VIA CERTIFIED MAIL

February 25, 2020

Mr. David Ringquist
Remediation Division
Bureau of Water Protection and Land Reuse
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

RE: Status Report
Former CL&P Operations Center
176 Cumberland Avenue
Wethersfield, Connecticut
REM ID: 11169

Dear Mr. Ringquist:

Apex Companies, LLC, on behalf of Eversource Energy (Eversource), has prepared the attached Status Report for environmental activities that have been conducted at the former Connecticut Light and Power Company (CL&P) facility located at 176 Cumberland Avenue in Wethersfield, Connecticut. The report summarizes the activities conducted in 2019.

Should you have any questions regarding the information presented, please contact either of the undersigned at (860) 282-1700.

Sincerely,

Apex Companies, LLC

Donna L. Kask
Senior Project Manager

Apex Companies, LLC

David B. Sherman, LEP
Program Manager

ecc: Ms. Amy Voisine-Shea, Eversource
Mr. David Lansey, ABC Properties/Fisher Associates

2019 ANNUAL STATUS REPORT

Former CL&P Operations Center
176 Cumberland Avenue
Wethersfield, Connecticut
REM ID: 11169

February 2020

Apex Project No.: 6089-015

Prepared for:

Eversource Energy
P.O. Box 270
Hartford, CT 06141-0270

Prepared by:

Apex Companies, LLC
58H Connecticut Avenue
South Windsor, CT 06074-3452

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1.0 INTRODUCTION

Apex Companies, LLC (Apex), on behalf of Eversource Energy Service Company (Eversource), has prepared the following Status Report for environmental activities conducted at the former Connecticut Light and Power Company (CL&P) facility located at 176 Cumberland Avenue in Wethersfield, Connecticut (the Site). This report summarizes monitoring activities conducted in 2019.

2.0 SITE BACKGROUND

On October 4, 2012, the Connecticut Department of Energy and Environmental Protection (CTDEEP) issued a letter to Wethersfield, LLC acknowledging receipt of a Form III and an Environmental Condition Assessment Form (ECAF) in support of a transfer of the property from Wethersfield, LLC to the Capitol Region Education Council (CREC). Wethersfield, LLC was the Certifying Party for the transfer, and Eversource is currently monitoring the completion of certain remediation activities at the Site. Note that while Eversource is performing certain environmental activities at the Site, Eversource is not the Certifying Party per the Connecticut Transfer Act. Responsibility for oversight of assessment and remediation at this Site has been delegated to a Connecticut Licensed Environmental Professional (LEP) under CGS Section 22a-134x. A Schedule for Investigation and Remediation letter was submitted to CTDEEP on December 17, 2012.

The Site was initially developed in the mid-1950s by CL&P (a subsidiary of Northeast Utilities (NU, now known as Eversource Energy)) primarily for use as a call/data center. Additional uses included vehicle maintenance and equipment warehousing. Records indicate that CL&P and other NU companies (collectively NU) occupied the Site from the mid-1950s until 2006. These records also indicate that the Site was owned by a series of real estate companies for which NU was a tenant. Town of Wethersfield records document that Wethersfield, LLC purchased the property in 1998, and CREC is the current property owner.

The Site has been redeveloped by CREC for use as a school (CREC Discovery Academy). The redevelopment plan involved the preservation of certain portions of the Site structure and demolition of other portions of the site building. Construction was completed at the Site in the fall of 2015, and the school has been open since then.

The subject property is located in a mixed commercial and residential area of Wethersfield. The Site is bordered to the east and south primarily by residential properties. It is bordered to the northeast by office buildings, to the northwest by the Wilbur Cross Highway, and is primarily undeveloped and wooded to the west. The geographic location of the Site and its immediate surroundings are included on **Figure 1**.

According to the CTDEEP Water Quality Classification Map of Connecticut, groundwater beneath the Site is classified as GA, which is defined as groundwater that is suitable for drinking without treatment. A Site Plan depicting pertinent site features is included as **Figure 2**.

A Remedial Action Plan (RAP) was prepared by Apex and submitted to CTDEEP in April 2013. The RAP described site conditions, remedial goals, and remedial activities to be performed to address soil and groundwater impacts. As detailed in the RAP, Apex performed a review of remediation alternatives and determined that two remedial technologies were the most applicable and cost effective for remediating soil and groundwater at this Site: 1) excavation and off-site disposal of impacted soil, and 2) monitored natural attenuation of impacted groundwater.

3.0 SOIL REMEDIATION

Soil excavation activities as outlined in the RAP were conducted by True Blue Environmental, Inc. of Wallingford, Connecticut on July 17, 2013 and were overseen by an Apex environmental scientist. Excavation activities were conducted in the vicinity of monitoring well AP-11, which was located in a former loading dock area on the western side of the original site building. Based on prior sampling results, extractable total petroleum hydrocarbons (ETPH) were identified as the contaminant of concern. The completed excavation measured 10 feet by 10 feet, centered on monitoring well AP-11, and extended to 12 feet below grade (fbg). A total of 69.75 tons of impacted soil was disposed of offsite at the Ted Ondrick Company, LLC facility in Chicopee, Massachusetts.

Confirmatory soil samples were collected by Apex personnel from 8 to 10 fbg on all four sidewalls and from the bottom of the excavation. The samples were submitted to Con-Test Analytical Laboratory (Con-Test) in East Longmeadow, Massachusetts and analyzed for ETPH. The results of the laboratory analytical data indicate that there were no detections of ETPH above the laboratory reporting limits (RLs) in any of the post-excavation samples. Following receipt of the sampling results, the excavation was backfilled to grade with clean fill.

Based on the laboratory results, excavation of the impacted area was successful, and soil remediation is complete. A letter report dated August 27, 2013 was submitted to CTDEEP to document the soil remediation activities.

4.0 GROUNDWATER MONITORING WELL REPLACEMENT

During redevelopment and related construction activities of the school, many groundwater monitoring wells were destroyed and required replacement. In September 2014, replacement wells AP-6R and AP-11R were installed. Subsequently, during June 2015, nine additional replacement groundwater monitoring wells (AP-1R, AP-2R, AP-3R, AP-4R, AP-9R, AP-12R, AP-13R, AP-15R, and AP-101R) were installed as described in the 2015 Annual Status Report.

Since installation of the replacement wells in 2015, two of these wells (AP-13R and AP-15R) have been reported as dry/and or did not contain enough groundwater for sampling during the annual groundwater sampling events. Two new shallow bedrock wells (AP-13R-BR and AP-15R-BR) were installed at these locations on August 17, 2018. Monitoring well AP-13R-BR was installed in a small landscaped area adjacent to well AP-13R. Monitoring well AP-15R was over-drilled to

install well AP-15R-BR. Details of the August 2018 well installation were described in the 2018 Annual Status Report. The replacement well locations are depicted on **Figure 2**.

5.0 GROUNDWATER MONITORING ACTIVITIES

An annual groundwater monitoring event was conducted on July 30-31, 2019. Groundwater samples were collected from 11 monitoring wells: AP-1R, AP-2R, AP-3R, AP-4R, AP-6R, AP-9R, AP-11R, AP-12R, AP-13R-BR, AP-15R-BR and AP-101R.

Prior to sampling, each monitoring well was gauged with an electronic interface probe (IP) capable of detecting non-aqueous phase liquid (NAPL) and depth to water to an accuracy of 0.01 feet. The purpose of the gauging is to collect data regarding depth to water and the thickness of the saturated zone in each well prior to sampling and to determine the potential presence of any light or dense NAPL (LNAPL or DNAPL). Measurable NAPL was not detected in on-site monitoring wells during the groundwater monitoring event. Depth to groundwater ranged from 3.10 feet (AP-3R) to 15.15 feet (AP-11R). Well AP-13R was dry and, therefore, was not sampled.

For the annual groundwater monitoring event, Apex personnel performed low-flow sampling in general accordance with the United States Environmental Protection Agency (USEPA) *Low Stress Purging and Sampling of Groundwater Samples from Monitoring Wells* Revised September 19, 2017). As required by the purging and sampling protocol, groundwater was monitored during well purging using a water quality meter with a flow through cell for the following parameters: temperature, specific conductivity, pH, oxidation-reduction potential (ORP), dissolved oxygen (DO), and turbidity. Once each of these parameters stabilized, or if parameter readings did not stabilize after a minimum of 60 minutes of purging, a groundwater sample was collected. However, well AP-12R did not have sufficient water column and, therefore, field parameter readings were unable to be collected and a sample was collected from well AP-11R before a minimum of 60 minutes of purging was achieved because of insufficient groundwater recharge. Parameter stabilization occurred at well AP113R-BR; however, insufficient groundwater recharge occurred during sampling. Therefore, sample collection was completed once the well was allowed recharge. In addition, the following parameters did not stabilize during the purging activities:

- ORP in wells AP-6R, AP-9R, and AP-15R-BR;
- DO in wells AP-1R, AP-4R, AP-9R, and AP-101R;
- Turbidity in wells AP-1R, AP-4R, AP-6R, AP-9R, and AP-15R-BR;
- Specific conductivity in wells AP-1R, AP-2R, AP-6R, and AP-15R-BR: and
- pH in AP-15R-BR.

The collected groundwater samples were immediately placed in laboratory-provided glassware and submitted to Con-Test for analysis in accordance with one or more of the following analytical methods:

- Volatile organic compounds (VOCs) (EPA Method 8260);
- Semi-volatile organic compounds (SVOCs) (EPA Method 8270);

- ETPH by the Connecticut Method (CT ETPH);
- Total Remediation Standard Regulations (RSRs) metals[1] (EPA Method 6020/7470); and
- Dissolved RSR metals (EPA Method 6020).

Well sampling records documenting well purging and monitoring activities are provided in **Appendix A**.

5.1 Groundwater Sampling Results

VOCs and SVOCs were not detected above laboratory reporting limits in any of the groundwater samples collected during the 2019 sampling event.

ETPH concentrations ranged from below laboratory reporting limits to 0.28 milligrams per liter (mg/L) in AP-12R. ETPH concentrations in wells AP-1R (0.26 mg/L) and AP-12R (0.28 mg/L) were above the GWPC, the recommended Surface Water Protection Criteria, and Residential and Industrial/Commercial Volatilization Criteria of 0.25 mg/L. All other detected ETPH concentrations were below applicable CTDEEP criteria.

Certain metals (arsenic, barium, chromium, copper, nickel, lead, and zinc) were detected in one or more samples during the 2019 sampling events. Zinc was detected at concentrations ranging from below laboratory reporting limits to 0.290 mg/L in AP-12R. Zinc concentrations in wells AP-12R (0.290 mg/L) and AP-15R-BR (0.160 mg/L) were above the recommended Surface Water Protection Criteria of 0.123 mg/L. All other detected metal concentrations were below applicable CTDEEP criteria.

