,ME,NH,VA,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
2,2-Dichloropropane	ME,NH,VA,NY
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
Diethyl Ether	NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
1,4-Dioxane	NY
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
2-Hexanone (MBK)	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl Cyclohexane	NY

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
<i>SW-846 8270D in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
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 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
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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine (as 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
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-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	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
<i>SW-846 9014 in Soil</i>	
Cyanide	NY,CT,NC,ME,NH,VA
<i>SW-846 9014 in Water</i>	
Cyanide	NY,CT,NH,NC,ME,VA

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD (New York)

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

EA Engineering

Company Name: 6712 Brooklawn Pkwy, Ste. 104, Syracuse, NY 13211

Address: 315-565-6565

Project Name: Admiral Cleaners

Project Location: Watervliet, NY

Project Number: 1490738

Project Manager: Chris Schroer

Con-Test Quote Name/Number: cschroer@eaest.com

Invoice Recipient: Stephen Soldner, Justin Marra

Sampled By:

Beginning Date/Time: 4/30/18

Client Sample ID / Description: 401075-SB-13-0-5

Ending Date/Time: 4/30/18

Conc Code: S

Matrix Code: S

Grab: 1250

Composite: 1340

Conc Code: M

Matrix Code: GW

Grab: 1345

Composite: 1410

Conc Code: DL

Matrix Code: DL

Grab: 1410

Composite: 1410

Conc Code: 3H

Matrix Code: 3H

Grab: 1410

Composite: 1410

Conc Code: 3H

Matrix Code: 3H

Grab: 1410

Composite: 1410

Conc Code: 3H

Matrix Code: 3H

Grab: 1410

Composite: 1410

Conc Code: 3H

Matrix Code: 3H

Grab: 1410

Composite: 1410

Conc Code: 3H

Matrix Code: 3H

Comments: Two 8 oz. amber jars for all analytes aside from VOC (one 4 oz amber jar)

PID reading of SB-03-5-10 @ 6:46 PM

3 VOCs for VOC GW

Relinquished by: (signature)

Stephen Soldner - EA

Received by: (signature)

Relinquished by: (signature)

Relinquished by: (signature)

Relinquished by: (signature)

Relinquished by: (signature)

Relinquished by: (signature)

Relinquished by: (signature)

Relinquished by: (signature)

Relinquished by: (signature)

Relinquished by: (signature)

Relinquished by: (signature)

Relinquished by: (signature)

Date/Time: 4/30/18 1450

Date/Time: 5-1-18 8:20 AM

Date/Time: 5-1-18 12:30 PM

Date/Time: 5-1-18 12:30

Date/Time: 5-1-18 12:30

Date/Time: 5-1-18 12:30

Date/Time: 5-1-18 12:30

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Program B: Regulatory Information

AWQ STDS ☐ NY TOGS ☐NYC Sewer Discharge ☐ NY CP-51 ☐Part 360 GW (Landfill) ☐NY Restricted Use ☐NY Unrestricted Use ☐NY Part 375 ☐NYSDEC Phase I Investigation ☐Project Entity ☐Government ☐Federal ☐City ☐Municipality ☐21 J ☐

Enhanced Data Package

NYSDEC EQUIS EDD ☐EQUIS (Standard) EDD ☐NY Regulatory EDD ☐NY Regs Hits-Only EDD ☐Other: ☐

NYSDEC and AIHA-LAP, LLC Accredited

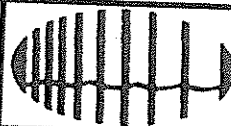
Project Entity ☐Government ☐Federal ☐City ☐Municipality ☐21 J ☐

Deliverables

Enhanced Data Package ☐NYSDEC EQUIS EDD ☐EQUIS (Standard) EDD ☐NY Regulatory EDD ☐NY Regs Hits-Only EDD ☐Other: ☐

NYSDEC and AIHA-LAP, LLC Accredited

Project Entity ☐Government ☐Federal ☐City ☐Municipality ☐21 J ☐# of Containers
2 Preservation Code
3 Container CodeDissolved Metals Samples
☐ Field Filtered
☐ Lab to FilterOrthophosphate Samples
☐ Field Filtered
☐ Lab to Filter1 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)3 Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)PCB ONLY
☐ Soxhlet
☐ Non Soxhlet


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 FA EngineeringReceived By MPDate 5/1/18Time 1350

How were the samples received?

In Cooler TNo Cooler On Ice TNo Ice Direct from Sampling Ambient Melted Ice Were samples within Temperature? 2-6°C TBy Gun # 577Actual Temp - 4.8Was Custody Seal Intact? By Blank # Actual Temp - Was COC Relinquished? TWere Samples Tampered with? NADoes Chain Agree With Samples? TAre there broken/leaking/loose caps on any samples? fIs COC in ink/ Legible? TWere samples received within holding time? TDid COC include all pertinent Information? TClient T
Project TAnalysis TSampler Name 5ID's TCollection Dates/Times TAre Sample labels filled out and legible? TAre there Lab to Filters? fAre there Rushes? fAre there Short Holds? fIs there enough Volume? TIs there Headspace where applicable? fProper Media/Containers Used? TWere trip blanks received? f

Do all samples have the proper pH?

Who was notified? Who was notified? Who was notified? MS/MSD? fIs splitting samples required? fOn COC? fAcid pH 2Base pH 11

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	6	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	5
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	3
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		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:

Received Sample ^{SS} _{MP} 401075-SB-13-10-125
this sample is not on COC. (1 8oz jar)

June 8, 2018

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

Project Location: Watervliet, NY
Client Job Number:
Project Number: 1490378.0003
Laboratory Work Order Number: 18E1297

Enclosed are results of analyses for samples received by the laboratory on May 23, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", with a horizontal line extending to the right.

Aaron L. Benoit
Project Manager

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

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

REPORT DATE: 6/8/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490378.0003

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18E1297

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

PROJECT LOCATION: Watervliet, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
401075-MW-05	18E1297-01	Ground Water		SW-846 6010C-D SW-846 7470A SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
401075-MW-07	18E1297-02	Ground Water		SW-846 6010C-D SW-846 7470A SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
401075-MW-01	18E1297-03	Ground Water		SW-846 8260C	
401075-MW-02	18E1297-04	Ground Water		SW-846 8260C SW-846 8270D	
401075-MW-04	18E1297-05	Ground Water		SW-846 8260C SW-846 8270D	
401075-MW-03	18E1297-06	Ground Water		SW-846 6010C-D SW-846 7470A SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
401075-MW-06	18E1297-07	Ground Water		SW-846 6010C-D SW-846 7470A SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
401075-MW-FD	18E1297-08	Ground Water		SW-846 6010C-D SW-846 7470A SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	
401075-TCLP-DC	18E1297-09	Water		SW-846 6010C-D SW-846 7470A SW-846 8081B SW-846 8082A SW-846 8260C SW-846 8270D	

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

REPORT DATE: 6/8/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 1490378.0003

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18E1297

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

PROJECT LOCATION: Watervliet, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	18E1297-10	Trip Blank Water		SW-846 8260C	

CASE NARRATIVE SUMMARY

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

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SW-846 6010C-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:**Selenium**

18E1297-09[401075-TCLP-DC], B204974-BS1, B204974-BSD1

SW-846 8081B

Qualifications:**DL-03**

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

18E1297-09[401075-TCLP-DC]

MS-07

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

Analyte & Samples(s) Qualified:**gamma-BHC (Lindane)**

B204968-MS1

gamma-BHC (Lindane) [2C]

B204968-MS1

MS-11

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

Analyte & Samples(s) Qualified:**Methoxychlor [2C]**

B204968-MS1

S-19

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

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

18E1297-09[401075-TCLP-DC], 18E1297-09RE1[401075-TCLP-DC], B204968-MS1

Decachlorobiphenyl [2C]

18E1297-09[401075-TCLP-DC], 18E1297-09RE1[401075-TCLP-DC], B204968-MS1

SW-846 8082A

Qualifications:**S-19**

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

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

18E1297-09[401075-TCLP-DC], 18E1297-09RE1[401075-TCLP-DC]

Decachlorobiphenyl [2C]

18E1297-09[401075-TCLP-DC], 18E1297-09RE1[401075-TCLP-DC]

SW-846 8260C

Qualifications:**DL-01**

Elevated reporting limits for all volatile compounds due to foaming sample matrix.

Analyte & Samples(s) Qualified:

18E1297-09[401075-TCLP-DC]

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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:**Hexachlorobutadiene**B204831-BSD1

MS-09

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

Analyte & Samples(s) Qualified:**Bromomethane**18E1297-01[401075-MW-05], B204831-MS1, B204831-MSD1

MS-22

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

Analyte & Samples(s) Qualified:**Hexachlorobutadiene**B204831-MSD1

MS-24

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

Analyte & Samples(s) Qualified:**Tetrachloroethylene**B204831-MSD1

PR-11

pH of sample (pH 8) is outside of method specified preservation criteria.

Analyte & Samples(s) Qualified:18E1297-09[401075-TCLP-DC]

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-03[401075-MW-01], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

18E1297-04[401075-MW-02], B204832-BLK1, B204832-BS1, B204832-BSD1, S023853-CCV1

Naphthalene18E1297-04[401075-MW-02], B204832-BLK1, B204832-BS1, B204832-BSD1, S023853-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:**Dichlorodifluoromethane (Freon 1)**

B204831-BS1, B204831-BSD1, B204831-MS1, B204831-MSD1, B204832-BS1, B204832-BSD1, S023840-CCV1, S023853-CCV1

SW-846 8270D**Qualifications:**

L-04

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

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

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

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L-07A

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

Analyte & Samples(s) Qualified:**Bis(2-chloroisopropyl)ether**B204378-BS1

MS-08

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

Analyte & Samples(s) Qualified:**3/4-Methylphenol**18E1297-09[401075-TCLP-DC], B204981-MS1

MS-09

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

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

18E1297-01[401075-MW-05], B204378-MS1, B204378-MSD1

Hexachlorocyclopentadiene18E1297-01[401075-MW-05], B204378-MS1, B204378-MSD1

MS-22

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

Analyte & Samples(s) Qualified:**Benzoic Acid**B204378-MSD1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:**Bis(2-chloroethyl)ether**

B204378-MSD1

Pyridine

B204378-MSD1

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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:**1,2-Dichlorobenzene**

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

1,3-Dichlorobenzene

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

1,4-Dichlorobenzene

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

2-Chlorophenol

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

2-Methylphenol

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

3/4-Methylphenol

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

Acetophenone

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

Bis(2-chloroethyl)ether

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

Bis(2-chloroisopropyl)ether

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BSD1

N-Nitrosodimethylamine

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

N-Nitrosodi-n-propylamine

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

Phenol

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

R-06

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

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

18E1297-01[401075-MW-05], B204378-MS1, B204378-MSD1

Aniline

18E1297-01[401075-MW-05], B204378-MS1, B204378-MSD1

Bis(2-chloroethyl)ether

18E1297-01[401075-MW-05], B204378-MS1

Phenol

18E1297-01[401075-MW-05], B204378-MS1, B204378-MSD1

Pyridine

18E1297-01[401075-MW-05], B204378-MS1

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**

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1, B204378-MS1, B204378-MSD1

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V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

Benzidine

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1, B204378-MS1, B204378-MSD1

Hexachlorocyclopentadiene

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**N-Nitrosodimethylamine**

B204378-BS1, B204378-BSD1

V-16

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

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

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1, B204378-MS1, B204378-MSD1

V-20

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

Analyte & Samples(s) Qualified:**N-Nitrosodimethylamine**

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-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**

18E1297-01[401075-MW-05], 18E1297-02[401075-MW-07], 18E1297-04[401075-MW-02], 18E1297-05[401075-MW-04], 18E1297-06[401075-MW-03], 18E1297-07[401075-MW-06], 18E1297-08[401075-MW-FD], B204378-BLK1, B204378-BS1, B204378-BSD1, B204378-MS1, B204378-MSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

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
Project Manager

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-05

Sampled: 5/22/2018 13:21

Sample ID: 18E1297-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	500	97	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Acrylonitrile	ND	50	5.8	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
tert-Amyl Methyl Ether (TAME)	ND	5.0	1.1	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Benzene	ND	10	1.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Bromobenzene	ND	10	1.5	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Bromochloromethane	ND	10	2.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Bromodichloromethane	ND	5.0	3.0	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Bromoform	ND	10	2.1	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Bromomethane	ND	20	9.4	µg/L	10	MS-09	SW-846 8260C	6/4/18	6/4/18 14:48	LBD
2-Butanone (MEK)	ND	200	24	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
tert-Butyl Alcohol (TBA)	ND	200	22	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
n-Butylbenzene	ND	10	1.5	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
sec-Butylbenzene	ND	10	1.3	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
tert-Butylbenzene	ND	10	1.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	5.0	0.95	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Carbon Disulfide	ND	40	10	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Carbon Tetrachloride	ND	50	2.5	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Chlorobenzene	ND	10	1.6	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Chlorodibromomethane	ND	5.0	1.0	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Chloroethane	ND	20	2.8	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Chloroform	ND	20	2.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Chloromethane	ND	20	5.5	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
2-Chlorotoluene	ND	10	1.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
4-Chlorotoluene	ND	10	1.4	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	3.7	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,2-Dibromoethane (EDB)	ND	5.0	1.5	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Dibromomethane	ND	10	1.6	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,2-Dichlorobenzene	ND	10	1.7	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,3-Dichlorobenzene	ND	10	1.7	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,4-Dichlorobenzene	ND	10	1.5	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
trans-1,4-Dichloro-2-butene	ND	20	3.1	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Dichlorodifluoromethane (Freon 12)	ND	20	2.8	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,1-Dichloroethane	ND	10	1.6	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,2-Dichloroethane	ND	10	1.9	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,1-Dichloroethylene	ND	10	2.1	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
cis-1,2-Dichloroethylene	590	10	1.5	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
trans-1,2-Dichloroethylene	1.8	10	1.5	µg/L	10	J	SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,2-Dichloropropane	ND	10	1.3	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,3-Dichloropropane	ND	5.0	1.3	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
2,2-Dichloropropane	ND	10	2.1	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,1-Dichloropropene	ND	20	1.3	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
cis-1,3-Dichloropropene	ND	5.0	1.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
trans-1,3-Dichloropropene	ND	5.0	1.1	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Diethyl Ether	ND	20	2.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-05

Sampled: 5/22/2018 13:21

Sample ID: 18E1297-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	5.0	1.8	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,4-Dioxane	ND	1000	260	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Ethylbenzene	ND	10	1.3	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Hexachlorobutadiene	ND	10	5.9	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
2-Hexanone (MBK)	ND	100	15	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Isopropylbenzene (Cumene)	ND	10	1.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
p-Isopropyltoluene (p-Cymene)	ND	10	1.5	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Methyl Acetate	ND	10	4.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Methyl tert-Butyl Ether (MTBE)	ND	10	0.90	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Methyl Cyclohexane	ND	10	6.3	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Methylene Chloride	ND	50	32	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
4-Methyl-2-pentanone (MIBK)	ND	100	15	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Naphthalene	ND	20	1.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
n-Propylbenzene	ND	10	1.3	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Styrene	ND	10	1.5	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,1,1,2-Tetrachloroethane	ND	10	1.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,1,2,2-Tetrachloroethane	ND	5.0	1.6	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Tetrachloroethylene	30	10	2.7	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Tetrahydrofuran	ND	100	11	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Toluene	ND	10	1.7	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,2,3-Trichlorobenzene	ND	50	1.4	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,2,4-Trichlorobenzene	ND	10	1.9	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,3,5-Trichlorobenzene	ND	10	1.7	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,1,1-Trichloroethane	ND	10	1.3	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,1,2-Trichloroethane	ND	10	2.4	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Trichloroethylene	21	10	2.0	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Trichlorofluoromethane (Freon 11)	ND	20	1.5	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,2,3-Trichloropropane	ND	20	2.2	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	10	2.0	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,2,4-Trimethylbenzene	ND	10	1.8	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
1,3,5-Trimethylbenzene	ND	10	1.3	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Vinyl Chloride	1.5	20	1.3	µg/L	10	J	SW-846 8260C	6/4/18	6/4/18 14:48	LBD
m+p Xylene	ND	20	2.6	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
o-Xylene	ND	10	1.3	µg/L	10		SW-846 8260C	6/4/18	6/4/18 14:48	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	93.6		70-130				6/4/18 14:48			
Toluene-d8	98.0		70-130				6/4/18 14:48			
4-Bromofluorobenzene	97.0		70-130				6/4/18 14:48			

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-05

Sampled: 5/22/2018 13:21

Sample ID: 18E1297-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.2	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Acenaphthylene	ND	5.2	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Acetophenone	ND	10	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Aniline	ND	5.2	2.6	µg/L	1	R-06, V-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Anthracene	ND	5.2	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Benzidine	ND	21	10	µg/L	1	L-04, MS-09, V-04, V-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Benzo(a)anthracene	ND	5.2	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Benzo(a)pyrene	ND	5.2	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Benzo(b)fluoranthene	ND	5.2	1.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Benzo(g,h,i)perylene	ND	5.2	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Benzo(k)fluoranthene	ND	5.2	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Benzoic Acid	ND	10	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Bis(2-chloroethoxy)methane	ND	10	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Bis(2-chloroethyl)ether	ND	10	1.8	µg/L	1	R-05, R-06	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Bis(2-chloroisopropyl)ether	ND	10	2.3	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Bis(2-Ethylhexyl)phthalate	ND	10	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
4-Bromophenylphenylether	ND	10	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Butylbenzylphthalate	ND	10	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Carbazole	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
4-Chloroaniline	ND	10	1.6	µg/L	1	V-34	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
4-Chloro-3-methylphenol	ND	10	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2-Chloronaphthalene	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2-Chlorophenol	ND	10	1.3	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
4-Chlorophenylphenylether	ND	10	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Chrysene	ND	5.2	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Dibenz(a,h)anthracene	ND	5.2	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Dibenzofuran	ND	5.2	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Di-n-butylphthalate	ND	10	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
1,2-Dichlorobenzene	ND	5.2	1.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
1,3-Dichlorobenzene	ND	5.2	1.6	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
1,4-Dichlorobenzene	ND	5.2	1.6	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
3,3-Dichlorobenzidine	ND	10	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2,4-Dichlorophenol	ND	10	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Diethylphthalate	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2,4-Dimethylphenol	ND	10	3.8	µg/L	1	R-06	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Dimethylphthalate	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
4,6-Dinitro-2-methylphenol	ND	10	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2,4-Dinitrophenol	ND	10	3.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2,4-Dinitrotoluene	ND	10	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2,6-Dinitrotoluene	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Di-n-octylphthalate	ND	10	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Fluoranthene	ND	5.2	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-05

Sampled: 5/22/2018 13:21

Sample ID: 18E1297-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	ND	5.2	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Hexachlorobenzene	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Hexachlorobutadiene	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Hexachlorocyclopentadiene	ND	10	2.0	µg/L	1	MS-09, V-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Hexachloroethane	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Indeno(1,2,3-cd)pyrene	ND	5.2	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Isophorone	ND	10	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
1-Methylnaphthalene	ND	5.2	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2-Methylnaphthalene	ND	5.2	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2-Methylphenol	ND	10	1.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
3/4-Methylphenol	ND	10	1.2	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Naphthalene	ND	5.2	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2-Nitroaniline	ND	10	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
3-Nitroaniline	ND	10	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
4-Nitroaniline	ND	10	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Nitrobenzene	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2-Nitrophenol	ND	10	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
4-Nitrophenol	ND	10	1.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
N-Nitrosodimethylamine	ND	10	1.6	µg/L	1	R-05, V-20	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
N-Nitrosodi-n-propylamine	ND	10	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Pentachloronitrobenzene	ND	10	1.7	µg/L	1	V-16	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Pentachlorophenol	ND	10	1.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Phenanthrene	ND	5.2	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Phenol	ND	10	1.1	µg/L	1	R-05, R-06	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Pyrene	ND	5.2	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Pyridine	ND	5.2	2.2	µg/L	1	R-06	SW-846 8270D	5/27/18	6/1/18 14:56	CDT
1,2,4,5-Tetrachlorobenzene	ND	10	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
1,2,4-Trichlorobenzene	ND	5.2	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2,4,5-Trichlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
2,4,6-Trichlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 14:56	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	84.3		15-110				6/1/18 14:56			
Phenol-d6	60.6		15-110				6/1/18 14:56			
Nitrobenzene-d5	80.9		30-130				6/1/18 14:56			
2-Fluorobiphenyl	59.7		30-130				6/1/18 14:56			
2,4,6-Tribromophenol	86.4		15-110				6/1/18 14:56			
p-Terphenyl-d14	79.2		30-130				6/1/18 14:56			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-05

Sampled: 5/22/2018 13:21

Sample ID: 18E1297-01

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	0.025	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Aldrin [1]	ND	0.050	0.017	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
alpha-BHC [1]	ND	0.050	0.0032	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
beta-BHC [1]	ND	0.050	0.024	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
delta-BHC [1]	ND	0.050	0.030	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
gamma-BHC (Lindane) [1]	ND	0.030	0.014	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Chlordane [1]	ND	0.20	0.12	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
4,4'-DDD [1]	ND	0.040	0.0018	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
4,4'-DDE [1]	ND	0.040	0.0016	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
4,4'-DDT [1]	ND	0.040	0.0024	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Dieldrin [1]	ND	0.0020	0.0020	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Endosulfan I [1]	ND	0.050	0.0021	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Endosulfan II [1]	ND	0.080	0.0029	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Endosulfan sulfate [1]	ND	0.080	0.0025	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Endrin [1]	ND	0.080	0.0017	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Endrin aldehyde [1]	ND	0.080	0.063	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Endrin ketone [1]	ND	0.080	0.0050	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Heptachlor [1]	ND	0.050	0.0046	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Heptachlor epoxide [1]	ND	0.050	0.0040	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Hexachlorobenzene [1]	ND	0.050	0.039	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Methoxychlor [1]	ND	0.50	0.0097	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Toxaphene [1]	ND	1.0	0.66	µg/L	1		SW-846 8081B	5/25/18	6/7/18 12:45	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	95.6		30-150				6/7/18 12:45			
Decachlorobiphenyl [2]	95.1		30-150				6/7/18 12:45			
Tetrachloro-m-xylene [1]	88.4		30-150				6/7/18 12:45			
Tetrachloro-m-xylene [2]	103		30-150				6/7/18 12:45			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-05

Sampled: 5/22/2018 13:21

Sample ID: 18E1297-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.18	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:42	KAL
Aroclor-1221 [1]	ND	0.20	0.16	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:42	KAL
Aroclor-1232 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:42	KAL
Aroclor-1242 [1]	ND	0.20	0.17	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:42	KAL
Aroclor-1248 [1]	ND	0.20	0.19	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:42	KAL
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:42	KAL
Aroclor-1260 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:42	KAL
Aroclor-1262 [1]	ND	0.20	0.14	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:42	KAL
Aroclor-1268 [1]	ND	0.20	0.13	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:42	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	110		30-150							
Decachlorobiphenyl [2]	99.6		30-150							
Tetrachloro-m-xylene [1]	91.0		30-150							
Tetrachloro-m-xylene [2]	92.2		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-05

Sampled: 5/22/2018 13:21

Sample ID: 18E1297-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.062	0.050	0.037	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Antimony	ND	0.050	0.031	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Arsenic	ND	0.010	0.0080	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Barium	0.067	0.050	0.0053	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Beryllium	ND	0.0040	0.0017	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Cadmium	ND	0.0040	0.00090	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Calcium	56	0.15	0.11	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Chromium	ND	0.010	0.0061	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Cobalt	ND	0.050	0.0080	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Copper	ND	0.010	0.0028	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Iron	0.21	0.050	0.040	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Magnesium	32	0.15	0.026	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Manganese	1.5	0.010	0.0020	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	5/30/18	5/31/18 10:48	EJB
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Potassium	3.4	2.0	0.32	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Selenium	ND	0.050	0.034	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Silver	ND	0.0050	0.0049	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Sodium	76	20	2.8	mg/L	10		SW-846 6010C-D	6/6/18	6/7/18 19:29	QNW
Thallium	ND	0.050	0.040	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW
Vanadium	ND	0.010	0.0047	mg/L	1		SW-846 6010C-D	6/6/18	6/8/18 12:29	QNW
Zinc	ND	0.020	0.0052	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:38	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-07

Sampled: 5/22/2018 10:37

Sample ID: 18E1297-02

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	19	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Acrylonitrile	ND	10	1.2	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	0.21	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Benzene	ND	2.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Bromobenzene	ND	2.0	0.30	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Bromochloromethane	ND	2.0	0.45	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Bromodichloromethane	ND	1.0	0.59	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Bromoform	ND	2.0	0.42	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Bromomethane	ND	4.0	1.9	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
2-Butanone (MEK)	ND	40	4.7	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
tert-Butyl Alcohol (TBA)	ND	40	4.3	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
n-Butylbenzene	0.52	2.0	0.30	µg/L	2	J	SW-846 8260C	6/4/18	6/4/18 15:19	LBD
sec-Butylbenzene	0.28	2.0	0.26	µg/L	2	J	SW-846 8260C	6/4/18	6/4/18 15:19	LBD
tert-Butylbenzene	ND	2.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	0.19	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Carbon Disulfide	ND	8.0	2.0	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Carbon Tetrachloride	ND	10	0.49	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Chlorobenzene	ND	2.0	0.32	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Chlorodibromomethane	ND	1.0	0.21	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Chloroethane	ND	4.0	0.56	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Chloroform	ND	4.0	0.44	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Chloromethane	ND	4.0	1.1	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
2-Chlorotoluene	ND	2.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
4-Chlorotoluene	ND	2.0	0.28	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.74	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,2-Dibromoethane (EDB)	ND	1.0	0.30	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Dibromomethane	ND	2.0	0.32	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,2-Dichlorobenzene	ND	2.0	0.34	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,3-Dichlorobenzene	ND	2.0	0.34	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,4-Dichlorobenzene	ND	2.0	0.30	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	0.62	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.57	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,1-Dichloroethane	ND	2.0	0.32	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,2-Dichloroethane	ND	2.0	0.39	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,1-Dichloroethylene	ND	2.0	0.42	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
cis-1,2-Dichloroethylene	72	2.0	0.29	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
trans-1,2-Dichloroethylene	2.3	2.0	0.30	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,2-Dichloropropane	ND	2.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,3-Dichloropropane	ND	1.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
2,2-Dichloropropane	ND	2.0	0.43	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,1-Dichloropropene	ND	4.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
cis-1,3-Dichloropropene	ND	1.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
trans-1,3-Dichloropropene	ND	1.0	0.22	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Diethyl Ether	ND	4.0	0.44	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-07

Sampled: 5/22/2018 10:37

Sample ID: 18E1297-02

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	0.36	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,4-Dioxane	ND	200	53	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Ethylbenzene	ND	2.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Hexachlorobutadiene	ND	2.0	1.2	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
2-Hexanone (MBK)	ND	20	3.0	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Isopropylbenzene (Cumene)	ND	2.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
p-Isopropyltoluene (p-Cymene)	0.44	2.0	0.30	µg/L	2	J	SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Methyl Acetate	ND	2.0	0.84	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.18	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Methyl Cyclohexane	ND	2.0	1.3	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Methylene Chloride	ND	10	6.4	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	2.9	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Naphthalene	ND	4.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
n-Propylbenzene	0.42	2.0	0.26	µg/L	2	J	SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Styrene	ND	2.0	0.30	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	0.32	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Tetrachloroethylene	88	2.0	0.54	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Tetrahydrofuran	ND	20	2.1	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Toluene	ND	2.0	0.34	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,2,3-Trichlorobenzene	ND	10	0.28	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,2,4-Trichlorobenzene	ND	2.0	0.38	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,3,5-Trichlorobenzene	ND	2.0	0.34	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,1,1-Trichloroethane	ND	2.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,1,2-Trichloroethane	ND	2.0	0.47	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Trichloroethylene	61	2.0	0.40	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	0.29	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,2,3-Trichloropropane	ND	4.0	0.43	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.39	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,2,4-Trimethylbenzene	3.5	2.0	0.36	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
1,3,5-Trimethylbenzene	1.9	2.0	0.26	µg/L	2	J	SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Vinyl Chloride	ND	4.0	0.27	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
m+p Xylene	ND	4.0	0.51	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
o-Xylene	ND	2.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 15:19	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	93.0		70-130				6/4/18 15:19			
Toluene-d8	99.0		70-130				6/4/18 15:19			
4-Bromofluorobenzene	97.7		70-130				6/4/18 15:19			

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-07

Sampled: 5/22/2018 10:37

Sample ID: 18E1297-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.3	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Acenaphthylene	ND	5.3	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Acetophenone	ND	11	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Aniline	ND	5.3	2.6	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Anthracene	ND	5.3	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Benzidine	ND	21	10	µg/L	1	L-04, V-04, V-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Benzo(a)anthracene	ND	5.3	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Benzo(a)pyrene	ND	5.3	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Benzo(b)fluoranthene	ND	5.3	1.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Benzo(g,h,i)perylene	ND	5.3	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Benzo(k)fluoranthene	ND	5.3	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Benzoic Acid	ND	11	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Bis(2-chloroethoxy)methane	ND	11	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Bis(2-chloroethyl)ether	ND	11	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Bis(2-chloroisopropyl)ether	ND	11	2.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Bis(2-Ethylhexyl)phthalate	ND	11	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
4-Bromophenylphenylether	ND	11	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Butylbenzylphthalate	ND	11	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Carbazole	ND	11	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
4-Chloroaniline	ND	11	1.6	µg/L	1	V-34	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
4-Chloro-3-methylphenol	ND	11	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2-Chloronaphthalene	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2-Chlorophenol	ND	11	1.3	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
4-Chlorophenylphenylether	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Chrysene	ND	5.3	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Dibenz(a,h)anthracene	ND	5.3	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Dibenzofuran	ND	5.3	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Di-n-butylphthalate	ND	11	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
1,2-Dichlorobenzene	ND	5.3	1.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
1,3-Dichlorobenzene	ND	5.3	1.6	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
1,4-Dichlorobenzene	ND	5.3	1.6	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
3,3-Dichlorobenzidine	ND	11	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2,4-Dichlorophenol	ND	11	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Diethylphthalate	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2,4-Dimethylphenol	ND	11	3.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Dimethylphthalate	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
4,6-Dinitro-2-methylphenol	ND	11	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2,4-Dinitrophenol	ND	11	3.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2,4-Dinitrotoluene	ND	11	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2,6-Dinitrotoluene	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Di-n-octylphthalate	ND	11	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	11	2.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Fluoranthene	ND	5.3	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Fluorene	ND	5.3	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-07

Sampled: 5/22/2018 10:37

Sample ID: 18E1297-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Hexachlorobutadiene	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Hexachlorocyclopentadiene	ND	11	2.1	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Hexachloroethane	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Indeno(1,2,3-cd)pyrene	ND	5.3	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Isophorone	ND	11	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
1-Methylnaphthalene	ND	5.3	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2-Methylnaphthalene	ND	5.3	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2-Methylphenol	ND	11	1.5	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
3/4-Methylphenol	ND	11	1.2	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Naphthalene	ND	5.3	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2-Nitroaniline	ND	11	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
3-Nitroaniline	ND	11	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
4-Nitroaniline	ND	11	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Nitrobenzene	ND	11	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2-Nitrophenol	ND	11	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
4-Nitrophenol	ND	11	1.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
N-Nitrosodimethylamine	ND	11	1.6	µg/L	1	R-05, V-20	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
N-Nitrosodiphenylamine	ND	11	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
N-Nitrosodi-n-propylamine	ND	11	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Pentachloronitrobenzene	ND	11	1.8	µg/L	1	V-16	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Pentachlorophenol	ND	11	1.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Phenanthrene	ND	5.3	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Phenol	ND	11	1.1	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Pyrene	ND	5.3	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Pyridine	ND	5.3	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
1,2,4,5-Tetrachlorobenzene	ND	11	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
1,2,4-Trichlorobenzene	ND	5.3	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2,4,5-Trichlorophenol	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
2,4,6-Trichlorophenol	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:24	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	65.8		15-110				6/1/18 15:24			
Phenol-d6	49.1		15-110				6/1/18 15:24			
Nitrobenzene-d5	78.3		30-130				6/1/18 15:24			
2-Fluorobiphenyl	65.4		30-130				6/1/18 15:24			
2,4,6-Tribromophenol	91.1		15-110				6/1/18 15:24			
p-Terphenyl-d14	82.4		30-130				6/1/18 15:24			

