Electronic Transmittal Form for DEEP Remediation and LUST Secure File Transfer (SFT)

DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
REMEDIATION DIVISION
LEAKING UNDERGROUND STORAGE TANK COORDINATION PROGRAM
www.ct.gov/deep

This Electronic Transmittal Form is to be used when submitting a document to the Connecticut SFT website. This form must be completed and included as the cover sheet of your electronic document.

Requirements for Transmittals through the SFT website:

- Only document types identified in Part III below may be submitted through the SFT website.
- Documents submitted through the SFT website must include all applicable figures, tables and laboratory data.
- Files must be formatted as PDF/A and use the appropriate naming convention:
  - For Remediation Filings: **REM_RemID_DocumentType_DateofDocument**
    Example: REM_1234_MonitoringReport_01-01-2001
  - For LUST Filings: **LUST_SiteAddress_Town_AbbreviationForDocumentType_DateofDocument**
    Example: LUST_1MainStreet_Hartford_ESA_01-01-2001
    Note: For AbbreviationForDocumentType" use appropriate abbreviation on page 2 of this form

Part I: Program Type (Select either Remediation or LUST as your Primary Program Type)

☒ Remediation	☐ LUST
Primary Program: Select Primary Program	UST Facility ID: (if applicable)
*Rem ID: CTD981205263 (required)	Spill Case Number: (if known)

Part II: Site Information

Site Name: Simsbury Area Work Center
Site Address: 34 Hopmeadow Street
City/Town: Simsbury State: CT Zip Code: 06089

Secondary Programs (complete as many as applicable for this document):

Program: Select Secondary Program	Project ID:
Program: Select Secondary Program	Project ID:
Program: Select Secondary Program	Project ID:
Program: Select Secondary Program	Project ID:

Provide Project ID for each secondary program if it is known.
Each program has a unique ID (i.e. Rem ID, Spill Case #, UST Facility ID, PCB File #, etc.)

Part III: Document Information

Remediation - Monitoring Report
Date of Document: 2/2/2018

Part IV: Submitter Information

Name: Drew Blicharz **E-mail: drew.blicharz@eversource.com

**By providing this e-mail address you are agreeing to receive official correspondence from the department, at this electronic address, concerning the subject document. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes.

Name of company/business this document is being submitted on behalf of: Eversource Energy dba CL&P

EVERSOURCE ENERGY

Environmental Affairs Department
107 Selden Street
Berlin, CT 06037

February 2, 2018

Mr. Maurice Hamel
Bureau of Waste Management
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Reference: 1) Letter, P. Boison to M. Hamel, dated April 28, 2017.
2) Letter (C11330), M. Harder to R. Zaklukiewicz, dated February 26, 2002.

Dear Mr. Hamel:

Simsbury Area Work Center
34 Hopmeadow Street, Simsbury
Groundwater Report – 4th Quarter 2017

Eversource Energy herein submits quarterly groundwater data for the Simsbury Area Work Center.

As documented in our Fifteenth Annual Summary Report (Reference 1), a modification to the groundwater sampling program was proposed by the Licensed Environmental Professional retained to provide verification for the investigation and remediation of this site pursuant to CGS Section 22a-133v (Reference 2). Based on this recommendation, a sample was collected from MW-CCA-1 (quarterly sampling) and analyzed for VOCs, ETPH, and total 8 RCRA metals.

As indicated in the enclosed laboratory analytical data report, sample results for the analyzed constituents were below the Remediation Standard Regulation GA Groundwater Protection Criteria, Surface Water Protection Criteria, and Groundwater Volatilization Criteria.

If you have any questions regarding this submittal, please call me at (860) 665-5751 or email me at drew.blicharz@eversource.com.