A summary of recent and historical groundwater analytical results for the parameters presented above is included as **Table 1**. The 2019 laboratory analytical reports are included in **Appendix B.**

5.2 Data Quality and Usability

Laboratory analytical quality assurance/quality control (QA/QC) was conducted in general accordance with the *Laboratory Quality Assurance and Quality Control Guidance – Reasonable Confidence Protocols* (CTDEEP, 2007). The laboratory reports were reviewed for non-conformances related to site specific compounds of concern. Specific qualifications are presented in the case narrative summaries in the attached laboratory reports in **Appendix B**.

A data quality assessment was conducted for Con-Test laboratory reports 19H0182 and 19G1720, representing the groundwater samples collected during groundwater monitoring activities. Field-based QA/QC included trip blanks, matrix spike/matrix spike duplicate (MS/MSD), and a field duplicate.

[1] Metals listed in the Connecticut RSRs, as follows: antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium and zinc

No VOCs were detected in the trip blanks. The sample from well AP-3R was used as the MS/MSD. A field duplicate sample (DUP) was collected from well AP-13R-BR. No VOCs or SVOCs were detected in the parent or duplicate samples.

The Relative Percent Difference (RPD) between the parent and duplicate samples was calculated to assess sample precision. The parent/duplicate RPDs were all within acceptable limits.

- ETPH was detected in the parent sample at 0.17 mg/L and in the duplicate sample at 0.19 mg/L; RPD 12%.
- Barium was detected in the parent sample at 0.160 mg/L and in the duplicate sample at 0.170 mg/L; RPD 6%.
- Chromium was detected in the parent sample at 0.0025 mg/L and in the duplicate sample at 0.0029 mg/L; RPD 16%.
- Copper was detected in the parent sample at 0.0073 mg/L and in the duplicate sample at 0.0062 mg/L; RPD 15%.
- Arsenic was not detected in the parent sample (Laboratory Reporting Limit 0.00080 mg/L); however, it was detected in the duplicate sample at 0.00086 mg/L; RPD 8%.

Non-conformances for the submitted samples and/or laboratory QA/QC samples were noted and are summarized below.

- All water reporting limits specified on the chain of custody were met except select analytes, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels.

All non-conformances are associated with analytes that were not detected in any of the groundwater samples and are not considered to be constituents of concern for the site.

Effective analytical accuracy and precision were demonstrated *via* acceptable recoveries of surrogates, LCS, and/or LCS duplicate samples.

Based upon the project-specific QC sample results, the project data set overall satisfies the project's data quality objectives. Accordingly, the data is deemed usable for its intended purpose of monitoring and evaluating Site groundwater quality. Detailed results of all internal laboratory QC samples and field-based QA/QC samples submitted for laboratory analysis are presented in the laboratory analytical reports provided as **Appendix B**.

6.0 CHANGE OF LICENSED ENVIRONMENTAL PROFESSIONAL (LEP) OVERSIGHT

Professional environmental consulting services on this project have been provided by Mr. Eric Henry of Apex Companies, LLC (Apex). Mr. David Sherman of Apex will continue to provide LEP oversight for assessment and remediation of the parcel. Mr. Sherman is a Connecticut Licensed Environmental Professional, and his contact information is:

Mr. David Sherman, LEP, LSP
Apex Companies, LLC
58H Connecticut Avenue
South Windsor, CT 06074
Phone (860) 282-1700 extension 6005
Fax: (860) 282-1800
Email: dsherman@apexcos.com

7.0 FUTURE ACTIVITIES

Future activities in 2020 include continued groundwater sampling at all monitoring well locations to be evaluated for VOCs, SVOCs, ETPH and metals. Analysis of EPH via the Massachusetts method will also be included in the monitoring plan. The data collected in 2020 will be evaluated to determine if compliance monitoring can be initiated.

A Status Report summarizing the activities conducted in 2020 will be submitted to CTDEEP by February 28, 2021.

8.0 REFERENCES

Remedial Action Plan, Apex, April 2013

Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells (United States Environmental Protection Agency, EPA, September 2017)

Remediation Standard Regulations, CTDEEP, June 2013

Technical Support Document: Recommended Criteria for Common Additional Pollution Substances and Certain Alternative Criteria, CTDEEP, December 2015

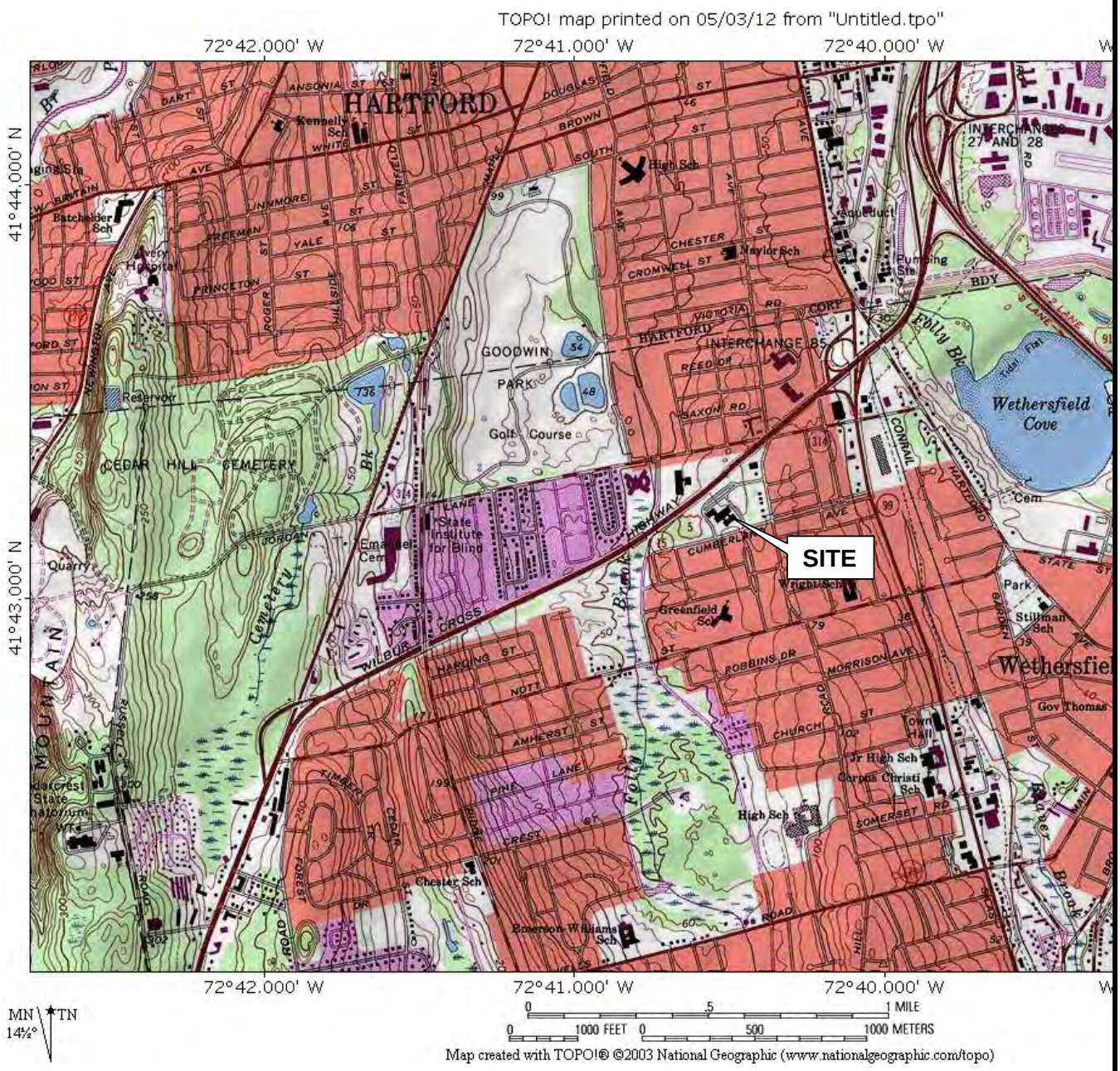
Laboratory Quality Assurance and Quality Control Guidance – Reasonable Confidence Protocols, CTDEEP, July 2007