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-07

Sampled: 5/22/2018 10:37

Sample ID: 18E1297-02

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	0.025	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Aldrin [1]	ND	0.050	0.017	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
alpha-BHC [1]	ND	0.050	0.0032	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
beta-BHC [1]	ND	0.050	0.024	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
delta-BHC [1]	ND	0.050	0.030	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
gamma-BHC (Lindane) [1]	ND	0.030	0.014	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Chlordane [1]	ND	0.20	0.12	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
4,4'-DDD [1]	ND	0.040	0.0018	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
4,4'-DDE [1]	ND	0.040	0.0016	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
4,4'-DDT [1]	ND	0.040	0.0024	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Dieldrin [1]	ND	0.0020	0.0020	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Endosulfan I [1]	ND	0.050	0.0021	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Endosulfan II [1]	ND	0.080	0.0029	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Endosulfan sulfate [1]	ND	0.080	0.0025	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Endrin [1]	ND	0.080	0.0017	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Endrin aldehyde [1]	ND	0.080	0.063	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Endrin ketone [1]	ND	0.080	0.0050	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Heptachlor [1]	ND	0.050	0.0046	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Heptachlor epoxide [1]	ND	0.050	0.0040	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Hexachlorobenzene [1]	ND	0.050	0.039	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Methoxychlor [1]	ND	0.50	0.0097	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Toxaphene [1]	ND	1.0	0.66	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:12	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	64.2		30-150				6/7/18 13:12			
Decachlorobiphenyl [2]	61.5		30-150				6/7/18 13:12			
Tetrachloro-m-xylene [1]	82.1		30-150				6/7/18 13:12			
Tetrachloro-m-xylene [2]	101		30-150				6/7/18 13:12			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-07

Sampled: 5/22/2018 10:37

Sample ID: 18E1297-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.18	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:54	KAL
Aroclor-1221 [1]	ND	0.20	0.16	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:54	KAL
Aroclor-1232 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:54	KAL
Aroclor-1242 [1]	ND	0.20	0.17	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:54	KAL
Aroclor-1248 [1]	ND	0.20	0.19	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:54	KAL
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:54	KAL
Aroclor-1260 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:54	KAL
Aroclor-1262 [1]	ND	0.20	0.14	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:54	KAL
Aroclor-1268 [1]	ND	0.20	0.13	µg/L	1		SW-846 8082A	5/25/18	6/6/18 13:54	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	75.9		30-150							
Decachlorobiphenyl [2]	68.0		30-150							
Tetrachloro-m-xylene [1]	84.7		30-150							
Tetrachloro-m-xylene [2]	85.5		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-07

Sampled: 5/22/2018 10:37

Sample ID: 18E1297-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.13	0.050	0.037	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Antimony	ND	0.050	0.031	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Arsenic	0.010	0.010	0.0080	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Barium	0.030	0.050	0.0053	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Beryllium	ND	0.0040	0.0017	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Cadmium	ND	0.0040	0.00090	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Calcium	120	0.15	0.11	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Chromium	ND	0.010	0.0061	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Cobalt	0.013	0.050	0.0080	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Copper	0.0079	0.010	0.0028	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Iron	6.9	0.050	0.040	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Magnesium	19	0.15	0.026	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Manganese	3.1	0.010	0.0020	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Mercury	0.00012	0.00010	0.000034	mg/L	1		SW-846 7470A	5/30/18	5/31/18 10:55	EJB
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Potassium	14	2.0	0.32	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Selenium	ND	0.050	0.034	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Silver	ND	0.0050	0.0049	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Sodium	20	2.0	0.28	mg/L	1		SW-846 6010C-D	6/6/18	6/8/18 12:35	QNW
Thallium	ND	0.050	0.040	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW
Vanadium	ND	0.010	0.0047	mg/L	1		SW-846 6010C-D	6/6/18	6/8/18 12:35	QNW
Zinc	0.010	0.020	0.0052	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 15:44	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-01

Sampled: 5/22/2018 17:01

Sample ID: 18E1297-03

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2500	480	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Acrylonitrile	ND	250	29	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
tert-Amyl Methyl Ether (TAME)	ND	25	5.3	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Benzene	ND	50	6.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Bromobenzene	ND	50	7.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Bromochloromethane	ND	50	11	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Bromodichloromethane	ND	25	15	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Bromoform	ND	50	10	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Bromomethane	ND	100	47	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
2-Butanone (MEK)	ND	1000	120	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
tert-Butyl Alcohol (TBA)	ND	1000	110	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
n-Butylbenzene	ND	50	7.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
sec-Butylbenzene	ND	50	6.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
tert-Butylbenzene	ND	50	6.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	25	4.8	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Carbon Disulfide	ND	200	51	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Carbon Tetrachloride	ND	250	12	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Chlorobenzene	ND	50	8.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Chlorodibromomethane	ND	25	5.2	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Chloroethane	ND	100	14	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Chloroform	ND	100	11	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Chloromethane	ND	100	28	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
2-Chlorotoluene	ND	50	6.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
4-Chlorotoluene	ND	50	7.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	18	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,2-Dibromoethane (EDB)	ND	25	7.4	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Dibromomethane	ND	50	8.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,2-Dichlorobenzene	ND	50	8.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,3-Dichlorobenzene	ND	50	8.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,4-Dichlorobenzene	ND	50	7.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
trans-1,4-Dichloro-2-butene	ND	100	16	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Dichlorodifluoromethane (Freon 12)	ND	100	14	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,1-Dichloroethane	ND	50	7.9	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,2-Dichloroethane	ND	50	9.7	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,1-Dichloroethylene	ND	50	10	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
cis-1,2-Dichloroethylene	240	50	7.4	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
trans-1,2-Dichloroethylene	ND	50	7.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,2-Dichloropropane	ND	50	6.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,3-Dichloropropane	ND	25	6.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
2,2-Dichloropropane	ND	50	11	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,1-Dichloropropene	ND	100	6.4	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
cis-1,3-Dichloropropene	ND	25	6.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
trans-1,3-Dichloropropene	ND	25	5.6	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Diethyl Ether	ND	100	11	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-01

Sampled: 5/22/2018 17:01

Sample ID: 18E1297-03

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	25	9.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,4-Dioxane	ND	5000	1300	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Ethylbenzene	ND	50	6.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Hexachlorobutadiene	ND	50	29	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
2-Hexanone (MBK)	ND	500	76	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Isopropylbenzene (Cumene)	ND	50	6.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
p-Isopropyltoluene (p-Cymene)	ND	50	7.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Methyl Acetate	ND	50	21	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Methyl tert-Butyl Ether (MTBE)	ND	50	4.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Methyl Cyclohexane	ND	50	32	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Methylene Chloride	ND	250	160	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
4-Methyl-2-pentanone (MIBK)	ND	500	73	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Naphthalene	ND	100	6.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
n-Propylbenzene	ND	50	6.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Styrene	ND	50	7.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,1,1,2-Tetrachloroethane	ND	50	6.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,1,2,2-Tetrachloroethane	ND	25	8.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Tetrachloroethylene	1700	50	14	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Tetrahydrofuran	ND	500	54	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Toluene	ND	50	8.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,2,3-Trichlorobenzene	ND	250	7.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,2,4-Trichlorobenzene	ND	50	9.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,3,5-Trichlorobenzene	ND	50	8.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,1,1-Trichloroethane	ND	50	6.6	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,1,2-Trichloroethane	ND	50	12	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Trichloroethylene	140	50	10	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Trichlorofluoromethane (Freon 11)	ND	100	7.4	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,2,3-Trichloropropane	ND	100	11	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	50	9.8	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,2,4-Trimethylbenzene	ND	50	9.0	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
1,3,5-Trimethylbenzene	ND	50	6.5	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Vinyl Chloride	ND	100	6.6	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
m+p Xylene	ND	100	13	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
o-Xylene	ND	50	6.6	µg/L	50		SW-846 8260C	6/4/18	6/4/18 17:53	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	92.8		70-130				6/4/18 17:53			
Toluene-d8	98.4		70-130				6/4/18 17:53			
4-Bromofluorobenzene	95.8		70-130				6/4/18 17:53			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-02

Sampled: 5/22/2018 17:10

Sample ID: 18E1297-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
cis-1,2-Dichloroethylene	1.8	1.0	0.15	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1	V-05	SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-02

Sampled: 5/22/2018 17:10

Sample ID: 18E1297-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,4-Dioxane	ND	100	26	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Hexachlorobutadiene	ND	1.0	0.59	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Naphthalene	ND	2.0	0.12	µg/L	1	V-05	SW-846 8260C	6/5/18	6/5/18 7:15	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Tetrachloroethylene	2.3	1.0	0.27	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Trichloroethylene	0.31	1.0	0.20	µg/L	1	J	SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/5/18	6/5/18 7:15	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	92.0		70-130				6/5/18 7:15			
Toluene-d8	98.5		70-130				6/5/18 7:15			
4-Bromofluorobenzene	95.8		70-130				6/5/18 7:15			

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-02

Sampled: 5/22/2018 17:10

Sample ID: 18E1297-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	15	4.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Acenaphthylene	ND	15	4.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Acetophenone	ND	29	5.0	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Aniline	ND	15	7.3	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Anthracene	ND	15	4.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Benzidine	ND	59	29	µg/L	1	L-04, V-04, V-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Benzo(a)anthracene	ND	15	4.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Benzo(a)pyrene	ND	15	4.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Benzo(b)fluoranthene	ND	15	3.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Benzo(g,h,i)perylene	ND	15	6.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Benzo(k)fluoranthene	ND	15	4.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Benzoic Acid	ND	29	5.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Bis(2-chloroethoxy)methane	ND	29	5.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Bis(2-chloroethyl)ether	ND	29	5.0	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Bis(2-chloroisopropyl)ether	ND	29	6.6	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Bis(2-Ethylhexyl)phthalate	ND	29	5.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
4-Bromophenylphenylether	ND	29	4.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Butylbenzylphthalate	ND	29	5.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Carbazole	ND	29	4.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
4-Chloroaniline	ND	29	4.4	µg/L	1	V-34	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
4-Chloro-3-methylphenol	ND	29	4.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2-Chloronaphthalene	ND	29	4.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2-Chlorophenol	ND	29	3.6	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
4-Chlorophenylphenylether	ND	29	4.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Chrysene	ND	15	4.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Dibenz(a,h)anthracene	ND	15	6.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Dibenzofuran	ND	15	4.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Di-n-butylphthalate	ND	29	5.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
1,2-Dichlorobenzene	ND	15	3.9	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
1,3-Dichlorobenzene	ND	15	4.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
1,4-Dichlorobenzene	ND	15	4.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
3,3-Dichlorobenzidine	ND	29	6.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2,4-Dichlorophenol	ND	29	4.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Diethylphthalate	ND	29	4.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2,4-Dimethylphenol	ND	29	11	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Dimethylphthalate	ND	29	4.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
4,6-Dinitro-2-methylphenol	ND	29	5.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2,4-Dinitrophenol	ND	29	9.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2,4-Dinitrotoluene	ND	29	5.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2,6-Dinitrotoluene	ND	29	4.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Di-n-octylphthalate	ND	29	6.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	29	7.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Fluoranthene	ND	15	5.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Fluorene	ND	15	4.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-02

Sampled: 5/22/2018 17:10

Sample ID: 18E1297-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	29	4.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Hexachlorobutadiene	ND	29	4.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Hexachlorocyclopentadiene	ND	29	5.7	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Hexachloroethane	ND	29	4.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Indeno(1,2,3-cd)pyrene	ND	15	6.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Isophorone	ND	29	5.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
1-Methylnaphthalene	ND	15	5.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2-Methylnaphthalene	ND	15	4.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2-Methylphenol	ND	29	4.1	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
3/4-Methylphenol	ND	29	3.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Naphthalene	ND	15	4.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2-Nitroaniline	ND	29	6.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
3-Nitroaniline	ND	29	5.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
4-Nitroaniline	ND	29	5.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Nitrobenzene	ND	29	4.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2-Nitrophenol	ND	29	4.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
4-Nitrophenol	ND	29	3.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
N-Nitrosodimethylamine	ND	29	4.5	µg/L	1	V-20, R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
N-Nitrosodiphenylamine	ND	29	5.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
N-Nitrosodi-n-propylamine	ND	29	5.0	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Pentachloronitrobenzene	ND	29	4.9	µg/L	1	V-16	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Pentachlorophenol	ND	29	3.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Phenanthrene	ND	15	4.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Phenol	ND	29	3.0	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Pyrene	ND	15	4.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Pyridine	ND	15	6.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
1,2,4,5-Tetrachlorobenzene	ND	29	4.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
1,2,4-Trichlorobenzene	ND	15	4.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2,4,5-Trichlorophenol	ND	29	4.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
2,4,6-Trichlorophenol	ND	29	4.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 15:52	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	90.3		15-110				6/1/18 15:52			
Phenol-d6	84.5		15-110				6/1/18 15:52			
Nitrobenzene-d5	83.1		30-130				6/1/18 15:52			
2-Fluorobiphenyl	71.9		30-130				6/1/18 15:52			
2,4,6-Tribromophenol	98.4		15-110				6/1/18 15:52			
p-Terphenyl-d14	90.3		30-130				6/1/18 15:52			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-04

Sampled: 5/22/2018 17:18

Sample ID: 18E1297-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
cis-1,2-Dichloroethylene	12	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-04

Sampled: 5/22/2018 17:18

Sample ID: 18E1297-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,4-Dioxane	ND	100	26	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Hexachlorobutadiene	ND	1.0	0.59	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Tetrachloroethylene	16	1.0	0.27	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Toluene	0.33	1.0	0.17	µg/L	1	J	SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Trichloroethylene	0.98	1.0	0.20	µg/L	1	J	SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 16:52	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	92.5		70-130				6/4/18 16:52			
Toluene-d8	97.9		70-130				6/4/18 16:52			
4-Bromofluorobenzene	96.1		70-130				6/4/18 16:52			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-04

Sampled: 5/22/2018 17:18

Sample ID: 18E1297-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	6.1	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Acenaphthylene	ND	6.1	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Acetophenone	ND	12	2.1	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Aniline	ND	6.1	3.0	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Anthracene	ND	6.1	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Benzidine	ND	24	12	µg/L	1	V-04, V-05, L-04	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Benzo(a)anthracene	ND	6.1	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Benzo(a)pyrene	ND	6.1	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Benzo(b)fluoranthene	ND	6.1	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Benzo(g,h,i)perylene	ND	6.1	2.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Benzo(k)fluoranthene	ND	6.1	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Benzoic Acid	ND	12	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Bis(2-chloroethoxy)methane	ND	12	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Bis(2-chloroethyl)ether	ND	12	2.1	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Bis(2-chloroisopropyl)ether	ND	12	2.7	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Bis(2-Ethylhexyl)phthalate	ND	12	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
4-Bromophenylphenylether	ND	12	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Butylbenzylphthalate	ND	12	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Carbazole	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
4-Chloroaniline	ND	12	1.8	µg/L	1	V-34	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
4-Chloro-3-methylphenol	ND	12	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2-Chloronaphthalene	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2-Chlorophenol	ND	12	1.5	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
4-Chlorophenylphenylether	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Chrysene	ND	6.1	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Dibenz(a,h)anthracene	ND	6.1	2.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Dibenzofuran	ND	6.1	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Di-n-butylphthalate	ND	12	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
1,2-Dichlorobenzene	ND	6.1	1.6	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
1,3-Dichlorobenzene	ND	6.1	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
1,4-Dichlorobenzene	ND	6.1	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
3,3-Dichlorobenzidine	ND	12	2.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2,4-Dichlorophenol	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Diethylphthalate	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2,4-Dimethylphenol	ND	12	4.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Dimethylphthalate	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
4,6-Dinitro-2-methylphenol	ND	12	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2,4-Dinitrophenol	ND	12	4.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2,4-Dinitrotoluene	ND	12	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2,6-Dinitrotoluene	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Di-n-octylphthalate	ND	12	2.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	12	3.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Fluoranthene	ND	6.1	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Fluorene	ND	6.1	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-04

Sampled: 5/22/2018 17:18

Sample ID: 18E1297-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Hexachlorobutadiene	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Hexachlorocyclopentadiene	ND	12	2.4	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Hexachloroethane	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Indeno(1,2,3-cd)pyrene	ND	6.1	2.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Isophorone	ND	12	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
1-Methylnaphthalene	ND	6.1	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2-Methylnaphthalene	ND	6.1	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2-Methylphenol	ND	12	1.7	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
3/4-Methylphenol	ND	12	1.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Naphthalene	ND	6.1	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2-Nitroaniline	ND	12	2.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
3-Nitroaniline	ND	12	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
4-Nitroaniline	ND	12	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Nitrobenzene	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2-Nitrophenol	ND	12	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
4-Nitrophenol	ND	12	1.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
N-Nitrosodimethylamine	ND	12	1.9	µg/L	1	R-05, V-20	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
N-Nitrosodiphenylamine	ND	12	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
N-Nitrosodi-n-propylamine	ND	12	2.1	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Pentachloronitrobenzene	ND	12	2.0	µg/L	1	V-16	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Pentachlorophenol	ND	12	1.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Phenanthrene	ND	6.1	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Phenol	ND	12	1.2	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Pyrene	ND	6.1	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Pyridine	ND	6.1	2.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
1,2,4,5-Tetrachlorobenzene	ND	12	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
1,2,4-Trichlorobenzene	ND	6.1	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2,4,5-Trichlorophenol	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
2,4,6-Trichlorophenol	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:20	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	76.3		15-110				6/1/18 16:20			
Phenol-d6	55.5		15-110				6/1/18 16:20			
Nitrobenzene-d5	88.1		30-130				6/1/18 16:20			
2-Fluorobiphenyl	75.5		30-130				6/1/18 16:20			
2,4,6-Tribromophenol	99.8		15-110				6/1/18 16:20			
p-Terphenyl-d14	92.3		30-130				6/1/18 16:20			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-03

Sampled: 5/22/2018 17:30

Sample ID: 18E1297-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
cis-1,2-Dichloroethylene	0.97	1.0	0.15	µg/L	1	J	SW-846 8260C	6/4/18	6/4/18 17:23	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-03

Sampled: 5/22/2018 17:30

Sample ID: 18E1297-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,4-Dioxane	ND	100	26	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Hexachlorobutadiene	ND	1.0	0.59	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Tetrachloroethylene	13	1.0	0.27	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Trichloroethylene	0.68	1.0	0.20	µg/L	1	J	SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 17:23	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	93.7		70-130				6/4/18 17:23			
Toluene-d8	99.8		70-130				6/4/18 17:23			
4-Bromofluorobenzene	97.2		70-130				6/4/18 17:23			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-03

Sampled: 5/22/2018 17:30

Sample ID: 18E1297-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.3	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Acenaphthylene	ND	5.3	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Acetophenone	ND	11	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Aniline	ND	5.3	2.6	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Anthracene	ND	5.3	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Benzidine	ND	21	10	µg/L	1	L-04, V-04, V-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Benzo(a)anthracene	ND	5.3	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Benzo(a)pyrene	ND	5.3	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Benzo(b)fluoranthene	ND	5.3	1.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Benzo(g,h,i)perylene	ND	5.3	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Benzo(k)fluoranthene	ND	5.3	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Benzoic Acid	ND	11	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Bis(2-chloroethoxy)methane	ND	11	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Bis(2-chloroethyl)ether	ND	11	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Bis(2-chloroisopropyl)ether	ND	11	2.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Bis(2-Ethylhexyl)phthalate	ND	11	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
4-Bromophenylphenylether	ND	11	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Butylbenzylphthalate	ND	11	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Carbazole	ND	11	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
4-Chloroaniline	ND	11	1.6	µg/L	1	V-34	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
4-Chloro-3-methylphenol	ND	11	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2-Chloronaphthalene	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2-Chlorophenol	ND	11	1.3	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
4-Chlorophenylphenylether	ND	11	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Chrysene	ND	5.3	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Dibenz(a,h)anthracene	ND	5.3	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Dibenzofuran	ND	5.3	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Di-n-butylphthalate	ND	11	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
1,2-Dichlorobenzene	ND	5.3	1.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
1,3-Dichlorobenzene	ND	5.3	1.6	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
1,4-Dichlorobenzene	ND	5.3	1.6	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
3,3-Dichlorobenzidine	ND	11	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2,4-Dichlorophenol	ND	11	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Diethylphthalate	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2,4-Dimethylphenol	ND	11	3.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Dimethylphthalate	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
4,6-Dinitro-2-methylphenol	ND	11	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2,4-Dinitrophenol	ND	11	3.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2,4-Dinitrotoluene	ND	11	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2,6-Dinitrotoluene	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Di-n-octylphthalate	ND	11	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	11	2.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Fluoranthene	ND	5.3	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Fluorene	ND	5.3	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-03

Sampled: 5/22/2018 17:30

Sample ID: 18E1297-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Hexachlorobutadiene	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Hexachlorocyclopentadiene	ND	11	2.0	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Hexachloroethane	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Indeno(1,2,3-cd)pyrene	ND	5.3	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Isophorone	ND	11	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
1-Methylnaphthalene	ND	5.3	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2-Methylnaphthalene	ND	5.3	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2-Methylphenol	ND	11	1.5	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
3/4-Methylphenol	ND	11	1.2	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Naphthalene	ND	5.3	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2-Nitroaniline	ND	11	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
3-Nitroaniline	ND	11	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
4-Nitroaniline	ND	11	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Nitrobenzene	ND	11	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2-Nitrophenol	ND	11	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
4-Nitrophenol	ND	11	1.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
N-Nitrosodimethylamine	ND	11	1.6	µg/L	1	R-05, V-20	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
N-Nitrosodiphenylamine	ND	11	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
N-Nitrosodi-n-propylamine	ND	11	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Pentachloronitrobenzene	ND	11	1.8	µg/L	1	V-16	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Pentachlorophenol	ND	11	1.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Phenanthrene	ND	5.3	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Phenol	ND	11	1.1	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Pyrene	ND	5.3	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Pyridine	ND	5.3	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
1,2,4,5-Tetrachlorobenzene	ND	11	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
1,2,4-Trichlorobenzene	ND	5.3	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2,4,5-Trichlorophenol	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
2,4,6-Trichlorophenol	ND	11	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 16:48	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	61.6		15-110				6/1/18 16:48			
Phenol-d6	43.4		15-110				6/1/18 16:48			
Nitrobenzene-d5	76.8		30-130				6/1/18 16:48			
2-Fluorobiphenyl	65.9		30-130				6/1/18 16:48			
2,4,6-Tribromophenol	89.5		15-110				6/1/18 16:48			
p-Terphenyl-d14	84.8		30-130				6/1/18 16:48			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-03

Sampled: 5/22/2018 17:30

Sample ID: 18E1297-06

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	0.025	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Aldrin [1]	ND	0.050	0.017	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
alpha-BHC [1]	ND	0.050	0.0032	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
beta-BHC [1]	ND	0.050	0.024	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
delta-BHC [1]	ND	0.050	0.030	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
gamma-BHC (Lindane) [1]	ND	0.030	0.014	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Chlordane [1]	ND	0.20	0.12	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
4,4'-DDD [1]	ND	0.040	0.0018	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
4,4'-DDE [1]	ND	0.040	0.0016	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
4,4'-DDT [1]	ND	0.040	0.0024	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Dieldrin [1]	ND	0.0020	0.0020	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Endosulfan I [1]	ND	0.050	0.0021	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Endosulfan II [1]	ND	0.080	0.0029	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Endosulfan sulfate [1]	ND	0.080	0.0025	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Endrin [1]	ND	0.080	0.0017	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Endrin aldehyde [1]	ND	0.080	0.063	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Endrin ketone [1]	ND	0.080	0.0050	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Heptachlor [1]	ND	0.050	0.0046	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Heptachlor epoxide [1]	ND	0.050	0.0040	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Hexachlorobenzene [1]	ND	0.050	0.039	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Methoxychlor [1]	ND	0.50	0.0097	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Toxaphene [1]	ND	1.0	0.66	µg/L	1		SW-846 8081B	5/25/18	6/7/18 13:39	TG
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
Decachlorobiphenyl [1]	83.9	30-150								
Decachlorobiphenyl [2]	78.9	30-150								
Tetrachloro-m-xylene [1]	81.8	30-150								
Tetrachloro-m-xylene [2]	94.6	30-150								

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-03

Sampled: 5/22/2018 17:30

Sample ID: 18E1297-06

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.18	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:07	KAL
Aroclor-1221 [1]	ND	0.20	0.16	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:07	KAL
Aroclor-1232 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:07	KAL
Aroclor-1242 [1]	ND	0.20	0.17	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:07	KAL
Aroclor-1248 [1]	ND	0.20	0.19	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:07	KAL
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:07	KAL
Aroclor-1260 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:07	KAL
Aroclor-1262 [1]	ND	0.20	0.14	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:07	KAL
Aroclor-1268 [1]	ND	0.20	0.13	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:07	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	99.3		30-150							
Decachlorobiphenyl [2]	89.8		30-150							
Tetrachloro-m-xylene [1]	85.6		30-150							
Tetrachloro-m-xylene [2]	86.5		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-03

Sampled: 5/22/2018 17:30

Sample ID: 18E1297-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	0.098	0.050	0.037	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Antimony	ND	0.050	0.031	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Arsenic	ND	0.010	0.0080	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Barium	0.020	0.050	0.0053	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Beryllium	ND	0.0040	0.0017	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Cadmium	ND	0.0040	0.00090	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Calcium	19	0.15	0.11	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Chromium	ND	0.010	0.0061	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Cobalt	ND	0.050	0.0080	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Copper	0.0065	0.010	0.0028	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Iron	0.14	0.050	0.040	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Magnesium	1.8	0.15	0.026	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Manganese	0.032	0.010	0.0020	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	5/30/18	5/31/18 10:56	EJB
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Potassium	3.9	2.0	0.32	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Selenium	ND	0.050	0.034	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Silver	ND	0.0050	0.0049	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Sodium	3.6	2.0	0.28	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Thallium	ND	0.050	0.040	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW
Vanadium	ND	0.010	0.0047	mg/L	1		SW-846 6010C-D	6/6/18	6/8/18 12:41	QNW
Zinc	0.0062	0.020	0.0052	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 15:49	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-06

Sampled: 5/22/2018 16:25

Sample ID: 18E1297-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5000	970	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Acrylonitrile	ND	500	58	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
tert-Amyl Methyl Ether (TAME)	ND	50	11	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Benzene	ND	100	12	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Bromobenzene	ND	100	15	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Bromochloromethane	ND	100	22	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Bromodichloromethane	ND	50	30	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Bromoform	ND	100	21	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Bromomethane	ND	200	94	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
2-Butanone (MEK)	ND	2000	240	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
tert-Butyl Alcohol (TBA)	ND	2000	220	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
n-Butylbenzene	ND	100	15	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
sec-Butylbenzene	ND	100	13	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
tert-Butylbenzene	ND	100	12	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	50	9.5	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Carbon Disulfide	ND	400	100	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Carbon Tetrachloride	ND	500	25	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Chlorobenzene	ND	100	16	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Chlorodibromomethane	ND	50	10	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Chloroethane	ND	200	28	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Chloroform	ND	200	22	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Chloromethane	ND	200	55	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
2-Chlorotoluene	ND	100	12	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
4-Chlorotoluene	ND	100	14	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	500	37	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,2-Dibromoethane (EDB)	ND	50	15	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Dibromomethane	ND	100	16	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,2-Dichlorobenzene	ND	100	17	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,3-Dichlorobenzene	ND	100	17	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,4-Dichlorobenzene	ND	100	15	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
trans-1,4-Dichloro-2-butene	ND	200	31	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Dichlorodifluoromethane (Freon 12)	ND	200	28	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,1-Dichloroethane	ND	100	16	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,2-Dichloroethane	ND	100	19	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,1-Dichloroethylene	ND	100	21	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
cis-1,2-Dichloroethylene	13000	100	15	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
trans-1,2-Dichloroethylene	ND	100	15	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,2-Dichloropropane	ND	100	13	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,3-Dichloropropane	ND	50	13	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
2,2-Dichloropropane	ND	100	21	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,1-Dichloropropene	ND	200	13	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
cis-1,3-Dichloropropene	ND	50	12	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
trans-1,3-Dichloropropene	ND	50	11	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Diethyl Ether	ND	200	22	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-06

Sampled: 5/22/2018 16:25

Sample ID: 18E1297-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	50	18	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,4-Dioxane	ND	10000	2600	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Ethylbenzene	ND	100	13	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Hexachlorobutadiene	ND	100	59	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
2-Hexanone (MBK)	ND	1000	150	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Isopropylbenzene (Cumene)	ND	100	12	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
p-Isopropyltoluene (p-Cymene)	ND	100	15	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Methyl Acetate	ND	100	42	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Methyl tert-Butyl Ether (MTBE)	ND	100	9.0	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Methyl Cyclohexane	ND	100	63	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Methylene Chloride	ND	500	320	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
4-Methyl-2-pentanone (MIBK)	ND	1000	150	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Naphthalene	ND	200	12	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
n-Propylbenzene	ND	100	13	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Styrene	ND	100	15	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,1,1,2-Tetrachloroethane	ND	100	12	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,1,2,2-Tetrachloroethane	ND	50	16	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Tetrachloroethylene	ND	100	27	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Tetrahydrofuran	ND	1000	110	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Toluene	ND	100	17	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,2,3-Trichlorobenzene	ND	500	14	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,2,4-Trichlorobenzene	ND	100	19	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,3,5-Trichlorobenzene	ND	100	17	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,1,1-Trichloroethane	ND	100	13	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,1,2-Trichloroethane	ND	100	24	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Trichloroethylene	150	100	20	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Trichlorofluoromethane (Freon 11)	ND	200	15	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,2,3-Trichloropropane	ND	200	22	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	100	20	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,2,4-Trimethylbenzene	ND	100	18	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
1,3,5-Trimethylbenzene	ND	100	13	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Vinyl Chloride	51	200	13	µg/L	100	J	SW-846 8260C	6/4/18	6/4/18 18:55	LBD
m+p Xylene	ND	200	26	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
o-Xylene	ND	100	13	µg/L	100		SW-846 8260C	6/4/18	6/4/18 18:55	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	92.2		70-130				6/4/18 18:55			
Toluene-d8	98.4		70-130				6/4/18 18:55			
4-Bromofluorobenzene	97.0		70-130				6/4/18 18:55			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-06

Sampled: 5/22/2018 16:25

Sample ID: 18E1297-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	6.2	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Acenaphthylene	ND	6.2	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Acetophenone	ND	12	2.1	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Aniline	ND	6.2	3.1	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Anthracene	ND	6.2	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Benzidine	ND	25	12	µg/L	1	V-05, L-04, V-04	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Benzo(a)anthracene	ND	6.2	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Benzo(a)pyrene	ND	6.2	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Benzo(b)fluoranthene	ND	6.2	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Benzo(g,h,i)perylene	ND	6.2	2.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Benzo(k)fluoranthene	ND	6.2	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Benzoic Acid	ND	12	2.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Bis(2-chloroethoxy)methane	ND	12	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Bis(2-chloroethyl)ether	ND	12	2.1	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Bis(2-chloroisopropyl)ether	ND	12	2.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Bis(2-Ethylhexyl)phthalate	ND	12	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
4-Bromophenylphenylether	ND	12	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Butylbenzylphthalate	ND	12	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Carbazole	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
4-Chloroaniline	ND	12	1.9	µg/L	1	V-34	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
4-Chloro-3-methylphenol	ND	12	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2-Chloronaphthalene	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2-Chlorophenol	ND	12	1.5	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
4-Chlorophenylphenylether	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Chrysene	ND	6.2	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Dibenz(a,h)anthracene	ND	6.2	2.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Dibenzofuran	ND	6.2	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Di-n-butylphthalate	ND	12	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
1,2-Dichlorobenzene	ND	6.2	1.6	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
1,3-Dichlorobenzene	ND	6.2	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
1,4-Dichlorobenzene	ND	6.2	1.8	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
3,3-Dichlorobenzidine	ND	12	2.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2,4-Dichlorophenol	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Diethylphthalate	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2,4-Dimethylphenol	ND	12	4.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Dimethylphthalate	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
4,6-Dinitro-2-methylphenol	ND	12	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2,4-Dinitrophenol	ND	12	4.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2,4-Dinitrotoluene	ND	12	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2,6-Dinitrotoluene	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Di-n-octylphthalate	ND	12	2.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	12	3.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Fluoranthene	ND	6.2	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Fluorene	ND	6.2	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-06