Very truly yours,

Eversource Energy

Drew Blicharz

Drew Blicharz
Environmental Specialist

Enclosure

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 8, 2018

Jeff Willson
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: Simsbury AWC
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 17L1201

Enclosed are results of analyses for samples received by the laboratory on December 29, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Jeff Willson

REPORT DATE: 1/8/2018

PURCHASE ORDER NUMBER: 02274021 Rel #6

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17L1201

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

PROJECT LOCATION: Simsbury AWC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-CCA-1	17L1201-01	Ground Water		CTDEP ETPH	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
Trip Blank	17L1201-02	Trip Blank Water		SW-846 8260C	

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CASE NARRATIVE SUMMARY

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

For method 6020, only RCRA 8 metals were requested and reported.

SW-846 8260C

Qualifications:

L-03

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

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 1
17L1201-01[MW-CCA-1], 17L1201-02[Trip Blank], B194271-BLK1, B194271-BS1

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:

Acetone
B194271-BS1

V-34

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

Analyte & Samples(s) Qualified:

Bromomethane
17L1201-01[MW-CCA-1], 17L1201-02[Trip Blank], B194271-BLK1, B194271-BS1

Chloromethane
17L1201-01[MW-CCA-1], 17L1201-02[Trip Blank], B194271-BLK1, B194271-BS1

Dichlorodifluoromethane (Freon 1
17L1201-01[MW-CCA-1], 17L1201-02[Trip Blank], B194271-BLK1, B194271-BS1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

1,2,3-Trichloropropane
17L1201-01[MW-CCA-1], 17L1201-02[Trip Blank], B194271-BLK1, B194271-BS1

2,2-Dichloropropane
17L1201-01[MW-CCA-1], 17L1201-02[Trip Blank], B194271-BLK1, B194271-BS1

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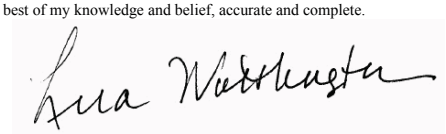
SW-846 6010C/D SW-846 6020A/B

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.

SW-846 8260C

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Simsbury AWC | Sample Description: | Work Order: 17L1201

Date Received: 12/29/2017

Field Sample #: MW-CCA-1 | Sampled: 12/28/2017 12:00

Sample ID: 17L1201-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Bromomethane	ND	1.0	µg/L	1	V-34	SW-846 8260C	1/2/18	1/2/18 16:56	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Chloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Chloromethane	ND	1.0	µg/L	1	V-34	SW-846 8260C	1/2/18	1/2/18 16:56	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1	L-03, V-34	SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1	V-35	SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF

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

Project Location: Simsbury AWC | Sample Description: | Work Order: 17L1201

Date Received: 12/29/2017

Field Sample #: MW-CCA-1 | Sampled: 12/28/2017 12:00

Sample ID: 17L1201-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1	V-35	SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 16:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.9	70-130		1/2/18 16:56
Toluene-d8	85.3	70-130		1/2/18 16:56
4-Bromofluorobenzene	80.0	70-130		1/2/18 16:56

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

Project Location: Simsbury AWC | Sample Description: | Work Order: 17L1201

Date Received: 12/29/2017

Field Sample #: MW-CCA-1 | Sampled: 12/28/2017 12:00

Sample ID: 17L1201-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	1/2/18	1/3/18 14:25	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	77.6	50-150						1/3/18 14:25

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Project Location: Simsbury AWC | Sample Description: | Work Order: 17L1201

Date Received: 12/29/2017

Field Sample #: MW-CCA-1 | Sampled: 12/28/2017 12:00

Sample ID: 17L1201-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	1/3/18	1/5/18 12:34	WSD
Barium	67	50	µg/L	5		SW-846 6020A-B	1/3/18	1/5/18 12:34	WSD
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	1/3/18	1/5/18 12:34	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	1/3/18	1/5/18 12:34	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	1/3/18	1/5/18 12:34	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/5/18	1/5/18 12:44	EJB
Selenium	ND	25	µg/L	5		SW-846 6020A-B	1/3/18	1/5/18 12:34	WSD
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	1/3/18	1/5/18 12:34	WSD