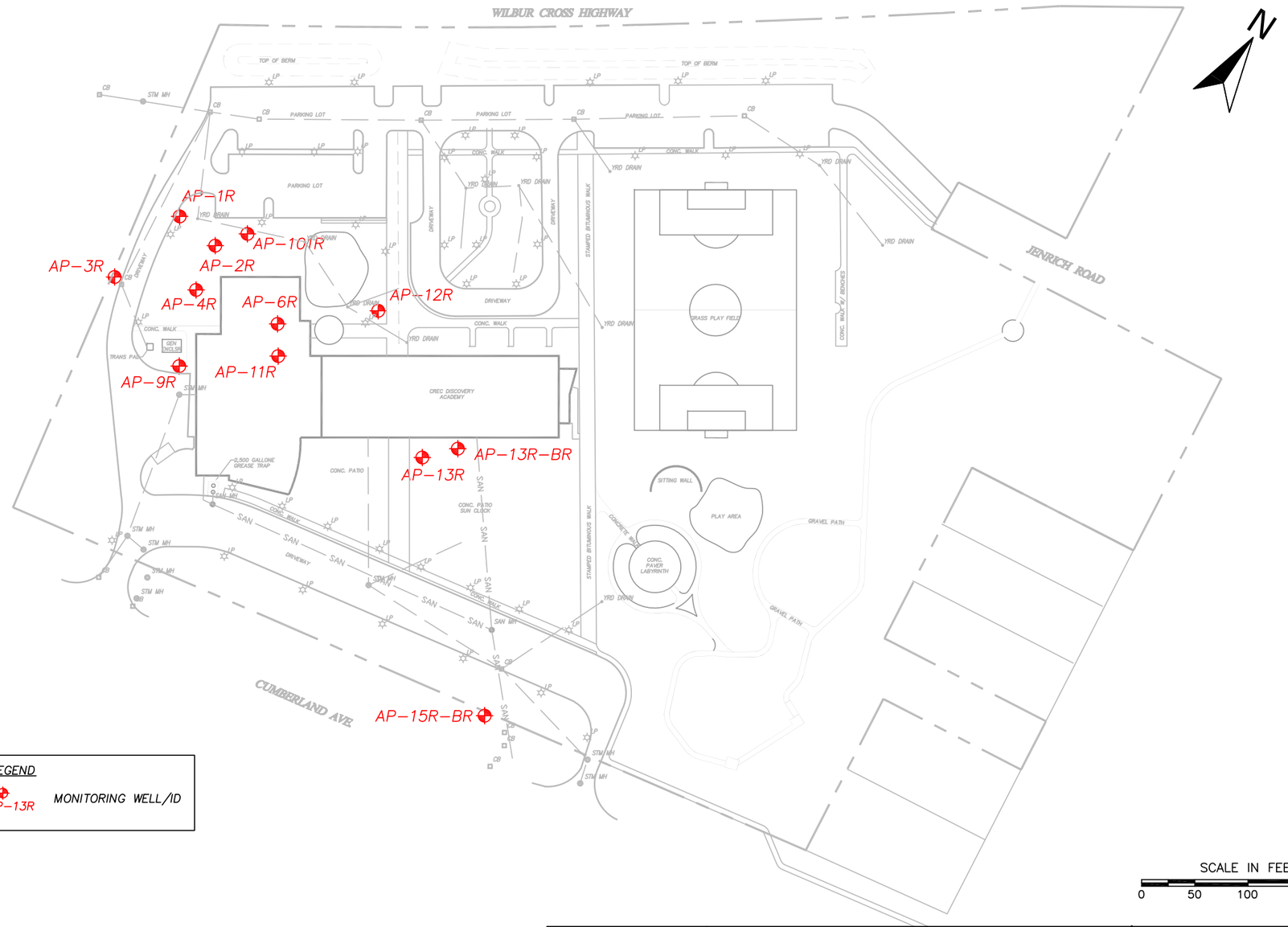
FIGURES

Figure 1
Site Location Map

176 Cumberland Avenue
Wethersfield, Connecticut



APEX 58H Connecticut Avenue South Windsor, Connecticut Telephone: (860) 282-1700	United States Department of the Interior Geological Survey 7.5 Minute Series Topographic Map Contour Interval: 20 feet Scale: 1 inch = 2,000 feet Wethersfield, Connecticut, 2003	Project: Site Assessment Apex Job #: 5783-012	



NOTES:

THE BASE MAP WAS PREPARED BY O'BRIEN ASSOCIATES, INC. FILE 3395 DATED SEP. 29, 2015.

CHECK BY	DK
DRAWN BY	MCK
DATE	2/20/2019
SCALE	1"=100'
CAD NO.	FIGURE 1
PRJ NO.	6089–015

SITE PLAN

FORMER CL&P OPERATIONS CENTER
176 CUMBERLAND AVE.
WETHERSFIELD, CONNECTICUT

APEX

FIGURE
2



TABLES

APEX

TABLE 1
Groundwater Analytical Results - Detected Analytes

Former CL&P Operations Center
Eversource Energy
176 Cumberland Avenue
Wethersfield, Connecticut

Well ID:	AP-1R									AP-2R									AP-3R									GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Date Sampled:	11/4/2009	3/25/2010	8/12/2015	11/11/2015	3/1/2016	5/24/2016	5/30/2017	10/11/2018	7/31/2019	11/4/2009	3/26/2010	8/12/2015	11/11/2015	3/1/2016	5/24/2016	5/30/2017	10/10/2018	7/30/2019	11/4/2009	3/25/2010	8/12/2015	11/11/2015	3/1/2016	5/24/2016	5/30/2017	10/10/2018	7/30/2019				
VOCs via EPA 8260 (µg/L)																														
Acetone	ND<5.0	ND<5.0	ND<10.0	ND<10.0	ND<20	ND<10	ND<10	ND<10	ND<10	ND<5.0	ND<5.0	ND<10.0	ND<10.0	ND<10	ND<10	ND<10	ND<10	ND<10	ND<5.0	ND<5.0	ND<10.0	ND<10.0	ND<10	ND<10	ND<10	ND<10	ND<10	700	10,000 *	50,000	50,000
Benzene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1	710	215	530
2-Butanone (MEK)	ND<2.0	ND<2.0	ND<10.0	ND<10.0	ND<10	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	ND<10.0	ND<10.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	ND<10.0	ND<10.0	ND<5.0	ND<10	8.3	ND<5.0	ND<5.0	400	10,000 *	50,000	50,000
n-Butylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	350 *	10,000 *	1,600 *	21,800 *
sec-Butylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	350 *	10,000 *	1,500 *	20,100 *
Carbon disulfide	2.6	ND<50	ND<2.0	ND<2.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.7	ND<50	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<0.50	ND<50	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	40 *	150 *	2,100 *	5,200 *
Carbon tetrachloride	ND<0.50	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5	132	16	40
Chloroform	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<2.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	6	14,100	287	710
1,2-Dichloroethane	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1	2,970	21	90
Di-isopropyl ether	NS	NS	ND<1.0	ND<1.0	ND<1.0	ND<0.50	NS	NS	NS	NS	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	NS	NS	NS	NS	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	NS	NS	NS	NE	NE	NE	NE
Ethylbenzene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	700	580,000	50,000	50,000
Isopropylbenzene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	25 *	210 *	900 *	2,200 *
p-Isopropyltoluene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	25 *	200 *	870 *	2,100 *
Methyl tert-butyl ether (MTBE)	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.80	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	100	10,000 *	50,000	50,000
Naphthalene	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<4.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	280	210 *	NE	NE
n-Propylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	50 *	10,000 *	1,200 *	2,900 *
Tetrahydrofuran	***ND<10***	***ND<10***	ND<2.0	ND<2.0	ND<20	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	ND<2.0	ND<2.0	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	ND<2.0	ND<2.0	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	4 *	9,600 *	250 *	3,700
Toluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.2	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1000	4,000,000	23,500	50,000
1,2,4-Trimethylbenzene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140 *	150 *	940 *	12,800 *
1,3,5-Trimethylbenzene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140 *	260 *	730 *	10,000 *
Total Xylenes	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<4.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	530	270 *	21,300	50,000
SVOCs via EPA 8270 (µg/L)																												GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Acenaphthene	ND<5.0	ND<5.0	ND<0.300	ND<0.050	ND<0.30	ND<0.30	ND<0.29	ND<0.30	ND<0.30	ND<5.0	ND<5.0	ND<0.300	ND<0.050	ND<0.30	ND<0.30	ND<0.29	ND<0.32	ND<0.31	ND<5.0	ND<5.0	ND<0.300	ND<0.050	ND<0.30	ND<0.30	ND<0.28	ND<0.31	ND<0.31	420 *	150 *	30,500 *	50,000 *
Anthracene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.19	ND<0.21	ND<0.20	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.18	ND<0.20	ND<0.20	2,000	1,100,000	NE	NE
Aniline	ND<5.0	ND<5.0	ND<5.10	ND<5.43	ND<5.0	ND<5.0	ND<4.9	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.10	ND<5.10	ND<5.0	ND<5.0	ND<4.8	ND<5.3	ND<5.1	ND<5.0	ND<5.0	ND<5.05	ND<5.26	ND<5.0	ND<5.0	ND<4.6	ND<5.1	ND<5.1	6.1 *	41 *	NE	NE
Benzo(a)anthracene	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.049	ND<0.050	ND<0.050	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	0.050	ND<0.050	ND<0.048	ND<0.053	ND<0.051	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.046	ND<0.051	ND<0.051	0.06	0.3	NE	NE
Benzo(a)pyrene	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.098	ND<0.10	ND<0.10	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.095	ND<0.11	ND<0.10	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.092	ND<0.10	ND<0.10	0.2	0.3	NE	NE
Benzo(b)fluoranthene	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.049	ND<0.050	ND<0.050	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	0.061	ND<0.050	ND<0.048	ND<0.053	ND<0.051	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.046	ND<0.051	ND<0.051	0.08	0.3	NE	NE
Bis(2-Ethylhexyl)phthalate	***ND<10***	***ND<10***	***ND<5.10***	***ND<5.43***	ND<2.0	**2.0**	***ND<9.8***	ND<2.0	ND<10	***ND<10***	***ND<10***	***ND<5.10***	***ND<5.10***	ND<2.0	**3.4**	***ND<9.5***	***ND<11***	***ND<10***	***ND<10***	***ND<10***	***ND<5.05***	***ND<5.26***	ND<2.0	**2.1**	***ND<9.2***	***ND<10***	***ND<10***	2	59	NE	NE
Chrysene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.19	ND<0.21	ND<0.20	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.18	ND<0.20	ND<0.20	4.8 *	0.54 *	NE	NE
Fluoranthene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.50	ND<0.50	ND<0.49	ND<0.50	ND<0.50	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.50	ND<0.50	ND<0.48	ND<0.53	ND<0.51	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.50	ND<0.50	ND<0.46	ND<0.51	ND<0.51	280	3,700	NE	NE
Fluorene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.98	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.95	ND<1.1	ND<1.0	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.92	ND<1.0	ND<1.0	280	140,000	NE	NE
1-Methylnaphthalene	NS	NS	ND<0.065	ND<0.050	ND<5.0	ND<5.0	NS	NS	NS	NS	NS	ND<0.065	ND<0.050	ND<5.0	ND<5.0	NS	NS	NS	NS	NS	ND<0.065	ND<0.050	ND<5.0	ND<5.0	NS	NS	NS	5 *	61 *	20 *	320 *
2-Methylnaphthalene	ND<5.0	ND<5.0	ND<0.075	ND<0.050	ND<1.0	ND<1.0	ND<0.98	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<0.075	ND<0.050	ND<1.0	ND<1.0	ND<0.95	ND<1.1	ND<1.0	ND<5.0	ND<5.0	ND<0.075	ND<0.050	ND<1.0	ND<1.0	ND<0.92	ND<1.0	ND<1.0	28 *	62 *	1,000 *	13,100 *
Naphthalene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.98	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.95	ND<1.1	ND<1.0	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.92	ND<1.0	ND<1.0	280	210 *	NE	NE
Phenanthrene	***ND<5.0***	***ND<5.0***	0.058	ND<0.050	ND<0.050	ND<0.050	ND<0.049	ND<0.050	ND<0.050	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	**0.34**	ND<0.050	ND<0.048	ND<0.053	ND<0.051	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.046	ND<0.051	ND<0.051	200	0.3	NE	NE
Pyrene	ND<5.0	ND<5.0	0.051	ND<0.050	ND<1.0	ND<1.0	ND<0.98	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.95	ND<1.1	ND<1.0	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.92	ND<1.0	ND<1.0	200	110,000	NE	NE
ETPH via CTETPH (mg/L)																												GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
CT ETPH	0.23	ND<0.075	ND<0.2	ND<0.2	0.19	ND<0.075	0.11	**0.38**	**0.26**	0.20	ND<0.075	ND<0.2	ND<0.2	0.11	ND<0.075	ND<0.075	0.17	0.21	ND<0.075	ND<0.075	ND<0.2	ND<0.075	ND<0.075	ND<0.075	0.083	0.23	0.16	0.25	0.25 *	0.25	0.25
Total Metals (mg/L)																												GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Antimony	ND<0.005	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.005	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.005	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	0.006	86	NE	NE
Arsenic	ND<0.002	ND<0.002	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.00080	ND<0.002	ND<0.002	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	ND<0.0020	0.0023	ND<0.00080	ND<0.002	ND<0.002	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	**0.011**	ND<0.0020	ND<0.00080	0.05	0.004	NE	NE
Barium	ND<0.25	0.140	0.0975	0.221	0.200	0.170	ND<0.050	0.053	0.064	ND<0.25	ND<0.12	0.131	0.0996	0.058	0.093	0.120	0.099	0.081	ND<0.25	ND<0.12	0.0864 A	0.0599	0.074	0.140	0.092	0.250	0.380	1	2.2 *	NE	NE
Beryllium	ND<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.00040	ND<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.00040	ND<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.00040	0.004	0.004	NE	NE
Cadmium	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	0.005	0.006	NE	NE
Chromium (total)	ND<0.05	ND<0.05	0.0082	0.0296	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.05	ND<0.05	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.05	ND<0.05	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.05	0.11**	NE	NE
Copper	ND<0.025	ND<0.025	0.0051	0.0239	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.0087	0.044	ND<0.025	0.0058	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.0068	**0.081**	ND<0.025	ND<0.0100	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.0080	1.3	0.048	NE	NE
Lead	ND<0.005	ND<0.005	ND<0.0075	0.0154	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	0.00087	ND<0.005	ND<0.005	ND<0.0075	ND<0.0075	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.00050	ND<0.005	ND<0.005	ND<0.0075	ND<0.0075	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.00050	0.015	0.013	NE	NE
Mercury	ND<0.00010	ND<0.00010	ND<0.00020	ND<0.00020	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00020	ND<0.00020	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00020	ND<0.00020	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	0.002	0.0004	NE	NE
Nickel	ND<0.025	ND<0.025	0.0059	0.0210	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.0086	0.1	0.88	NE	NE
Selenium	ND<0.025	ND<0.025	ND<0.0150	ND<0.0150	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0150	ND<0.0150	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0150	ND<0.0150	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	0.05	0.05	NE	NE
Silver	ND<0.0025	ND<0.0025	ND<0.0050	ND<0.0050	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	ND<0.0025	ND<0.0025	ND<0.0050	ND<0.0050	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	ND<0.0025	ND<0.0025	ND<0.0050	ND<0.0050	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	0.036	0.012	NE	NE
Thallium	ND<0.001	ND<0.001	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.00020	ND<0.001	ND<0.001	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.00020	ND<0.001	ND<0.001	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.00020	0.005	0.063	NE	NE
Vanadium	ND<0.025	ND<0.025	0.0080	0.0421	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	0.05	0.27 *	NE	NE
Zinc	ND<0.1	ND<0.1	0.0103	0.0720	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.010	ND<0.1	ND<0.1	0.0074	ND<0.0050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.010	ND<0.1	ND<0.1	0.0239	ND<0.0050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.010	5	0.123	NE	NE