Sampled: 5/22/2018 16:25

Sample ID: 18E1297-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Hexachlorobutadiene	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Hexachlorocyclopentadiene	ND	12	2.4	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Hexachloroethane	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Indeno(1,2,3-cd)pyrene	ND	6.2	2.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Isophorone	ND	12	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
1-Methylnaphthalene	ND	6.2	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2-Methylnaphthalene	ND	6.2	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2-Methylphenol	ND	12	1.7	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
3/4-Methylphenol	ND	12	1.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Naphthalene	ND	6.2	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2-Nitroaniline	ND	12	2.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
3-Nitroaniline	ND	12	2.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
4-Nitroaniline	ND	12	2.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Nitrobenzene	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2-Nitrophenol	ND	12	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
4-Nitrophenol	ND	12	1.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
N-Nitrosodimethylamine	ND	12	1.9	µg/L	1	R-05, V-20	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
N-Nitrosodiphenylamine	ND	12	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
N-Nitrosodi-n-propylamine	ND	12	2.1	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Pentachloronitrobenzene	ND	12	2.1	µg/L	1	V-16	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Pentachlorophenol	ND	12	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Phenanthrene	ND	6.2	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Phenol	ND	12	1.2	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Pyrene	ND	6.2	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Pyridine	ND	6.2	2.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
1,2,4,5-Tetrachlorobenzene	ND	12	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
1,2,4-Trichlorobenzene	ND	6.2	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2,4,5-Trichlorophenol	ND	12	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
2,4,6-Trichlorophenol	ND	12	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:16	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	53.5		15-110				6/1/18 17:16			
Phenol-d6	43.5		15-110				6/1/18 17:16			
Nitrobenzene-d5	71.8		30-130				6/1/18 17:16			
2-Fluorobiphenyl	60.9		30-130				6/1/18 17:16			
2,4,6-Tribromophenol	82.5		15-110				6/1/18 17:16			
p-Terphenyl-d14	76.8		30-130				6/1/18 17:16			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-06

Sampled: 5/22/2018 16:25

Sample ID: 18E1297-07

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	0.025	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Aldrin [1]	ND	0.050	0.017	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
alpha-BHC [1]	ND	0.050	0.0032	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
beta-BHC [1]	ND	0.050	0.024	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
delta-BHC [1]	ND	0.050	0.030	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
gamma-BHC (Lindane) [1]	ND	0.030	0.014	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Chlordane [1]	ND	0.20	0.12	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
4,4'-DDD [1]	ND	0.040	0.0018	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
4,4'-DDE [2]	0.0055	0.040	0.0016	µg/L	1	J	SW-846 8081B	5/25/18	6/7/18 14:06	TG
4,4'-DDT [2]	0.016	0.040	0.0024	µg/L	1	J	SW-846 8081B	5/25/18	6/7/18 14:06	TG
Dieldrin [1]	ND	0.0020	0.0020	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Endosulfan I [1]	ND	0.050	0.0021	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Endosulfan II [1]	ND	0.080	0.0029	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Endosulfan sulfate [1]	ND	0.080	0.0025	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Endrin [1]	ND	0.080	0.0017	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Endrin aldehyde [1]	ND	0.080	0.063	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Endrin ketone [1]	ND	0.080	0.0050	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Heptachlor [1]	ND	0.050	0.0046	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Heptachlor epoxide [1]	ND	0.050	0.0040	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Hexachlorobenzene [1]	ND	0.050	0.039	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Methoxychlor [1]	ND	0.50	0.0097	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Toxaphene [1]	ND	1.0	0.66	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:06	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	49.8		30-150				6/7/18 14:06			
Decachlorobiphenyl [2]	50.6		30-150				6/7/18 14:06			
Tetrachloro-m-xylene [1]	43.1		30-150				6/7/18 14:06			
Tetrachloro-m-xylene [2]	49.9		30-150				6/7/18 14:06			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-06

Sampled: 5/22/2018 16:25

Sample ID: 18E1297-07

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.18	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:19	KAL
Aroclor-1221 [1]	ND	0.20	0.16	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:19	KAL
Aroclor-1232 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:19	KAL
Aroclor-1242 [1]	ND	0.20	0.17	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:19	KAL
Aroclor-1248 [1]	ND	0.20	0.19	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:19	KAL
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:19	KAL
Aroclor-1260 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:19	KAL
Aroclor-1262 [1]	ND	0.20	0.14	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:19	KAL
Aroclor-1268 [1]	ND	0.20	0.13	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:19	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	63.5		30-150							
Decachlorobiphenyl [2]	56.6		30-150							
Tetrachloro-m-xylene [1]	45.8		30-150							
Tetrachloro-m-xylene [2]	45.7		30-150							

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-06

Sampled: 5/22/2018 16:25

Sample ID: 18E1297-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	2.7	0.050	0.037	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Antimony	ND	0.050	0.031	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Arsenic	ND	0.010	0.0080	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Barium	0.25	0.050	0.0053	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Beryllium	ND	0.0040	0.0017	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Cadmium	ND	0.0040	0.00090	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Calcium	100	0.15	0.11	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Chromium	ND	0.010	0.0061	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Cobalt	0.0091	0.050	0.0080	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Copper	0.0085	0.010	0.0028	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Iron	3.2	0.050	0.040	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Magnesium	67	0.15	0.026	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Manganese	7.1	0.010	0.0020	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Mercury	ND	0.00010	0.000034	mg/L	1		SW-846 7470A	5/30/18	5/31/18 10:58	EJB
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Potassium	4.5	2.0	0.32	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Selenium	ND	0.050	0.034	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Silver	ND	0.0050	0.0049	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Sodium	67	20	2.8	mg/L	10		SW-846 6010C-D	6/6/18	6/7/18 19:46	QNW
Thallium	ND	0.050	0.040	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW
Vanadium	0.010	0.010	0.0047	mg/L	1		SW-846 6010C-D	6/6/18	6/8/18 12:46	QNW
Zinc	0.0096	0.020	0.0052	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 15:55	QNW

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

Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-FD

Sampled: 5/22/2018 00:00

Sample ID: 18E1297-08

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	100	19	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Acrylonitrile	ND	10	1.2	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
tert-Amyl Methyl Ether (TAME)	ND	1.0	0.21	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Benzene	ND	2.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Bromobenzene	ND	2.0	0.30	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Bromochloromethane	ND	2.0	0.45	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Bromodichloromethane	ND	1.0	0.59	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Bromoform	ND	2.0	0.42	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Bromomethane	ND	4.0	1.9	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
2-Butanone (MEK)	ND	40	4.7	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
tert-Butyl Alcohol (TBA)	ND	40	4.3	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
n-Butylbenzene	0.52	2.0	0.30	µg/L	2	J	SW-846 8260C	6/4/18	6/4/18 19:26	LBD
sec-Butylbenzene	ND	2.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
tert-Butylbenzene	ND	2.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	1.0	0.19	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Carbon Disulfide	ND	8.0	2.0	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Carbon Tetrachloride	ND	10	0.49	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Chlorobenzene	ND	2.0	0.32	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Chlorodibromomethane	ND	1.0	0.21	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Chloroethane	ND	4.0	0.56	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Chloroform	ND	4.0	0.44	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Chloromethane	ND	4.0	1.1	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
2-Chlorotoluene	ND	2.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
4-Chlorotoluene	ND	2.0	0.28	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	10	0.74	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,2-Dibromoethane (EDB)	ND	1.0	0.30	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Dibromomethane	ND	2.0	0.32	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,2-Dichlorobenzene	ND	2.0	0.34	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,3-Dichlorobenzene	ND	2.0	0.34	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,4-Dichlorobenzene	ND	2.0	0.30	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
trans-1,4-Dichloro-2-butene	ND	4.0	0.62	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Dichlorodifluoromethane (Freon 12)	ND	4.0	0.57	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,1-Dichloroethane	ND	2.0	0.32	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,2-Dichloroethane	ND	2.0	0.39	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,1-Dichloroethylene	ND	2.0	0.42	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
cis-1,2-Dichloroethylene	86	2.0	0.29	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
trans-1,2-Dichloroethylene	2.6	2.0	0.30	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,2-Dichloropropane	ND	2.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,3-Dichloropropane	ND	1.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
2,2-Dichloropropane	ND	2.0	0.43	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,1-Dichloropropene	ND	4.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
cis-1,3-Dichloropropene	ND	1.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
trans-1,3-Dichloropropene	ND	1.0	0.22	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Diethyl Ether	ND	4.0	0.44	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-FD

Sampled: 5/22/2018 00:00

Sample ID: 18E1297-08

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.0	0.36	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,4-Dioxane	ND	200	53	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Ethylbenzene	ND	2.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Hexachlorobutadiene	ND	2.0	1.2	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
2-Hexanone (MBK)	ND	20	3.0	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Isopropylbenzene (Cumene)	0.24	2.0	0.24	µg/L	2	J	SW-846 8260C	6/4/18	6/4/18 19:26	LBD
p-Isopropyltoluene (p-Cymene)	0.46	2.0	0.30	µg/L	2	J	SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Methyl Acetate	ND	2.0	0.84	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Methyl tert-Butyl Ether (MTBE)	ND	2.0	0.18	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Methyl Cyclohexane	ND	2.0	1.3	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Methylene Chloride	ND	10	6.4	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
4-Methyl-2-pentanone (MIBK)	ND	20	2.9	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Naphthalene	ND	4.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
n-Propylbenzene	0.48	2.0	0.26	µg/L	2	J	SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Styrene	ND	2.0	0.30	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,1,1,2-Tetrachloroethane	ND	2.0	0.24	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,1,2,2-Tetrachloroethane	ND	1.0	0.32	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Tetrachloroethylene	99	2.0	0.54	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Tetrahydrofuran	ND	20	2.1	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Toluene	ND	2.0	0.34	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,2,3-Trichlorobenzene	ND	10	0.28	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,2,4-Trichlorobenzene	ND	2.0	0.38	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,3,5-Trichlorobenzene	ND	2.0	0.34	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,1,1-Trichloroethane	ND	2.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,1,2-Trichloroethane	ND	2.0	0.47	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Trichloroethylene	74	2.0	0.40	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Trichlorofluoromethane (Freon 11)	ND	4.0	0.29	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,2,3-Trichloropropane	ND	4.0	0.43	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.0	0.39	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,2,4-Trimethylbenzene	4.0	2.0	0.36	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
1,3,5-Trimethylbenzene	2.2	2.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Vinyl Chloride	ND	4.0	0.27	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
m+p Xylene	ND	4.0	0.51	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
o-Xylene	ND	2.0	0.26	µg/L	2		SW-846 8260C	6/4/18	6/4/18 19:26	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	92.6		70-130				6/4/18 19:26			
Toluene-d8	97.2		70-130				6/4/18 19:26			
4-Bromofluorobenzene	96.6		70-130				6/4/18 19:26			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-FD

Sampled: 5/22/2018 00:00

Sample ID: 18E1297-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.1	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Acenaphthylene	ND	5.1	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Acetophenone	ND	10	1.7	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Aniline	ND	5.1	2.5	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Anthracene	ND	5.1	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Benzidine	ND	20	9.9	µg/L	1	L-04, V-04, V-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Benzo(a)anthracene	ND	5.1	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Benzo(a)pyrene	ND	5.1	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Benzo(b)fluoranthene	ND	5.1	1.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Benzo(g,h,i)perylene	ND	5.1	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Benzo(k)fluoranthene	ND	5.1	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Benzoic Acid	ND	10	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Bis(2-chloroethoxy)methane	ND	10	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Bis(2-chloroethyl)ether	ND	10	1.7	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Bis(2-chloroisopropyl)ether	ND	10	2.3	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Bis(2-Ethylhexyl)phthalate	ND	10	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
4-Bromophenylphenylether	ND	10	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Butylbenzylphthalate	ND	10	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Carbazole	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
4-Chloroaniline	ND	10	1.5	µg/L	1	V-34	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
4-Chloro-3-methylphenol	ND	10	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2-Chloronaphthalene	ND	10	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2-Chlorophenol	ND	10	1.3	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
4-Chlorophenylphenylether	ND	10	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Chrysene	ND	5.1	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Dibenz(a,h)anthracene	ND	5.1	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Dibenzofuran	ND	5.1	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Di-n-butylphthalate	ND	10	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
1,2-Dichlorobenzene	ND	5.1	1.3	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
1,3-Dichlorobenzene	ND	5.1	1.5	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
1,4-Dichlorobenzene	ND	5.1	1.5	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
3,3-Dichlorobenzidine	ND	10	2.3	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2,4-Dichlorophenol	ND	10	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Diethylphthalate	ND	10	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2,4-Dimethylphenol	ND	10	3.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Dimethylphthalate	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
4,6-Dinitro-2-methylphenol	ND	10	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2,4-Dinitrophenol	ND	10	3.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2,4-Dinitrotoluene	ND	10	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2,6-Dinitrotoluene	ND	10	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Di-n-octylphthalate	ND	10	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	2.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Fluoranthene	ND	5.1	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Fluorene	ND	5.1	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-FD

Sampled: 5/22/2018 00:00

Sample ID: 18E1297-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobenzene	ND	10	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Hexachlorobutadiene	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Hexachlorocyclopentadiene	ND	10	2.0	µg/L	1	V-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Hexachloroethane	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Indeno(1,2,3-cd)pyrene	ND	5.1	2.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Isophorone	ND	10	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
1-Methylnaphthalene	ND	5.1	1.8	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2-Methylnaphthalene	ND	5.1	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2-Methylphenol	ND	10	1.4	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
3/4-Methylphenol	ND	10	1.2	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Naphthalene	ND	5.1	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2-Nitroaniline	ND	10	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
3-Nitroaniline	ND	10	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
4-Nitroaniline	ND	10	2.0	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Nitrobenzene	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2-Nitrophenol	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
4-Nitrophenol	ND	10	1.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
N-Nitrosodimethylamine	ND	10	1.6	µg/L	1	R-05, V-20	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
N-Nitrosodi-n-propylamine	ND	10	1.7	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Pentachloronitrobenzene	ND	10	1.7	µg/L	1	V-16	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Pentachlorophenol	ND	10	1.1	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Phenanthrene	ND	5.1	1.4	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Phenol	ND	10	1.0	µg/L	1	R-05	SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Pyrene	ND	5.1	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Pyridine	ND	5.1	2.2	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
1,2,4,5-Tetrachlorobenzene	ND	10	1.7	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
1,2,4-Trichlorobenzene	ND	5.1	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2,4,5-Trichlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
2,4,6-Trichlorophenol	ND	10	1.5	µg/L	1		SW-846 8270D	5/27/18	6/1/18 17:44	CDT
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
2-Fluorophenol	49.8		15-110				6/1/18 17:44			
Phenol-d6	36.4		15-110				6/1/18 17:44			
Nitrobenzene-d5	70.9		30-130				6/1/18 17:44			
2-Fluorobiphenyl	61.7		30-130				6/1/18 17:44			
2,4,6-Tribromophenol	82.3		15-110				6/1/18 17:44			
p-Terphenyl-d14	75.7		30-130				6/1/18 17:44			

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-FD

Sampled: 5/22/2018 00:00

Sample ID: 18E1297-08

Sample Matrix: Ground Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alachlor [1]	ND	0.20	0.025	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Aldrin [1]	ND	0.050	0.017	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
alpha-BHC [1]	ND	0.050	0.0032	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
beta-BHC [1]	ND	0.050	0.024	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
delta-BHC [1]	ND	0.050	0.030	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
gamma-BHC (Lindane) [1]	ND	0.030	0.014	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Chlordane [1]	ND	0.20	0.12	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
4,4'-DDD [1]	ND	0.040	0.0018	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
4,4'-DDE [1]	ND	0.040	0.0016	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
4,4'-DDT [1]	ND	0.040	0.0024	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Dieldrin [1]	ND	0.0020	0.0020	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Endosulfan I [1]	ND	0.050	0.0021	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Endosulfan II [1]	ND	0.080	0.0029	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Endosulfan sulfate [1]	ND	0.080	0.0025	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Endrin [1]	ND	0.080	0.0017	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Endrin aldehyde [1]	ND	0.080	0.063	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Endrin ketone [1]	ND	0.080	0.0050	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Heptachlor [1]	ND	0.050	0.0046	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Heptachlor epoxide [1]	ND	0.050	0.0040	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Hexachlorobenzene [1]	ND	0.050	0.039	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Methoxychlor [1]	ND	0.50	0.0097	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Toxaphene [1]	ND	1.0	0.66	µg/L	1		SW-846 8081B	5/25/18	6/7/18 14:33	TG
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
Decachlorobiphenyl [1]	63.9	30-150								
Decachlorobiphenyl [2]	61.2	30-150								
Tetrachloro-m-xylene [1]	67.0	30-150								
Tetrachloro-m-xylene [2]	77.8	30-150								

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-FD

Sampled: 5/22/2018 00:00

Sample ID: 18E1297-08

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.18	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:32	KAL
Aroclor-1221 [1]	ND	0.20	0.16	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:32	KAL
Aroclor-1232 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:32	KAL
Aroclor-1242 [1]	ND	0.20	0.17	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:32	KAL
Aroclor-1248 [1]	ND	0.20	0.19	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:32	KAL
Aroclor-1254 [1]	ND	0.20	0.10	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:32	KAL
Aroclor-1260 [1]	ND	0.20	0.20	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:32	KAL
Aroclor-1262 [1]	ND	0.20	0.14	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:32	KAL
Aroclor-1268 [1]	ND	0.20	0.13	µg/L	1		SW-846 8082A	5/25/18	6/6/18 14:32	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	69.5		30-150							
Decachlorobiphenyl [2]	62.0		30-150							
Tetrachloro-m-xylene [1]	63.3		30-150							
Tetrachloro-m-xylene [2]	63.3		30-150							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-MW-FD

Sampled: 5/22/2018 00:00

Sample ID: 18E1297-08

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	ND	0.050	0.037	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Antimony	ND	0.050	0.031	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Arsenic	0.0097	0.010	0.0080	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Barium	0.028	0.050	0.0053	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Beryllium	ND	0.0040	0.0017	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Cadmium	ND	0.0040	0.00090	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Calcium	120	0.15	0.11	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Chromium	ND	0.010	0.0061	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Cobalt	0.012	0.050	0.0080	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Copper	0.0072	0.010	0.0028	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Iron	6.5	0.050	0.040	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Lead	ND	0.010	0.0044	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Magnesium	19	0.15	0.026	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Manganese	2.9	0.010	0.0020	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Mercury	0.00011	0.00010	0.000034	mg/L	1		SW-846 7470A	5/30/18	5/31/18 11:04	EJB
Nickel	ND	0.010	0.0046	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Potassium	14	2.0	0.32	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Selenium	ND	0.050	0.034	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Silver	ND	0.0050	0.0049	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Sodium	20	2.0	0.28	mg/L	1		SW-846 6010C-D	6/6/18	6/8/18 12:52	QNW
Thallium	ND	0.050	0.040	mg/L	1		SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW
Vanadium	ND	0.010	0.0047	mg/L	1		SW-846 6010C-D	6/6/18	6/8/18 12:52	QNW
Zinc	0.0093	0.020	0.0052	mg/L	1	J	SW-846 6010C-D	6/6/18	6/7/18 16:10	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-TCLP-DC

Sampled: 5/22/2018 16:30

Sample ID: 18E1297-09

Sample Matrix: Water

Sample Flags: DL-01, PR-11

TCLP - Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	0.10	mg/L	10		SW-846 8260C	6/5/18	6/5/18 10:20	LBD
2-Butanone (MEK)	ND	2.0	mg/L	10		SW-846 8260C	6/5/18	6/5/18 10:20	LBD
Carbon Tetrachloride	ND	0.50	mg/L	10		SW-846 8260C	6/5/18	6/5/18 10:20	LBD
Chlorobenzene	ND	0.10	mg/L	10		SW-846 8260C	6/5/18	6/5/18 10:20	LBD
Chloroform	ND	0.20	mg/L	10		SW-846 8260C	6/5/18	6/5/18 10:20	LBD
1,4-Dichlorobenzene	ND	0.10	mg/L	10		SW-846 8260C	6/5/18	6/5/18 10:20	LBD
1,2-Dichloroethane	ND	0.10	mg/L	10		SW-846 8260C	6/5/18	6/5/18 10:20	LBD
1,1-Dichloroethylene	ND	0.10	mg/L	10		SW-846 8260C	6/5/18	6/5/18 10:20	LBD
Tetrachloroethylene	0.11	0.10	mg/L	10		SW-846 8260C	6/5/18	6/5/18 10:20	LBD
Trichloroethylene	ND	0.10	mg/L	10		SW-846 8260C	6/5/18	6/5/18 10:20	LBD
Vinyl Chloride	ND	0.20	mg/L	10		SW-846 8260C	6/5/18	6/5/18 10:20	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	92.1	70-130							
Toluene-d8	98.9	70-130							
4-Bromofluorobenzene	96.6	70-130							

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-TCLP-DC

Sampled: 5/22/2018 16:30

Sample ID: 18E1297-09

Sample Matrix: Water

TCLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-Dinitrotoluene	ND	0.10	mg/L	1		SW-846 8270D	6/5/18	6/6/18 20:41	BGL
2-Methylphenol	ND	0.10	mg/L	1		SW-846 8270D	6/5/18	6/6/18 20:41	BGL
3/4-Methylphenol	ND	0.10	mg/L	1	MS-08	SW-846 8270D	6/5/18	6/6/18 20:41	BGL
Nitrobenzene	ND	0.10	mg/L	1		SW-846 8270D	6/5/18	6/6/18 20:41	BGL
Pentachlorophenol	ND	0.10	mg/L	1		SW-846 8270D	6/5/18	6/6/18 20:41	BGL
Pyridine	ND	0.050	mg/L	1		SW-846 8270D	6/5/18	6/6/18 20:41	BGL
2,4,5-Trichlorophenol	ND	0.10	mg/L	1		SW-846 8270D	6/5/18	6/6/18 20:41	BGL
2,4,6-Trichlorophenol	ND	0.10	mg/L	1		SW-846 8270D	6/5/18	6/6/18 20:41	BGL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
2-Fluorophenol	24.7	15-110						6/6/18 20:41	
Phenol-d6	15.2	15-110						6/6/18 20:41	
Nitrobenzene-d5	73.9	30-130						6/6/18 20:41	
2-Fluorobiphenyl	66.6	30-130						6/6/18 20:41	
2,4,6-Tribromophenol	82.6	15-110						6/6/18 20:41	
p-Terphenyl-d14	77.1	30-130						6/6/18 20:41	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-TCLP-DC

Sampled: 5/22/2018 16:30

Sample ID: 18E1297-09

Sample Matrix: Water

TCLP - Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
gamma-BHC (Lindane) [1]	ND	0.30	µg/L	1		SW-846 8081B	6/5/18	6/7/18 12:18	TG
gamma-BHC (Lindane) [1]	ND	0.30	µg/L	10		SW-846 8081B	6/5/18	6/7/18 15:00	TG
Chlordane [1]	ND	2.0	µg/L	1		SW-846 8081B	6/5/18	6/7/18 12:18	TG
Chlordane [1]	ND	2.0	µg/L	10		SW-846 8081B	6/5/18	6/7/18 15:00	TG
Endrin [1]	ND	0.80	µg/L	1		SW-846 8081B	6/5/18	6/7/18 12:18	TG
Endrin [1]	ND	0.80	µg/L	10		SW-846 8081B	6/5/18	6/7/18 15:00	TG
Heptachlor [1]	ND	0.50	µg/L	1		SW-846 8081B	6/5/18	6/7/18 12:18	TG
Heptachlor [1]	ND	0.50	µg/L	10		SW-846 8081B	6/5/18	6/7/18 15:00	TG
Heptachlor epoxide [1]	ND	0.50	µg/L	1		SW-846 8081B	6/5/18	6/7/18 12:18	TG
Heptachlor epoxide [1]	ND	0.50	µg/L	10		SW-846 8081B	6/5/18	6/7/18 15:00	TG
Methoxychlor [1]	ND	5.0	µg/L	1		SW-846 8081B	6/5/18	6/7/18 12:18	TG
Methoxychlor [1]	ND	5.0	µg/L	10		SW-846 8081B	6/5/18	6/7/18 15:00	TG
Toxaphene [1]	ND	10	µg/L	1		SW-846 8081B	6/5/18	6/7/18 12:18	TG
Toxaphene [1]	ND	10	µg/L	10		SW-846 8081B	6/5/18	6/7/18 15:00	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	27.1	*	30-150		S-19		6/7/18	12:18	
Decachlorobiphenyl [1]	500	*	30-150		S-19		6/7/18	15:00	
Decachlorobiphenyl [2]	8.15	*	30-150		S-19		6/7/18	12:18	
Decachlorobiphenyl [2]	9.58	*	30-150		S-19		6/7/18	15:00	
Tetrachloro-m-xylene [1]	53.5		30-150				6/7/18	12:18	
Tetrachloro-m-xylene [1]	56.6		30-150				6/7/18	15:00	
Tetrachloro-m-xylene [2]	59.8		30-150				6/7/18	12:18	
Tetrachloro-m-xylene [2]	63.7		30-150				6/7/18	15:00	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-TCLP-DC

Sampled: 5/22/2018 16:30

Sample ID: 18E1297-09

Sample Matrix: Water

TCLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.0	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:40	TG
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:23	TG
Aroclor-1221 [1]	ND	2.0	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:40	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:23	TG
Aroclor-1232 [1]	ND	2.0	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:40	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:23	TG
Aroclor-1242 [1]	ND	2.0	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:40	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:23	TG
Aroclor-1248 [1]	ND	2.0	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:40	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:23	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:23	TG
Aroclor-1254 [1]	ND	2.0	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:40	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:23	TG
Aroclor-1260 [1]	ND	2.0	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:40	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:23	TG
Aroclor-1262 [1]	ND	2.0	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:40	TG
Aroclor-1268 [1]	ND	2.0	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:40	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/5/18	6/6/18 11:23	TG
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	8.60 *	30-150			S-19			6/6/18 11:40	
Decachlorobiphenyl [1]	6.76 *	30-150			S-19			6/6/18 11:23	
Decachlorobiphenyl [2]	8.49 *	30-150			S-19			6/6/18 11:40	
Decachlorobiphenyl [2]	7.44 *	30-150			S-19			6/6/18 11:23	
Tetrachloro-m-xylene [1]	48.7	30-150						6/6/18 11:23	
Tetrachloro-m-xylene [1]	54.1	30-150						6/6/18 11:40	
Tetrachloro-m-xylene [2]	50.7	30-150						6/6/18 11:40	
Tetrachloro-m-xylene [2]	48.1	30-150						6/6/18 11:23	

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: 401075-TCLP-DC

Sampled: 5/22/2018 16:30

Sample ID: 18E1297-09

Sample Matrix: Water

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.012	0.010	mg/L	1		SW-846 6010C-D	6/5/18	6/6/18 12:30	QNW
Mercury	0.0024	0.00010	mg/L	1		SW-846 7470A	6/6/18	6/6/18 12:33	EJB
Barium	ND	0.050	mg/L	1		SW-846 6010C-D	6/5/18	6/6/18 12:30	QNW
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C-D	6/5/18	6/6/18 12:30	QNW
Chromium	0.012	0.010	mg/L	1		SW-846 6010C-D	6/5/18	6/6/18 12:30	QNW
Lead	0.091	0.010	mg/L	1		SW-846 6010C-D	6/5/18	6/6/18 12:30	QNW
Selenium	ND	0.050	mg/L	1	L-02	SW-846 6010C-D	6/5/18	6/6/18 12:30	QNW
Silver	ND	0.0050	mg/L	1		SW-846 6010C-D	6/5/18	6/6/18 12:30	QNW

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: Trip Blank

Sampled: 5/22/2018 00:00

Sample ID: 18E1297-10

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	9.7	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
tert-Butyl Alcohol (TBA)	3.4	20	2.2	µg/L	1	J	SW-846 8260C	6/4/18	6/4/18 12:15	LBD
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD

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Project Location: Watervliet, NY

Sample Description:

Work Order: 18E1297

Date Received: 5/23/2018

Field Sample #: Trip Blank

Sampled: 5/22/2018 00:00

Sample ID: 18E1297-10

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,4-Dioxane	ND	100	26	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Hexachlorobutadiene	ND	1.0	0.59	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Methyl Acetate	ND	1.0	0.42	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260C	6/4/18	6/4/18 12:15	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	91.6	70-130								
Toluene-d8	97.7	70-130								
4-Bromofluorobenzene	97.0	70-130								

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Sample Extraction Data

Prep Method: SW-846 3010A-SW-846 6010C-D
Leachates were extracted on 6/4/2018 per SW-846 1311 in Batch B204880

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-09 [401075-TCLP-DC]	B204974	50.0	50.0	06/05/18

Prep Method: SW-846 3005A-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-01 [401075-MW-05]	B205078	50.0	50.0	06/06/18
18E1297-02 [401075-MW-07]	B205078	50.0	50.0	06/06/18
18E1297-06 [401075-MW-03]	B205078	50.0	50.0	06/06/18
18E1297-07 [401075-MW-06]	B205078	50.0	50.0	06/06/18
18E1297-08 [401075-MW-FD]	B205078	50.0	50.0	06/06/18

Prep Method: SW-846 3005A-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-01 [401075-MW-05]	B205259	50.0	50.0	06/06/18
18E1297-02 [401075-MW-07]	B205259	50.0	50.0	06/06/18
18E1297-06 [401075-MW-03]	B205259	50.0	50.0	06/06/18
18E1297-07 [401075-MW-06]	B205259	50.0	50.0	06/06/18
18E1297-08 [401075-MW-FD]	B205259	50.0	50.0	06/06/18

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-01 [401075-MW-05]	B204559	6.00	6.00	05/30/18
18E1297-02 [401075-MW-07]	B204559	6.00	6.00	05/30/18
18E1297-06 [401075-MW-03]	B204559	6.00	6.00	05/30/18
18E1297-07 [401075-MW-06]	B204559	6.00	6.00	05/30/18
18E1297-08 [401075-MW-FD]	B204559	6.00	6.00	05/30/18

Prep Method: SW-846 7470A Prep-SW-846 7470A
Leachates were extracted on 6/4/2018 per SW-846 1311 in Batch B204880

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-09 [401075-TCLP-DC]	B205031	6.00	6.00	06/06/18

Prep Method: SW-846 3510C-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-01 [401075-MW-05]	B204338	1000	10.0	05/25/18
18E1297-02 [401075-MW-07]	B204338	1000	10.0	05/25/18
18E1297-06 [401075-MW-03]	B204338	1000	10.0	05/25/18
18E1297-07 [401075-MW-06]	B204338	1000	10.0	05/25/18
18E1297-08 [401075-MW-FD]	B204338	1000	10.0	05/25/18

Prep Method: SW-846 3510C-SW-846 8081B
Leachates were extracted on 6/4/2018 per SW-846 1311 in Batch B204880

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-09 [401075-TCLP-DC]	B204968	500	5.00	06/05/18

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8081B
Leachates were extracted on 6/4/2018 per SW-846 1311 in Batch B204880

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-09RE1 [401075-TCLP-DC]	B204968	50.0	5.00	06/05/18

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-01 [401075-MW-05]	B204333	1000	10.0	05/25/18
18E1297-02 [401075-MW-07]	B204333	1000	10.0	05/25/18
18E1297-06 [401075-MW-03]	B204333	1000	10.0	05/25/18
18E1297-07 [401075-MW-06]	B204333	1000	10.0	05/25/18
18E1297-08 [401075-MW-FD]	B204333	1000	10.0	05/25/18

Prep Method: SW-846 3510C-SW-846 8082A
Leachates were extracted on 6/4/2018 per SW-846 1311 in Batch B204880

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-09 [401075-TCLP-DC]	B204959	500	5.00	06/05/18
18E1297-09RE1 [401075-TCLP-DC]	B204959	50.0	5.00	06/05/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-01 [401075-MW-05]	B204831	0.5	5.00	06/04/18
18E1297-02 [401075-MW-07]	B204831	2.5	5.00	06/04/18
18E1297-03 [401075-MW-01]	B204831	0.1	5.00	06/04/18
18E1297-05 [401075-MW-04]	B204831	5	5.00	06/04/18
18E1297-06 [401075-MW-03]	B204831	5	5.00	06/04/18
18E1297-07 [401075-MW-06]	B204831	0.05	5.00	06/04/18
18E1297-08 [401075-MW-FD]	B204831	2.5	5.00	06/04/18
18E1297-10 [Trip Blank]	B204831	5	5.00	06/04/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-04 [401075-MW-02]	B204832	5	5.00	06/05/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-09 [401075-TCLP-DC]	B204917	0.05	5.00	06/05/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-01 [401075-MW-05]	B204378	960	1.00	05/27/18
18E1297-02 [401075-MW-07]	B204378	940	1.00	05/27/18
18E1297-04 [401075-MW-02]	B204378	340	1.00	05/27/18
18E1297-05 [401075-MW-04]	B204378	820	1.00	05/27/18
18E1297-06 [401075-MW-03]	B204378	950	1.00	05/27/18

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-07 [401075-MW-06]	B204378	810	1.00	05/27/18
18E1297-08 [401075-MW-FD]	B204378	980	1.00	05/27/18

Prep Method: SW-846 3510C-SW-846 8270D

Leachates were extracted on 6/4/2018 per SW-846 1311 in Batch B204880

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18E1297-09 [401075-TCLP-DC]	B204981	100	1.00	06/05/18

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204831 - SW-846 5030B
Blank (B204831-BLK1)