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

Project Location: Simsbury AWC | Sample Description: | Work Order: 17L1201

Date Received: 12/29/2017

Field Sample #: Trip Blank | Sampled: 12/28/2017 00:00

Sample ID: 17L1201-02

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Bromoform	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Bromomethane	ND	1.0	µg/L	1	V-34	SW-846 8260C	1/2/18	1/2/18 12:03	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Chloroethane	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Chloromethane	ND	1.0	µg/L	1	V-34	SW-846 8260C	1/2/18	1/2/18 12:03	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1	L-03, V-34	SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
2,2-Dichloropropane	ND	1.0	µg/L	1	V-35	SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF

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

Project Location: Simsbury AWC | Sample Description: | Work Order: 17L1201

Date Received: 12/29/2017

Field Sample #: Trip Blank | Sampled: 12/28/2017 00:00

Sample ID: 17L1201-02

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,2,3-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1	V-35	SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	1/2/18	1/2/18 12:03	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.5	70-130		1/2/18 12:03
Toluene-d8	89.0	70-130		1/2/18 12:03
4-Bromofluorobenzene	80.4	70-130		1/2/18 12:03

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Sample Extraction Data

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17L1201-01 [MW-CCA-1]	B194297	1000	1.00	01/02/18

Prep Method: SW-846 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17L1201-01 [MW-CCA-1]	B194341	50.0	50.0	01/03/18

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17L1201-01 [MW-CCA-1]	B194389	6.00	6.00	01/05/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17L1201-01 [MW-CCA-1]	B194271	5	5.00	01/02/18
17L1201-02 [Trip Blank]	B194271	5	5.00	01/02/18