Notes:

Results presented in **Bold** and Yellow highlight indicates a detection above one or more applicable criteria
Results presented in ***bold italic*** type face indicate that the laboratory detection limit is above one or more applicable criteria
µg/L = micrograms per liter
mg/L = milligrams per liter
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
ETPH = Extractable Total Petroleum Hydrocarbons
ND = Not detected
NS = Not sampled
NE = No standard established
EPA = Environmental Protection Agency
GWPC = Groundwater Protection Criteria
SWPC = Surface Water Protection Criteria
* = Additional Polluting Substance Criteria (APS) (CTDEEP revised 2/29/2016)
** = Since there is no default numeric criteria for total chromium, analytical results were compared to the more conservative hexavalent chromium standard.
A = Result value from the associated duplicate sample taken at the well during the sampling event (higher value presented of the sample vs. the duplicate)
B = Analyte also detected in the associated Blank during the sampling event
During multiple sampling events, wells AP-13 and AP-15 were dry and unable to be sampled.
All wells were damaged during 2014/2015 on-site construction activities for the CREC center. All replacement wells have suffix "R". AP-6R and AP-11R replaced on 9/30/2014; AP-13R replaced on 6/28/2015; all other wells replaced on 6/4-5/2015.
Wells AP-13R-BR and AP-15R-BR were installed on 8/17/2018.

TABLE 1 con't
Groundwater Analytical Results - Detected Analytes

Former CL&P Operations Center
Eversource Energy
176 Cumberland Avenue
Wethersfield, Connecticut

Well ID:	AP-4R									AP-6R									GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Date Sampled:	11/5/2009	3/26/2010	8/12/2015	11/12/2015	3/1/2016	5/24/2016	5/31/2017	10/10/2018	7/30/2019	11/5/2009	3/26/2010	8/13/2015	11/11/2015	3/2/2016	5/24/2016	5/31/2017	10/11/2018	7/31/2019				
VOCs via EPA 8260 (µg/L)																						
Acetone	ND<500	ND<50	ND<10.0	ND<10.0	ND<50	ND<10	ND<10	ND<10	ND<10	ND<5.0	ND<5.0	ND<10.0	ND<10.0	ND<10	ND<10	ND<10	ND<10	ND<10	700	10,000 *	50,000	50,000
Benzene	**16**	**11**	ND<1.0	ND<1.0	***ND<2.5***	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1	710	215	530
2-Butanone (MEK)	ND<20	ND<20	ND<10.0	ND<10.0	ND<25	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	ND<10.0	ND<10.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	400	10,000 *	50,000	50,000
n-Butylbenzene	11	14	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	350 *	10,000 *	1,600 *	21,800 *
sec-Butylbenzene	5.4	ND<10	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	350 *	10,000 *	1,500 *	20,100 *
Carbon disulfide	ND<0.50	ND<500	ND<2.0	ND<2.0	ND<25	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<0.50	ND<50	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	40 *	150 *	2,100 *	5,200 *
Carbon tetrachloride	ND<0.50	ND<20	ND<1.0	ND<1.0	ND<2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5	132	16	40
Chloroform	3.1	ND<5.0	ND<1.0	ND<1.0	ND<5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	6	14,100	287	710
1,2-Dichloroethane	ND<0.50	ND<5.0	**9.0**	**5.8**	***ND<2.5***	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1	2,970	21	90
Di-isopropyl ether	NS	NS	8.3	6.0	ND<2.5	ND<0.50	NS	NS	NS	NS	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	NS	NS	NS	NE	NE	NE	NE
Ethylbenzene	440	560	ND<1.0	ND<1.0	ND<2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	700	580,000	50,000	50,000
Isopropylbenzene	**50**	**82**	ND<1.0	ND<1.0	ND<2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	25 *	210 *	900 *	2,200 *
p-Isopropyltoluene	1.6	ND<5.0	ND<1.0	ND<1.0	ND<2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	25 *	200 *	870 *	2,100 *
Methyl tert-butyl ether (MTBE)	1.7	ND<5.0	19.5	21.6	ND<2.5	1.1	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	100	10,000 *	50,000	50,000
Naphthalene	150	120	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	280	210 *	NE	NE
n-Propylbenzene	**87**	**160**	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	50 *	10,000 *	1,200 *	2,900 *
Tetrahydrofuran	***ND<10***	***ND<100***	ND<2.0	ND<2.0	***ND<50***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	ND<2.0	ND<2.0	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	4 *	9,600 *	250 *	3,700
Toluene	4.3	ND<10	ND<1.0	ND<1.0	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1000	4,000,000	23,500	50,000
1,2,4-Trimethylbenzene	78	110	ND<1.0	ND<1.0	ND<2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140 *	150 *	940 *	12,800 *
1,3,5-Trimethylbenzene	8.8	24	ND<1.0	ND<1.0	ND<2.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140 *	260 *	730 *	10,000 *
Total Xylenes	138.4	**282**	ND<2.0	ND<2.0	ND<10	ND<2	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	530	270 *	21,300	50,000
SVOCs via EPA 8270 (µg/L)																			GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Acenaphthene	ND<5.0	ND<5.0	ND<0.300	ND<0.050	ND<0.30	ND<0.30	ND<0.30	ND<0.29	ND<0.31	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.30	ND<0.30	ND<0.30	ND<0.33	ND<0.30	420 *	150 *	30,500 *	50,000 *
Anthracene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.20	ND<0.19	ND<0.20	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.20	ND<0.22	ND<0.20	2,000	1,100,000	NE	NE
Aniline	ND<5.0	ND<5.0	ND<7.25	ND<5.21	ND<5.0	ND<5.0	ND<5.0	ND<4.8	ND<5.1	ND<5.0	ND<5.0	ND<5.05	ND<5.15	ND<5.0	ND<5.0	ND<5.0	ND<5.6	ND<5.0	6.1 *	41 *	NE	NE
Benzo(a)anthracene	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	**0.23**	ND<0.050	ND<0.050	ND<0.048	ND<0.051	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.056	ND<0.050	0.06	0.3	NE	NE
Benzo(a)pyrene	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	**0.23**	ND<0.010	ND<0.099	ND<0.096	ND<0.10	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.10	ND<0.11	ND<0.10	0.2	0.3	NE	NE
Benzo(b)fluoranthene	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	**0.32**	ND<0.050	ND<0.050	ND<0.048	ND<0.051	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.056	ND<0.050	0.08	0.3	NE	NE
Bis(2-Ethylhexyl)phthalate	***ND<10***	***ND<10***	***ND<7.25***	***ND<5.21***	ND<2.0	**2.1**	***ND<5.0***	***ND<9.6***	***ND<10***	***ND<10***	***ND<10***	***ND<5.05***	***ND<5.15***	ND<2.0	**2.2**	***ND<5.0***	***ND<2.2***	***ND<10***	2	59	NE	NE
Chrysene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	0.24	ND<0.20	ND<0.20	ND<0.19	ND<0.20	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.20	ND<0.22	ND<0.20	4.8 *	0.54 *	NE	NE
Fluoranthene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.050	ND<0.50	ND<0.50	ND<0.48	ND<0.51	ND<5.0	ND<5.0	ND<0.050	0.090	ND<0.50	ND<0.50	ND<0.50	ND<0.56	ND<0.50	280	3,700	NE	NE
Fluorene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.99	ND<0.96	ND<1.0	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<1.0	ND<1.1	ND<1.0	280	140,000	NE	NE
1-Methylnaphthalene	NS	NS	ND<0.065	ND<0.050	ND<5.0	ND<5.0	NS	NS	NS	NS	NS	ND<0.050	ND<0.050	ND<5.0	ND<5.0	NS	NS	NS	5 *	61 *	20 *	320 *
2-Methylnaphthalene	15	19	ND<0.075	ND<0.050	ND<1.0	ND<1.0	ND<0.99	ND<0.96	ND<1.0	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<1.0	ND<1.1	ND<1.0	28 *	62 *	1,000 *	13,100 *
Naphthalene	50	77	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.99	ND<0.96	ND<1.0	ND<5.0	ND<5.0	0.074	ND<0.050	ND<1.0	ND<1.0	ND<1.0	ND<1.1	ND<1.0	280	210 *	NE	NE
Phenanthrene	***ND<5.0***	***ND<5.0***	ND<0.050	0.062	0.11	ND<0.050	ND<0.050	ND<0.048	ND<0.051	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.056	ND<0.050	200	0.3	NE	NE
Pyrene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.99	ND<0.96	ND<1.0	ND<5.0	ND<5.0	ND<0.050	0.091	ND<1.0	ND<1.0	ND<1.0	ND<1.1	ND<1.0	200	110,000	NE	NE
ETPH via CTETPH (mg/L)																			GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
CT ETPH	**1.7**	**1.2**	ND<0.08	NS<0.2	0.20	0.19	0.17	**0.27**	0.19	ND<0.075	ND<0.075	ND<0.2	ND<0.2	ND<0.075	**0.31**	ND<0.075	0.16	0.17	0.25	0.25 *	0.25	0.25
Total Metals (mg/L)																			GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Antimony	ND<0.005	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.005	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	0.006	86	NE	NE
Arsenic	**0.0072**	**0.015**	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.00080	ND<0.002	ND<0.002	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	0.0014	0.05	0.004	NE	NE
Barium	0.6	0.96	0.182	0.129	0.068	0.110	0.063	0.095	0.077	ND<0.25	ND<0.12	0.132	0.137	0.180	0.190	0.240	0.220	0.180	1	2.2 *	NE	NE
Beryllium	ND<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.00040	ND<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.00040	0.004	0.004	NE	NE
Cadmium	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	0.005	0.006	NE	NE
Chromium (total)	ND<0.05	ND<0.05	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	0.0012	ND<0.05	ND<0.05	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	0.0016	0.05	0.11**	NE	NE
Copper	ND<0.025	ND<0.025	ND<0.0100	ND<0.0100	ND<.0.025	ND<.025	ND<.025	ND<0.025	0.0076	ND<0.025	ND<0.025	ND<0.0100	ND<0.0100	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.0067	1.3	0.048	NE	NE
Lead	ND<0.005	ND<0.005	ND<0.0075	ND<0.0075	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	0.00058	ND<0.005	ND<0.005	ND<0.0075	ND<0.0075	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.00050	0.015	0.013	NE	NE
Mercury	ND<0.00010	ND<0.00010	ND<0.00020	ND<0.00020	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00020	ND<0.00020	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	0.002	0.0004	NE	NE
Nickel	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	0.1	0.88	NE	NE
Selenium	ND<0.025	ND<0.025	ND<0.0150	ND<0.0150	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0150	ND<0.0150	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	0.05	0.05	NE	NE
Silver	ND<0.0025	ND<0.0025	ND<0.0050	ND<0.0050	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	ND<0.0025	ND<0.0025	ND<0.0050	ND<0.0050	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	0.036	0.012	NE	NE
Thallium	ND<0.001	ND<0.001	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.00020	ND<0.001	ND<0.001	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.00020	0.005	0.063	NE	NE
Vanadium	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	0.05	0.27 *	NE	NE
Zinc	ND<0.1	ND<0.1	0.0193	0.0162	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.010	ND<0.1	ND<0.1	ND<0.0100	0.0148	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.010	5	0.123	NE	NE