Prepared & Analyzed: 06/04/18

Acetone	ND	50	µg/L
Acrylonitrile	ND	5.0	µg/L
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L
Benzene	ND	1.0	µg/L
Bromobenzene	ND	1.0	µg/L
Bromochloromethane	ND	1.0	µg/L
Bromodichloromethane	ND	0.50	µg/L
Bromoform	ND	1.0	µg/L
Bromomethane	ND	2.0	µg/L
2-Butanone (MEK)	ND	20	µg/L
tert-Butyl Alcohol (TBA)	ND	20	µg/L
n-Butylbenzene	ND	1.0	µg/L
sec-Butylbenzene	ND	1.0	µg/L
tert-Butylbenzene	ND	1.0	µg/L
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L
Carbon Disulfide	ND	4.0	µg/L
Carbon Tetrachloride	ND	5.0	µg/L
Chlorobenzene	ND	1.0	µg/L
Chlorodibromomethane	ND	0.50	µg/L
Chloroethane	ND	2.0	µg/L
Chloroform	ND	2.0	µg/L
Chloromethane	ND	2.0	µg/L
2-Chlorotoluene	ND	1.0	µg/L
4-Chlorotoluene	ND	1.0	µg/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L
1,2-Dibromoethane (EDB)	ND	0.50	µg/L
Dibromomethane	ND	1.0	µg/L
1,2-Dichlorobenzene	ND	1.0	µg/L
1,3-Dichlorobenzene	ND	1.0	µg/L
1,4-Dichlorobenzene	ND	1.0	µg/L
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L
1,1-Dichloroethane	ND	1.0	µg/L
1,2-Dichloroethane	ND	1.0	µg/L
1,1-Dichloroethylene	ND	1.0	µg/L
cis-1,2-Dichloroethylene	ND	1.0	µg/L
trans-1,2-Dichloroethylene	ND	1.0	µg/L
1,2-Dichloropropane	ND	1.0	µg/L
1,3-Dichloropropane	ND	0.50	µg/L
2,2-Dichloropropane	ND	1.0	µg/L
1,1-Dichloropropene	ND	2.0	µg/L
cis-1,3-Dichloropropene	ND	0.50	µg/L
trans-1,3-Dichloropropene	ND	0.50	µg/L
Diethyl Ether	ND	2.0	µg/L
Diisopropyl Ether (DIPE)	ND	0.50	µg/L
1,4-Dioxane	ND	100	µg/L
Ethylbenzene	ND	1.0	µg/L
Hexachlorobutadiene	ND	1.0	µg/L
2-Hexanone (MBK)	ND	10	µg/L
Isopropylbenzene (Cumene)	ND	1.0	µg/L
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L
Methyl Acetate	ND	1.0	µg/L

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204831 - SW-846 5030B

Blank (B204831-BLK1)

Prepared & Analyzed: 06/04/18

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.2		µg/L	25.0		93.0	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	24.5		µg/L	25.0		98.2	70-130			

LCS (B204831-BS1)

Prepared & Analyzed: 06/04/18

Acetone	108	50	µg/L	100		108	70-160			†
Acrylonitrile	10.3	5.0	µg/L	10.0		103	70-130			
tert-Amyl Methyl Ether (TAME)	9.83	0.50	µg/L	10.0		98.3	70-130			
Benzene	10.6	1.0	µg/L	10.0		106	70-130			
Bromobenzene	12.0	1.0	µg/L	10.0		120	70-130			
Bromochloromethane	12.4	1.0	µg/L	10.0		124	70-130			
Bromodichloromethane	10.5	0.50	µg/L	10.0		105	70-130			
Bromoform	11.9	1.0	µg/L	10.0		119	70-130			
Bromomethane	5.64	2.0	µg/L	10.0		56.4	40-160			†
2-Butanone (MEK)	103	20	µg/L	100		103	40-160			†
tert-Butyl Alcohol (TBA)	106	20	µg/L	100		106	40-160			†
n-Butylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.48	0.50	µg/L	10.0		94.8	70-130			
Carbon Disulfide	12.6	4.0	µg/L	10.0		126	70-130			
Carbon Tetrachloride	10.9	5.0	µg/L	10.0		109	70-130			
Chlorobenzene	11.5	1.0	µg/L	10.0		115	70-130			
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109	70-130			
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130			
Chloroform	10.9	2.0	µg/L	10.0		109	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204831 - SW-846 5030B										
LCS (B204831-BS1)				Prepared & Analyzed: 06/04/18						
Chloromethane	9.29	2.0	µg/L	10.0		92.9	40-160			†
2-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130			
4-Chlorotoluene	11.4	1.0	µg/L	10.0		114	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.17	5.0	µg/L	10.0		91.7	70-130			
1,2-Dibromoethane (EDB)	11.5	0.50	µg/L	10.0		115	70-130			
Dibromomethane	11.1	1.0	µg/L	10.0		111	70-130			
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
1,4-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
trans-1,4-Dichloro-2-butene	9.79	2.0	µg/L	10.0		97.9	70-130			
Dichlorodifluoromethane (Freon 12)	8.93	2.0	µg/L	10.0		89.3	40-160			V-34 †
1,1-Dichloroethane	10.8	1.0	µg/L	10.0		108	70-130			
1,2-Dichloroethane	10.2	1.0	µg/L	10.0		102	70-130			
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloropropane	11.3	1.0	µg/L	10.0		113	70-130			
1,3-Dichloropropane	10.8	0.50	µg/L	10.0		108	70-130			
2,2-Dichloropropane	9.81	1.0	µg/L	10.0		98.1	40-130			†
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107	70-130			
cis-1,3-Dichloropropene	9.92	0.50	µg/L	10.0		99.2	70-130			
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130			
Diethyl Ether	11.5	2.0	µg/L	10.0		115	70-130			
Diisopropyl Ether (DIPE)	9.14	0.50	µg/L	10.0		91.4	70-130			
1,4-Dioxane	102	100	µg/L	100		102	40-130			†
Ethylbenzene	11.6	1.0	µg/L	10.0		116	70-130			
Hexachlorobutadiene	12.8	1.0	µg/L	10.0		128	70-130			
2-Hexanone (MBK)	103	10	µg/L	100		103	70-160			†
Isopropylbenzene (Cumene)	11.7	1.0	µg/L	10.0		117	70-130			
p-Isopropyltoluene (p-Cymene)	10.8	1.0	µg/L	10.0		108	70-130			
Methyl Acetate	9.63	1.0	µg/L	10.0		96.3	70-130			
Methyl tert-Butyl Ether (MTBE)	10.4	1.0	µg/L	10.0		104	70-130			
Methyl Cyclohexane	10.8	1.0	µg/L	10.0		108	70-130			
Methylene Chloride	9.08	5.0	µg/L	10.0		90.8	70-130			
4-Methyl-2-pentanone (MIBK)	101	10	µg/L	100		101	70-160			†
Naphthalene	8.93	2.0	µg/L	10.0		89.3	40-130			†
n-Propylbenzene	11.1	1.0	µg/L	10.0		111	70-130			
Styrene	11.6	1.0	µg/L	10.0		116	70-130			
1,1,1,2-Tetrachloroethane	11.9	1.0	µg/L	10.0		119	70-130			
1,1,2,2-Tetrachloroethane	11.4	0.50	µg/L	10.0		114	70-130			
Tetrachloroethylene	12.3	1.0	µg/L	10.0		123	70-130			
Tetrahydrofuran	10.2	10	µg/L	10.0		102	70-130			
Toluene	11.0	1.0	µg/L	10.0		110	70-130			
1,2,3-Trichlorobenzene	9.93	5.0	µg/L	10.0		99.3	70-130			
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130			
1,3,5-Trichlorobenzene	11.7	1.0	µg/L	10.0		117	70-130			
1,1,1-Trichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,1,2-Trichloroethane	11.5	1.0	µg/L	10.0		115	70-130			
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Trichlorofluoromethane (Freon 11)	9.46	2.0	µg/L	10.0		94.6	70-130			
1,2,3-Trichloropropane	12.3	2.0	µg/L	10.0		123	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204831 - SW-846 5030B										
LCS (B204831-BS1)										
Prepared & Analyzed: 06/04/18										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	1.0	µg/L	10.0		112	70-130			
1,2,4-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
1,3,5-Trimethylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
Vinyl Chloride	9.98	2.0	µg/L	10.0		99.8	40-160			†
m+p Xylene	23.1	2.0	µg/L	20.0		115	70-130			
o-Xylene	11.2	1.0	µg/L	10.0		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.9		µg/L	25.0		91.7	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	25.3		µg/L	25.0		101	70-130			
LCS Dup (B204831-BS1)										
Prepared & Analyzed: 06/04/18										
Acetone	92.8	50	µg/L	100		92.8	70-160	15.1	25	†
Acrylonitrile	9.81	5.0	µg/L	10.0		98.1	70-130	5.07	25	
tert-Amyl Methyl Ether (TAME)	9.71	0.50	µg/L	10.0		97.1	70-130	1.23	25	
Benzene	10.8	1.0	µg/L	10.0		108	70-130	2.06	25	
Bromobenzene	11.6	1.0	µg/L	10.0		116	70-130	2.88	25	
Bromochloromethane	12.3	1.0	µg/L	10.0		123	70-130	0.728	25	
Bromodichloromethane	10.5	0.50	µg/L	10.0		105	70-130	0.286	25	
Bromoform	11.4	1.0	µg/L	10.0		114	70-130	4.12	25	
Bromomethane	6.55	2.0	µg/L	10.0		65.5	40-160	14.9	25	†
2-Butanone (MEK)	93.2	20	µg/L	100		93.2	40-160	9.69	25	†
tert-Butyl Alcohol (TBA)	96.4	20	µg/L	100		96.4	40-160	9.95	25	†
n-Butylbenzene	11.2	1.0	µg/L	10.0		112	70-130	2.52	25	
sec-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	0.848	25	
tert-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	1.41	25	
tert-Butyl Ethyl Ether (TBEE)	9.32	0.50	µg/L	10.0		93.2	70-130	1.70	25	
Carbon Disulfide	12.6	4.0	µg/L	10.0		126	70-130	0.317	25	
Carbon Tetrachloride	11.1	5.0	µg/L	10.0		111	70-130	1.18	25	
Chlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	1.05	25	
Chlorodibromomethane	10.7	0.50	µg/L	10.0		107	70-130	2.04	25	
Chloroethane	10.6	2.0	µg/L	10.0		106	70-130	0.00	25	
Chloroform	10.9	2.0	µg/L	10.0		109	70-130	0.275	25	
Chloromethane	9.43	2.0	µg/L	10.0		94.3	40-160	1.50	25	†
2-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130	1.27	25	
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130	2.86	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.24	5.0	µg/L	10.0		92.4	70-130	0.760	25	
1,2-Dibromoethane (EDB)	11.2	0.50	µg/L	10.0		112	70-130	2.56	25	
Dibromomethane	11.1	1.0	µg/L	10.0		111	70-130	0.541	25	
1,2-Dichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130	0.178	25	
1,3-Dichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	0.264	25	
1,4-Dichlorobenzene	11.0	1.0	µg/L	10.0		110	70-130	1.89	25	
trans-1,4-Dichloro-2-butene	8.95	2.0	µg/L	10.0		89.5	70-130	8.96	25	
Dichlorodifluoromethane (Freon 12)	8.90	2.0	µg/L	10.0		89.0	40-160	0.337	25	V-34 †
1,1-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130	0.747	25	
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130	2.05	25	
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	0.186	25	
cis-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130	1.78	25	
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130	1.55	25	
1,2-Dichloropropane	11.2	1.0	µg/L	10.0		112	70-130	0.621	25	
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130	2.15	25	
2,2-Dichloropropane	9.41	1.0	µg/L	10.0		94.1	40-130	4.16	25	†
1,1-Dichloropropene	10.8	2.0	µg/L	10.0		108	70-130	0.841	25	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204831 - SW-846 5030B										
LCS Dup (B204831-BSD1)				Prepared & Analyzed: 06/04/18						
cis-1,3-Dichloropropene	9.94	0.50	µg/L	10.0		99.4	70-130	0.201	25	
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130	4.35	25	
Diethyl Ether	11.0	2.0	µg/L	10.0		110	70-130	4.62	25	
Diisopropyl Ether (DIPE)	9.02	0.50	µg/L	10.0		90.2	70-130	1.32	25	
1,4-Dioxane	74.2	100	µg/L	100		74.2	40-130	31.4	50	J † ‡
Ethylbenzene	11.4	1.0	µg/L	10.0		114	70-130	2.35	25	
Hexachlorobutadiene	13.3	1.0	µg/L	10.0		133 *	70-130	3.53	25	L-07
2-Hexanone (MBK)	96.5	10	µg/L	100		96.5	70-160	6.92	25	†
Isopropylbenzene (Cumene)	11.7	1.0	µg/L	10.0		117	70-130	0.171	25	
p-Isopropyltoluene (p-Cymene)	11.1	1.0	µg/L	10.0		111	70-130	3.02	25	
Methyl Acetate	9.14	1.0	µg/L	10.0		91.4	70-130	5.22	25	
Methyl tert-Butyl Ether (MTBE)	10.0	1.0	µg/L	10.0		100	70-130	3.33	25	
Methyl Cyclohexane	10.9	1.0	µg/L	10.0		109	70-130	0.739	25	
Methylene Chloride	9.02	5.0	µg/L	10.0		90.2	70-130	0.663	25	
4-Methyl-2-pentanone (MIBK)	95.4	10	µg/L	100		95.4	70-160	5.60	25	†
Naphthalene	8.35	2.0	µg/L	10.0		83.5	40-130	6.71	25	†
n-Propylbenzene	11.1	1.0	µg/L	10.0		111	70-130	0.0900	25	
Styrene	11.6	1.0	µg/L	10.0		116	70-130	0.173	25	
1,1,1,2-Tetrachloroethane	11.7	1.0	µg/L	10.0		117	70-130	1.36	25	
1,1,2,2-Tetrachloroethane	11.0	0.50	µg/L	10.0		110	70-130	3.76	25	
Tetrachloroethylene	12.4	1.0	µg/L	10.0		124	70-130	0.324	25	
Tetrahydrofuran	9.75	10	µg/L	10.0		97.5	70-130	4.32	25	J
Toluene	10.9	1.0	µg/L	10.0		109	70-130	1.00	25	
1,2,3-Trichlorobenzene	9.83	5.0	µg/L	10.0		98.3	70-130	1.01	25	
1,2,4-Trichlorobenzene	9.87	1.0	µg/L	10.0		98.7	70-130	1.41	25	
1,3,5-Trichlorobenzene	11.7	1.0	µg/L	10.0		117	70-130	0.599	25	
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	0.478	25	
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111	70-130	3.19	25	
Trichloroethylene	11.2	1.0	µg/L	10.0		112	70-130	1.98	25	
Trichlorofluoromethane (Freon 11)	9.47	2.0	µg/L	10.0		94.7	70-130	0.106	25	
1,2,3-Trichloropropane	11.3	2.0	µg/L	10.0		113	70-130	8.74	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.0	1.0	µg/L	10.0		110	70-130	1.62	25	
1,2,4-Trimethylbenzene	10.7	1.0	µg/L	10.0		107	70-130	0.186	25	
1,3,5-Trimethylbenzene	11.2	1.0	µg/L	10.0		112	70-130	2.48	25	
Vinyl Chloride	10.3	2.0	µg/L	10.0		103	40-160	2.77	25	†
m+p Xylene	22.7	2.0	µg/L	20.0		114	70-130	1.48	25	
o-Xylene	10.9	1.0	µg/L	10.0		109	70-130	2.80	25	
Surrogate: 1,2-Dichloroethane-d4	22.9		µg/L	25.0		91.6	70-130			
Surrogate: Toluene-d8	24.4		µg/L	25.0		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.0	70-130			
Matrix Spike (B204831-MS1)				Source: 18E1297-01 Prepared & Analyzed: 06/04/18						
Acetone	877	500	µg/L	1000	ND	87.7	70-130			
Acrylonitrile	95.7	50	µg/L	100	ND	95.7	70-130			
tert-Amyl Methyl Ether (TAME)	89.3	5.0	µg/L	100	ND	89.3	70-130			
Benzene	103	10	µg/L	100	ND	103	70-130			
Bromobenzene	112	10	µg/L	100	ND	112	70-130			
Bromochloromethane	120	10	µg/L	100	ND	120	70-130			
Bromodichloromethane	98.4	5.0	µg/L	100	ND	98.4	70-130			
Bromoform	103	10	µg/L	100	ND	103	70-130			
Bromomethane	54.5	20	µg/L	100	ND	54.5 *	70-130			MS-09
2-Butanone (MEK)	891	200	µg/L	1000	ND	89.1	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204831 - SW-846 5030B										
Matrix Spike (B204831-MS1)	Source: 18E1297-01			Prepared & Analyzed: 06/04/18						
tert-Butyl Alcohol (TBA)	908	200	µg/L	1000	ND	90.8	70-130			
n-Butylbenzene	110	10	µg/L	100	ND	110	70-130			
sec-Butylbenzene	106	10	µg/L	100	ND	106	70-130			
tert-Butylbenzene	105	10	µg/L	100	ND	105	70-130			
tert-Butyl Ethyl Ether (TBEE)	86.4	5.0	µg/L	100	ND	86.4	70-130			
Carbon Disulfide	110	40	µg/L	100	ND	110	70-130			
Carbon Tetrachloride	108	50	µg/L	100	ND	108	70-130			
Chlorobenzene	113	10	µg/L	100	ND	113	70-130			
Chlorodibromomethane	102	5.0	µg/L	100	ND	102	70-130			
Chloroethane	105	20	µg/L	100	ND	105	70-130			
Chloroform	103	20	µg/L	100	ND	103	70-130			
Chloromethane	91.3	20	µg/L	100	ND	91.3	70-130			
2-Chlorotoluene	108	10	µg/L	100	ND	108	70-130			
4-Chlorotoluene	109	10	µg/L	100	ND	109	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	82.3	50	µg/L	100	ND	82.3	70-130			
1,2-Dibromoethane (EDB)	108	5.0	µg/L	100	ND	108	70-130			
Dibromomethane	104	10	µg/L	100	ND	104	70-130			
1,2-Dichlorobenzene	108	10	µg/L	100	ND	108	70-130			
1,3-Dichlorobenzene	110	10	µg/L	100	ND	110	70-130			
1,4-Dichlorobenzene	107	10	µg/L	100	ND	107	70-130			
trans-1,4-Dichloro-2-butene	82.7	20	µg/L	100	ND	82.7	70-130			
Dichlorodifluoromethane (Freon 12)	87.0	20	µg/L	100	ND	87.0	70-130			V-34
1,1-Dichloroethane	104	10	µg/L	100	ND	104	70-130			
1,2-Dichloroethane	98.7	10	µg/L	100	ND	98.7	70-130			
1,1-Dichloroethylene	107	10	µg/L	100	ND	107	70-130			
cis-1,2-Dichloroethylene	687	10	µg/L	100	593	94.3	70-130			
trans-1,2-Dichloroethylene	104	10	µg/L	100	1.80	102	70-130			
1,2-Dichloropropane	106	10	µg/L	100	ND	106	70-130			
1,3-Dichloropropane	102	5.0	µg/L	100	ND	102	70-130			
2,2-Dichloropropane	87.0	10	µg/L	100	ND	87.0	70-130			
1,1-Dichloropropene	107	20	µg/L	100	ND	107	70-130			
cis-1,3-Dichloropropene	92.7	5.0	µg/L	100	ND	92.7	70-130			
trans-1,3-Dichloropropene	96.2	5.0	µg/L	100	ND	96.2	70-130			
Diethyl Ether	106	20	µg/L	100	ND	106	70-130			
Diisopropyl Ether (DIPE)	84.5	5.0	µg/L	100	ND	84.5	70-130			
1,4-Dioxane	785	1000	µg/L	1000	ND	78.5	70-130			J
Ethylbenzene	113	10	µg/L	100	ND	113	70-130			
Hexachlorobutadiene	124	10	µg/L	100	ND	124	70-130			
2-Hexanone (MBK)	928	100	µg/L	1000	ND	92.8	70-130			
Isopropylbenzene (Cumene)	116	10	µg/L	100	ND	116	70-130			
p-Isopropyltoluene (p-Cymene)	109	10	µg/L	100	ND	109	70-130			
Methyl Acetate	84.6	10	µg/L	100	ND	84.6	70-130			
Methyl tert-Butyl Ether (MTBE)	93.3	10	µg/L	100	ND	93.3	70-130			
Methyl Cyclohexane	107	10	µg/L	100	ND	107	70-130			
Methylene Chloride	86.2	50	µg/L	100	ND	86.2	70-130			
4-Methyl-2-pentanone (MIBK)	913	100	µg/L	1000	ND	91.3	70-130			
Naphthalene	79.5	20	µg/L	100	ND	79.5	70-130			
n-Propylbenzene	110	10	µg/L	100	ND	110	70-130			
Styrene	109	10	µg/L	100	ND	109	70-130			
1,1,1,2-Tetrachloroethane	114	10	µg/L	100	ND	114	70-130			
1,1,2,2-Tetrachloroethane	108	5.0	µg/L	100	ND	108	70-130			
Tetrachloroethylene	155	10	µg/L	100	29.7	125	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204831 - SW-846 5030B										
Matrix Spike (B204831-MS1)		Source: 18E1297-01		Prepared & Analyzed: 06/04/18						
Tetrahydrofuran	93.6	100	µg/L	100	ND	93.6	70-130			J
Toluene	108	10	µg/L	100	ND	108	70-130			
1,2,3-Trichlorobenzene	91.0	50	µg/L	100	ND	91.0	70-130			
1,2,4-Trichlorobenzene	93.7	10	µg/L	100	ND	93.7	70-130			
1,3,5-Trichlorobenzene	111	10	µg/L	100	ND	111	70-130			
1,1,1-Trichloroethane	102	10	µg/L	100	ND	102	70-130			
1,1,2-Trichloroethane	107	10	µg/L	100	ND	107	70-130			
Trichloroethylene	134	10	µg/L	100	20.7	113	70-130			
Trichlorofluoromethane (Freon 11)	90.5	20	µg/L	100	ND	90.5	70-130			
1,2,3-Trichloropropane	109	20	µg/L	100	ND	109	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	108	10	µg/L	100	ND	108	70-130			
1,2,4-Trimethylbenzene	106	10	µg/L	100	ND	106	70-130			
1,3,5-Trimethylbenzene	109	10	µg/L	100	ND	109	70-130			
Vinyl Chloride	103	20	µg/L	100	1.50	101	70-130			
m+p Xylene	226	20	µg/L	200	ND	113	70-130			
o-Xylene	108	10	µg/L	100	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.8		µg/L	25.0		91.1	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		µg/L	25.0		99.3	70-130			
Matrix Spike Dup (B204831-MSD1)		Source: 18E1297-01		Prepared & Analyzed: 06/04/18						
Acetone	930	500	µg/L	1000	ND	93.0	70-130	5.89	30	
Acrylonitrile	98.8	50	µg/L	100	ND	98.8	70-130	3.19	30	
tert-Amyl Methyl Ether (TAME)	95.0	5.0	µg/L	100	ND	95.0	70-130	6.19	30	
Benzene	109	10	µg/L	100	ND	109	70-130	5.47	30	
Bromobenzene	115	10	µg/L	100	ND	115	70-130	2.90	30	
Bromochloromethane	127	10	µg/L	100	ND	127	70-130	5.17	30	
Bromodichloromethane	108	5.0	µg/L	100	ND	108	70-130	9.02	30	
Bromoform	110	10	µg/L	100	ND	110	70-130	6.38	30	
Bromomethane	59.3	20	µg/L	100	ND	59.3	* 70-130	8.44	30	MS-09
2-Butanone (MEK)	934	200	µg/L	1000	ND	93.4	70-130	4.68	30	
tert-Butyl Alcohol (TBA)	930	200	µg/L	1000	ND	93.0	70-130	2.38	30	
n-Butylbenzene	118	10	µg/L	100	ND	118	70-130	7.22	30	
sec-Butylbenzene	111	10	µg/L	100	ND	111	70-130	4.69	30	
tert-Butylbenzene	112	10	µg/L	100	ND	112	70-130	6.90	30	
tert-Butyl Ethyl Ether (TBEE)	91.9	5.0	µg/L	100	ND	91.9	70-130	6.17	30	
Carbon Disulfide	119	40	µg/L	100	ND	119	70-130	7.41	30	
Carbon Tetrachloride	112	50	µg/L	100	ND	112	70-130	4.27	30	
Chlorobenzene	116	10	µg/L	100	ND	116	70-130	2.70	30	
Chlorodibromomethane	108	5.0	µg/L	100	ND	108	70-130	5.53	30	
Chloroethane	112	20	µg/L	100	ND	112	70-130	6.28	30	
Chloroform	112	20	µg/L	100	ND	112	70-130	8.35	30	
Chloromethane	95.7	20	µg/L	100	ND	95.7	70-130	4.71	30	
2-Chlorotoluene	112	10	µg/L	100	ND	112	70-130	4.00	30	
4-Chlorotoluene	113	10	µg/L	100	ND	113	70-130	3.33	30	
1,2-Dibromo-3-chloropropane (DBCP)	93.1	50	µg/L	100	ND	93.1	70-130	12.3	30	
1,2-Dibromoethane (EDB)	115	5.0	µg/L	100	ND	115	70-130	6.09	30	
Dibromomethane	112	10	µg/L	100	ND	112	70-130	7.86	30	
1,2-Dichlorobenzene	111	10	µg/L	100	ND	111	70-130	2.73	30	
1,3-Dichlorobenzene	116	10	µg/L	100	ND	116	70-130	6.02	30	
1,4-Dichlorobenzene	112	10	µg/L	100	ND	112	70-130	4.64	30	
trans-1,4-Dichloro-2-butene	84.2	20	µg/L	100	ND	84.2	70-130	1.80	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204831 - SW-846 5030B										
Matrix Spike Dup (B204831-MSD1)	Source: 18E1297-01			Prepared & Analyzed: 06/04/18						
Dichlorodifluoromethane (Freon 12)	94.2	20	µg/L	100	ND	94.2	70-130	7.95	30	V-34
1,1-Dichloroethane	112	10	µg/L	100	ND	112	70-130	7.06	30	
1,2-Dichloroethane	107	10	µg/L	100	ND	107	70-130	7.79	30	
1,1-Dichloroethylene	116	10	µg/L	100	ND	116	70-130	7.44	30	
cis-1,2-Dichloroethylene	690	10	µg/L	100	593	96.8	70-130	0.363	30	
trans-1,2-Dichloroethylene	111	10	µg/L	100	1.80	109	70-130	7.08	30	
1,2-Dichloropropane	114	10	µg/L	100	ND	114	70-130	6.64	30	
1,3-Dichloropropane	108	5.0	µg/L	100	ND	108	70-130	5.15	30	
2,2-Dichloropropane	90.0	10	µg/L	100	ND	90.0	70-130	3.39	30	
1,1-Dichloropropene	112	20	µg/L	100	ND	112	70-130	4.02	30	
cis-1,3-Dichloropropene	98.9	5.0	µg/L	100	ND	98.9	70-130	6.47	30	
trans-1,3-Dichloropropene	101	5.0	µg/L	100	ND	101	70-130	4.77	30	
Diethyl Ether	113	20	µg/L	100	ND	113	70-130	6.67	30	
Diisopropyl Ether (DIPE)	88.0	5.0	µg/L	100	ND	88.0	70-130	4.06	30	
1,4-Dioxane	982	1000	µg/L	1000	ND	98.2	70-130	22.3	30	J
Ethylbenzene	118	10	µg/L	100	ND	118	70-130	4.84	30	
Hexachlorobutadiene	131	10	µg/L	100	ND	131	* 70-130	5.57	30	MS-22
2-Hexanone (MBK)	978	100	µg/L	1000	ND	97.8	70-130	5.17	30	
Isopropylbenzene (Cumene)	121	10	µg/L	100	ND	121	70-130	4.29	30	
p-Isopropyltoluene (p-Cymene)	114	10	µg/L	100	ND	114	70-130	4.13	30	
Methyl Acetate	88.7	10	µg/L	100	ND	88.7	70-130	4.73	30	
Methyl tert-Butyl Ether (MTBE)	99.5	10	µg/L	100	ND	99.5	70-130	6.43	30	
Methyl Cyclohexane	116	10	µg/L	100	ND	116	70-130	7.73	30	
Methylene Chloride	90.4	50	µg/L	100	ND	90.4	70-130	4.76	30	
4-Methyl-2-pentanone (MIBK)	964	100	µg/L	1000	ND	96.4	70-130	5.44	30	
Naphthalene	86.4	20	µg/L	100	ND	86.4	70-130	8.32	30	
n-Propylbenzene	114	10	µg/L	100	ND	114	70-130	2.95	30	
Styrene	116	10	µg/L	100	ND	116	70-130	6.13	30	
1,1,1,2-Tetrachloroethane	119	10	µg/L	100	ND	119	70-130	4.02	30	
1,1,2,2-Tetrachloroethane	112	5.0	µg/L	100	ND	112	70-130	4.19	30	
Tetrachloroethylene	163	10	µg/L	100	29.7	133	* 70-130	5.23	30	MS-24
Tetrahydrofuran	102	100	µg/L	100	ND	102	70-130	8.20	30	
Toluene	116	10	µg/L	100	ND	116	70-130	6.80	30	
1,2,3-Trichlorobenzene	98.8	50	µg/L	100	ND	98.8	70-130	8.22	30	
1,2,4-Trichlorobenzene	101	10	µg/L	100	ND	101	70-130	7.60	30	
1,3,5-Trichlorobenzene	115	10	µg/L	100	ND	115	70-130	3.89	30	
1,1,1-Trichloroethane	111	10	µg/L	100	ND	111	70-130	8.61	30	
1,1,2-Trichloroethane	113	10	µg/L	100	ND	113	70-130	6.00	30	
Trichloroethylene	138	10	µg/L	100	20.7	117	70-130	2.80	30	
Trichlorofluoromethane (Freon 11)	96.4	20	µg/L	100	ND	96.4	70-130	6.31	30	
1,2,3-Trichloropropane	113	20	µg/L	100	ND	113	70-130	3.68	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	115	10	µg/L	100	ND	115	70-130	6.45	30	
1,2,4-Trimethylbenzene	111	10	µg/L	100	ND	111	70-130	4.90	30	
1,3,5-Trimethylbenzene	114	10	µg/L	100	ND	114	70-130	4.14	30	
Vinyl Chloride	110	20	µg/L	100	1.50	109	70-130	6.85	30	
m+p Xylene	236	20	µg/L	200	ND	118	70-130	4.68	20	
o-Xylene	113	10	µg/L	100	ND	113	70-130	4.44	30	
Surrogate: 1,2-Dichloroethane-d4	23.0		µg/L	25.0		91.8	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.6	70-130			

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QUALITY CONTROL
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204832 - SW-846 5030B
Blank (B204832-BLK1)

Prepared: 06/04/18 Analyzed: 06/05/18

Acetone	ND	50	µg/L
Acrylonitrile	ND	5.0	µg/L
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L
Benzene	ND	1.0	µg/L
Bromobenzene	ND	1.0	µg/L
Bromochloromethane	ND	1.0	µg/L
Bromodichloromethane	ND	0.50	µg/L
Bromoform	ND	1.0	µg/L
Bromomethane	ND	2.0	µg/L
2-Butanone (MEK)	ND	20	µg/L
tert-Butyl Alcohol (TBA)	ND	20	µg/L
n-Butylbenzene	ND	1.0	µg/L
sec-Butylbenzene	ND	1.0	µg/L
tert-Butylbenzene	ND	1.0	µg/L
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L
Carbon Disulfide	ND	4.0	µg/L
Carbon Tetrachloride	ND	5.0	µg/L
Chlorobenzene	ND	1.0	µg/L
Chlorodibromomethane	ND	0.50	µg/L
Chloroethane	ND	2.0	µg/L
Chloroform	ND	2.0	µg/L
Chloromethane	ND	2.0	µg/L
2-Chlorotoluene	ND	1.0	µg/L
4-Chlorotoluene	ND	1.0	µg/L
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L
1,2-Dibromoethane (EDB)	ND	0.50	µg/L
Dibromomethane	ND	1.0	µg/L
1,2-Dichlorobenzene	ND	1.0	µg/L
1,3-Dichlorobenzene	ND	1.0	µg/L
1,4-Dichlorobenzene	ND	1.0	µg/L
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L
1,1-Dichloroethane	ND	1.0	µg/L
1,2-Dichloroethane	ND	1.0	µg/L
1,1-Dichloroethylene	ND	1.0	µg/L
cis-1,2-Dichloroethylene	ND	1.0	µg/L
trans-1,2-Dichloroethylene	ND	1.0	µg/L
1,2-Dichloropropane	ND	1.0	µg/L
1,3-Dichloropropane	ND	0.50	µg/L
2,2-Dichloropropane	ND	1.0	µg/L
1,1-Dichloropropene	ND	2.0	µg/L
cis-1,3-Dichloropropene	ND	0.50	µg/L
trans-1,3-Dichloropropene	ND	0.50	µg/L
Diethyl Ether	ND	2.0	µg/L
Diisopropyl Ether (DIPE)	ND	0.50	µg/L
1,4-Dioxane	ND	100	µg/L
Ethylbenzene	ND	1.0	µg/L
Hexachlorobutadiene	ND	1.0	µg/L
2-Hexanone (MBK)	ND	10	µg/L
Isopropylbenzene (Cumene)	ND	1.0	µg/L
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L
Methyl Acetate	ND	1.0	µg/L