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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 B194271 - SW-846 5030B										
Blank (B194271-BLK1)				Prepared & Analyzed: 01/02/18						
Acetone	ND	10	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	1.0	µg/L							V-34
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.60	µg/L							V-34
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							L-03, V-34
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							V-35
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	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	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	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 B194271 - SW-846 5030B											
Blank (B194271-BLK1)				Prepared & Analyzed: 01/02/18							
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	0.50	µg/L								
1,2,4-Trichlorobenzene	ND	0.50	µg/L								
1,1,1-Trichloroethane	ND	0.50	µg/L								
1,1,2-Trichloroethane	ND	0.50	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	0.50	µg/L								V-35
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L								
1,2,4-Trimethylbenzene	ND	0.50	µg/L								
1,3,5-Trimethylbenzene	ND	0.50	µg/L								
Vinyl Chloride	ND	1.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*26.0*		µg/L	25.0		104		70-130			
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101		70-130			
Surrogate: 4-Bromofluorobenzene	*23.8*		µg/L	25.0		95.4		70-130			
LCS (B194271-BS1)				Prepared & Analyzed: 01/02/18							
Acetone	122	10	µg/L	100		122		70-130			V-20
Acrylonitrile	10.8	2.0	µg/L	10.0		108		70-130			
Benzene	10.6	0.50	µg/L	10.0		106		70-130			
Bromobenzene	10.3	0.50	µg/L	10.0		103		70-130			
Bromodichloromethane	10.4	0.50	µg/L	10.0		104		70-130			
Bromoform	9.41	0.50	µg/L	10.0		94.1		70-130			
Bromomethane	7.04	1.0	µg/L	10.0		70.4		70-130			V-34
2-Butanone (MEK)	101	5.0	µg/L	100		101		70-130			
n-Butylbenzene	10.6	1.0	µg/L	10.0		106		70-130			
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106		70-130			
tert-Butylbenzene	10.1	1.0	µg/L	10.0		101		70-130			
Carbon Disulfide	10.4	5.0	µg/L	10.0		104		70-130			
Carbon Tetrachloride	10.4	0.50	µg/L	10.0		104		70-130			
Chlorobenzene	10.4	0.50	µg/L	10.0		104		70-130			
Chlorodibromomethane	10.1	0.50	µg/L	10.0		101		70-130			
Chloroethane	10.8	0.50	µg/L	10.0		108		70-130			
Chloroform	11.5	0.50	µg/L	10.0		115		70-130			
Chloromethane	8.68	0.60	µg/L	10.0		86.8		70-130			V-34
2-Chlorotoluene	10.7	0.50	µg/L	10.0		107		70-130			
4-Chlorotoluene	10.1	0.50	µg/L	10.0		101		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.6	0.50	µg/L	10.0		106		70-130			
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103		70-130			
Dibromomethane	11.4	0.50	µg/L	10.0		114		70-130			
1,2-Dichlorobenzene	10.6	0.50	µg/L	10.0		106		70-130			
1,3-Dichlorobenzene	10.9	0.50	µg/L	10.0		109		70-130			
1,4-Dichlorobenzene	10.6	0.50	µg/L	10.0		106		70-130			
trans-1,4-Dichloro-2-butene	9.36	2.0	µg/L	10.0		93.6		70-130			
Dichlorodifluoromethane (Freon 12)	6.09	0.50	µg/L	10.0		**60.9**	*	70-130			L-03, V-34
1,1-Dichloroethane	11.2	0.50	µg/L	10.0		112		70-130			
1,2-Dichloroethane	11.4	0.50	µg/L	10.0		114		70-130			
1,1-Dichloroethylene	13.0	0.50	µg/L	10.0		130		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 B194271 - SW-846 5030B										
LCS (B194271-BS1)				Prepared & Analyzed: 01/02/18						
cis-1,2-Dichloroethylene	11.0	0.50	µg/L	10.0		110	70-130			
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112	70-130			
1,2-Dichloropropane	11.5	0.50	µg/L	10.0		115	70-130			
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106	70-130			
2,2-Dichloropropane	9.56	0.50	µg/L	10.0		95.6	70-130			V-35
1,1-Dichloropropene	10.6	0.50	µg/L	10.0		106	70-130			
cis-1,3-Dichloropropene	9.25	0.50	µg/L	10.0		92.5	70-130			
trans-1,3-Dichloropropene	8.37	0.50	µg/L	10.0		83.7	70-130			
Ethylbenzene	10.4	0.50	µg/L	10.0		104	70-130			
Hexachlorobutadiene	11.7	0.60	µg/L	10.0		117	70-130			
2-Hexanone (MBK)	105	5.0	µg/L	100		105	70-130			
Isopropylbenzene (Cumene)	10.9	0.50	µg/L	10.0		109	70-130			
p-Isopropyltoluene (p-Cymene)	10.6	0.50	µg/L	10.0		106	70-130			
Methyl tert-Butyl Ether (MTBE)	8.31	0.50	µg/L	10.0		83.1	70-130			
Methylene Chloride	11.6	5.0	µg/L	10.0		116	70-130			
4-Methyl-2-pentanone (MIBK)	103	5.0	µg/L	100		103	70-130			
Naphthalene	10.2	2.0	µg/L	10.0		102	70-130			
n-Propylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1,2-Tetrachloroethane	9.13	0.50	µg/L	10.0		91.3	70-130			
1,1,2,2-Tetrachloroethane	11.7	0.50	µg/L	10.0		117	70-130			
Tetrachloroethylene	11.3	1.0	µg/L	10.0		113	70-130			
Tetrahydrofuran	11.1	10	µg/L	10.0		111	70-130			
Toluene	11.0	1.0	µg/L	10.0		110	70-130			
1,2,3-Trichlorobenzene	11.0	0.50	µg/L	10.0		110	70-130			
1,2,4-Trichlorobenzene	11.2	0.50	µg/L	10.0		112	70-130			
1,1,1-Trichloroethane	9.46	0.50	µg/L	10.0		94.6	70-130			
1,1,2-Trichloroethane	10.6	0.50	µg/L	10.0		106	70-130			
Trichloroethylene	11.0	1.0	µg/L	10.0		110	70-130			
Trichlorofluoromethane (Freon 11)	10.6	2.0	µg/L	10.0		106	70-130			
1,2,3-Trichloropropane	13.0	0.50	µg/L	10.0		130	70-130			V-35
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6	0.50	µg/L	10.0		116	70-130			
1,2,4-Trimethylbenzene	9.57	0.50	µg/L	10.0		95.7	70-130			
1,3,5-Trimethylbenzene	10.3	0.50	µg/L	10.0		103	70-130			
Vinyl Chloride	9.66	1.0	µg/L	10.0		96.6	70-130			
m+p Xylene	20.9	2.0	µg/L	20.0		104	70-130			
o-Xylene	9.72	1.0	µg/L	10.0		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	*26.8*		µg/L	25.0		107	70-130			
Surrogate: Toluene-d8	*26.0*		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	*24.1*		µg/L	25.0		96.4	70-130			