Notes:

Results presented in **Bold** and Yellow highlight indicates a detection above one or more applicable criteria
Results presented in ***bold italic*** type face indicate that the laboratory detection limit is above one or more applicable criteria
µg/L = micrograms per liter
mg/L = milligrams per liter
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
ETPH = Extractable Total Petroleum Hydrocarbons
ND = Not detected
NS = Not sampled
NE = No standard established
EPA = Environmental Protection Agency
GWPC = Groundwater Protection Criteria
SWPC = Surface Water Protection Criteria
* = Additional Polluting Substance Criteria (APS) (CTDEEP revised 2/29/2016)
* * = Since there is no default numeric criteria for total chromium, analytical results were compared to the more conservative hexavalent chromium standard.
A = Result value from the associated duplicate sample taken at the well during the sampling event (higher value presented of the sample vs. the duplicate)
B = Analyte also detected in the associated Blank during the sampling event
During multiple sampling events, wells AP-13 and AP-15 were dry and unable to be sampled.
All wells were damaged during 2014/2015 on-site construction activities for the CREC center. All replacement wells have suffix "R". AP-6R and AP-11R replaced on 9/30/2014; AP-13R replaced on 6/28/2015; all other wells replaced on 6/4-5/2015.
Wells AP-13R-BR and AP-15R-BR were installed on 8/17/2018.

QA/QC performed 2/12/2017 by KH

TABLE 1 con't
Groundwater Analytical Results - Detected Analytes

Former CL&P Operations Center
Eversource Energy
176 Cumberland Avenue
Wethersfield, Connecticut