V-05

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204832 - SW-846 5030B

Blank (B204832-BLK1)

Prepared: 06/04/18 Analyzed: 06/05/18

Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							V-05
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.1		µg/L	25.0		92.4	70-130			
Surrogate: Toluene-d8	24.6		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	24.2		µg/L	25.0		97.0	70-130			

LCS (B204832-BS1)

Prepared & Analyzed: 06/04/18

Acetone	94.0	50	µg/L	100		94.0	70-160			†
Acrylonitrile	9.95	5.0	µg/L	10.0		99.5	70-130			
tert-Amyl Methyl Ether (TAME)	9.60	0.50	µg/L	10.0		96.0	70-130			
Benzene	10.6	1.0	µg/L	10.0		106	70-130			
Bromobenzene	11.4	1.0	µg/L	10.0		114	70-130			
Bromochloromethane	12.1	1.0	µg/L	10.0		121	70-130			
Bromodichloromethane	10.3	0.50	µg/L	10.0		103	70-130			
Bromoform	11.4	1.0	µg/L	10.0		114	70-130			
Bromomethane	5.25	2.0	µg/L	10.0		52.5	40-160			†
2-Butanone (MEK)	97.6	20	µg/L	100		97.6	40-160			†
tert-Butyl Alcohol (TBA)	98.5	20	µg/L	100		98.5	40-160			†
n-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130			
sec-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130			
tert-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130			
tert-Butyl Ethyl Ether (TBEE)	9.14	0.50	µg/L	10.0		91.4	70-130			
Carbon Disulfide	12.5	4.0	µg/L	10.0		125	70-130			
Carbon Tetrachloride	10.9	5.0	µg/L	10.0		109	70-130			
Chlorobenzene	11.4	1.0	µg/L	10.0		114	70-130			
Chlorodibromomethane	10.8	0.50	µg/L	10.0		108	70-130			
Chloroethane	10.4	2.0	µg/L	10.0		104	70-130			
Chloroform	10.8	2.0	µg/L	10.0		108	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204832 - SW-846 5030B										
LCS (B204832-BS1)										
Prepared & Analyzed: 06/04/18										
Chloromethane	8.83	2.0	µg/L	10.0		88.3	40-160			†
2-Chlorotoluene	10.9	1.0	µg/L	10.0		109	70-130			
4-Chlorotoluene	11.1	1.0	µg/L	10.0		111	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.40	5.0	µg/L	10.0		94.0	70-130			
1,2-Dibromoethane (EDB)	11.4	0.50	µg/L	10.0		114	70-130			
Dibromomethane	11.1	1.0	µg/L	10.0		111	70-130			
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108	70-130			
1,3-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130			
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130			
trans-1,4-Dichloro-2-butene	8.56	2.0	µg/L	10.0		85.6	70-130			
Dichlorodifluoromethane (Freon 12)	8.30	2.0	µg/L	10.0		83.0	40-160			V-34 †
1,1-Dichloroethane	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichloroethane	10.1	1.0	µg/L	10.0		101	70-130			
1,1-Dichloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
cis-1,2-Dichloroethylene	9.99	1.0	µg/L	10.0		99.9	70-130			
trans-1,2-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130			
1,2-Dichloropropane	11.2	1.0	µg/L	10.0		112	70-130			
1,3-Dichloropropane	10.7	0.50	µg/L	10.0		107	70-130			
2,2-Dichloropropane	8.08	1.0	µg/L	10.0		80.8	40-130			V-05 †
1,1-Dichloropropene	10.7	2.0	µg/L	10.0		107	70-130			
cis-1,3-Dichloropropene	9.53	0.50	µg/L	10.0		95.3	70-130			
trans-1,3-Dichloropropene	9.85	0.50	µg/L	10.0		98.5	70-130			
Diethyl Ether	11.2	2.0	µg/L	10.0		112	70-130			
Diisopropyl Ether (DIPE)	8.87	0.50	µg/L	10.0		88.7	70-130			
1,4-Dioxane	97.5	100	µg/L	100		97.5	40-130			J †
Ethylbenzene	11.4	1.0	µg/L	10.0		114	70-130			
Hexachlorobutadiene	12.5	1.0	µg/L	10.0		125	70-130			
2-Hexanone (MBK)	99.4	10	µg/L	100		99.4	70-160			†
Isopropylbenzene (Cumene)	11.6	1.0	µg/L	10.0		116	70-130			
p-Isopropyltoluene (p-Cymene)	10.5	1.0	µg/L	10.0		105	70-130			
Methyl Acetate	9.35	1.0	µg/L	10.0		93.5	70-130			
Methyl tert-Butyl Ether (MTBE)	10.2	1.0	µg/L	10.0		102	70-130			
Methyl Cyclohexane	10.4	1.0	µg/L	10.0		104	70-130			
Methylene Chloride	8.82	5.0	µg/L	10.0		88.2	70-130			
4-Methyl-2-pentanone (MIBK)	98.5	10	µg/L	100		98.5	70-160			†
Naphthalene	8.58	2.0	µg/L	10.0		85.8	40-130			V-05 †
n-Propylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
Styrene	11.3	1.0	µg/L	10.0		113	70-130			
1,1,1,2-Tetrachloroethane	11.4	1.0	µg/L	10.0		114	70-130			
1,1,2,2-Tetrachloroethane	11.0	0.50	µg/L	10.0		110	70-130			
Tetrachloroethylene	12.4	1.0	µg/L	10.0		124	70-130			
Tetrahydrofuran	9.58	10	µg/L	10.0		95.8	70-130			J
Toluene	10.8	1.0	µg/L	10.0		108	70-130			
1,2,3-Trichlorobenzene	9.89	5.0	µg/L	10.0		98.9	70-130			
1,2,4-Trichlorobenzene	9.74	1.0	µg/L	10.0		97.4	70-130			
1,3,5-Trichlorobenzene	11.2	1.0	µg/L	10.0		112	70-130			
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130			
1,1,2-Trichloroethane	11.2	1.0	µg/L	10.0		112	70-130			
Trichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
Trichlorofluoromethane (Freon 11)	9.51	2.0	µg/L	10.0		95.1	70-130			
1,2,3-Trichloropropane	11.6	2.0	µg/L	10.0		116	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204832 - SW-846 5030B										
LCS (B204832-BS1)										
Prepared & Analyzed: 06/04/18										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.7	1.0	µg/L	10.0		107	70-130			
1,2,4-Trimethylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,3,5-Trimethylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Vinyl Chloride	10.2	2.0	µg/L	10.0		102	40-160			†
m+p Xylene	22.6	2.0	µg/L	20.0		113	70-130			
o-Xylene	10.9	1.0	µg/L	10.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.2		µg/L	25.0		92.9	70-130			
Surrogate: Toluene-d8	25.0		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		µg/L	25.0		100	70-130			
LCS Dup (B204832-BSD1)										
Prepared & Analyzed: 06/04/18										
Acetone	90.4	50	µg/L	100		90.4	70-160	3.97	25	†
Acrylonitrile	10.0	5.0	µg/L	10.0		100	70-130	0.501	25	
tert-Amyl Methyl Ether (TAME)	9.31	0.50	µg/L	10.0		93.1	70-130	3.07	25	
Benzene	10.2	1.0	µg/L	10.0		102	70-130	3.45	25	
Bromobenzene	11.3	1.0	µg/L	10.0		113	70-130	1.58	25	
Bromochloromethane	12.4	1.0	µg/L	10.0		124	70-130	2.54	25	
Bromodichloromethane	10.3	0.50	µg/L	10.0		103	70-130	0.486	25	
Bromoform	10.9	1.0	µg/L	10.0		109	70-130	4.76	25	
Bromomethane	6.14	2.0	µg/L	10.0		61.4	40-160	15.6	25	†
2-Butanone (MEK)	93.0	20	µg/L	100		93.0	40-160	4.74	25	†
tert-Butyl Alcohol (TBA)	99.1	20	µg/L	100		99.1	40-160	0.577	25	†
n-Butylbenzene	10.7	1.0	µg/L	10.0		107	70-130	0.373	25	
sec-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130	0.777	25	
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130	1.44	25	
tert-Butyl Ethyl Ether (TBEE)	9.03	0.50	µg/L	10.0		90.3	70-130	1.21	25	
Carbon Disulfide	12.0	4.0	µg/L	10.0		120	70-130	3.67	25	
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104	70-130	3.85	25	
Chlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	2.22	25	
Chlorodibromomethane	10.5	0.50	µg/L	10.0		105	70-130	2.64	25	
Chloroethane	10.4	2.0	µg/L	10.0		104	70-130	0.386	25	
Chloroform	10.3	2.0	µg/L	10.0		103	70-130	4.08	25	
Chloromethane	8.87	2.0	µg/L	10.0		88.7	40-160	0.452	25	†
2-Chlorotoluene	10.7	1.0	µg/L	10.0		107	70-130	1.76	25	
4-Chlorotoluene	10.8	1.0	µg/L	10.0		108	70-130	2.29	25	
1,2-Dibromo-3-chloropropane (DBCP)	9.10	5.0	µg/L	10.0		91.0	70-130	3.24	25	
1,2-Dibromoethane (EDB)	11.3	0.50	µg/L	10.0		113	70-130	1.58	25	
Dibromomethane	10.7	1.0	µg/L	10.0		107	70-130	3.12	25	
1,2-Dichlorobenzene	11.1	1.0	µg/L	10.0		111	70-130	2.83	25	
1,3-Dichlorobenzene	11.3	1.0	µg/L	10.0		113	70-130	2.14	25	
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.0		109	70-130	0.367	25	
trans-1,4-Dichloro-2-butene	8.50	2.0	µg/L	10.0		85.0	70-130	0.703	25	
Dichlorodifluoromethane (Freon 12)	8.22	2.0	µg/L	10.0		82.2	40-160	0.969	25	V-34 †
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130	1.63	25	
1,2-Dichloroethane	10.4	1.0	µg/L	10.0		104	70-130	3.52	25	
1,1-Dichloroethylene	10.3	1.0	µg/L	10.0		103	70-130	5.03	25	
cis-1,2-Dichloroethylene	9.77	1.0	µg/L	10.0		97.7	70-130	2.23	25	
trans-1,2-Dichloroethylene	10.0	1.0	µg/L	10.0		100	70-130	2.66	25	
1,2-Dichloropropane	10.9	1.0	µg/L	10.0		109	70-130	2.90	25	
1,3-Dichloropropane	10.5	0.50	µg/L	10.0		105	70-130	1.32	25	
2,2-Dichloropropane	7.73	1.0	µg/L	10.0		77.3	40-130	4.43	25	V-05 †
1,1-Dichloropropene	10.3	2.0	µg/L	10.0		103	70-130	4.09	25	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204832 - SW-846 5030B										
LCS Dup (B204832-BSD1)				Prepared & Analyzed: 06/04/18						
cis-1,3-Dichloropropene	9.62	0.50	µg/L	10.0		96.2	70-130	0.940	25	
trans-1,3-Dichloropropene	9.82	0.50	µg/L	10.0		98.2	70-130	0.305	25	
Diethyl Ether	11.0	2.0	µg/L	10.0		110	70-130	2.07	25	
Diisopropyl Ether (DIPE)	8.82	0.50	µg/L	10.0		88.2	70-130	0.565	25	
1,4-Dioxane	93.0	100	µg/L	100		93.0	40-130	4.77	50	J † ‡
Ethylbenzene	11.0	1.0	µg/L	10.0		110	70-130	3.04	25	
Hexachlorobutadiene	12.6	1.0	µg/L	10.0		126	70-130	0.953	25	
2-Hexanone (MBK)	97.3	10	µg/L	100		97.3	70-160	2.15	25	†
Isopropylbenzene (Cumene)	11.1	1.0	µg/L	10.0		111	70-130	3.70	25	
p-Isopropyltoluene (p-Cymene)	10.7	1.0	µg/L	10.0		107	70-130	1.79	25	
Methyl Acetate	9.18	1.0	µg/L	10.0		91.8	70-130	1.83	25	
Methyl tert-Butyl Ether (MTBE)	9.98	1.0	µg/L	10.0		99.8	70-130	1.79	25	
Methyl Cyclohexane	10.2	1.0	µg/L	10.0		102	70-130	1.75	25	
Methylene Chloride	8.74	5.0	µg/L	10.0		87.4	70-130	0.911	25	
4-Methyl-2-pentanone (MIBK)	95.9	10	µg/L	100		95.9	70-160	2.62	25	†
Naphthalene	8.57	2.0	µg/L	10.0		85.7	40-130	0.117	25	V-05 †
n-Propylbenzene	10.5	1.0	µg/L	10.0		105	70-130	3.64	25	
Styrene	11.0	1.0	µg/L	10.0		110	70-130	1.97	25	
1,1,1,2-Tetrachloroethane	11.3	1.0	µg/L	10.0		113	70-130	0.884	25	
1,1,2,2-Tetrachloroethane	10.9	0.50	µg/L	10.0		109	70-130	0.822	25	
Tetrachloroethylene	12.0	1.0	µg/L	10.0		120	70-130	3.11	25	
Tetrahydrofuran	9.68	10	µg/L	10.0		96.8	70-130	1.04	25	J
Toluene	10.7	1.0	µg/L	10.0		107	70-130	0.834	25	
1,2,3-Trichlorobenzene	9.96	5.0	µg/L	10.0		99.6	70-130	0.705	25	
1,2,4-Trichlorobenzene	9.84	1.0	µg/L	10.0		98.4	70-130	1.02	25	
1,3,5-Trichlorobenzene	11.4	1.0	µg/L	10.0		114	70-130	1.24	25	
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130	1.75	25	
1,1,2-Trichloroethane	11.1	1.0	µg/L	10.0		111	70-130	0.983	25	
Trichloroethylene	10.8	1.0	µg/L	10.0		108	70-130	3.44	25	
Trichlorofluoromethane (Freon 11)	9.22	2.0	µg/L	10.0		92.2	70-130	3.10	25	
1,2,3-Trichloropropane	11.4	2.0	µg/L	10.0		114	70-130	1.47	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.8	1.0	µg/L	10.0		108	70-130	0.928	25	
1,2,4-Trimethylbenzene	10.6	1.0	µg/L	10.0		106	70-130	2.29	25	
1,3,5-Trimethylbenzene	10.8	1.0	µg/L	10.0		108	70-130	1.84	25	
Vinyl Chloride	9.58	2.0	µg/L	10.0		95.8	40-160	6.27	25	†
m+p Xylene	22.2	2.0	µg/L	20.0		111	70-130	1.61	25	
o-Xylene	10.7	1.0	µg/L	10.0		107	70-130	2.50	25	
Surrogate: 1,2-Dichloroethane-d4	22.8		µg/L	25.0		91.2	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	24.7		µg/L	25.0		98.6	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204378 - SW-846 3510C										
Blank (B204378-BLK1)				Prepared: 05/27/18 Analyzed: 06/01/18						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							R-05
Aniline	ND	5.0	µg/L							V-05
Anthracene	ND	5.0	µg/L							
Benzidine	ND	20	µg/L							L-04, V-04, V-05
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Benzoic Acid	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							R-05
Bis(2-chloroisopropyl)ether	ND	10	µg/L							R-05
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							R-05
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							R-05
1,3-Dichlorobenzene	ND	5.0	µg/L							R-05
1,4-Dichlorobenzene	ND	5.0	µg/L							R-05
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204378 - SW-846 3510C										
Blank (B204378-BLK1)										
Prepared: 05/27/18 Analyzed: 06/01/18										
2-Methylphenol	ND	10	µg/L							R-05
3/4-Methylphenol	ND	10	µg/L							R-05
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodimethylamine	ND	10	µg/L							R-05, V-20
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							R-05
Pentachloronitrobenzene	ND	10	µg/L							V-16
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							R-05
Pyrene	ND	5.0	µg/L							
Pyridine	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	162		µg/L	200		81.0	15-110			
Surrogate: Phenol-d6	119		µg/L	200		59.7	15-110			
Surrogate: Nitrobenzene-d5	82.4		µg/L	100		82.4	30-130			
Surrogate: 2-Fluorobiphenyl	59.5		µg/L	101		58.9	30-130			
Surrogate: 2,4,6-Tribromophenol	133		µg/L	200		66.6	15-110			
Surrogate: p-Terphenyl-d14	73.2		µg/L	101		72.5	30-130			
LCS (B204378-BS1)										
Prepared: 05/27/18 Analyzed: 06/01/18										
Acenaphthene	39.9	5.0	µg/L	50.0		79.8	40-140			
Acenaphthylene	41.4	5.0	µg/L	50.0		82.9	40-140			
Acetophenone	65.2	10	µg/L	50.0		130	40-140			R-05
Aniline	48.9	5.0	µg/L	50.0		97.9	40-140			V-05
Anthracene	41.9	5.0	µg/L	50.0		83.9	40-140			
Benzidine	15.1	20	µg/L	51.9		29.1	* 40-140			L-04, V-04, V-05, J
Benzo(a)anthracene	38.8	5.0	µg/L	50.0		77.5	40-140			
Benzo(a)pyrene	40.6	5.0	µg/L	50.0		81.1	40-140			
Benzo(b)fluoranthene	39.2	5.0	µg/L	50.0		78.3	40-140			
Benzo(g,h,i)perylene	41.7	5.0	µg/L	50.0		83.5	40-140			
Benzo(k)fluoranthene	38.5	5.0	µg/L	50.0		77.0	40-140			
Benzoic Acid	25.6	10	µg/L	50.0		51.1	10-130			†
Bis(2-chloroethoxy)methane	49.4	10	µg/L	50.0		98.7	40-140			
Bis(2-chloroethyl)ether	69.6	10	µg/L	50.0		139	40-140			R-05
Bis(2-chloroisopropyl)ether	72.9	10	µg/L	50.0		146	* 40-140			L-07A
Bis(2-Ethylhexyl)phthalate	39.1	10	µg/L	50.0		78.2	40-140			
4-Bromophenylphenylether	39.1	10	µg/L	50.0		78.2	40-140			
Butylbenzylphthalate	39.5	10	µg/L	50.0		78.9	40-140			
Carbazole	42.1	10	µg/L	50.0		84.2	40-140			
4-Chloroaniline	45.3	10	µg/L	50.0		90.6	40-140			V-34
4-Chloro-3-methylphenol	50.2	10	µg/L	50.0		100	30-130			
2-Chloronaphthalene	36.0	10	µg/L	50.0		72.1	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204378 - SW-846 3510C										
LCS (B204378-BS1)										
Prepared: 05/27/18 Analyzed: 06/01/18										
2-Chlorophenol	60.0	10	µg/L	50.0		120	30-130			R-05
4-Chlorophenylphenylether	43.0	10	µg/L	50.0		86.0	40-140			
Chrysene	39.7	5.0	µg/L	50.0		79.4	40-140			
Dibenz(a,h)anthracene	45.7	5.0	µg/L	50.0		91.4	40-140			
Dibenzofuran	43.1	5.0	µg/L	50.0		86.2	40-140			
Di-n-butylphthalate	42.2	10	µg/L	50.0		84.4	40-140			
1,2-Dichlorobenzene	48.6	5.0	µg/L	50.0		97.2	40-140			R-05
1,3-Dichlorobenzene	46.2	5.0	µg/L	50.0		92.5	40-140			R-05
1,4-Dichlorobenzene	48.0	5.0	µg/L	50.0		96.1	40-140			R-05
3,3-Dichlorobenzidine	47.0	10	µg/L	51.9		90.5	40-140			
2,4-Dichlorophenol	44.9	10	µg/L	50.0		89.9	30-130			
Diethylphthalate	43.1	10	µg/L	50.0		86.1	40-140			
2,4-Dimethylphenol	46.0	10	µg/L	50.0		92.0	30-130			
Dimethylphthalate	44.5	10	µg/L	50.0		89.0	40-140			
4,6-Dinitro-2-methylphenol	42.1	10	µg/L	50.0		84.1	30-130			
2,4-Dinitrophenol	42.2	10	µg/L	50.0		84.5	30-130			
2,4-Dinitrotoluene	48.5	10	µg/L	50.0		96.9	40-140			
2,6-Dinitrotoluene	47.0	10	µg/L	50.0		94.0	40-140			
Di-n-octylphthalate	37.2	10	µg/L	50.0		74.5	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	43.1	10	µg/L	50.0		86.3	40-140			
Fluoranthene	42.0	5.0	µg/L	50.0		84.0	40-140			
Fluorene	42.6	5.0	µg/L	50.0		85.3	40-140			
Hexachlorobenzene	37.9	10	µg/L	50.0		75.8	40-140			
Hexachlorobutadiene	37.7	10	µg/L	50.0		75.4	40-140			
Hexachlorocyclopentadiene	17.5	10	µg/L	50.0		35.0	30-140			V-05 †
Hexachloroethane	50.2	10	µg/L	50.0		100	40-140			
Indeno(1,2,3-cd)pyrene	45.2	5.0	µg/L	50.0		90.4	40-140			
Isophorone	48.9	10	µg/L	50.0		97.9	40-140			
1-Methylnaphthalene	45.4	5.0	µg/L	50.0		90.9	40-140			
2-Methylnaphthalene	46.2	5.0	µg/L	50.0		92.4	40-140			
2-Methylphenol	50.3	10	µg/L	50.0		101	30-130			R-05
3/4-Methylphenol	58.3	10	µg/L	50.0		117	30-130			R-05
Naphthalene	40.1	5.0	µg/L	50.0		80.2	40-140			
2-Nitroaniline	51.4	10	µg/L	50.0		103	40-140			
3-Nitroaniline	46.7	10	µg/L	50.0		93.3	40-140			
4-Nitroaniline	45.5	10	µg/L	50.0		91.0	40-140			
Nitrobenzene	43.0	10	µg/L	50.0		86.0	40-140			
2-Nitrophenol	47.0	10	µg/L	50.0		94.1	30-130			
4-Nitrophenol	35.2	10	µg/L	50.0		70.4	10-130			†
N-Nitrosodimethylamine	52.2	10	µg/L	50.0		104	40-140			R-05, V-06
N-Nitrosodiphenylamine	49.0	10	µg/L	50.0		97.9	40-140			
N-Nitrosodi-n-propylamine	68.9	10	µg/L	50.0		138	40-140			R-05
Pentachloronitrobenzene	41.1	10	µg/L	50.0		82.2	40-140			V-16
Pentachlorophenol	29.0	10	µg/L	50.0		57.9	30-130			
Phenanthrene	41.8	5.0	µg/L	50.0		83.5	40-140			
Phenol	31.0	10	µg/L	50.0		62.1	20-130			R-05 †
Pyrene	36.2	5.0	µg/L	50.0		72.3	40-140			
Pyridine	18.8	5.0	µg/L	50.0		37.6	10-140			†
1,2,4,5-Tetrachlorobenzene	38.4	10	µg/L	50.0		76.7	40-140			
1,2,4-Trichlorobenzene	38.4	5.0	µg/L	50.0		76.9	40-140			
2,4,5-Trichlorophenol	43.3	10	µg/L	50.0		86.7	30-130			
2,4,6-Trichlorophenol	41.2	10	µg/L	50.0		82.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204378 - SW-846 3510C

LCS (B204378-BS1)

Prepared: 05/27/18 Analyzed: 06/01/18

Surrogate: 2-Fluorophenol	177		µg/L	200		88.5	15-110			
Surrogate: Phenol-d6	144		µg/L	200		72.0	15-110			
Surrogate: Nitrobenzene-d5	95.0		µg/L	100		95.0	30-130			
Surrogate: 2-Fluorobiphenyl	76.4		µg/L	101		75.6	30-130			
Surrogate: 2,4,6-Tribromophenol	189		µg/L	200		94.7	15-110			
Surrogate: p-Terphenyl-d14	79.2		µg/L	101		78.4	30-130			

LCS Dup (B204378-BSD1)

Prepared: 05/27/18 Analyzed: 06/01/18

Acenaphthene	36.5	5.0	µg/L	50.0		73.0	40-140	8.96	20	
Acenaphthylene	38.3	5.0	µg/L	50.0		76.6	40-140	7.83	20	
Acetophenone	48.3	10	µg/L	50.0		96.6	40-140	29.8	20	R-05
Aniline	38.4	5.0	µg/L	50.0		76.7	40-140	24.2	50	V-05 ‡
Anthracene	38.4	5.0	µg/L	50.0		76.7	40-140	8.89	20	
Benzidine	17.3	20	µg/L	51.9		33.3	40-140	13.5	20	L-04, V-04, V-05, J
Benzo(a)anthracene	36.6	5.0	µg/L	50.0		73.2	40-140	5.65	20	
Benzo(a)pyrene	38.7	5.0	µg/L	50.0		77.3	40-140	4.77	20	
Benzo(b)fluoranthene	36.8	5.0	µg/L	50.0		73.6	40-140	6.19	20	
Benzo(g,h,i)perylene	40.2	5.0	µg/L	50.0		80.4	40-140	3.78	20	
Benzo(k)fluoranthene	36.8	5.0	µg/L	50.0		73.7	40-140	4.43	20	
Benzoic Acid	19.5	10	µg/L	50.0		39.0	10-130	27.0	50	† ‡
Bis(2-chloroethoxy)methane	44.8	10	µg/L	50.0		89.7	40-140	9.55	20	
Bis(2-chloroethyl)ether	52.8	10	µg/L	50.0		106	40-140	27.6	20	R-05
Bis(2-chloroisopropyl)ether	54.9	10	µg/L	50.0		110	40-140	28.1	20	R-05
Bis(2-Ethylhexyl)phthalate	35.8	10	µg/L	50.0		71.6	40-140	8.76	20	
4-Bromophenylphenylether	37.0	10	µg/L	50.0		74.1	40-140	5.41	20	
Butylbenzylphthalate	36.1	10	µg/L	50.0		72.3	40-140	8.81	20	
Carbazole	39.5	10	µg/L	50.0		79.0	40-140	6.32	20	
4-Chloroaniline	45.4	10	µg/L	50.0		90.9	40-140	0.309	20	V-34
4-Chloro-3-methylphenol	44.9	10	µg/L	50.0		89.7	30-130	11.2	20	
2-Chloronaphthalene	34.2	10	µg/L	50.0		68.4	40-140	5.18	20	
2-Chlorophenol	43.9	10	µg/L	50.0		87.9	30-130	31.0	20	R-05
4-Chlorophenylphenylether	38.2	10	µg/L	50.0		76.4	40-140	11.7	20	
Chrysene	36.8	5.0	µg/L	50.0		73.7	40-140	7.45	20	
Dibenz(a,h)anthracene	43.6	5.0	µg/L	50.0		87.2	40-140	4.66	20	
Dibenzofuran	39.6	5.0	µg/L	50.0		79.2	40-140	8.47	20	
Di-n-butylphthalate	38.3	10	µg/L	50.0		76.7	40-140	9.56	20	
1,2-Dichlorobenzene	37.6	5.0	µg/L	50.0		75.3	40-140	25.4	20	R-05
1,3-Dichlorobenzene	34.6	5.0	µg/L	50.0		69.2	40-140	28.8	20	R-05
1,4-Dichlorobenzene	36.7	5.0	µg/L	50.0		73.4	40-140	26.7	20	R-05
3,3-Dichlorobenzidine	44.3	10	µg/L	51.9		85.4	40-140	5.81	20	
2,4-Dichlorophenol	39.9	10	µg/L	50.0		79.8	30-130	11.9	20	
Diethylphthalate	38.7	10	µg/L	50.0		77.3	40-140	10.7	20	
2,4-Dimethylphenol	43.5	10	µg/L	50.0		86.9	30-130	5.64	20	
Dimethylphthalate	41.0	10	µg/L	50.0		82.1	40-140	8.09	50	‡
4,6-Dinitro-2-methylphenol	38.1	10	µg/L	50.0		76.1	30-130	10.0	50	‡
2,4-Dinitrophenol	40.5	10	µg/L	50.0		80.9	30-130	4.26	50	‡
2,4-Dinitrotoluene	43.4	10	µg/L	50.0		86.9	40-140	10.9	20	
2,6-Dinitrotoluene	41.7	10	µg/L	50.0		83.4	40-140	12.0	20	
Di-n-octylphthalate	34.0	10	µg/L	50.0		67.9	40-140	9.19	20	
1,2-Diphenylhydrazine (as Azobenzene)	40.8	10	µg/L	50.0		81.5	40-140	5.65	20	
Fluoranthene	39.1	5.0	µg/L	50.0		78.2	40-140	7.13	20	
Fluorene	39.2	5.0	µg/L	50.0		78.4	40-140	8.43	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204378 - SW-846 3510C

LCS Dup (B204378-BSD1)

Prepared: 05/27/18 Analyzed: 06/01/18

Hexachlorobenzene	36.0	10	µg/L	50.0		72.0	40-140	5.14	20	
Hexachlorobutadiene	34.8	10	µg/L	50.0		69.7	40-140	7.80	20	
Hexachlorocyclopentadiene	16.9	10	µg/L	50.0		33.8	30-140	3.55	50	V-05 † ‡
Hexachloroethane	36.9	10	µg/L	50.0		73.7	40-140	30.7	50	‡
Indeno(1,2,3-cd)pyrene	41.1	5.0	µg/L	50.0		82.2	40-140	9.43	50	‡
Isophorone	44.4	10	µg/L	50.0		88.9	40-140	9.60	20	
1-Methylnaphthalene	40.2	5.0	µg/L	50.0		80.5	40-140	12.1	20	
2-Methylnaphthalene	42.2	5.0	µg/L	50.0		84.3	40-140	9.12	20	
2-Methylphenol	38.6	10	µg/L	50.0		77.2	30-130	26.3 *	20	R-05
3/4-Methylphenol	42.5	10	µg/L	50.0		84.9	30-130	31.4 *	20	R-05
Naphthalene	37.0	5.0	µg/L	50.0		73.9	40-140	8.15	20	
2-Nitroaniline	46.9	10	µg/L	50.0		93.8	40-140	9.21	20	
3-Nitroaniline	41.3	10	µg/L	50.0		82.7	40-140	12.1	20	
4-Nitroaniline	41.6	10	µg/L	50.0		83.3	40-140	8.84	20	
Nitrobenzene	39.8	10	µg/L	50.0		79.5	40-140	7.78	20	
2-Nitrophenol	43.9	10	µg/L	50.0		87.9	30-130	6.81	20	
4-Nitrophenol	31.4	10	µg/L	50.0		62.9	10-130	11.3	50	† ‡
N-Nitrosodimethylamine	38.2	10	µg/L	50.0		76.3	40-140	31.0 *	20	R-05, V-06
N-Nitrosodiphenylamine	45.9	10	µg/L	50.0		91.7	40-140	6.52	20	
N-Nitrosodi-n-propylamine	49.7	10	µg/L	50.0		99.4	40-140	32.3 *	20	R-05
Pentachloronitrobenzene	38.2	10	µg/L	50.0		76.3	40-140	7.44	20	V-16
Pentachlorophenol	26.3	10	µg/L	50.0		52.7	30-130	9.48	50	‡
Phenanthrene	38.5	5.0	µg/L	50.0		77.0	40-140	8.12	20	
Phenol	23.3	10	µg/L	50.0		46.6	20-130	28.4 *	20	R-05 †
Pyrene	34.5	5.0	µg/L	50.0		69.0	40-140	4.78	20	
Pyridine	14.9	5.0	µg/L	50.0		29.8	10-140	23.2	50	† ‡
1,2,4,5-Tetrachlorobenzene	36.4	10	µg/L	50.0		72.8	40-140	5.19	20	
1,2,4-Trichlorobenzene	35.3	5.0	µg/L	50.0		70.5	40-140	8.63	20	
2,4,5-Trichlorophenol	39.7	10	µg/L	50.0		79.4	30-130	8.74	20	
2,4,6-Trichlorophenol	38.2	10	µg/L	50.0		76.3	30-130	7.59	50	‡
Surrogate: 2-Fluorophenol	133		µg/L	200		66.4	15-110			
Surrogate: Phenol-d6	105		µg/L	200		52.4	15-110			
Surrogate: Nitrobenzene-d5	84.0		µg/L	100		84.0	30-130			
Surrogate: 2-Fluorobiphenyl	70.1		µg/L	101		69.4	30-130			
Surrogate: 2,4,6-Tribromophenol	168		µg/L	200		83.9	15-110			
Surrogate: p-Terphenyl-d14	72.7		µg/L	101		72.0	30-130			

Matrix Spike (B204378-MS1)