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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 B194297 - SW-846 3510C										
Blank (B194297-BLK1)				Prepared: 01/02/18 Analyzed: 01/03/18						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0878*		mg/L	0.100		87.8	50-150			
LCS (B194297-BS1)				Prepared: 01/02/18 Analyzed: 01/03/18						
CT ETPH	0.815	0.075	mg/L	1.00		81.5	60-120			
Surrogate: o-Terphenyl	*0.0898*		mg/L	0.100		89.8	50-150			
LCS Dup (B194297-BSD1)				Prepared: 01/02/18 Analyzed: 01/03/18						
CT ETPH	0.819	0.075	mg/L	1.00		81.9	60-120	0.448	30	
Surrogate: o-Terphenyl	*0.0896*		mg/L	0.100		89.6	50-150			

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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 B194341 - SW-846 3005A										
Blank (B194341-BLK1)				Prepared: 01/03/18 Analyzed: 01/05/18						
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Lead	ND	5.0	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
LCS (B194341-BS1)				Prepared: 01/03/18 Analyzed: 01/05/18						
Arsenic	535	4.0	µg/L	500		107	80-120			
Barium	513	100	µg/L	500		103	80-120			
Cadmium	517	5.0	µg/L	500		103	80-120			
Chromium	513	10	µg/L	500		103	80-120			
Lead	534	10	µg/L	500		107	80-120			
Selenium	524	50	µg/L	500		105	80-120			
Silver	521	5.0	µg/L	500		104	80-120			
LCS Dup (B194341-BSD1)				Prepared: 01/03/18 Analyzed: 01/05/18						
Arsenic	541	4.0	µg/L	500		108	80-120	0.946	20	
Barium	512	100	µg/L	500		102	80-120	0.138	20	
Cadmium	522	5.0	µg/L	500		104	80-120	1.05	20	
Chromium	523	10	µg/L	500		105	80-120	1.96	20	
Lead	535	10	µg/L	500		107	80-120	0.163	20	
Selenium	539	50	µg/L	500		108	80-120	2.86	20	
Silver	522	5.0	µg/L	500		104	80-120	0.148	20	
Duplicate (B194341-DUP1)	**Source: 17L1201-01**			Prepared: 01/03/18 Analyzed: 01/08/18						
Arsenic	ND	2.0	µg/L		ND			NC	20	
Barium	66.8	50	µg/L		66.6			0.339	20	
Cadmium	ND	2.5	µg/L		ND			NC	20	
Chromium	ND	5.0	µg/L		ND			NC	20	
Lead	ND	5.0	µg/L		ND			NC	20	
Selenium	ND	25	µg/L		ND			NC	20	
Silver	ND	2.5	µg/L		ND			NC	20	
Matrix Spike (B194341-MS1)	**Source: 17L1201-01**			Prepared: 01/03/18 Analyzed: 01/05/18						
Arsenic	548	4.0	µg/L	500	ND	110	75-125			
Barium	576	100	µg/L	500	66.6	102	75-125			
Cadmium	514	5.0	µg/L	500	ND	103	75-125			
Chromium	521	10	µg/L	500	ND	104	75-125			
Lead	539	10	µg/L	500	ND	108	75-125			
Selenium	536	50	µg/L	500	ND	107	75-125			
Silver	513	5.0	µg/L	500	ND	103	75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B194389 - SW-846 7470A Prep										
Blank (B194389-BLK1)				Prepared & Analyzed: 01/05/18						
Mercury	ND	0.00010	mg/L							
LCS (B194389-BS1)				Prepared & Analyzed: 01/05/18						
Mercury	0.00197	0.00010	mg/L	0.00200		98.7	80-120			
LCS Dup (B194389-BSD1)				Prepared & Analyzed: 01/05/18						
Mercury	0.00191	0.00010	mg/L	0.00200		95.3	80-120	3.51	20	
Duplicate (B194389-DUP1)		**Source: 17L1201-01**		Prepared & Analyzed: 01/05/18						
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B194389-MS1)		**Source: 17L1201-01**		Prepared & Analyzed: 01/05/18						
Mercury	0.00189	0.00010	mg/L	0.00200	ND	94.5	75-125			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
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. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6020A-B in Water	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NY
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	NH,NY,ME
o-Xylene	NH,NY,ME