Well ID:	AP-9R									AP-11R								AP-12R									GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Date Sampled:	11/5/2009	3/25/2010	8/12/2015	11/11/2015	3/2/2016	5/24/2016	5/30/2017	10/10/2018	7/30/2019	11/5/2009	3/26/2010	8/13/2015	11/12/2015	3/1/2016	5/24/2016	5/31/2017	10/11/2018	7/31/2019	11/4/2009	3/25/2010	8/13/2015	11/12/2015	3/1/2016	5/24/2016	5/31/2017	10/10/2018	7/30&31/2019				
VOCs via EPA 8260 (µg/L)																														
Acetone	ND<5.0	ND<5.0	ND<10.0	ND<10.0	ND<10	ND<10	ND<10	ND<10	ND<10	ND<5.0	ND<5.0	ND<10.0	ND<10.0	ND<10	ND<10	ND<10	ND<10	ND<10	ND<50	ND<5.0	ND<10.0	ND<10.0	ND<10	ND<10	ND<10	ND<10	ND<10	700	10,000 *	50,000	50,000
Benzene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.94	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1	710	215	530
2-Butanone (MEK)	ND<2.0	ND<2.0	ND<10.0	ND<10.0	ND<5.0	ND<10.	ND<5.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	ND<10.0	ND<10.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	3.0	ND<2.0	ND<10.0	ND<10.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	400	10,000 *	50,000	50,000
n-Butylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	350 *	10,000 *	1,600 *	21,800 *
sec-Butylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	350 *	10,000 *	1,500 *	20,100 *
Carbon Disulfide	ND<0.50	ND<50	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<0.50	ND<50	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.2	ND<50	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	40 *	150 *	2,100 *	5,200 *
Carbon Tetrachloride	ND<0.50	ND<2.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4 A	ND<2.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5	132	16	40
Chloroform	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.63	1.7	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6	14,100	287	710
1,2-Dichloroethane	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1	2,970	21	90
Di-isopropyl ether	NS	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	NS	NS	NS	NS	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	NS	NS	NS	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	NS	NS	NS	NE	NE	NE	NE
Ethylbenzene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	700	580,000	50,000	50,000
Isopropylbenzene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	25 *	210 *	900 *	2,200 *
p-Isopropyltoluene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	25 *	200 *	870 *	2,100 *
Methyl tert-butyl ether (MTBE)	1.6	2.1	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	ND<1.0	0.67	0.53	0.72	0.66	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	100	10,000 *	50,000	50,000
Naphthalene	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	5.1	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	280	210 *	NE	NE
n-Propylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	50 *	10,000 *	1,200 *	2,900 *
Tetrahydrofuran	ND<10	ND<10	**69.4**	**83.0**	**24**	**50**	**15**	ND<10	ND<10	***ND<10***	***ND<10***	ND<2.0	ND<2.0	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	ND<2.0	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	4 *	9,600 *	250 *	3,700
Toluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1000	4,000,000	23,500	50,000
1,2,4-Trimethylbenzene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140 *	150 *	940 *	12,800 *
1,3,5-Trimethylbenzene	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140 *	260 *	730 *	10,000 *
Total Xylenes	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	530	270 *	21,300	50,000
SVOCs via EPA 8270 (µg/L)																												GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Acenaphthene	ND<5.0	ND<5.0	ND<0.300	0.269	ND<0.30	ND<0.30	ND<0.27	ND<0.31	ND<0.31	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.30	ND<0.30	ND<0.30	ND<0.33	ND<0.30	NS	ND<5.0	NS	0.110	ND<0.30	NS	ND<0.30	ND<0.29	NS	420 *	150 *	NE	50,000 *
Anthracene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.18	ND<0.20	ND<0.20	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.20	ND<0.22	ND<0.20	NS	ND<5.0	NS	ND<0.050	ND<0.20	NS	ND<0.20	ND<0.19	NS	2,000	1,100,000	NE	NE
Aniline	ND<5.0	ND<5.0	ND<5.10	ND<5.32	ND<5.0	ND<5.0	ND<4.5	ND<5.1	ND<5.1	ND<5.0	ND<5.0	ND<5.10	ND<5.21	ND<5.0	ND<5.0	ND<5.0	ND<5.6	ND<5.0	NS	ND<5.0	NS	ND<8.33	ND<5.0	NS	ND<5.0	ND<4.8	NS	6.1 *	41 *	NE	NE
Benzo(a)anthracene	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.045	ND<0.051	NS<0.051	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.056	ND<0.050	NS	***ND<5.0***	NS	ND<0.050	ND<0.050	NS	ND<0.050	ND<0.048	NS	0.06	0.3	NE	NE
Benz(a)pyrene	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.091	ND<0.10	ND<0.10	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.10	ND<0.11	ND<0.10	NS	***ND<5.0***	NS	ND<0.050	ND<0.10	NS	ND<0.099	ND<0.096	NS	0.2	0.3	NE	NE
Benzo(b)fluoranthene	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.045	ND<0.051	ND<0.051	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.056	ND<0.050	NS	***ND<5.0***	NS	ND<0.050	ND<0.050	NS	ND<0.050	ND<0.048	NS	0.08	0.3	NE	NE
Bis(2-Ethylhexyl)phthalate	***ND<10***	***ND<10***	***ND<5.10***	***ND<5.32***	ND<2.0	**2.4**	***ND<9.1***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<5.10***	***ND<5.21***	ND<2.0	**2.1**	***ND<5.0***	***ND<2.2***	***ND<10***	NS	***ND<10***	NS	***ND<8.33***	ND<2.0	NS	***ND<5.0***	***ND<9.6***	NS	2	59	NE	NE
Chrysene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.18	ND<0.20	ND<0.20	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.20	ND<0.22	ND<0.20	NS	ND<5.0	NS	ND<0.050	ND<0.20	NS	ND<0.20	ND<0.19	NS	4.8 *	0.54 *	NE	NE
Fluoranthene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.50	ND<0.50	ND<0.45	ND<0.51	ND<0.51	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.50	ND<0.50	ND<0.50	ND<0.56	ND<0.50	NS	ND<5.0	NS	ND<0.050	ND<0.50	NS	ND<0.50	ND<0.48	NS	280	3,700	NE	NE
Fluorene	ND<5.0	ND<5.0	ND<0.050	0.064	ND<1.0	ND<1.0	ND<0.91	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<1.0	ND<1.1	ND<1.0	NS	ND<5.0	NS	ND<0.050	ND<1.0	NS	ND<0.99	ND<0.96	NS	280	140,000	NE	NE
1-Methylnaphthalene	NS	NS	ND<0.065	0.054	ND<5.0	ND<5.0	NS	NS	NS	NS	NS	ND<0.050	ND<0.050	ND<5.0	ND<5.0	NS	NS	NS	NS	NS	NS	ND<0.050	ND<5.0	NS	NS	NS	NS	5 *	61 *	20 *	320 *
2-Methylnaphthalene	ND<5.0	ND<5.0	ND<0.075	0.063	ND<1.0	ND<1.0	ND<0.91	ND<1.0	ND<1.0	ND<5.0	ND<5.0	0.059	ND<0.050	ND<1.0	ND<1.0	ND<1.0	ND<1.1	ND<1.0	NS	ND<5.0	NS	ND<0.050	ND<1.0	NS	ND<0.99	ND<0.96	NS	28 *	62 *	1,000 *	13,100 *
Naphthalene	ND<5.0	ND<5.0	0.092	ND<0.050	ND<1.0	ND<1.0	ND<0.91	ND<1.0	ND<1.0	ND<5.0	ND<5.0	0.079	ND<0.050	ND<1.0	ND<1.0	ND<1.0	ND<1.1	ND<1.0	NS	ND<5.0	NS	ND<0.050	ND<1.0	NS	ND<0.99	ND<0.96	NS	280	210 *	NE	NE
Phenanthrene	***ND<5.0***	***ND<5.0***	0.055	0.071	ND<0.050	ND<0.050	ND<0.045	ND<0.051	ND<0.051	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<1.0	ND<1.1	ND<1.0	NS	***ND<5.0***	NS	ND<0.050	ND<0.050	NS	ND<0.050	ND<0.048	NS	200	0.3	NE	NE
Pyrene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.91	ND<1.0	ND<1.0	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<1.0	ND<1.1	ND<1.0	NS	ND<5.0	NS	ND<0.050	ND<1.0	NS	ND<0.99	ND<0.96	NS	200	110,000	NE	NE
ETPH via CTETPH (mg/L)																												GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
CT ETPH	0.15	ND<0.076	ND<0.2	ND<0.2	0.17	0.14	0.10	0.17	ND<0.15	0.20 A	ND<0.075	ND<0.2	ND<0.2	ND<0.075	ND<0.075	ND<0.075	0.13	0.17	NS	ND<0.075	NS	NS	0.20	0.18	ND<0.075	0.19	**0.28**	0.25	0.25 *	0.25	0.25
Total Metals (mg/L)																												GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Antimony	ND<0.005	ND<0.005	ND<0.0060	ND<0.0060	ND<0.005	ND<0.005	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.005	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	NS	ND<0.005	NS	NS	ND<0.005	ND<0.005	ND<0.0050	ND<0.0050	ND<0.0010	0.006	86	NE	NE
Arsenic	ND<0.002	ND<0.002	ND<0.0040	ND<0.0040	ND<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.0080	ND<0.002	ND<0.002	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.00080	NS	ND<0.002	NS	NS	0.0038	0.0029	ND<0.0020	ND<0.0020	ND<0.00080	0.05	0.004	NE	NE
Barium	ND<0.25	0.19	0.0704	0.0692	0.076	ND<0.050	0.062	0.084	0.064	ND<0.25	0.13	0.0958	0.0946	0.140	0.140	0.140	0.160	0.150	NS	ND<0.12	NS	NS	0.083	0.095	0.065	0.100	0.100	1	2.2 *	NE	NE
Beryllium	ND<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.00040	ND<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.00040	NS	ND<0.002	NS	NS	ND<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.00040	0.004	0.004	NE	NE
Cadmium	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	NS	ND<0.0025	NS	NS	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	0.005	0.006	NE	NE
Chromium (total)	ND<0.05	ND<0.05	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.05	ND<0.05	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	NS	ND<0.05	NS	NS	ND<0.05	ND<0.05	ND<0.0050	ND<0.0050	0.0015	0.05	0.11**	NE	NE
Copper	ND<0.025	ND<0.025	ND<0.0100	ND<0.0100	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.0076	ND<0.025	ND<0.025	ND<0.0100	ND<0.0100	ND<.025	ND<.025	ND<.025	ND<.025	0.0067	NS	ND<0.025	NS	NS	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.011	1.3	0.048	NE	NE
Lead	ND<0.005	ND<0.005	ND<0.0075	ND<0.0075	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.00050	ND<0.005	ND<0.005	ND<0.0075	ND<0.0075	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.00050	NS	ND<0.005	NS	NS	ND<0.005	ND<0.005	ND<0.0050	ND<0.0050	0.0016	0.015	0.013	NE	NE
Mercury	ND<0.00010	ND<0.00010	ND<0.00020	ND<0.00020	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00020	ND<0.00020	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	NS	ND<0.00010	NS	NS	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	0.002	0.0004	NE	NE
Nickel	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	NS	ND<0.025	NS	NS	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	0.1	0.88	NE	NE
Selenium	ND<0.025	ND<0.025	ND<0.0150	ND<0.0150	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0150	ND<0.0150	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	NS	ND<0.025	NS	NS	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	0.05	0.05	NE	NE
Silver	ND<0.0025	ND<0.0025	ND<0.0050	ND<0.0050	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	ND<0.0025	ND<0.0025	ND<0.0050	ND<0.0050	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	NS	ND<0.0025	NS	NS	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	0.036	0.012	NE	NE
Thallium	ND<0.001	ND<0.001	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.00020	ND<0.001	ND<0.001	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.00020	NS	ND<0.001	NS	NS	ND<0.001	ND<0.001	ND<0.0010	ND<0.0010	ND<0.00020	0.005	0.063	NE	NE
Vanadium	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	NS	ND<0.025	NS	NS	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	0.05	0.27 *	NE	NE
Zinc	ND<0.1	ND<0.1	ND<0.0100	ND<0.0100	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.010	ND<0.1	ND<0.1	ND<0.0100	ND<0.0100	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.010	NS	ND<0.1	NS	NS	**0.420**	**0.170**	0.079	ND<0.050	**0.290**	5	0.123	NE	NE
Dissolved Metals (mg/L)																												GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Antimony	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.005	NS	NS	NS	0.006	86	NE	NE
Arsenic	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.0031	NS	NS	NS	0.05	0.004	NE	NE
Barium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.085	NS	NS	NS	1	2.2 *	NE	NE
Beryllium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.002	NS	NS	NS	0.004	0.004	NE	NE
Cadmium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.0025	NS	NS	NS	0.005	0.006	NE	NE
Chromium (total)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.05	NS	NS	NS	0.05	0.11**	NE	NE
Copper	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.025	NS	NS	NS	1.3	0.048	NE	NE
Lead	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.005	NS	NS	NS	0.015	0.013	NE	NE
Mercury	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.00010	NS	NS	NS	0.002	0.0004	NE	NE
Nickel	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.025	NS	NS	NS	0.1	0.88	NE	NE
Selenium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.025	NS	NS	NS	0.05	0.05	NE	NE
Silver	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.0025	NS	NS	NS	0.036	0.012	NE	NE
Thallium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.001	NS	NS	NS	0.005	0.063	NE	NE
Vanadium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND<0.025	NS	NS	NS	0.05	0.27 *	NE	NE
Zinc	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.056	0.063	NS	NS	5	0.123	NE	NE

Notes:

Results presented in **Bold** and Yellow highlight indicates a detection above one or more applicable criteria
Results presented in ***bold italic*** type face indicate that the laboratory detection limit is above one or more applicable criteria
µg/L = micrograms per liter
mg/L = milligrams per liter
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
ETPH = Extractable Total Petroleum Hydrocarbons
ND = Not detected
NS = Not sampled
NE = No standard established
EPA = Environmental Protection Agency
GWPC = Groundwater Protection Criteria
SWPC = Surface Water Protection Criteria
* = Additional Polluting Substance Criteria (APS) (CTDEEP revised 2/29/2016)
** = Since there is no default numeric criteria for total chromium, analytical results were compared to the more conservative hexavalent chromium standard.
A = Result value from the associated duplicate sample taken at the well during the sampling event (higher value presented of the sample vs. the duplicate)
B = Analyte also detected in the associated Blank during the sampling event
During multiple sampling events, wells AP-13 and AP-15 were dry and unable to be sampled.
All wells were damaged during 2014/2015 on-site construction activities for the CREC center. All replacement wells have suffix "R". AP-6R and AP-11R replaced on 9/30/2014; AP-13R replaced on 6/28/2015; all other wells replaced on 6/4-5/2015.
Wells AP-13R-BR and AP-15R-BR were installed on 8/17/2018.