Source: 18E1297-01

Prepared: 05/27/18 Analyzed: 06/01/18

Acenaphthene	44.6	6.2	µg/L	62.5	ND	71.3	40-140			
Acenaphthylene	45.8	6.2	µg/L	62.5	ND	73.3	40-140			
Acetophenone	68.8	12	µg/L	62.5	ND	110	40-140			
Aniline	50.2	6.2	µg/L	62.5	ND	80.4	40-140			R-06
Anthracene	48.4	6.2	µg/L	62.5	ND	77.4	40-140			
Benzidine	ND	25	µg/L	64.9	ND	*	40-140			MS-09, V-04, V-05
Benzo(a)anthracene	45.7	6.2	µg/L	62.5	ND	73.1	40-140			
Benzo(a)pyrene	48.6	6.2	µg/L	62.5	ND	77.7	40-140			
Benzo(b)fluoranthene	47.7	6.2	µg/L	62.5	ND	76.4	40-140			
Benzo(g,h,i)perylene	49.0	6.2	µg/L	62.5	ND	78.5	40-140			
Benzo(k)fluoranthene	47.3	6.2	µg/L	62.5	ND	75.6	40-140			
Benzoic Acid	31.5	12	µg/L	62.5	ND	50.4	40-140			
Bis(2-chloroethoxy)methane	55.9	12	µg/L	62.5	ND	89.5	40-140			
Bis(2-chloroethyl)ether	73.7	12	µg/L	62.5	ND	118	40-140			

R-06

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204378 - SW-846 3510C										
Matrix Spike (B204378-MS1)	Source: 18E1297-01			Prepared: 05/27/18 Analyzed: 06/01/18						
Bis(2-chloroisopropyl)ether	74.5	12	µg/L	62.5	ND	119	40-140			
Bis(2-Ethylhexyl)phthalate	49.1	12	µg/L	62.5	ND	78.5	40-140			
4-Bromophenylphenylether	44.0	12	µg/L	62.5	ND	70.4	40-140			
Butylbenzylphthalate	49.6	12	µg/L	62.5	ND	79.4	40-140			
Carbazole	49.6	12	µg/L	62.5	ND	79.4	40-140			
4-Chloroaniline	51.6	12	µg/L	62.5	ND	82.5	40-140			V-34
4-Chloro-3-methylphenol	59.3	12	µg/L	62.5	ND	94.9	30-130			
2-Chloronaphthalene	43.2	12	µg/L	62.5	ND	69.2	40-140			
2-Chlorophenol	62.0	12	µg/L	62.5	ND	99.1	30-130			
4-Chlorophenylphenylether	49.4	12	µg/L	62.5	ND	79.0	40-140			
Chrysene	45.0	6.2	µg/L	62.5	ND	71.9	40-140			
Dibenz(a,h)anthracene	55.5	6.2	µg/L	62.5	ND	88.9	40-140			
Dibenzofuran	48.4	6.2	µg/L	62.5	ND	77.4	40-140			
Di-n-butylphthalate	48.3	12	µg/L	62.5	ND	77.3	40-140			
1,2-Dichlorobenzene	54.1	6.2	µg/L	62.5	ND	86.5	40-140			
1,3-Dichlorobenzene	50.7	6.2	µg/L	62.5	ND	81.1	40-140			
1,4-Dichlorobenzene	51.8	6.2	µg/L	62.5	ND	82.9	40-140			
3,3-Dichlorobenzidine	48.5	12	µg/L	64.9	ND	74.8	40-140			
2,4-Dichlorophenol	51.6	12	µg/L	62.5	ND	82.6	30-130			
Diethylphthalate	47.8	12	µg/L	62.5	ND	76.4	40-140			
2,4-Dimethylphenol	50.0	12	µg/L	62.5	ND	79.9	30-130			R-06
Dimethylphthalate	48.8	12	µg/L	62.5	ND	78.1	40-140			
4,6-Dinitro-2-methylphenol	40.2	12	µg/L	62.5	ND	64.3	30-130			
2,4-Dinitrophenol	42.0	12	µg/L	62.5	ND	67.2	30-130			
2,4-Dinitrotoluene	56.2	12	µg/L	62.5	ND	90.0	40-140			
2,6-Dinitrotoluene	52.5	12	µg/L	62.5	ND	84.0	40-140			
Di-n-octylphthalate	55.6	12	µg/L	62.5	ND	88.9	40-140			
1,2-Diphenylhydrazine (as Azobenzene)	44.6	12	µg/L	62.5	ND	71.3	40-140			
Fluoranthene	51.2	6.2	µg/L	62.5	ND	82.0	40-140			
Fluorene	49.8	6.2	µg/L	62.5	ND	79.6	40-140			
Hexachlorobenzene	43.1	12	µg/L	62.5	ND	69.0	40-140			
Hexachlorobutadiene	45.8	12	µg/L	62.5	ND	73.3	40-140			
Hexachlorocyclopentadiene	14.1	12	µg/L	62.5	ND	22.5 *	30-130			MS-09
Hexachloroethane	52.1	12	µg/L	62.5	ND	83.4	40-140			
Indeno(1,2,3-cd)pyrene	53.4	6.2	µg/L	62.5	ND	85.5	40-140			
Isophorone	53.8	12	µg/L	62.5	ND	86.1	40-140			
1-Methylnaphthalene	55.1	6.2	µg/L	62.5	ND	88.2	40-140			
2-Methylnaphthalene	54.7	6.2	µg/L	62.5	ND	87.5	40-140			
2-Methylphenol	50.3	12	µg/L	62.5	ND	80.5	30-130			
3/4-Methylphenol	64.8	12	µg/L	62.5	ND	104	30-130			
Naphthalene	47.2	6.2	µg/L	62.5	ND	75.5	40-140			
2-Nitroaniline	56.1	12	µg/L	62.5	ND	89.8	40-140			
3-Nitroaniline	52.5	12	µg/L	62.5	ND	84.0	40-140			
4-Nitroaniline	50.3	12	µg/L	62.5	ND	80.4	40-140			
Nitrobenzene	50.3	12	µg/L	62.5	ND	80.5	40-140			
2-Nitrophenol	54.9	12	µg/L	62.5	ND	87.9	30-130			
4-Nitrophenol	47.7	12	µg/L	62.5	ND	76.4	30-130			
N-Nitrosodimethylamine	57.0	12	µg/L	62.5	ND	91.2	40-140			
N-Nitrosodiphenylamine	50.8	12	µg/L	62.5	ND	81.3	40-140			
N-Nitrosodi-n-propylamine	71.6	12	µg/L	62.5	ND	115	40-140			
Pentachloronitrobenzene	46.3	12	µg/L	62.5	ND	74.1	40-140			V-16
Pentachlorophenol	23.2	12	µg/L	62.5	ND	37.0	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204378 - SW-846 3510C										
Matrix Spike (B204378-MS1)	Source: 18E1297-01			Prepared: 05/27/18 Analyzed: 06/01/18						
Phenanthrene	48.0	6.2	µg/L	62.5	ND	76.8	40-140			
Phenol	46.6	12	µg/L	62.5	ND	74.5	30-130			R-06
Pyrene	47.8	6.2	µg/L	62.5	ND	76.5	40-140			
Pyridine	30.8	6.2	µg/L	62.5	ND	49.3	40-140			R-06
1,2,4,5-Tetrachlorobenzene	42.4	12	µg/L	62.5	ND	67.9	40-140			
1,2,4-Trichlorobenzene	45.4	6.2	µg/L	62.5	ND	72.6	40-140			
2,4,5-Trichlorophenol	47.9	12	µg/L	62.5	ND	76.6	30-130			
2,4,6-Trichlorophenol	47.0	12	µg/L	62.5	ND	75.2	30-130			
Surrogate: 2-Fluorophenol	200		µg/L	250		80.0	15-110			
Surrogate: Phenol-d6	162		µg/L	250		65.0	15-110			
Surrogate: Nitrobenzene-d5	105		µg/L	125		84.4	30-130			
Surrogate: 2-Fluorobiphenyl	83.6		µg/L	126		66.2	30-130			
Surrogate: 2,4,6-Tribromophenol	229		µg/L	250		91.5	15-110			
Surrogate: p-Terphenyl-d14	105		µg/L	126		83.3	30-130			
Matrix Spike Dup (B204378-MSD1)	Source: 18E1297-01			Prepared: 05/27/18 Analyzed: 06/01/18						
Acenaphthene	42.5	6.1	µg/L	61.0	ND	69.7	40-140	4.71	30	
Acenaphthylene	43.8	6.1	µg/L	61.0	ND	71.8	40-140	4.48	30	
Acetophenone	54.9	12	µg/L	61.0	ND	90.0	40-140	22.6	30	
Aniline	32.3	6.1	µg/L	61.0	ND	53.0	40-140	43.5 *	30	R-06
Anthracene	45.2	6.1	µg/L	61.0	ND	74.1	40-140	6.93	30	
Benzidine	ND	24	µg/L	63.3	ND	*	40-140		30	MS-09, V-04, V-05
Benzo(a)anthracene	43.5	6.1	µg/L	61.0	ND	71.3	40-140	4.93	30	
Benzo(a)pyrene	46.0	6.1	µg/L	61.0	ND	75.5	40-140	5.44	30	
Benzo(b)fluoranthene	46.4	6.1	µg/L	61.0	ND	76.2	40-140	2.73	30	
Benzo(g,h,i)perylene	46.0	6.1	µg/L	61.0	ND	75.5	40-140	6.34	30	
Benzo(k)fluoranthene	45.4	6.1	µg/L	61.0	ND	74.5	40-140	3.99	30	
Benzoic Acid	23.9	12	µg/L	61.0	ND	39.1 *	40-140	27.7	30	MS-22
Bis(2-chloroethoxy)methane	45.8	12	µg/L	61.0	ND	75.2	40-140	19.8	30	
Bis(2-chloroethyl)ether	103	12	µg/L	61.0	ND	169 *	40-140	33.1 *	30	MS-23
Bis(2-chloroisopropyl)ether	58.6	12	µg/L	61.0	ND	96.1	40-140	23.9	30	
Bis(2-Ethylhexyl)phthalate	47.9	12	µg/L	61.0	ND	78.6	40-140	2.34	30	
4-Bromophenylphenylether	41.1	12	µg/L	61.0	ND	67.4	40-140	6.73	30	
Butylbenzylphthalate	47.4	12	µg/L	61.0	ND	77.8	40-140	4.48	30	
Carbazole	47.9	12	µg/L	61.0	ND	78.5	40-140	3.63	30	
4-Chloroaniline	42.7	12	µg/L	61.0	ND	70.0	40-140	18.9	30	V-34
4-Chloro-3-methylphenol	47.5	12	µg/L	61.0	ND	77.9	30-130	22.0	30	
2-Chloronaphthalene	41.2	12	µg/L	61.0	ND	67.6	40-140	4.75	30	
2-Chlorophenol	49.5	12	µg/L	61.0	ND	81.1	30-130	22.4	30	
4-Chlorophenylphenylether	46.1	12	µg/L	61.0	ND	75.6	40-140	6.82	30	
Chrysene	42.6	6.1	µg/L	61.0	ND	69.8	40-140	5.43	30	
Dibenz(a,h)anthracene	53.6	6.1	µg/L	61.0	ND	88.0	40-140	3.49	30	
Dibenzofuran	46.1	6.1	µg/L	61.0	ND	75.6	40-140	4.82	30	
Di-n-butylphthalate	46.4	12	µg/L	61.0	ND	76.1	40-140	4.01	30	
1,2-Dichlorobenzene	43.1	6.1	µg/L	61.0	ND	70.7	40-140	22.6	30	
1,3-Dichlorobenzene	40.7	6.1	µg/L	61.0	ND	66.7	40-140	21.9	30	
1,4-Dichlorobenzene	41.8	6.1	µg/L	61.0	ND	68.6	40-140	21.4	30	
3,3-Dichlorobenzidine	44.0	12	µg/L	63.3	ND	69.5	40-140	9.76	30	
2,4-Dichlorophenol	41.2	12	µg/L	61.0	ND	67.6	30-130	22.5	30	
Diethylphthalate	45.4	12	µg/L	61.0	ND	74.4	40-140	5.12	30	
2,4-Dimethylphenol	28.9	12	µg/L	61.0	ND	47.4	30-130	53.5 *	30	R-06
Dimethylphthalate	46.1	12	µg/L	61.0	ND	75.6	40-140	5.64	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204378 - SW-846 3510C										
Matrix Spike Dup (B204378-MSD1)	Source: 18E1297-01			Prepared: 05/27/18 Analyzed: 06/01/18						
4,6-Dinitro-2-methylphenol	39.1	12	µg/L	61.0	ND	64.1	30-130	2.81	30	
2,4-Dinitrophenol	40.2	12	µg/L	61.0	ND	65.9	30-130	4.51	30	
2,4-Dinitrotoluene	53.3	12	µg/L	61.0	ND	87.4	40-140	5.40	30	
2,6-Dinitrotoluene	49.6	12	µg/L	61.0	ND	81.4	40-140	5.61	30	
Di-n-octylphthalate	56.0	12	µg/L	61.0	ND	91.9	40-140	0.805	30	
1,2-Diphenylhydrazine (as Azobenzene)	42.4	12	µg/L	61.0	ND	69.5	40-140	5.08	30	
Fluoranthene	49.3	6.1	µg/L	61.0	ND	80.8	40-140	3.92	30	
Fluorene	47.2	6.1	µg/L	61.0	ND	77.4	40-140	5.37	30	
Hexachlorobenzene	40.8	12	µg/L	61.0	ND	67.0	40-140	5.41	30	
Hexachlorobutadiene	38.0	12	µg/L	61.0	ND	62.4	40-140	18.6	30	
Hexachlorocyclopentadiene	13.6	12	µg/L	61.0	ND	22.3	* 30-130	3.36	30	MS-09
Hexachloroethane	42.2	12	µg/L	61.0	ND	69.2	40-140	21.1	30	
Indeno(1,2,3-cd)pyrene	51.7	6.1	µg/L	61.0	ND	84.8	40-140	3.27	30	
Isophorone	45.6	12	µg/L	61.0	ND	74.8	40-140	16.5	30	
1-Methylnaphthalene	45.1	6.1	µg/L	61.0	ND	73.9	40-140	20.1	30	
2-Methylnaphthalene	46.1	6.1	µg/L	61.0	ND	75.5	40-140	17.2	30	
2-Methylphenol	37.3	12	µg/L	61.0	ND	61.1	30-130	29.8	30	
3/4-Methylphenol	49.1	12	µg/L	61.0	ND	80.5	30-130	27.6	30	
Naphthalene	39.5	6.1	µg/L	61.0	ND	64.8	40-140	17.7	30	
2-Nitroaniline	53.2	12	µg/L	61.0	ND	87.2	40-140	5.36	30	
3-Nitroaniline	51.8	12	µg/L	61.0	ND	84.9	40-140	1.40	30	
4-Nitroaniline	47.8	12	µg/L	61.0	ND	78.4	40-140	5.01	30	
Nitrobenzene	42.1	12	µg/L	61.0	ND	69.1	40-140	17.8	30	
2-Nitrophenol	46.5	12	µg/L	61.0	ND	76.2	30-130	16.6	30	
4-Nitrophenol	40.0	12	µg/L	61.0	ND	65.6	30-130	17.6	30	
N-Nitrosodimethylamine	46.9	12	µg/L	61.0	ND	76.9	40-140	19.4	30	
N-Nitrosodiphenylamine	49.3	12	µg/L	61.0	ND	80.8	40-140	3.09	30	
N-Nitrosodi-n-propylamine	54.6	12	µg/L	61.0	ND	89.6	40-140	27.0	30	
Pentachloronitrobenzene	44.2	12	µg/L	61.0	ND	72.4	40-140	4.79	30	V-16
Pentachlorophenol	20.5	12	µg/L	61.0	ND	33.5	30-130	12.4	30	
Phenanthrene	45.9	6.1	µg/L	61.0	ND	75.3	40-140	4.36	30	
Phenol	31.6	12	µg/L	61.0	ND	51.9	30-130	38.1	* 30	R-06
Pyrene	45.0	6.1	µg/L	61.0	ND	73.8	40-140	6.06	30	
Pyridine	20.0	6.1	µg/L	61.0	ND	32.8	* 40-140	42.5	* 30	MS-23
1,2,4,5-Tetrachlorobenzene	40.7	12	µg/L	61.0	ND	66.7	40-140	4.13	30	
1,2,4-Trichlorobenzene	38.1	6.1	µg/L	61.0	ND	62.5	40-140	17.4	30	
2,4,5-Trichlorophenol	45.8	12	µg/L	61.0	ND	75.1	30-130	4.37	30	
2,4,6-Trichlorophenol	44.5	12	µg/L	61.0	ND	72.9	30-130	5.47	30	
Surrogate: 2-Fluorophenol	155		µg/L	244		63.6	15-110			
Surrogate: Phenol-d6	119		µg/L	244		48.8	15-110			
Surrogate: Nitrobenzene-d5	89.1		µg/L	122		73.1	30-130			
Surrogate: 2-Fluorobiphenyl	79.0		µg/L	123		64.2	30-130			
Surrogate: 2,4,6-Tribromophenol	212		µg/L	244		87.0	15-110			
Surrogate: p-Terphenyl-d14	98.9		µg/L	123		80.3	30-130			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204338 - SW-846 3510C										
Blank (B204338-BLK1)				Prepared: 05/25/18 Analyzed: 06/07/18						
alpha-Chlordane	ND	0.050	µg/L							
alpha-Chlordane [2C]	ND	0.050	µg/L							
gamma-Chlordane	ND	0.050	µg/L							
gamma-Chlordane [2C]	ND	0.050	µg/L							
Alachlor	ND	0.20	µg/L							
Alachlor [2C]	ND	0.20	µg/L							
Aldrin	ND	0.050	µg/L							
Aldrin [2C]	ND	0.050	µg/L							
alpha-BHC	ND	0.050	µg/L							
alpha-BHC [2C]	ND	0.050	µg/L							
beta-BHC	ND	0.050	µg/L							
beta-BHC [2C]	ND	0.050	µg/L							
delta-BHC	ND	0.050	µg/L							
delta-BHC [2C]	ND	0.050	µg/L							
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
4,4'-DDD	ND	0.040	µg/L							
4,4'-DDD [2C]	ND	0.040	µg/L							
4,4'-DDE	ND	0.040	µg/L							
4,4'-DDE [2C]	ND	0.040	µg/L							
4,4'-DDT	ND	0.040	µg/L							
4,4'-DDT [2C]	ND	0.040	µg/L							
Dieldrin	ND	0.0020	µg/L							
Dieldrin [2C]	ND	0.0020	µg/L							
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Endosulfan II	ND	0.080	µg/L							
Endosulfan II [2C]	ND	0.080	µg/L							
Endosulfan Sulfate	ND	0.080	µg/L							
Endosulfan Sulfate [2C]	ND	0.080	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Endrin Aldehyde	ND	0.080	µg/L							
Endrin Aldehyde [2C]	ND	0.080	µg/L							
Endrin Ketone	ND	0.080	µg/L							
Endrin Ketone [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Hexachlorobenzene	ND	0.050	µg/L							
Hexachlorobenzene [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.93		µg/L	2.00		96.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.99		µg/L	2.00		99.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.87		µg/L	2.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.13		µg/L	2.00		106	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204338 - SW-846 3510C										
LCS (B204338-BS1)										
Prepared: 05/25/18 Analyzed: 06/07/18										
Alachlor	1.0	0.20	µg/L	1.00		101	40-140			
Alachlor [2C]	0.98	0.20	µg/L	1.00		98.3	40-140			
Aldrin	0.96	0.050	µg/L	1.00		96.2	40-140			
Aldrin [2C]	0.99	0.050	µg/L	1.00		98.8	40-140			
alpha-BHC	0.95	0.050	µg/L	1.00		94.6	40-140			
alpha-BHC [2C]	0.98	0.050	µg/L	1.00		97.8	40-140			
beta-BHC	0.93	0.050	µg/L	1.00		93.3	40-140			
beta-BHC [2C]	0.96	0.050	µg/L	1.00		96.2	40-140			
delta-BHC	0.97	0.050	µg/L	1.00		96.7	40-140			
delta-BHC [2C]	0.91	0.050	µg/L	1.00		91.5	40-140			
gamma-BHC (Lindane)	0.96	0.030	µg/L	1.00		96.0	40-140			
gamma-BHC (Lindane) [2C]	0.99	0.030	µg/L	1.00		99.0	40-140			
4,4'-DDD	0.99	0.040	µg/L	1.00		98.8	40-140			
4,4'-DDD [2C]	1.0	0.040	µg/L	1.00		103	40-140			
4,4'-DDE	0.99	0.040	µg/L	1.00		98.6	40-140			
4,4'-DDE [2C]	1.0	0.040	µg/L	1.00		101	40-140			
4,4'-DDT	0.98	0.040	µg/L	1.00		97.7	40-140			
4,4'-DDT [2C]	1.0	0.040	µg/L	1.00		100	40-140			
Dieldrin	0.94	0.0020	µg/L	1.00		93.8	40-140			
Dieldrin [2C]	1.0	0.0020	µg/L	1.00		100	40-140			
Endosulfan I	0.95	0.050	µg/L	1.00		95.3	40-140			
Endosulfan I [2C]	0.96	0.050	µg/L	1.00		95.9	40-140			
Endosulfan II	0.96	0.080	µg/L	1.00		95.6	40-140			
Endosulfan II [2C]	0.97	0.080	µg/L	1.00		96.7	40-140			
Endosulfan Sulfate	0.97	0.080	µg/L	1.00		96.5	40-140			
Endosulfan Sulfate [2C]	0.95	0.080	µg/L	1.00		95.4	40-140			
Endrin	0.93	0.080	µg/L	1.00		92.8	40-140			
Endrin [2C]	0.92	0.080	µg/L	1.00		92.1	40-140			
Endrin Aldehyde	0.95	0.080	µg/L	1.00		95.1	40-140			
Endrin Aldehyde [2C]	0.95	0.080	µg/L	1.00		94.9	40-140			
Endrin Ketone	0.96	0.080	µg/L	1.00		96.4	40-140			
Endrin Ketone [2C]	0.96	0.080	µg/L	1.00		95.7	40-140			
Heptachlor	0.93	0.050	µg/L	1.00		93.2	40-140			
Heptachlor [2C]	0.94	0.050	µg/L	1.00		93.6	40-140			
Heptachlor Epoxide	0.94	0.050	µg/L	1.00		94.3	40-140			
Heptachlor Epoxide [2C]	0.93	0.050	µg/L	1.00		93.1	40-140			
Hexachlorobenzene	1.0	0.050	µg/L	1.00		100	40-140			
Hexachlorobenzene [2C]	1.0	0.050	µg/L	1.00		104	40-140			
Methoxychlor	0.95	0.50	µg/L	1.00		95.0	40-140			
Methoxychlor [2C]	0.93	0.50	µg/L	1.00		93.2	40-140			
Surrogate: Decachlorobiphenyl	1.74		µg/L	2.00		86.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.78		µg/L	2.00		89.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.64		µg/L	2.00		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.86		µg/L	2.00		93.1	30-150			

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QUALITY CONTROL
Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204338 - SW-846 3510C										
LCS Dup (B204338-BSD1)					Prepared: 05/25/18 Analyzed: 06/07/18					
Alachlor	0.97	0.20	µg/L	1.00		96.8	40-140	3.88	20	
Alachlor [2C]	0.96	0.20	µg/L	1.00		95.6	40-140	2.78	20	
Aldrin	0.93	0.050	µg/L	1.00		92.6	40-140	3.79	20	
Aldrin [2C]	0.96	0.050	µg/L	1.00		96.4	40-140	2.41	20	
alpha-BHC	0.92	0.050	µg/L	1.00		92.5	40-140	2.31	20	
alpha-BHC [2C]	0.96	0.050	µg/L	1.00		96.4	40-140	1.44	20	
beta-BHC	0.91	0.050	µg/L	1.00		90.6	40-140	3.02	20	
beta-BHC [2C]	0.94	0.050	µg/L	1.00		93.9	40-140	2.45	20	
delta-BHC	0.93	0.050	µg/L	1.00		93.1	40-140	3.81	20	
delta-BHC [2C]	0.89	0.050	µg/L	1.00		89.2	40-140	2.47	20	
gamma-BHC (Lindane)	0.94	0.030	µg/L	1.00		93.6	40-140	2.57	20	
gamma-BHC (Lindane) [2C]	0.97	0.030	µg/L	1.00		97.0	40-140	1.99	20	
4,4'-DDD	0.95	0.040	µg/L	1.00		95.1	40-140	3.81	20	
4,4'-DDD [2C]	0.99	0.040	µg/L	1.00		99.5	40-140	3.18	20	
4,4'-DDE	0.95	0.040	µg/L	1.00		94.6	40-140	4.04	20	
4,4'-DDE [2C]	1.0	0.040	µg/L	1.00		102	40-140	1.51	20	
4,4'-DDT	0.94	0.040	µg/L	1.00		94.1	40-140	3.76	20	
4,4'-DDT [2C]	0.96	0.040	µg/L	1.00		96.4	40-140	3.77	20	
Dieldrin	0.90	0.0020	µg/L	1.00		90.2	40-140	3.94	20	
Dieldrin [2C]	0.97	0.0020	µg/L	1.00		96.7	40-140	3.30	20	
Endosulfan I	0.92	0.050	µg/L	1.00		91.6	40-140	3.98	20	
Endosulfan I [2C]	0.93	0.050	µg/L	1.00		93.2	40-140	2.76	20	
Endosulfan II	0.92	0.080	µg/L	1.00		91.8	40-140	4.12	20	
Endosulfan II [2C]	0.95	0.080	µg/L	1.00		95.3	40-140	1.48	20	
Endosulfan Sulfate	0.93	0.080	µg/L	1.00		93.3	40-140	3.37	20	
Endosulfan Sulfate [2C]	0.92	0.080	µg/L	1.00		92.4	40-140	3.24	20	
Endrin	0.89	0.080	µg/L	1.00		89.2	40-140	3.96	20	
Endrin [2C]	0.89	0.080	µg/L	1.00		89.4	40-140	3.06	20	
Endrin Aldehyde	0.92	0.080	µg/L	1.00		91.6	40-140	3.80	20	
Endrin Aldehyde [2C]	0.92	0.080	µg/L	1.00		92.0	40-140	3.13	20	
Endrin Ketone	0.93	0.080	µg/L	1.00		92.7	40-140	3.89	20	
Endrin Ketone [2C]	0.92	0.080	µg/L	1.00		92.4	40-140	3.49	20	
Heptachlor	0.90	0.050	µg/L	1.00		89.8	40-140	3.66	20	
Heptachlor [2C]	0.92	0.050	µg/L	1.00		91.6	40-140	2.20	20	
Heptachlor Epoxide	0.91	0.050	µg/L	1.00		91.1	40-140	3.41	20	
Heptachlor Epoxide [2C]	0.90	0.050	µg/L	1.00		90.2	40-140	3.13	20	
Hexachlorobenzene	0.98	0.050	µg/L	1.00		98.2	40-140	1.94	20	
Hexachlorobenzene [2C]	1.0	0.050	µg/L	1.00		103	40-140	1.35	20	
Methoxychlor	0.92	0.50	µg/L	1.00		91.7	40-140	3.60	20	
Methoxychlor [2C]	0.90	0.50	µg/L	1.00		90.4	40-140	3.01	20	
Surrogate: Decachlorobiphenyl	1.69		µg/L	2.00		84.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.73		µg/L	2.00		86.4	30-150			
Surrogate: Tetrachloro-m-xylene	1.61		µg/L	2.00		80.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.89		µg/L	2.00		94.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204338 - SW-846 3510C										
Matrix Spike (B204338-MS1)	Source: 18E1297-01			Prepared: 05/25/18 Analyzed: 06/07/18						
Alachlor	1.1	0.20	µg/L	1.00	ND	107	30-150			
Alachlor [2C]	1.0	0.20	µg/L	1.00	ND	104	30-150			
Aldrin	0.95	0.050	µg/L	1.00	ND	94.9	30-150			
Aldrin [2C]	0.95	0.050	µg/L	1.00	ND	94.9	30-150			
alpha-BHC	0.94	0.050	µg/L	1.00	ND	94.3	30-150			
alpha-BHC [2C]	0.90	0.050	µg/L	1.00	ND	90.3	30-150			
beta-BHC	0.92	0.050	µg/L	1.00	ND	91.9	30-150			
beta-BHC [2C]	0.90	0.050	µg/L	1.00	ND	90.2	30-150			
delta-BHC	0.98	0.050	µg/L	1.00	ND	97.9	30-150			
delta-BHC [2C]	0.92	0.050	µg/L	1.00	ND	91.7	30-150			
gamma-BHC (Lindane)	0.95	0.030	µg/L	1.00	ND	95.4	30-150			
gamma-BHC (Lindane) [2C]	0.94	0.030	µg/L	1.00	ND	93.5	30-150			
4,4'-DDD	1.0	0.040	µg/L	1.00	ND	100	30-150			
4,4'-DDD [2C]	1.0	0.040	µg/L	1.00	ND	101	30-150			
4,4'-DDE	0.97	0.040	µg/L	1.00	ND	96.9	30-150			
4,4'-DDE [2C]	1.0	0.040	µg/L	1.00	ND	100	30-150			
4,4'-DDT	0.99	0.040	µg/L	1.00	ND	98.7	30-150			
4,4'-DDT [2C]	0.95	0.040	µg/L	1.00	ND	95.1	30-150			
Dieldrin	0.96	0.0020	µg/L	1.00	ND	96.3	30-150			
Dieldrin [2C]	1.0	0.0020	µg/L	1.00	ND	99.7	30-150			
Endosulfan I	0.98	0.050	µg/L	1.00	ND	98.2	30-150			
Endosulfan I [2C]	0.96	0.050	µg/L	1.00	ND	96.2	30-150			
Endosulfan II	0.99	0.080	µg/L	1.00	ND	99.0	30-150			
Endosulfan II [2C]	1.0	0.080	µg/L	1.00	ND	99.7	30-150			
Endosulfan Sulfate	1.0	0.080	µg/L	1.00	ND	100	30-150			
Endosulfan Sulfate [2C]	0.97	0.080	µg/L	1.00	ND	97.1	30-150			
Endrin	0.96	0.080	µg/L	1.00	ND	96.0	30-150			
Endrin [2C]	0.94	0.080	µg/L	1.00	ND	94.0	30-150			
Endrin Aldehyde	0.88	0.080	µg/L	1.00	ND	88.1	30-150			
Endrin Aldehyde [2C]	0.83	0.080	µg/L	1.00	ND	83.2	30-150			
Endrin Ketone	1.0	0.080	µg/L	1.00	ND	100	30-150			
Endrin Ketone [2C]	0.98	0.080	µg/L	1.00	ND	97.6	30-150			
Heptachlor	0.94	0.050	µg/L	1.00	ND	93.9	30-150			
Heptachlor [2C]	0.93	0.050	µg/L	1.00	ND	93.3	30-150			
Heptachlor Epoxide	0.97	0.050	µg/L	1.00	ND	96.7	30-150			
Heptachlor Epoxide [2C]	0.95	0.050	µg/L	1.00	ND	94.7	30-150			
Hexachlorobenzene	0.97	0.050	µg/L	1.00	ND	96.9	30-150			
Hexachlorobenzene [2C]	0.94	0.050	µg/L	1.00	ND	94.1	30-150			
Methoxychlor	0.98	0.50	µg/L	1.00	ND	98.3	30-150			
Methoxychlor [2C]	0.94	0.50	µg/L	1.00	ND	94.1	30-150			
Surrogate: Decachlorobiphenyl	1.34		µg/L	2.00		66.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.34		µg/L	2.00		66.8	30-150			
Surrogate: Tetrachloro-m-xylene	1.43		µg/L	2.00		71.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.74		µg/L	2.00		86.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204338 - SW-846 3510C										
Matrix Spike Dup (B204338-MSD1)	Source: 18E1297-01			Prepared: 05/25/18 Analyzed: 06/07/18						
Alachlor	1.0	0.20	µg/L	1.00	ND	99.9	30-150	7.30	30	
Alachlor [2C]	0.96	0.20	µg/L	1.00	ND	96.2	30-150	7.65	30	
Aldrin	0.89	0.050	µg/L	1.00	ND	89.1	30-150	6.28	30	
Aldrin [2C]	0.88	0.050	µg/L	1.00	ND	88.2	30-150	7.34	30	
alpha-BHC	0.87	0.050	µg/L	1.00	ND	87.5	30-150	7.47	30	
alpha-BHC [2C]	0.84	0.050	µg/L	1.00	ND	83.9	30-150	7.35	30	
beta-BHC	0.85	0.050	µg/L	1.00	ND	85.1	30-150	7.60	30	
beta-BHC [2C]	0.85	0.050	µg/L	1.00	ND	84.5	30-150	6.45	30	
delta-BHC	0.91	0.050	µg/L	1.00	ND	90.6	30-150	7.77	30	
delta-BHC [2C]	0.86	0.050	µg/L	1.00	ND	86.4	30-150	5.89	30	
gamma-BHC (Lindane)	0.89	0.030	µg/L	1.00	ND	88.9	30-150	7.09	30	
gamma-BHC (Lindane) [2C]	0.87	0.030	µg/L	1.00	ND	86.6	30-150	7.63	30	
4,4'-DDD	0.94	0.040	µg/L	1.00	ND	93.8	30-150	6.64	30	
4,4'-DDD [2C]	0.95	0.040	µg/L	1.00	ND	95.0	30-150	6.19	30	
4,4'-DDE	0.91	0.040	µg/L	1.00	ND	90.9	30-150	6.46	30	
4,4'-DDE [2C]	0.95	0.040	µg/L	1.00	ND	94.9	30-150	5.38	30	
4,4'-DDT	0.92	0.040	µg/L	1.00	ND	92.4	30-150	6.65	30	
4,4'-DDT [2C]	0.89	0.040	µg/L	1.00	ND	89.1	30-150	6.58	30	
Dieldrin	0.90	0.0020	µg/L	1.00	ND	90.4	30-150	6.34	30	
Dieldrin [2C]	0.93	0.0020	µg/L	1.00	ND	93.3	30-150	6.62	30	
Endosulfan I	0.92	0.050	µg/L	1.00	ND	92.5	30-150	6.00	30	
Endosulfan I [2C]	0.90	0.050	µg/L	1.00	ND	90.0	30-150	6.75	30	
Endosulfan II	0.92	0.080	µg/L	1.00	ND	92.2	30-150	7.13	30	
Endosulfan II [2C]	0.94	0.080	µg/L	1.00	ND	93.9	30-150	6.04	30	
Endosulfan Sulfate	0.94	0.080	µg/L	1.00	ND	93.5	30-150	7.19	30	
Endosulfan Sulfate [2C]	0.91	0.080	µg/L	1.00	ND	90.9	30-150	6.60	30	
Endrin	0.90	0.080	µg/L	1.00	ND	89.8	30-150	6.73	30	
Endrin [2C]	0.88	0.080	µg/L	1.00	ND	87.8	30-150	6.76	30	
Endrin Aldehyde	0.84	0.080	µg/L	1.00	ND	84.5	30-150	4.24	30	
Endrin Aldehyde [2C]	0.81	0.080	µg/L	1.00	ND	80.8	30-150	2.85	30	
Endrin Ketone	0.93	0.080	µg/L	1.00	ND	93.1	30-150	7.38	30	
Endrin Ketone [2C]	0.91	0.080	µg/L	1.00	ND	91.4	30-150	6.56	30	
Heptachlor	0.88	0.050	µg/L	1.00	ND	87.9	30-150	6.57	30	
Heptachlor [2C]	0.86	0.050	µg/L	1.00	ND	86.2	30-150	7.91	30	
Heptachlor Epoxide	0.91	0.050	µg/L	1.00	ND	91.0	30-150	6.12	30	
Heptachlor Epoxide [2C]	0.88	0.050	µg/L	1.00	ND	87.9	30-150	7.45	30	
Hexachlorobenzene	0.90	0.050	µg/L	1.00	ND	89.6	30-150	7.84	30	
Hexachlorobenzene [2C]	0.87	0.050	µg/L	1.00	ND	87.0	30-150	7.83	30	
Methoxychlor	0.91	0.50	µg/L	1.00	ND	90.8	30-150	7.98	30	
Methoxychlor [2C]	0.88	0.50	µg/L	1.00	ND	87.6	30-150	7.20	30	
Surrogate: Decachlorobiphenyl	1.29		µg/L	2.00		64.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.31		µg/L	2.00		65.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.34		µg/L	2.00		66.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.62		µg/L	2.00		80.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204333 - SW-846 3510C										
Blank (B204333-BLK1)										
Prepared: 05/25/18 Analyzed: 05/29/18										
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	2.10		µg/L	2.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.85		µg/L	2.00		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.76		µg/L	2.00		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.77		µg/L	2.00		88.6	30-150			
LCS (B204333-BS1)										
Prepared: 05/25/18 Analyzed: 05/29/18										
Aroclor-1016	0.48	0.20	µg/L	0.500		96.5	40-140			
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.5	40-140			
Aroclor-1260	0.48	0.20	µg/L	0.500		95.2	40-140			
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		85.5	40-140			
Surrogate: Decachlorobiphenyl	2.04		µg/L	2.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.79		µg/L	2.00		89.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.69		µg/L	2.00		84.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.71		µg/L	2.00		85.7	30-150			
LCS Dup (B204333-BSD1)										
Prepared: 05/25/18 Analyzed: 05/29/18										
Aroclor-1016	0.52	0.20	µg/L	0.500		103	40-140	6.58	20	
Aroclor-1016 [2C]	0.49	0.20	µg/L	0.500		98.0	40-140	7.89	20	
Aroclor-1260	0.49	0.20	µg/L	0.500		98.8	40-140	3.69	20	
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		87.6	40-140	2.47	20	
Surrogate: Decachlorobiphenyl	2.11		µg/L	2.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.85		µg/L	2.00		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.75		µg/L	2.00		87.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.76		µg/L	2.00		87.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204333 - SW-846 3510C