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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	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
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

17L1201

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http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Weston & Sampson - (for Eversource Energy)
Address:	273 Dividend Road, Rocky Hill, CT 06067
Phone:	(860) 513-1473
Project Name:	Simsbury AWC
Project Location:	Simsbury, CT
Project Number:	Client PO = 02274021; Rel. #6
Project Manager:	Jeff Willson
Con-Test Bid:	n/a
Invoice Recipient:	Eversource Energy
Sampled By:	Will Sirotnak

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Other: ☑ 5-7 Bus. Days

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: yellenl@wseinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	VOCs (8260)	CT-ETPH	Total 8 RCRA metals
1	MW-CCA-1	12/28/17	1200		X	GW	U	X	X	X
2	TRIP BLANK	12/28/17						X		

ANALYSIS REQUESTED

3	2	1
H	I	N
V	A	P

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
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)

Comments: (1) Please bill Eversource Energy directly.

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: 12/29/17
Received by: (signature)	Date/Time: 12/29/17 12:00
Relinquished by: (signature)	Date/Time: 12/29/17 15:00
Received by: (signature)	Date/Time: 12-29-17 15:00
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT — CTDEEP RSRs (includes RES DEC & GA PMC)
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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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 Weston & Sampson

Received By ESD Date 12-29-17 Time 1500

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 # 527 Actual Temp - 3.9
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? NA
Proper Media/Containers Used? T Is splitting samples required? NA
Were trip blanks received? T On COC? T
Do all samples have the proper pH? T Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-	5	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	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:

Samples recived frozen.
P472

D:\HPCHEM\1\DATA\A010318.SEC\A0103019.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	1/3/18
Data File Name	A0103019.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.27	597602	617013	-3
c - 10	1.61	610866	617013	-1
c - 12	2.33	622161	617013	1
c - 14	3.00	631863	617013	2
c - 16	3.60	646905	617013	5
c - 18	4.20	647236	617013	5
o-Terphenyl	4.49	711607	617013	
c - 20	4.81	649584	617013	5
c - 22	5.31	647971	617013	5
c - 24	5.75	639981	617013	4
c - 26	6.14	632283	617013	2
c - 28	6.50	628906	617013	2
c - 30	6.83	626684	617013	2
c - 32	7.14	589443	617013	-4
c - 34	7.43	552784	617013	-10
c - 36	7.74	530924	617013	-14

* One compound allowed %D </= 50%

Samples

17L1201-01
18A0011-01
18A0011-02
18A0011-03
18A0011-04
18A0028-08
18A0028-09
18A0028-10

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: Simsbury AWC

Project Number: 17L1201

Laboratory Sample ID(s):
17L1201-01 thru 17L1201-02

Sample Date(s):
12/28/2017

List RCP Methods Used:
CTDEP ETPH, SW-846 6020A-B, SW-846 7470A, SW-846 8260C

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☐ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** Project Manager

Printed Name: Lisa A. Worthington **Date:** 01/08/18

Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.