TABLE 1 con't
Groundwater Analytical Results - Detected Analytes

Former CL&P Operations Center
Eversource Energy
176 Cumberland Avenue
Wethersfield, Connecticut

Well ID:	AP-13R	AP-13R-BR		AP-15R			AP-15R-BR		AP-101R									GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Date Sampled:	3/31/2010	10/11/2018	7/31/2019	11/4/2009	3/25-31 /2010	3/2/2016	10/11/2018	7/31/2019	6/7/2013	8/13/2015	11/11/2015	3/1/2016	5/24/2016	5/30/2017	5/30/2017 (DUP)	10/10/2018	7/30/2019				
VOCs via EPA 8260 (µg/L)																					
Acetone	ND<5.0	ND<10	ND<10	9.7	ND<5.0	ND<10	ND<10	ND<10	7.5 B	ND<10.0	ND<10.0	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	700	10,000 *	50,000	50,000
Benzene	ND<0.50	ND<0.50	ND<0.50	**1.4**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1	710	215	530
2-Butanone (MEK)	ND<2.0	ND<5.0	ND<5.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10.0	ND<10.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	400	10,000 *	50,000	50,000
n-Butylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	350 *	10,000 *	1,600 *	21,800 *
sec-Butylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	350 *	10,000 *	1,500 *	20,100 *
Carbon Disulfide	ND<2.0	ND<5.0	ND<5.0	2.6	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	40 *	150 *	2,100 *	5,200 *
Carbon Tetrachloride	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<2.0	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5	132	16	40
Chloroform	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.5	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6	14,100	287	710
1,2-Dichloroethane	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1	2,970	21	90
Di-isopropyl ether	NS	NS	NS	NS	NS	ND<0.50	NS	NS	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	NS	NS	NS	NS	NE	NE	NE	NE
Ethylbenzene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	700	580,000	50,000	50,000
Isopropylbenzene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	25 *	210 *	900 *	2,200 *
p-Isopropyltoluene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	25 *	200 *	870 *	2,100 *
Methyl tert-butyl ether (MTBE)	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	0.67	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	100	10,000 *	50,000	50,000
Naphthalene	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	280	210 *	NE	NE
n-Propylbenzene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	50 *	10,000 *	1,200 *	2,900 *
Tetrahydrofuran	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	2.9	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	4 *	9,600 *	250 *	3,700
Toluene	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1000	4,000,000	23,500	50,000
1,2,4-Trimethylbenzene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140 *	150 *	940 *	12,800 *
1,3,5-Trimethylbenzene	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140 *	260 *	730 *	10,000 *
Total Xylenes	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	530	270 *	21,300	50,000
SVOCs via EPA 8270 (µg/L)																		GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Acenaphthene	NS	ND<0.33	ND<0.30	NS	ND<5.0	ND<0.30	ND<0.30	ND<0.30	0.44 A	0.292	0.178	ND<0.30	ND<0.30	ND<0.29	ND<0.28	ND<0.33	ND<0.30	420 *	150 *	30,500 *	50,000 *
Anthracene	NS	ND<0.22	ND<0.20	NS	ND<5.0	ND<0.20	ND<0.20	ND<0.20	ND<0.20	0.077	ND<0.050	ND<0.20	ND<0.20	ND<0.19	ND<0.18	ND<0.22	ND<0.20	2,000	1,100,000	NE	NE
Aniline	NS	ND<5.6	ND<5.0	NS	ND<5.0	ND<5.0	**6.8**	ND<5.1	ND<5.0	ND<5.10	ND<5.21	ND<5.0	ND<5.0	ND<4.8	ND<4.8	ND<5.4	ND<5.1	6.1 *	41 *	NE	NE
Benzo(a)anthracene	NS	ND<0.056	ND<0.050	NS	***ND<5.0***	ND<0.050	ND<0.050	ND<0.051	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.048	ND<0.046	ND<0.054	ND<0.051	0.06	0.3	NE	NE
Benz(a)pyrene	NS	ND<0.11	ND<0.10	NS	***ND<5.0***	ND<0.10	ND<0.10	ND<0.10	ND<0.010	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.095	ND<0.092	ND<0.11	ND<0.10	0.2	0.3	NE	NE
Benzo(b)fluoranthene	NS	ND<0.22	ND<0.050	NS	***ND<5.0***	ND<0.050	ND<0.050	ND<0.051	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.048	ND<0.046	***ND<0.22***	ND<0.051	0.08	0.3	NE	NE
Bis(2-Ethylhexyl)phthalate	NS	***ND<2.2***	***ND<10***	NS	***ND<10***	ND<2.0	ND<2.0	ND<10	***ND<10***	***ND<5.10***	***ND<5.21***	ND<2.0	ND<2.0	***ND<9.5***	***ND<9.2***	***ND<11***	***ND<10***	2	59	NE	NE
Chrysene	NS	ND<0.22	ND<0.20	NS	ND<5.0	ND<0.20	ND<0.20	ND<0.20	ND<0.20	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.19	ND<0.18	ND<0.22	ND<0.20	4.8 *	0.54 *	NE	NE
Fluoranthene	NS	ND<0.56	ND<0.50	NS	ND<5.0	ND<0.50	ND<0.50	ND<0.51	ND<0.50	0.144	0.080	ND<0.50	ND<0.50	ND<0.48	ND<0.46	ND<0.54	ND<0.51	280	3,700	NE	NE
Fluorene	NS	ND<1.1	ND<1.0	NS	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	0.206	0.105	ND<1.0	ND<1.0	ND<0.95	ND<0.92	ND<1.1	ND<1.0	280	140,000	NE	NE
1-Methylnaphthalene	NS	NS	NS	NS	NS	ND<5.0	NS	NS	NS	0.172	0.079	ND<5.0	ND<5.0	NS	NS	NS	NS	5 *	61 *	20 *	320 *
2-Methylnaphthalene	NS	ND<1.1	ND<1.0	NS	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	0.142	0.083	ND<1.0	ND<1.0	ND<0.95	ND<0.92	ND<1.1	ND<1.0	28 *	62 *	1,000 *	13,100 *
Naphthalene	NS	ND<1.1	ND<1.0	NS	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	0.231	0.323	ND<1.0	ND<1.0	ND<0.95	ND<0.92	ND<1.1	ND<1.0	280	210 *	NE	NE
Phenanthrene	NS	ND<0.056	ND<0.050	NS	***ND<5.0***	0.18	ND<0.050	ND<0.051	0.27 A	**0.614**	0.222	0.13	ND<0.050	ND<0.048	ND<0.046	ND<0.054	ND<0.051	200	0.3	NE	NE
Pyrene	NS	ND<1.1	ND<1.0	NS	ND<5.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	0.097	0.057	ND<1.0	ND<1.0	ND<0.95	ND<0.92	ND<1.1	ND<1.0	200	110,000	NE	NE
ETPH via CTETPH (mg/L)																		GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
CT ETPH	NS	0.19	0.17	NS	**0.29**	ND<0.075	0.15	0.16	0.19	ND<0.2	ND<0.2	0.17	0.16	ND<0.095	0.11	**0.27**	0.19	0.25	0.25 *	0.25	0.25
Total Metals (mg/L)																		GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Antimony	NS	ND<0.0050	ND<0.0010	NS	ND<0.005	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	0.006	86	NE	NE
Arsenic	NS	ND<0.0020	ND<0.00080	NS	ND<0.002	0.0038	0.0074	0.0029	ND<0.002	**0.0052**	ND<0.0050	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.00080	0.05	0.004	NE	NE
Barium	NS	0.220	0.160	NS	ND<0.12	0.078	0.170	0.210	ND<0.05	0.0409	0.0474	ND<0.050	ND<0.050	0.064	0.065	0.096	0.120	1	2.2 *	NE	NE
Beryllium	NS	ND<0.0020	ND<0.00040	NS	ND<0.002	ND<0.0020	ND<0.0020	ND<0.00040	ND<0.002	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.00040	0.004	0.004	NE	NE
Cadmium	NS	ND<0.0025	ND<0.00020	NS	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	0.005	0.006	NE	NE
Chromium (total)	NS	ND<0.0050	0.0025	NS	ND<0.05	0.0075	0.011	0.0019	ND<0.005	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0010	0.05	0.11**	NE	NE
Copper	NS	ND<0.025	0.0073	NS	ND<0.025	ND<0.025	ND<0.025	0.0082	ND<0.025	ND<0.0100	ND<0.0100	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.011	1.3	0.048	NE	NE
Lead	NS	ND<0.0050	ND<0.00050	NS	ND<0.005	ND<0.0050	ND<0.0050	0.00061	ND<0.005	ND<0.0075	ND<0.0075	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.00050	0.015	0.013	NE	NE
Mercury	NS	ND<0.00010	ND<0.00010	NS	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00020	ND<0.00020	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	ND<0.00010	0.002	0.0004	NE	NE
Nickel	NS	ND<0.025	ND<0.0050	NS	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	0.1	0.88	NE	NE
Selenium	NS	ND<0.025	ND<0.0050	NS	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	ND<0.0150	ND<0.0150	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	0.05	0.05	NE	NE
Silver	NS	ND<0.0025	ND<0.00020	NS	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	ND<0.0025	ND<0.0050	ND<0.0050	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.00020	0.036	0.012	NE	NE
Thallium	NS	ND<0.0010	ND<0.00020	NS	ND<0.001	0.0012	ND<0.0010	ND<0.00020	ND<0.001	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.00020	0.005	0.063	NE	NE
Vanadium	NS	ND<0.025	ND<0.0050	NS	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.025	0.0254	0.0159	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	0.05	0.27 *	NE	NE
Zinc	NS	ND<0.050	ND<0.010	NS	**0.74**	ND<0.050	**0.210**	**0.160**	ND<0.05	ND<0.0100	0.0075	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.010	5	0.123	NE	NE
Dissolved Metals (mg/L)																		GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
Antimony	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.006	86	NE	NE
Arsenic	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.05	0.004	NE	NE
Barium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1	2.2 *	NE	NE
Beryllium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.004	0.004	NE	NE
Cadmium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.005	0.006	NE	NE
Chromium (total)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.05	0.11**	NE	NE
Copper	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.3	0.048	NE	NE
Lead	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.015	0.013	NE	NE
Mercury	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.002	0.0004	NE	NE
Nickel	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.1	0.88	NE	NE
Selenium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.05	0.05	NE	NE
Silver	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.036	0.012	NE	NE
Thallium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.005	0.063	NE	NE
Vanadium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.05	0.27 *	NE	NE
Zinc	NS	NS	NS	NS	NS	NS	**0.140**	0.018	NS	NS	NS	NS	NS	NS	NS	NS	NS	5	0.123	NE	NE

Notes:

Results presented in **Bold** and Yellow highlight indicates a detection above one or more applicable criteria
Results presented in ***bold italic*** type face indicate that the laboratory detection limit is above one or more applicable criteria
µg/L = micrograms per liter
mg/L = milligrams per liter
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
ETPH = Extractable Total Petroleum Hydrocarbons
ND = Not detected
NS = Not sampled
NE = No standard established
EPA = Environmental Protection Agency
GWPC = Groundwater Protection Criteria
SWPC = Surface Water Protection Criteria
* = Additional Polluting Substance Criteria (APS) (CTDEEP revised 2/29/2016)
* * = Since there is no default numeric criteria for total chromium, analytical results were compared to the more conservative hexavalent chromium standard.
A = Result value from the associated duplicate sample taken at the well during the sampling event (higher value presented of the sample vs. the duplicate)
B = Analyte also detected in the associated Blank during the sampling event
During multiple sampling events, wells AP-13 and AP-15 were dry and unable to be sampled.
All wells were damaged during 2014/2015 on-site construction activities for the CREC center. All replacement wells have suffix "R". AP-6R and AP-11R replaced on 9/30/2014; AP-13R replaced on 6/28/2015; all other wells replaced on 6/4-5/2015.
Wells AP-13R-BR and AP-15R-BR were installed on 8/17/2018.