Matrix Spike (B204333-MS1)

Source: 18E1297-01

Prepared: 05/25/18 Analyzed: 06/06/18

Aroclor-1016	0.52	0.20	µg/L	0.500	ND	104	40-140			
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500	ND	99.5	40-140			
Aroclor-1260	0.51	0.20	µg/L	0.500	ND	103	40-140			
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500	ND	88.8	40-140			
Surrogate: Decachlorobiphenyl	2.14		µg/L	2.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.93		µg/L	2.00		96.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.49		µg/L	2.00		74.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.50		µg/L	2.00		75.2	30-150			

Matrix Spike Dup (B204333-MSD1)

Source: 18E1297-01

Prepared: 05/25/18 Analyzed: 06/06/18

Aroclor-1016	0.57	0.20	µg/L	0.500	ND	113	40-140	8.15	50	
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500	ND	109	40-140	9.04	50	
Aroclor-1260	0.55	0.20	µg/L	0.500	ND	111	40-140	7.70	50	
Aroclor-1260 [2C]	0.49	0.20	µg/L	0.500	ND	98.3	40-140	10.1	50	
Surrogate: Decachlorobiphenyl	2.21		µg/L	2.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.99		µg/L	2.00		99.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.64		µg/L	2.00		82.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.66		µg/L	2.00		83.1	30-150			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204559 - SW-846 7470A Prep										
Blank (B204559-BLK1)				Prepared: 05/30/18 Analyzed: 05/31/18						
Mercury	ND	0.00010	mg/L							
LCS (B204559-BS1)				Prepared: 05/30/18 Analyzed: 05/31/18						
Mercury	0.00191	0.00010	mg/L	0.00200		95.3	80-120			
LCS Dup (B204559-BSD1)				Prepared: 05/30/18 Analyzed: 05/31/18						
Mercury	0.00192	0.00010	mg/L	0.00200		96.2	80-120	0.908	20	
Matrix Spike (B204559-MS1)				Source: 18E1297-01		Prepared: 05/30/18 Analyzed: 05/31/18				
Mercury	0.00190	0.00010	mg/L	0.00200	ND	95.2	75-125			
Matrix Spike Dup (B204559-MSD1)				Source: 18E1297-01		Prepared: 05/30/18 Analyzed: 05/31/18				
Mercury	0.00188	0.00010	mg/L	0.00200	ND	94.2	75-125	1.08	20	
Batch B205078 - SW-846 3005A										
Blank (B205078-BLK1)				Prepared: 06/06/18 Analyzed: 06/07/18						
Aluminum	ND	0.050	mg/L							
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Calcium	ND	0.15	mg/L							
Chromium	ND	0.010	mg/L							
Cobalt	ND	0.050	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Magnesium	ND	0.15	mg/L							
Manganese	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Potassium	ND	2.0	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							
Sodium	ND	2.0	mg/L							
Thallium	ND	0.050	mg/L							
Zinc	ND	0.020	mg/L							
LCS (B205078-BS1)				Prepared: 06/06/18 Analyzed: 06/07/18						
Aluminum	0.471	0.050	mg/L	0.500		94.3	80-120			
Antimony	0.477	0.050	mg/L	0.500		95.5	80-120			
Arsenic	0.476	0.010	mg/L	0.500		95.3	80-120			
Barium	0.519	0.050	mg/L	0.500		104	80-120			
Beryllium	0.519	0.0040	mg/L	0.500		104	80-120			
Cadmium	0.520	0.0040	mg/L	0.500		104	80-120			
Calcium	4.18	0.15	mg/L	4.00		104	80-120			
Chromium	0.504	0.010	mg/L	0.500		101	80-120			
Cobalt	0.511	0.050	mg/L	0.500		102	80-120			
Copper	0.993	0.010	mg/L	1.00		99.3	80-120			
Iron	3.77	0.050	mg/L	4.00		94.4	80-120			
Lead	0.502	0.010	mg/L	0.500		100	80-120			
Magnesium	4.04	0.15	mg/L	4.00		101	80-120			
Manganese	0.492	0.010	mg/L	0.500		98.4	80-120			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205078 - SW-846 3005A
LCS (B205078-BS1)

Prepared: 06/06/18 Analyzed: 06/07/18

Nickel	0.509	0.010	mg/L	0.500		102	80-120			
Potassium	3.87	2.0	mg/L	4.00		96.7	80-120			
Selenium	0.508	0.050	mg/L	0.500		102	80-120			
Silver	0.493	0.0050	mg/L	0.500		98.6	80-120			
Sodium	4.20	2.0	mg/L	4.00		105	80-120			
Thallium	0.511	0.050	mg/L	0.500		102	80-120			
Zinc	1.03	0.020	mg/L	1.00		103	80-120			

LCS Dup (B205078-BS1)

Prepared: 06/06/18 Analyzed: 06/07/18

Aluminum	0.476	0.050	mg/L	0.500		95.2	80-120	1.02	20	
Antimony	0.490	0.050	mg/L	0.500		98.1	80-120	2.70	20	
Arsenic	0.482	0.010	mg/L	0.500		96.3	80-120	1.11	20	
Barium	0.523	0.050	mg/L	0.500		105	80-120	0.753	20	
Beryllium	0.523	0.0040	mg/L	0.500		105	80-120	0.929	20	
Cadmium	0.526	0.0040	mg/L	0.500		105	80-120	1.01	20	
Calcium	4.20	0.15	mg/L	4.00		105	80-120	0.437	20	
Chromium	0.509	0.010	mg/L	0.500		102	80-120	1.10	20	
Cobalt	0.516	0.050	mg/L	0.500		103	80-120	1.03	20	
Copper	1.00	0.010	mg/L	1.00		100	80-120	0.846	20	
Iron	3.85	0.050	mg/L	4.00		96.3	80-120	2.02	20	
Lead	0.502	0.010	mg/L	0.500		100	80-120	0.112	20	
Magnesium	4.07	0.15	mg/L	4.00		102	80-120	0.703	20	
Manganese	0.494	0.010	mg/L	0.500		98.9	80-120	0.470	20	
Nickel	0.514	0.010	mg/L	0.500		103	80-120	1.00	20	
Potassium	3.92	2.0	mg/L	4.00		98.0	80-120	1.32	20	
Selenium	0.514	0.050	mg/L	0.500		103	80-120	1.16	20	
Silver	0.490	0.0050	mg/L	0.500		98.0	80-120	0.573	20	
Sodium	4.22	2.0	mg/L	4.00		106	80-120	0.511	20	
Thallium	0.509	0.050	mg/L	0.500		102	80-120	0.502	20	
Zinc	1.04	0.020	mg/L	1.00		104	80-120	1.02	20	

Matrix Spike (B205078-MS1)

Source: 18E1297-01

Prepared: 06/06/18 Analyzed: 06/07/18

Aluminum	0.516	0.050	mg/L	0.500	0.0620	90.8	75-125			
Antimony	0.507	0.050	mg/L	0.500	ND	101	75-125			
Arsenic	0.514	0.010	mg/L	0.500	ND	103	75-125			
Barium	0.580	0.050	mg/L	0.500	0.0667	103	75-125			
Beryllium	0.522	0.0040	mg/L	0.500	ND	104	75-125			
Cadmium	0.521	0.0040	mg/L	0.500	ND	104	75-125			
Calcium	60.1	0.15	mg/L	4.00	56.0	104	75-125			
Chromium	0.507	0.010	mg/L	0.500	ND	101	75-125			
Cobalt	0.508	0.050	mg/L	0.500	ND	102	75-125			
Copper	0.999	0.010	mg/L	1.00	ND	99.9	75-125			
Iron	4.11	0.050	mg/L	4.00	0.215	97.4	75-125			
Lead	0.489	0.010	mg/L	0.500	ND	97.9	75-125			
Magnesium	36.1	0.15	mg/L	4.00	32.5	91.7	75-125			
Manganese	1.98	0.010	mg/L	0.500	1.49	97.7	75-125			
Nickel	0.501	0.010	mg/L	0.500	ND	100	75-125			
Potassium	7.88	2.0	mg/L	4.00	3.37	113	75-125			
Selenium	0.493	0.050	mg/L	0.500	ND	98.7	75-125			
Silver	0.475	0.0050	mg/L	0.500	ND	95.0	75-125			
Sodium	80.5	20	mg/L	4.00	76.0	113	75-125			
Thallium	0.515	0.050	mg/L	0.500	ND	103	75-125			
Zinc	1.02	0.020	mg/L	1.00	ND	102	75-125			

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QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205078 - SW-846 3005A

Matrix Spike Dup (B205078-MSD1)		Source: 18E1297-01		Prepared: 06/06/18 Analyzed: 06/07/18						
Aluminum	0.483	0.050	mg/L	0.500	0.0620	84.2	75-125	6.60	20	
Antimony	0.511	0.050	mg/L	0.500	ND	102	75-125	0.921	20	
Arsenic	0.520	0.010	mg/L	0.500	ND	104	75-125	1.12	20	
Barium	0.586	0.050	mg/L	0.500	0.0667	104	75-125	0.984	20	
Beryllium	0.525	0.0040	mg/L	0.500	ND	105	75-125	0.652	20	
Cadmium	0.526	0.0040	mg/L	0.500	ND	105	75-125	0.975	20	
Calcium	60.5	0.15	mg/L	4.00	56.0	114	75-125	0.625	20	
Chromium	0.513	0.010	mg/L	0.500	ND	103	75-125	1.11	20	
Cobalt	0.513	0.050	mg/L	0.500	ND	103	75-125	0.961	20	
Copper	1.01	0.010	mg/L	1.00	ND	101	75-125	0.985	20	
Iron	4.15	0.050	mg/L	4.00	0.215	98.4	75-125	0.972	20	
Lead	0.494	0.010	mg/L	0.500	ND	98.7	75-125	0.900	20	
Magnesium	36.4	0.15	mg/L	4.00	32.5	98.8	75-125	0.779	20	
Manganese	2.00	0.010	mg/L	0.500	1.49	101	75-125	0.799	20	
Nickel	0.504	0.010	mg/L	0.500	ND	101	75-125	0.629	20	
Potassium	7.92	2.0	mg/L	4.00	3.37	114	75-125	0.442	20	
Selenium	0.494	0.050	mg/L	0.500	ND	98.8	75-125	0.139	20	
Silver	0.472	0.0050	mg/L	0.500	ND	94.4	75-125	0.651	20	
Sodium	80.5	20	mg/L	4.00	76.0	112	75-125	0.0563	20	
Thallium	0.516	0.050	mg/L	0.500	ND	103	75-125	0.173	20	
Zinc	1.03	0.020	mg/L	1.00	ND	103	75-125	0.965	20	

Dilution Check (B205078-SRL1)		Source: 18E1297-01		Prepared: 06/06/18 Analyzed: 06/07/18						
Calcium	58.4	0.75	mg/L		56.0			4.31	10	
Magnesium	34.2	0.75	mg/L		32.5			5.21	10	

Batch B205259 - SW-846 3005A

Blank (B205259-BLK1)		Prepared: 06/06/18 Analyzed: 06/08/18								
Sodium	ND	2.0	mg/L							
Vanadium	ND	0.010	mg/L							

LCS (B205259-BS1)		Prepared: 06/06/18 Analyzed: 06/08/18								
Sodium	4.39	2.0	mg/L	4.00		110	80-120			
Vanadium	0.516	0.010	mg/L	0.500		103	80-120			

LCS Dup (B205259-BSD1)		Prepared: 06/06/18 Analyzed: 06/08/18								
Sodium	4.42	2.0	mg/L	4.00		111	80-120	0.824	20	
Vanadium	0.515	0.010	mg/L	0.500		103	80-120	0.114	20	

Matrix Spike (B205259-MS1)		Source: 18E1297-01		Prepared: 06/06/18 Analyzed: 06/08/18						
Vanadium	0.535	0.010	mg/L	0.500	ND	107	75-125			

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
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Batch B205259 - SW-846 3005A**Matrix Spike Dup (B205259-MSD1)****Source: 18E1297-01**

Prepared: 06/06/18 Analyzed: 06/08/18

Vanadium	0.532	0.010	mg/L	0.500	ND	106	75-125	0.622	20	
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QUALITY CONTROL

TCLP - 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 B204917 - SW-846 5030B										
Blank (B204917-BLK1)				Prepared: 06/04/18 Analyzed: 06/05/18						
Benzene	ND	0.0010	mg/L							
2-Butanone (MEK)	ND	0.020	mg/L							
Carbon Tetrachloride	ND	0.0050	mg/L							
Chlorobenzene	ND	0.0010	mg/L							
Chloroform	ND	0.0020	mg/L							
1,4-Dichlorobenzene	ND	0.0010	mg/L							
1,2-Dichloroethane	ND	0.0010	mg/L							
1,1-Dichloroethylene	ND	0.0010	mg/L							
Tetrachloroethylene	ND	0.0010	mg/L							
Trichloroethylene	ND	0.0010	mg/L							
Vinyl Chloride	ND	0.0020	mg/L							
Surrogate: 1,2-Dichloroethane-d4	0.0231		mg/L	0.0250		92.4	70-130			
Surrogate: Toluene-d8	0.0246		mg/L	0.0250		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.0242		mg/L	0.0250		97.0	70-130			
LCS (B204917-BS1)				Prepared & Analyzed: 06/04/18						
Benzene	0.0106	0.0010	mg/L	0.0100		106	70-130			
2-Butanone (MEK)	0.0976	0.020	mg/L	0.100		97.6	40-160			†
Carbon Tetrachloride	0.0109	0.0050	mg/L	0.0100		109	70-130			
Chlorobenzene	0.0114	0.0010	mg/L	0.0100		114	70-130			
Chloroform	0.0108	0.0020	mg/L	0.0100		108	70-130			
1,4-Dichlorobenzene	0.0109	0.0010	mg/L	0.0100		109	70-130			
1,2-Dichloroethane	0.0101	0.0010	mg/L	0.0100		101	70-130			
1,1-Dichloroethylene	0.0108	0.0010	mg/L	0.0100		108	70-130			
Tetrachloroethylene	0.0124	0.0010	mg/L	0.0100		124	70-130			
Trichloroethylene	0.0112	0.0010	mg/L	0.0100		112	70-130			
Vinyl Chloride	0.0102	0.0020	mg/L	0.0100		102	40-160			†
Surrogate: 1,2-Dichloroethane-d4	0.0232		mg/L	0.0250		92.9	70-130			
Surrogate: Toluene-d8	0.0250		mg/L	0.0250		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0250		mg/L	0.0250		100	70-130			
LCS Dup (B204917-BSD1)				Prepared & Analyzed: 06/04/18						
Benzene	0.0102	0.0010	mg/L	0.0100		102	70-130	3.45	25	
2-Butanone (MEK)	0.0930	0.020	mg/L	0.100		93.0	40-160	4.74	25	†
Carbon Tetrachloride	0.0104	0.0050	mg/L	0.0100		104	70-130	3.85	25	
Chlorobenzene	0.0111	0.0010	mg/L	0.0100		111	70-130	2.22	25	
Chloroform	0.0103	0.0020	mg/L	0.0100		103	70-130	4.08	25	
1,4-Dichlorobenzene	0.0109	0.0010	mg/L	0.0100		109	70-130	0.367	25	
1,2-Dichloroethane	0.0104	0.0010	mg/L	0.0100		104	70-130	3.52	25	
1,1-Dichloroethylene	0.0103	0.0010	mg/L	0.0100		103	70-130	5.03	25	
Tetrachloroethylene	0.0120	0.0010	mg/L	0.0100		120	70-130	3.11	25	
Trichloroethylene	0.0108	0.0010	mg/L	0.0100		108	70-130	3.44	25	
Vinyl Chloride	0.00958	0.0020	mg/L	0.0100		95.8	40-160	6.27	25	†
Surrogate: 1,2-Dichloroethane-d4	0.0228		mg/L	0.0250		91.2	70-130			
Surrogate: Toluene-d8	0.0248		mg/L	0.0250		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.0247		mg/L	0.0250		98.6	70-130			

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QUALITY CONTROL

TCLP - 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 B204981 - SW-846 3510C										
Blank (B204981-BLK1)										
Prepared: 06/05/18 Analyzed: 06/06/18										
2,4-Dinitrotoluene	ND	0.050	mg/L							
2-Methylphenol	ND	0.050	mg/L							
3/4-Methylphenol	ND	0.050	mg/L							
Nitrobenzene	ND	0.050	mg/L							
Pentachlorophenol	ND	0.050	mg/L							
Pyridine	ND	0.025	mg/L							
2,4,5-Trichlorophenol	ND	0.050	mg/L							
2,4,6-Trichlorophenol	ND	0.050	mg/L							
Surrogate: 2-Fluorophenol	0.686		mg/L	1.00		68.6	15-110			
Surrogate: Phenol-d6	0.617		mg/L	1.00		61.7	15-110			
Surrogate: Nitrobenzene-d5	0.394		mg/L	0.500		78.8	30-130			
Surrogate: 2-Fluorobiphenyl	0.352		mg/L	0.505		69.7	30-130			
Surrogate: 2,4,6-Tribromophenol	0.903		mg/L	1.00		90.3	15-110			
Surrogate: p-Terphenyl-d14	0.425		mg/L	0.505		84.2	30-130			
LCS (B204981-BS1)										
Prepared: 06/05/18 Analyzed: 06/06/18										
2,4-Dinitrotoluene	0.197	0.050	mg/L	0.250		79.0	40-140			
2-Methylphenol	0.197	0.050	mg/L	0.250		78.9	30-130			
3/4-Methylphenol	0.195	0.050	mg/L	0.250		77.9	30-130			
Nitrobenzene	0.192	0.050	mg/L	0.250		76.6	40-140			
Pentachlorophenol	0.174	0.050	mg/L	0.250		69.4	30-130			
Pyridine	0.0966	0.025	mg/L	0.250		38.6	10-140			†
2,4,5-Trichlorophenol	0.204	0.050	mg/L	0.250		81.5	30-130			
2,4,6-Trichlorophenol	0.201	0.050	mg/L	0.250		80.4	30-130			
Surrogate: 2-Fluorophenol	0.648		mg/L	1.00		64.8	15-110			
Surrogate: Phenol-d6	0.572		mg/L	1.00		57.2	15-110			
Surrogate: Nitrobenzene-d5	0.387		mg/L	0.500		77.4	30-130			
Surrogate: 2-Fluorobiphenyl	0.354		mg/L	0.505		70.2	30-130			
Surrogate: 2,4,6-Tribromophenol	0.887		mg/L	1.00		88.7	15-110			
Surrogate: p-Terphenyl-d14	0.400		mg/L	0.505		79.3	30-130			
LCS Dup (B204981-BS1)										
Prepared: 06/05/18 Analyzed: 06/06/18										
2,4-Dinitrotoluene	0.197	0.050	mg/L	0.250		78.6	40-140	0.431	20	
2-Methylphenol	0.206	0.050	mg/L	0.250		82.5	30-130	4.36	20	
3/4-Methylphenol	0.194	0.050	mg/L	0.250		77.7	30-130	0.257	20	
Nitrobenzene	0.190	0.050	mg/L	0.250		76.1	40-140	0.655	20	
Pentachlorophenol	0.177	0.050	mg/L	0.250		70.8	30-130	1.97	50	‡
Pyridine	0.0860	0.025	mg/L	0.250		34.4	10-140	11.6	50	† ‡
2,4,5-Trichlorophenol	0.204	0.050	mg/L	0.250		81.5	30-130	0.0736	20	
2,4,6-Trichlorophenol	0.199	0.050	mg/L	0.250		79.7	30-130	0.825	50	‡
Surrogate: 2-Fluorophenol	0.635		mg/L	1.00		63.5	15-110			
Surrogate: Phenol-d6	0.561		mg/L	1.00		56.1	15-110			
Surrogate: Nitrobenzene-d5	0.379		mg/L	0.500		75.9	30-130			
Surrogate: 2-Fluorobiphenyl	0.342		mg/L	0.505		67.6	30-130			
Surrogate: 2,4,6-Tribromophenol	0.872		mg/L	1.00		87.2	15-110			
Surrogate: p-Terphenyl-d14	0.396		mg/L	0.505		78.5	30-130			

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QUALITY CONTROL

TCLP - 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 B204981 - SW-846 3510C

Matrix Spike (B204981-MS1)	Source: 18E1297-09			Prepared: 06/05/18 Analyzed: 06/06/18						
2,4-Dinitrotoluene	0.384	0.10	mg/L	0.500	ND	76.8	40-140			
2-Methylphenol	0.247	0.10	mg/L	0.500	ND	49.4	40-140			
3/4-Methylphenol	0.198	0.10	mg/L	0.500	ND	39.6	* 40-140			MS-08
Nitrobenzene	0.366	0.10	mg/L	0.500	ND	73.3	40-140			
Pentachlorophenol	0.329	0.10	mg/L	0.500	ND	65.9	40-140			
Pyridine	0.205	0.050	mg/L	0.500	ND	40.9	40-140			
2,4,5-Trichlorophenol	0.375	0.10	mg/L	0.500	ND	75.0	40-140			
2,4,6-Trichlorophenol	0.367	0.10	mg/L	0.500	ND	73.5	40-140			
Surrogate: 2-Fluorophenol	0.511		mg/L	2.00		25.5	15-110			
Surrogate: Phenol-d6	0.319		mg/L	2.00		16.0	15-110			
Surrogate: Nitrobenzene-d5	0.726		mg/L	1.00		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	0.666		mg/L	1.01		65.9	30-130			
Surrogate: 2,4,6-Tribromophenol	1.64		mg/L	2.00		82.1	15-110			
Surrogate: p-Terphenyl-d14	0.728		mg/L	1.01		72.1	30-130			

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QUALITY CONTROL

TCLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204968 - SW-846 3510C										
Blank (B204968-BLK1)										
Prepared: 06/05/18 Analyzed: 06/07/18										
gamma-BHC (Lindane)	ND	0.030	µg/L							
gamma-BHC (Lindane) [2C]	ND	0.030	µg/L							
Chlordane	ND	0.20	µg/L							
Chlordane [2C]	ND	0.20	µg/L							
Endrin	ND	0.080	µg/L							
Endrin [2C]	ND	0.080	µg/L							
Heptachlor	ND	0.050	µg/L							
Heptachlor [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Methoxychlor	ND	0.50	µg/L							
Methoxychlor [2C]	ND	0.50	µg/L							
Toxaphene	ND	1.0	µg/L							
Toxaphene [2C]	ND	1.0	µg/L							
Surrogate: Decachlorobiphenyl	1.63		µg/L	2.00		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.76		µg/L	2.00		87.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.66		µg/L	2.00		83.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.01		µg/L	2.00		101	30-150			
LCS (B204968-BS1)										
Prepared: 06/05/18 Analyzed: 06/07/18										
gamma-BHC (Lindane)	0.87	0.030	µg/L	1.00		86.7	40-140			
gamma-BHC (Lindane) [2C]	0.85	0.030	µg/L	1.00		85.5	40-140			
Endrin	0.88	0.080	µg/L	1.00		88.4	40-140			
Endrin [2C]	0.87	0.080	µg/L	1.00		86.7	40-140			
Heptachlor	0.81	0.050	µg/L	1.00		80.9	40-140			
Heptachlor [2C]	0.87	0.050	µg/L	1.00		86.5	40-140			
Heptachlor Epoxide	0.89	0.050	µg/L	1.00		88.7	40-140			
Heptachlor Epoxide [2C]	0.86	0.050	µg/L	1.00		86.3	40-140			
Methoxychlor	0.92	0.50	µg/L	1.00		91.5	40-140			
Methoxychlor [2C]	0.91	0.50	µg/L	1.00		91.4	40-140			
Surrogate: Decachlorobiphenyl	0.860		µg/L	2.00		43.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.860		µg/L	2.00		43.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.55		µg/L	2.00		77.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.93		µg/L	2.00		96.4	30-150			
LCS Dup (B204968-BS1)										
Prepared: 06/05/18 Analyzed: 06/07/18										
gamma-BHC (Lindane)	0.90	0.030	µg/L	1.00		89.6	40-140	3.32	20	
gamma-BHC (Lindane) [2C]	0.88	0.030	µg/L	1.00		88.1	40-140	3.05	20	
Endrin	0.91	0.080	µg/L	1.00		91.2	40-140	3.13	20	
Endrin [2C]	0.89	0.080	µg/L	1.00		88.8	40-140	2.39	20	
Heptachlor	0.84	0.050	µg/L	1.00		84.4	40-140	4.29	20	
Heptachlor [2C]	0.90	0.050	µg/L	1.00		89.6	40-140	3.46	20	
Heptachlor Epoxide	0.92	0.050	µg/L	1.00		92.0	40-140	3.69	20	
Heptachlor Epoxide [2C]	0.89	0.050	µg/L	1.00		88.9	40-140	3.00	20	
Methoxychlor	0.93	0.50	µg/L	1.00		93.1	40-140	1.71	20	
Methoxychlor [2C]	0.93	0.50	µg/L	1.00		93.2	40-140	1.92	20	
Surrogate: Decachlorobiphenyl	1.72		µg/L	2.00		85.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.75		µg/L	2.00		87.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.62		µg/L	2.00		81.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.87		µg/L	2.00		93.6	30-150			

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QUALITY CONTROL

TCLP - Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B204968 - SW-846 3510C										
Matrix Spike (B204968-MS1)	Source: 18E1297-09			Prepared: 06/05/18 Analyzed: 06/07/18						
gamma-BHC (Lindane)	0.11	0.030	µg/L	1.00	ND	10.6	* 30-150			MS-07
gamma-BHC (Lindane) [2C]	0.075	0.030	µg/L	1.00	ND	7.50	* 30-150			MS-07
Endrin	0.71	0.080	µg/L	1.00	ND	70.9	30-150			
Endrin [2C]	0.63	0.080	µg/L	1.00	ND	63.4	30-150			
Heptachlor	0.58	0.050	µg/L	1.00	ND	58.1	30-150			
Heptachlor [2C]	0.46	0.050	µg/L	1.00	ND	46.4	30-150			
Heptachlor Epoxide	1.2	0.050	µg/L	1.00	ND	116	30-150			
Heptachlor Epoxide [2C]	0.60	0.050	µg/L	1.00	ND	59.9	30-150			
Methoxychlor	0.49	0.50	µg/L	1.00	ND	49.4	30-150			
Methoxychlor [2C]	1.8	0.50	µg/L	1.00	ND	181	* 30-150			MS-11
Surrogate: Decachlorobiphenyl	25.5		µg/L	2.00		1270	* 30-150			S-19
Surrogate: Decachlorobiphenyl [2C]	0.190		µg/L	2.00		9.49	* 30-150			S-19
Surrogate: Tetrachloro-m-xylene	1.34		µg/L	2.00		66.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.41		µg/L	2.00		70.5	30-150			

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QUALITY CONTROL

TCLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204959 - SW-846 3510C

Blank (B204959-BLK1)

Prepared: 06/05/18 Analyzed: 06/06/18

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.85		µg/L	2.00		92.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.94		µg/L	2.00		97.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.69		µg/L	2.00		84.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.59		µg/L	2.00		79.3	30-150			

LCS (B204959-BS1)

Prepared: 06/05/18 Analyzed: 06/06/18

Aroclor-1016	0.45	0.20	µg/L	0.500		90.3	40-140			
Aroclor-1016 [2C]	0.43	0.20	µg/L	0.500		86.5	40-140			
Aroclor-1260	0.42	0.20	µg/L	0.500		83.0	40-140			
Aroclor-1260 [2C]	0.42	0.20	µg/L	0.500		83.9	40-140			
Surrogate: Decachlorobiphenyl	1.35		µg/L	2.00		67.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.39		µg/L	2.00		69.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.61		µg/L	2.00		80.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.52		µg/L	2.00		75.9	30-150			

LCS Dup (B204959-BS1)

Prepared: 06/05/18 Analyzed: 06/06/18

Aroclor-1016	0.49	0.20	µg/L	0.500		97.6	40-140	7.71	20	
Aroclor-1016 [2C]	0.46	0.20	µg/L	0.500		92.0	40-140	6.11	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		92.5	40-140	10.8	20	
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		92.4	40-140	9.67	20	
Surrogate: Decachlorobiphenyl	1.56		µg/L	2.00		77.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.61		µg/L	2.00		80.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.70		µg/L	2.00		84.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.58		µg/L	2.00		79.2	30-150			

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QUALITY CONTROL
TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B204974 - SW-846 3010A
Blank (B204974-BLK1)

Prepared: 06/05/18 Analyzed: 06/06/18

Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							

LCS (B204974-BS1)

Prepared: 06/05/18 Analyzed: 06/06/18

Arsenic	0.582	0.010	mg/L	0.500		116	80-120			
Barium	0.528	0.050	mg/L	0.500		106	80-120			
Cadmium	0.555	0.0040	mg/L	0.500		111	80-120			
Chromium	0.531	0.010	mg/L	0.500		106	80-120			
Lead	0.532	0.010	mg/L	0.500		106	80-120			
Selenium	0.608	0.050	mg/L	0.500		122 *	80-120			L-02
Silver	0.539	0.0050	mg/L	0.500		108	80-120			

LCS Dup (B204974-BSD1)

Prepared: 06/05/18 Analyzed: 06/06/18

Arsenic	0.587	0.010	mg/L	0.500		117	80-120	0.939	20	
Barium	0.550	0.050	mg/L	0.500		110	80-120	4.13	20	
Cadmium	0.576	0.0040	mg/L	0.500		115	80-120	3.78	20	
Chromium	0.551	0.010	mg/L	0.500		110	80-120	3.84	20	
Lead	0.531	0.010	mg/L	0.500		106	80-120	0.0619	20	
Selenium	0.625	0.050	mg/L	0.500		125 *	80-120	2.78	20	L-02
Silver	0.554	0.0050	mg/L	0.500		111	80-120	2.84	20	

Matrix Spike (B204974-MS1)
Source: 18E1297-09

Prepared: 06/05/18 Analyzed: 06/06/18

Arsenic	0.604	0.010	mg/L	0.500	0.0122	118	75-125			
Barium	0.561	0.050	mg/L	0.500	ND	112	75-125			
Cadmium	0.567	0.0040	mg/L	0.500	0.00195	113	75-125			
Chromium	0.548	0.010	mg/L	0.500	0.0120	107	75-125			
Lead	0.643	0.010	mg/L	0.500	0.0912	110	75-125			
Selenium	0.581	0.050	mg/L	0.500	ND	116	75-125			
Silver	0.544	0.0050	mg/L	0.500	ND	109	75-125			

Batch B205031 - SW-846 7470A Prep
Blank (B205031-BLK1)

Prepared & Analyzed: 06/06/18

Mercury	ND	0.00010	mg/L							
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LCS (B205031-BS1)

Prepared & Analyzed: 06/06/18

Mercury	0.00178	0.00010	mg/L	0.00200		89.1	80-120			
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QUALITY CONTROL
TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B205031 - SW-846 7470A Prep
LCS Dup (B205031-BSD1)

Prepared & Analyzed: 06/06/18

Mercury	0.00176	0.00010	mg/L	0.00200		88.2	80-120	1.04	20	
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Matrix Spike (B205031-MS1)
Source: 18E1297-09

Prepared & Analyzed: 06/06/18

Mercury	0.00414	0.00010	mg/L	0.00200	0.00237	88.2	75-125			
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BREAKDOWN REPORT

Lab Sample ID: S024037-PEM1 **Analyzed:** 06/07/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.62
Endrin [1]	4.17

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.28
Endrin [2]	3.77

BREAKDOWN REPORT

Lab Sample ID: S024037-PEM2 **Analyzed:** 06/07/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.07
Endrin [1]	4.68

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.67
Endrin [2]	3.97

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

401075-MW-06

Lab Sample ID: 18E1297-07 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDE	1	6.333	6.304	6.364	0.0054	
	2	6.378	6.349	6.409	0.0055	1.8
4,4'-DDT	1	6.947	6.919	6.979	0.016	
	2	7.012	6.982	7.042	0.016	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B204333-BS1 Date(s) Analyzed 05/29/2018 05/29/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.45	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.43	11.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***LCS Dup**

Lab Sample ID: B204333-BSD1 Date(s) Analyzed 05/29/2018 05/29/2018
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.52	
	2	0.000	0.000	0.000	0.49	5.9
Aroclor-1260	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.44	10.8

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B204333-MS1 Date(s) Analyzed 06/06/2018 06/06/2018
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.52	
	2	0.000	0.000	0.000	0.50	3.9
Aroclor-1260	1	0.000	0.000	0.000	0.51	
	2	0.000	0.000	0.000	0.44	14.7

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B204333-MSD1 Date(s) Analyzed 06/06/2018 06/06/2018
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.57	
	2	0.000	0.000	0.000	0.54	5.4
Aroclor-1260	1	0.000	0.000	0.000	0.55	
	2	0.000	0.000	0.000	0.49	13.3

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B204338-BS1 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.747	6.717	6.777	0.99	
	2	6.786	6.757	6.817	1.0	1.0
4,4'-DDE	1	6.334	6.304	6.364	0.99	
	2	6.379	6.350	6.410	1.0	1.0
4,4'-DDT	1	6.949	6.918	6.978	0.98	
	2	7.013	6.983	7.043	1.0	2.0
Alachlor	1	5.817	5.786	5.846	1.0	
	2	5.634	5.604	5.664	0.98	2.0
Aldrin	1	5.718	5.688	5.748	0.96	
	2	5.671	5.642	5.702	0.99	3.1
alpha-BHC	1	5.092	5.061	5.121	0.95	
	2	5.058	5.028	5.088	0.98	3.1
beta-BHC	1	5.316	5.286	5.346	0.93	
	2	5.296	5.266	5.326	0.96	3.2
delta-BHC	1	5.416	5.386	5.446	0.97	
	2	5.457	5.427	5.487	0.91	6.4
Dieldrin	1	6.522	6.491	6.551	0.94	
	2	6.466	6.436	6.496	1.0	6.2
Endosulfan I	1	6.358	6.328	6.388	0.95	
	2	6.280	6.251	6.311	0.96	1.1
Endosulfan II	1	6.839	6.809	6.869	0.96	
	2	6.828	6.798	6.858	0.97	1.0
Endosulfan Sulfate	1	7.470	7.439	7.499	0.97	
	2	7.289	7.259	7.319	0.95	2.1
Endrin	1	6.681	6.650	6.710	0.93	
	2	6.672	6.643	6.703	0.92	1.1
Endrin Aldehyde	1	7.145	7.115	7.175	0.95	
	2	7.079	7.049	7.109	0.95	0.0
Endrin Ketone	1	7.677	7.646	7.706	0.96	
	2	7.680	7.650	7.710	0.96	0.0
gamma-BHC (Lindane)	1	5.266	5.235	5.295	0.96	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B204338-BS1 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.245	5.216	5.276	0.99	3.1
Heptachlor	1	5.539	5.508	5.568	0.93	
	2	5.486	5.457	5.517	0.94	1.1
Heptachlor Epoxide	1	6.101	6.070	6.130	0.94	
	2	6.028	5.999	6.059	0.93	1.1
Hexachlorobenzene	1	5.000	4.969	5.029	1.0	
	2	4.981	4.951	5.011	1.0	0.0
Methoxychlor	1	7.326	7.295	7.355	0.95	
	2	7.554	7.524	7.584	0.93	2.1

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B204338-BSD1 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.747	6.717	6.777	0.95	
	2	6.787	6.757	6.817	0.99	4.1
4,4'-DDE	1	6.335	6.304	6.364	0.95	
	2	6.379	6.350	6.410	1.0	5.1
4,4'-DDT	1	6.949	6.918	6.978	0.94	
	2	7.013	6.983	7.043	0.96	2.1
Alachlor	1	5.818	5.786	5.846	0.97	
	2	5.634	5.604	5.664	0.96	1.0
Aldrin	1	5.719	5.688	5.748	0.93	
	2	5.671	5.642	5.702	0.96	3.2
alpha-BHC	1	5.092	5.061	5.121	0.92	
	2	5.058	5.028	5.088	0.96	3.2
beta-BHC	1	5.317	5.286	5.346	0.91	
	2	5.296	5.266	5.326	0.94	3.2
delta-BHC	1	5.417	5.386	5.446	0.93	
	2	5.457	5.427	5.487	0.89	4.4
Dieldrin	1	6.522	6.491	6.551	0.90	
	2	6.466	6.436	6.496	0.97	7.5
Endosulfan I	1	6.359	6.328	6.388	0.92	
	2	6.280	6.251	6.311	0.93	1.1
Endosulfan II	1	6.839	6.809	6.869	0.92	
	2	6.828	6.798	6.858	0.95	3.2
Endosulfan Sulfate	1	7.470	7.439	7.499	0.93	
	2	7.288	7.259	7.319	0.92	1.1
Endrin	1	6.682	6.650	6.710	0.89	
	2	6.673	6.643	6.703	0.89	0.0
Endrin Aldehyde	1	7.145	7.115	7.175	0.92	
	2	7.079	7.049	7.109	0.92	0.0
Endrin Ketone	1	7.677	7.646	7.706	0.93	
	2	7.680	7.650	7.710	0.92	1.1
gamma-BHC (Lindane)	1	5.266	5.235	5.295	0.94	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B204338-BSD1 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.245	5.216	5.276	0.97	3.1
Heptachlor	1	5.539	5.508	5.568	0.90	
	2	5.486	5.457	5.517	0.92	2.2
Heptachlor Epoxide	1	6.102	6.070	6.130	0.91	
	2	6.028	5.999	6.059	0.90	1.1
Hexachlorobenzene	1	5.000	4.969	5.029	0.98	
	2	4.981	4.951	5.011	1.0	2.0
Methoxychlor	1	7.326	7.295	7.355	0.92	
	2	7.554	7.524	7.584	0.90	2.2

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B204338-MS1 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.747	6.717	6.777	1.0	
	2	6.786	6.756	6.816	1.0	0.0
4,4'-DDE	1	6.334	6.304	6.364	0.97	
	2	6.379	6.349	6.409	1.0	3.1
4,4'-DDT	1	6.948	6.919	6.979	0.99	
	2	7.012	6.982	7.042	0.95	4.1
Alachlor	1	5.817	5.787	5.847	1.1	
	2	5.634	5.603	5.663	1.0	9.5
Aldrin	1	5.718	5.688	5.748	0.95	
	2	5.672	5.641	5.701	0.95	0.0
alpha-BHC	1	5.092	5.062	5.122	0.94	
	2	5.058	5.028	5.088	0.90	4.4
beta-BHC	1	5.317	5.286	5.346	0.92	
	2	5.297	5.266	5.326	0.90	2.2
delta-BHC	1	5.416	5.385	5.445	0.98	
	2	5.457	5.427	5.487	0.92	6.3
Dieldrin	1	6.522	6.492	6.552	0.96	
	2	6.465	6.435	6.495	1.0	4.1
Endosulfan I	1	6.358	6.328	6.388	0.98	
	2	6.280	6.249	6.309	0.96	2.1
Endosulfan II	1	6.839	6.809	6.869	0.99	
	2	6.828	6.797	6.857	1.0	1.0
Endosulfan Sulfate	1	7.470	7.439	7.499	1.0	
	2	7.288	7.258	7.318	0.97	3.1
Endrin	1	6.681	6.650	6.710	0.96	
	2	6.672	6.642	6.702	0.94	2.1
Endrin Aldehyde	1	7.144	7.114	7.174	0.88	
	2	7.078	7.049	7.109	0.83	5.9
Endrin Ketone	1	7.677	7.647	7.707	1.0	
	2	7.679	7.649	7.709	0.98	2.0
gamma-BHC (Lindane)	1	5.266	5.235	5.295	0.95	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B204338-MS1 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.245	5.215	5.275	0.94	1.1
Heptachlor	1	5.538	5.508	5.568	0.94	
	2	5.486	5.456	5.516	0.93	1.1
Heptachlor Epoxide	1	6.100	6.070	6.130	0.97	
	2	6.028	5.998	6.058	0.95	2.1
Hexachlorobenzene	1	4.999	4.969	5.029	0.97	
	2	4.981	4.951	5.011	0.94	3.1
Methoxychlor	1	7.325	7.295	7.355	0.98	
	2	7.553	7.523	7.583	0.94	4.2

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B204338-MSD1 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	6.747	6.717	6.777	0.94	
	2	6.785	6.756	6.816	0.95	1.1
4,4'-DDE	1	6.334	6.304	6.364	0.91	
	2	6.379	6.349	6.409	0.95	4.3
4,4'-DDT	1	6.949	6.919	6.979	0.92	
	2	7.012	6.982	7.042	0.89	3.3
Alachlor	1	5.817	5.787	5.847	1.0	
	2	5.634	5.603	5.663	0.96	4.1
Aldrin	1	5.717	5.688	5.748	0.89	
	2	5.671	5.641	5.701	0.88	1.1
alpha-BHC	1	5.092	5.062	5.122	0.87	
	2	5.058	5.028	5.088	0.84	4.7
beta-BHC	1	5.316	5.286	5.346	0.85	
	2	5.296	5.266	5.326	0.85	0.0
delta-BHC	1	5.416	5.385	5.445	0.91	
	2	5.456	5.427	5.487	0.86	5.7
Dieldrin	1	6.521	6.492	6.552	0.90	
	2	6.465	6.435	6.495	0.93	3.3
Endosulfan I	1	6.357	6.328	6.388	0.92	
	2	6.279	6.249	6.309	0.90	3.3
Endosulfan II	1	6.839	6.809	6.869	0.92	
	2	6.827	6.797	6.857	0.94	2.2
Endosulfan Sulfate	1	7.469	7.439	7.499	0.94	
	2	7.288	7.258	7.318	0.91	3.2
Endrin	1	6.680	6.650	6.710	0.90	
	2	6.672	6.642	6.702	0.88	2.3
Endrin Aldehyde	1	7.145	7.114	7.174	0.84	
	2	7.078	7.049	7.109	0.81	4.8
Endrin Ketone	1	7.676	7.647	7.707	0.93	
	2	7.679	7.649	7.709	0.91	2.2
gamma-BHC (Lindane)	1	5.266	5.235	5.295	0.89	

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B204338-MSD1 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	5.245	5.215	5.275	0.87	2.3
Heptachlor	1	5.539	5.508	5.568	0.88	
	2	5.486	5.456	5.516	0.86	2.3
Heptachlor Epoxide	1	6.100	6.070	6.130	0.91	
	2	6.028	5.998	6.058	0.88	3.4
Hexachlorobenzene	1	4.999	4.969	5.029	0.90	
	2	4.981	4.951	5.011	0.87	3.4
Methoxychlor	1	7.324	7.295	7.355	0.91	
	2	7.553	7.523	7.583	0.88	3.4

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: B204959-BS1 Date(s) Analyzed 06/06/2018 06/06/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.43	4.6
Aroclor-1260	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.42	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: B204959-BSD1 Date(s) Analyzed 06/06/2018 06/06/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.46	6.3
Aroclor-1260	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.46	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B204968-BS1 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endrin	1	6.682	0.000	0.000	0.88	
	2	6.673	0.000	0.000	0.87	1.1
gamma-BHC (Lindane)	1	5.266	0.000	0.000	0.87	
	2	5.246	0.000	0.000	0.85	2.3
Heptachlor	1	5.539	0.000	0.000	0.81	
	2	5.487	0.000	0.000	0.87	7.1
Heptachlor Epoxide	1	6.101	0.000	0.000	0.89	
	2	6.029	0.000	0.000	0.86	3.4
Methoxychlor	1	7.327	0.000	0.000	0.92	
	2	7.554	0.000	0.000	0.91	1.1

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B204968-BSD1 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endrin	1	6.681	0.000	0.000	0.91	
	2	6.672	0.000	0.000	0.89	2.2
gamma-BHC (Lindane)	1	5.265	0.000	0.000	0.90	
	2	5.245	0.000	0.000	0.88	2.3
Heptachlor	1	5.538	0.000	0.000	0.84	
	2	5.486	0.000	0.000	0.90	6.9
Heptachlor Epoxide	1	6.101	0.000	0.000	0.92	
	2	6.028	0.000	0.000	0.89	3.3
Methoxychlor	1	7.325	0.000	0.000	0.93	
	2	7.553	0.000	0.000	0.93	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B204968-MS1 Date(s) Analyzed 06/07/2018 06/07/2018
Instrument ID (1): ECD6 Instrument ID (2): ECD6
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endrin	1	6.681	0.000	0.000	0.71	
	2	6.672	0.000	0.000	0.63	11.9
gamma-BHC (Lindane)	1	5.265	0.000	0.000	0.11	
	2	5.244	0.000	0.000	0.075	37.8
Heptachlor	1	5.538	0.000	0.000	0.58	
	2	5.486	0.000	0.000	0.46	23.1
Heptachlor Epoxide	1	6.104	0.000	0.000	1.2	
	2	6.028	0.000	0.000	0.60	66.7
Methoxychlor	1	7.326	0.000	0.000	0.49	
	2	7.555	0.000	0.000	1.8	114.0

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.
DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
DL-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-08	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PR-11	pH of sample (pH 8) is outside of method specified preservation criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
RL-11	Elevated reporting limit due to high concentration of target compounds.
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 did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 6010C-D in Water</i>	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	NY,CT,NC,ME,NH,VA
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
Barium	NY,CT,ME,NC,NH,VA
Cadmium	NY,CT,ME,NC,NH,VA
Chromium	NY,CT,ME,NC,NH,VA
Lead	NY,CT,ME,NC,NH,VA
Selenium	CT,ME,NC,NH,NY,VA
Silver	CT,ME,NC,NH,NY,VA
<i>SW-846 7470A in Water</i>	
Mercury	CT,ME,NC,NH,NY,VA
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 7471B in Soil</i>	
Mercury	CT,NH,NY,NC,ME,VA
<i>SW-846 8081B in Water</i>	
Alachlor	NC
Alachlor	NC
Alachlor [2C]	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin	CT,ME,NC,NH,NY,VA
Aldrin [2C]	CT,ME,NC,NH,NY,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,ME,NC,NH,NY,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,ME,NC,NH,NY,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC	CT,ME,NC,NH,NY,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,ME,NC,NH,NY,VA
delta-BHC	CT,ME,NC,NH,NY,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,ME,NC,NH,NY,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,ME,NC,NH,NY,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,ME,NC,NH,NY,VA
Chlordane	CT,ME,NC,NH,NY,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,ME,NC,NH,NY,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,ME,NC,NH,NY,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,ME,NC,NH,NY,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,ME,NC,NH,NY,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,ME,NC,NH,NY,VA
4,4'-DDT	CT,ME,NC,NH,NY,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,ME,NC,NH,NY,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,ME,NC,NH,NY,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,ME,NC,NH,NY,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,ME,NC,NH,NY,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,ME,NC,NH,NY,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,ME,NC,NH,NY,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,ME,NC,NH,NY,VA
Endosulfan Sulfate	CT,ME,NC,NH,NY,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,ME,NC,NH,NY,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,ME,NC,NH,NY,VA
Endrin	CT,NH,NY,ME,NC,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8081B in Water</i>	
Endrin [2C]	CT,ME,NC,NH,NY,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,ME,NC,NH,NY,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,ME,NC,NH,NY,VA
Endrin Ketone	NC
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,ME,NC,NH,NY,VA
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,ME,NC,NH,NY,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,ME,NC,NH,NY,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,ME,NC,NH,NY,VA
Hexachlorobenzene	NC
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor	CT,ME,NC,NH,NY,VA
Methoxychlor [2C]	CT,ME,NC,NH,NY,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,ME,NC,NH,NY,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,ME,NC,NH,NY,VA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NY,ME,NC,NH,VA
Aroclor-1016 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1221	CT,NY,ME,NC,NH,VA
Aroclor-1221 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1232	CT,NY,ME,NC,NH,VA
Aroclor-1232 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1242	CT,NY,ME,NC,NH,VA
Aroclor-1242 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1248	CT,NY,ME,NC,NH,VA
Aroclor-1248 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1254	CT,NY,ME,NC,NH,VA
Aroclor-1254 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1260	CT,NY,ME,NC,NH,VA
Aroclor-1260 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1262	NY,NC,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NY,ME,NC,NH,VA
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NY,ME,NC,NH,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NY,ME,NC,NH,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NY,ME,NC,NH,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NY,ME,NC,NH,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NY,ME,NC,NH,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NY,ME,NC,NH,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NY,ME,NC,NH,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262	NY,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NY,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268	NY,VA
Aroclor-1268 [2C]	NY,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<i>SW-846 8260C in Water</i>	
Acetone	CT,ME,NH,VA,NY
Acetone	ME,NY,VA
Acrylonitrile	CT,ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	ME,NH,VA,NY
tert-Amyl Methyl Ether (TAME)	NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Benzene	ME,NY,CT,NC,VA
Benzene	CT,ME,NH,VA,NY
Bromobenzene	NY
Bromochloromethane	ME,NH,VA,NY
Bromochloromethane	ME,NY,VA
Bromodichloromethane	ME,NY,VA
Bromodichloromethane	CT,ME,NH,VA,NY
Bromoform	ME,NY,VA
Bromoform	CT,ME,NH,VA,NY
Bromomethane	CT,ME,NH,VA,NY
Bromomethane	ME,NY,VA
2-Butanone (MEK)	CT,ME,NH,VA,NY
2-Butanone (MEK)	ME,NY,CT,NC,VA
tert-Butyl Alcohol (TBA)	ME,NH,VA,NY
n-Butylbenzene	ME,VA,NY
n-Butylbenzene	ME,NY,VA
sec-Butylbenzene	ME,VA,NY
sec-Butylbenzene	ME,NY,VA
tert-Butylbenzene	ME,NY,VA
tert-Butylbenzene	ME,VA,NY
tert-Butyl Ethyl Ether (TBEE)	ME,NY,VA
tert-Butyl Ethyl Ether (TBEE)	ME,NH,VA,NY
Carbon Disulfide	ME,NY,VA
Carbon Disulfide	CT,ME,NH,VA,NY
Carbon Tetrachloride	ME,NY,CT,NC,VA
Carbon Tetrachloride	CT,ME,NH,VA,NY
Chlorobenzene	CT,ME,NH,VA,NY
Chlorobenzene	ME,NY,CT,NC,VA
Chlorodibromomethane	ME,NY,VA
Chlorodibromomethane	CT,ME,NH,VA,NY
Chloroethane	ME,NY,VA
Chloroethane	CT,ME,NH,VA,NY
Chloroform	CT,ME,NH,VA,NY
Chloroform	ME,NY,CT,NC,VA
Chloromethane	ME,NY,VA
Chloromethane	CT,ME,NH,VA,NY
2-Chlorotoluene	ME,NH,VA,NY
2-Chlorotoluene	ME,NY,VA
4-Chlorotoluene	ME,NH,VA,NY
4-Chlorotoluene	ME,NY,VA
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	ME,NY,VA
Dibromomethane	ME,NH,VA,NY
1,2-Dichlorobenzene	ME,NY,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
1,2-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	CT,ME,NH,VA,NY
1,3-Dichlorobenzene	ME,NY,VA
1,4-Dichlorobenzene	ME,NY,CT,NC,VA
1,4-Dichlorobenzene	CT,ME,NH,VA,NY
trans-1,4-Dichloro-2-butene	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NH,VA,NY
Dichlorodifluoromethane (Freon 12)	ME,NY,VA
1,1-Dichloroethane	CT,ME,NH,VA,NY
1,1-Dichloroethane	ME,NY,VA
1,2-Dichloroethane	CT,ME,NH,VA,NY
1,2-Dichloroethane	ME,NY,CT,NC,VA
1,1-Dichloroethylene	CT,ME,NH,VA,NY
1,1-Dichloroethylene	ME,NY,CT,NC,VA
cis-1,2-Dichloroethylene	ME,NY
cis-1,2-Dichloroethylene	ME,NY
trans-1,2-Dichloroethylene	ME,NY,VA
trans-1,2-Dichloroethylene	CT,ME,NH,VA,NY
1,2-Dichloropropane	ME,NY,VA
1,2-Dichloropropane	CT,ME,NH,VA,NY
1,3-Dichloropropane	ME,VA,NY
1,3-Dichloropropane	ME,NY,VA
2,2-Dichloropropane	ME,NH,VA,NY
2,2-Dichloropropane	ME,NY,VA
1,1-Dichloropropene	ME,NY,VA
1,1-Dichloropropene	ME,NH,VA,NY
cis-1,3-Dichloropropene	CT,ME,NH,VA,NY
cis-1,3-Dichloropropene	ME,NY,VA
trans-1,3-Dichloropropene	CT,ME,NH,VA,NY
trans-1,3-Dichloropropene	ME,NY,VA
Diethyl Ether	NY
Diisopropyl Ether (DIPE)	ME,NH,VA,NY
Diisopropyl Ether (DIPE)	ME,NY,VA
1,4-Dioxane	NY
Ethylbenzene	ME,NY,VA
Ethylbenzene	CT,ME,NH,VA,NY
Hexachlorobutadiene	CT,ME,NH,VA,NY
Hexachlorobutadiene	ME,NY,VA
2-Hexanone (MBK)	CT,ME,NH,VA,NY
2-Hexanone (MBK)	ME,NY,VA
Isopropylbenzene (Cumene)	ME,NY,VA
Isopropylbenzene (Cumene)	ME,VA,NY
p-Isopropyltoluene (p-Cymene)	ME,NY
p-Isopropyltoluene (p-Cymene)	CT,ME,NH,VA,NY
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	CT,ME,NH,VA,NY
Methyl tert-Butyl Ether (MTBE)	ME,NY,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
Methyl Cyclohexane	NY
Methylene Chloride	ME,NY,VA
Methylene Chloride	CT,ME,NH,VA,NY
4-Methyl-2-pentanone (MIBK)	ME,NY,VA
4-Methyl-2-pentanone (MIBK)	CT,ME,NH,VA,NY
Naphthalene	ME,NH,VA,NY
Naphthalene	ME,NY,VA
n-Propylbenzene	ME,NY,VA
n-Propylbenzene	CT,ME,NH,VA,NY
Styrene	ME,NY,VA
Styrene	CT,ME,NH,VA,NY
1,1,1,2-Tetrachloroethane	ME,NY,VA
1,1,1,2-Tetrachloroethane	CT,ME,NH,VA,NY
1,1,2,2-Tetrachloroethane	ME,NY,VA
1,1,2,2-Tetrachloroethane	CT,ME,NH,VA,NY
Tetrachloroethylene	CT,ME,NH,VA,NY
Tetrachloroethylene	ME,NY,CT,NC,VA
Tetrahydrofuran	NY
Toluene	ME,NY,VA
Toluene	CT,ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NH,VA,NY
1,2,3-Trichlorobenzene	ME,NY,VA
1,2,4-Trichlorobenzene	CT,ME,NH,VA,NY
1,2,4-Trichlorobenzene	ME,NY,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	ME,NY,VA
1,1,1-Trichloroethane	CT,ME,NH,VA,NY
1,1,2-Trichloroethane	ME,NY,VA
1,1,2-Trichloroethane	CT,ME,NH,VA,NY
Trichloroethylene	CT,ME,NH,VA,NY
Trichloroethylene	ME,NY,CT,NC,VA
Trichlorofluoromethane (Freon 11)	ME,NY,VA
Trichlorofluoromethane (Freon 11)	CT,ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NH,VA,NY
1,2,3-Trichloropropane	ME,NY,VA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	VA,NY
1,2,4-Trimethylbenzene	ME,NY,VA
1,2,4-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,VA,NY
1,3,5-Trimethylbenzene	ME,NY,VA
Vinyl Chloride	ME,NY,CT,NC,VA
Vinyl Chloride	CT,ME,NH,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
m+p Xylene	ME,VA
o-Xylene	ME,VA
o-Xylene	CT,ME,NH,VA,NY

CERTIFICATIONS
Certified Analyses included in this Report

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Soil</i>	
Nitrobenzene	ME,NC,NH,NY,CT,VA
2-Nitrophenol	ME,NC,NH,NY,VA
4-Nitrophenol	ME,NC,NH,NY,VA
Pentachlorophenol	ME,NC,NH,NY,CT,VA
Phenanthrene	ME,NC,NH,NY,VA
Phenol	ME,NC,NH,NY,VA
Pyrene	ME,NC,NH,NY,VA
Pyridine	ME,NC,NH,NY,CT,VA
1,2,4-Trichlorobenzene	ME,NC,NH,NY,VA
2,4,5-Trichlorophenol	ME,NC,NH,NY,CT,VA
2,4,6-Trichlorophenol	ME,NC,NH,NY,CT,VA
2-Fluorophenol	NC
<i>SW-846 8270D in Water</i>	
Acenaphthene	ME,NC,NH,NY,VA
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acenaphthylene	ME,NC,NH,NY,VA
Acetophenone	ME,NC,NH,NY
Acetophenone	NY,NC
Aniline	ME,NC,NH,NY,VA
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Anthracene	ME,NC,NH,NY,VA
Benzidine	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	ME,NC,NH,NY,VA
Benzo(a)pyrene	ME,NC,NH,NY,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	ME,NC,NH,NY,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	ME,NC,NH,NY,VA
Benzo(k)fluoranthene	ME,NC,NH,NY,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	ME,NC,NH,NY,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	ME,NC,NH,NY,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	ME,NC,NH,NY,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	ME,NC,NH,NY,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	ME,NC,NH,NY,VA
Butylbenzylphthalate	ME,NC,NH,NY,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloroaniline	ME,NC,NH,NY,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	NC,NY,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
2-Chlorophenol	ME,NC,NH,NY,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	ME,NC,NH,NY,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	ME,NC,NH,NY,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Dibenzofuran	ME,NC,NH,NY,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	ME,NC,NH,NY,VA
1,2-Dichlorobenzene	ME,NC,NH,NY,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	ME,NC,NH,NY,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	ME,NC,NH,NY,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	ME,NC,NH,NY,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	ME,NC,NH,NY,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	ME,NC,NH,NY,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	ME,NC,NH,NY,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	ME,NC,NH,NY,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-Dinitrophenol	ME,NC,NH,NY,VA
2,4-Dinitrotoluene	ME,NC,NH,CT,NY,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	ME,NC,NH,NY,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	ME,NC,NH,NY,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NC
1,2-Diphenylhydrazine (as Azobenzene)	ME,NC,NH,NY
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluoranthene	ME,NC,NH,NY,VA

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
Fluorene	NY,NC,ME,NH,VA
Fluorene	ME,NC,NH,NY,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobenzene	ME,NC,NH,CT,NY,VA
Hexachlorobutadiene	ME,NC,NH,CT,NY,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Hexachloroethane	ME,NC,NH,CT,NY,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	ME,NC,NH,NY,VA
Isophorone	CT,NY,NC,ME,NH,VA
Isophorone	ME,NC,NH,NY,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	ME,NC,NH,NY,VA
2-Methylphenol	CT,NY,NC,NH,VA
2-Methylphenol	ME,NC,NH,CT
3/4-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	ME,NC,NH,CT
Naphthalene	ME,NC,NH,NY,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
Nitrobenzene	ME,NC,NH,CT,NY,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
2-Nitrophenol	ME,NC,NH,NY,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	ME,NC,NH,NY,VA
N-Nitrosodimethylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	ME,NC,NH,CT,NY,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenanthrene	ME,NC,NH,NY,VA
Phenol	ME,NC,NH,NY,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	ME,NC,NH,NY,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	ME,NC,NH,CT,NY,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	ME,NC,NH,NY,VA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	ME,NC,NH,CT,NY,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	ME,NC,NH,CT,NY,VA
2-Fluorophenol	NC
2-Fluorophenol	NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018


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 EA EngineeringReceived By SEDate 5/23/18Time 16:55
 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 # 577 Actual Temp -2.6, 2.6, 2.7, 2.8, 2.9, 2.9
 By Blank # Actual Temp
Was Custody Seal Intact? N/A Were Samples Tampered with? N/AWas COC Relinquished? T Does Chain Agree With Samples? TAre there broken/leaking/loose caps on any samples? FIs COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all Client T Analysis F Sampler Name T
 pertinent Information? Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? FF**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? TIs there Headspace where applicable? FProper Media/Containers Used? T MS/MSD? TWere trip blanks received? T Is splitting samples required? FDo all samples have the proper pH? T On COC? T Acid pH 2 Base

Vials	#	Containers:	#		#		#
Unp-	3	1 Liter Amb.	48	1 Liter Plastic		16 oz Amb.	
HCL-	30	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	7	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			

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:

* Not checked off

** Sample 6 missing 3vua. 3vua came in in without labels. matched by missing container.