APPENDIX A

WELL SAMPLING RECORDS

APEX COMPANIES, LLC
WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Page 1 of 1

Location (Site/Facility Name): EE - Wethersfield — Depth to _____(top)/_____(bottom) of screen

Well Number: AP-1R Date: 7/31/19

Field Personnel: M. Laday — Pump Intake at (ft. below MP): ~ 13'

Identify Monitoring Point: TOC — Purging Device; (pump type): Geopump

Clock Time	Water Depth Below MP feet	Pump Dial	Purge Rate gal/min	Cum. Volume Purged gallons	Temp. C	Spec. Cond. uS/cm	pH	ORP/ Eh3 mv	DO mg/l	Turbidity NTU	Comments
Initial	3.88	--	--	--	--	--	--	--	--	--	DTB: 1365
3:00	4.07	—	—	—	19.67	1121	7.23	139.9	2.66	56.2	
3:05	4.13	—	—	—	19.54	1094	7.05	149.6	1.89	30.0	
3:10	4.21	—	—	—	19.82	1092	7.04	150.2	1.85	29.0	
3:15	4.46	—	—	—	19.27	1037	7.04	151.7	1.90	25.8	
3:20	4.65	—	—	—	19.47	1027	7.05	152.4	2.05	21.6	
3:25	4.83	—	—	—	19.65	1004	7.06	152.6	2.20	16.7	
3:30	5.00	—	—	—	19.75	983	7.06	153.1	2.33	12.0	
3:35	5.23	—	—	—	19.73	966	7.06	153.2	2.36	8.9	
3:40	5.45	—	—	—	19.79	968	7.06	152.6	2.23	8.3	
3:45	5.80	—	—	—	19.90	986	7.06	152.2	1.84	7.9	
3:50	6.00	—	—	—	19.95	1036	7.05	151.4	1.36	9.1	
3:55	6.26	—	—	—	19.89	1110	7.03	150.7	1.05	11.8	
4:00	6.38	—	—	2 gals	19.86	1134	7.02	150.2	1.00	16.4	

SAMPLED @ 4:05

Temperature (3%); Spec. Cond (3%); pH (+/-0.1); ORP/Eh3 (+/-10mv); DO (10%); Turbidity (10% values >5 NTU or three values less than 5 NTU)

Stabilized (circle) YES (NO) If no, why? Spec Cond, NTU, DO

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APEX COMPANIES, LLC
WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Page 1 of 1

Location (Site/Facility Name): EE - Wethersfield — Depth to _____(top)/_____(bottom) of screen

Well Number: AP-2R — Date: 7/30/19

Field Personnel: M. Lachy — Pump Intake at (ft. below MP): ~ 11'

Identify Monitoring Point: TOC — Purging Device; (pump type): Geopumps

Clock Time	Water Depth Below MP feet	Pump Dial	Purge Rate gal/min	Cum. Volume Purged gallons	Temp. C	Spec. Cond. uS/cm	pH	ORP/ Eh3 mv	DO mg/l	Turbidity NTU	Comments
Initial	4.73	--	--	--	--	--	--	--	--	--	DTB = 11.95
1:30	4.95	—	—	—	20.45	485	6.23	-125.1	1.41	12.6	
1:35	5.25	—	—	—	19.56	452	5.73	-146.7	0.52	10.4	
1:40	5.49	—	—	—	19.45	447	5.78	-156.4	0.45	7.1	
1:45	5.74	—	—	—	20.32	457	5.89	-153.1	0.45	0.0	
1:50	5.99	—	—	—	20.74	477	5.93	-139.5	0.43	0.0	
1:55	6.21	—	—	—	21.18	488	5.95	-140.5	0.42	0.0	
2:00	6.37	—	—	—	21.42	489	5.96	-151.0	0.40	0.0	
2:05	6.52	—	—	—	21.24	482	5.93	-134.8	0.39	0.0	
2:10	6.61	—	—	—	21.93	496	6.03	-161.7	0.38	0.0	
2:15	6.76	—	—	—	20.90	470	5.87	-168.6	0.37	0.0	
2:20	6.97	—	—	—	19.88	450	5.72	-170.8	0.36	0.7	
2:25	7.14	—	—	—	19.46	437	5.67	-173.1	0.35	2.8	
2:30	7.27	—	—	1.75 gals	19.24	427	5.68	-175.9	0.35	2.7	

SAMPLED @ 2:35

Temperature (3%); Spec. Cond (3%); pH (+/-0.1); ORP/Eh3 (+/-10mv); DO (10%); Turbidity (10% values >5 NTU or three values less than 5 NTU)

Stabilized (circle) YES (NO) — If no, why? Spec Cond

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APEX COMPANIES, LLC
WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Page 1 of 1

Location (Site/Facility Name): EE - Wethersfield — Depth to _____(top)/_____(bottom) of screen

Well Number: AP-3R Date: 7/30/19

Field Personnel: M. Lacday — Pump Intake at (ft. below MP): ~10'

Identify Monitoring Point: TOC — Purging Device; (pump type): Geopump

Clock Time	Water Depth Below MP feet	Pump Dial	Purge Rate gal/min	Cum. Volume Purged gallons	Temp. C	Spec. Cond. uS/cm	pH	ORP/ Eh3 mv	DO mg/l	Turbidity NTU	Comments
Initial	3.10	--	--	--	--	--	--	--	--	--	DTB = 11.19
9:35	3.40	—	—	—	20.60	3379	6.24	-11.4	0.86	45.7	
9:40	3.53	—	—	—	21.07	3433	6.09	-31.9	0.55	4.9	
9:45	3.67	—	—	—	21.80	3472	6.07	-28.6	0.50	0.0	
9:50	3.80	—	—	—	22.22	3498	6.08	-31.4	0.48	0.0	
9:55	4.00	—	—	—	21.90	3448	6.05	-43.4	0.47	0.9	
10:00	4.11	—	—	—	21.62	3370	6.02	-61.1	0.44	1.1	
10:05	4.27	—	—	—	21.98	3288	6.03	-89.5	0.43	0.8	
10:10	4.38	—	—	—	21.84	3089	6.01	-105.4	0.42	0.6	
10:15	4.49	—	—	—	21.90	2805	5.96	-115.6	0.42	0.7	
10:20	4.60	—	—	—	21.84	2746	5.93	-116.3	0.43	0.0	
10:25	4.73	—	—	1.25gal	22.14	2765	5.93	-116.5	0.42	0.0	
←					SAMPLED @ 10:30						→

Temperature (3%); Spec. Cond (3%); pH (+/-0.1); ORP/Eh3 (+/-10mv); DO (10%); Turbidity (10% values >5 NTU or three values less than 5 NTU)

Stabilized (circle) (YES) NO — If no, why? _____

MS/MSD

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APEX COMPANIES, LLC
WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

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Location (Site/Facility Name): EE- Wethersfield — Depth to _____(top)/_____(bottom) of screen

Well Number: AP-4R Date: 7/30/19

Field Personnel: M. Ladny — Pump Intake at (ft. below MP): ~ 14'

Identify Monitoring Point: TOC — Purging Device; (pump type): Geopump

Clock Time	Water Depth Below MP feet	Pump Dial	Purge Rate gal/min	Cum. Volume Purged gallons	Temp. C	Spec. Cond. uS/cm	pH	ORP/ Eh3 mv	DO mg/l	Turbidity NTU	Comments
Initial	8.38	--	--	--	--	--	--	--	--	--	DTB = 15.08
11:55	8.59	—	—	—	21.15	919	6.18	190.1	2.41	0.0	
12:00	8.81	—	—	—	20.33	866	5.79	321.8	2.09	30.7	
12:05	9.00	—	—	—	19.91	847	5.33	356.7	2.09	6.7	
12:10	9.16	—	—	—	21.23	868	5.51	372.8	2.05	46.2	
12:15	9.35	—	—	—	20.87	855	5.50	383.6	2.44	7.0	
12:20	9.42	—	—	—	21.25	863	5.54	384.7	2.74	6.1	
12:25	9.52	—	—	—	21.09	864	5.53	387.3	3.31	3.5	
12:30	9.64	—	—	—	20.96	864	5.51	391.3	3.65	2.6	
12:35	9.71	—	—	—	21.89	881	5.66	391.1	3.58	11.2	
12:40	9.82	—	—	—	21.25	873	5.59	392.6	3.34	11.5	
12:45	9.95	—	—	—	20.46	858	5.47	397.1	2.89	2.1	
12:50	10.07	—	—	—	20.67	860	5.51	398.2	2.53	10.1	
12:55	10.14	—	—	1.5 gals	21.18	868	5.57	398.6	2.15	4.0	

SAMPLED @ 1:00

Temperature (3%); Spec. Cond (3%); pH (+/-0.1); ORP/Eh3 (+/-10mv); DO (10%); Turbidity (10% values >5 NTU or three values less than 5 NTU)

Stabilized (circle) YES (NO) If no, why? DO + NTU

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Location (Site/Facility Name): EE- Wethersfield — Depth to _____(top)/_____(bottom) of screen

Well Number: AP-6R Date: 7/31/19

Field Personnel: M. Lucky — Pump Intake at (ft. below MP): ~19'

Identify Monitoring Point: TOC — Purging Device; (pump type): Geo pump

Clock Time	Water Depth Below MP feet	Pump Dial	Purge Rate gal/min	Cum. Volume Purged gallons	Temp. C	Spec. Cond. uS/cm	pH	ORP/ Eh3 mv	DO mg/l	Turbidity NTU	Comments
Initial	13.11	--	--	--	--	--	--	--	--	--	DTB = 20.08
11:45	13.25	—	—	—	21.51	1270	7.00	174.1	2.80	501.1	
11:50	13.31	—	—	—	19.04	1092	6.06	256.9	1.45	691.8	
11:55	13.39	—	—	—	18.33	1037	6.04	281.6	1.35	546.5	
12:00	13.45	—	—	—	17.96	1059	6.24	288.7	1.26	122.2	
12:05	13.49	—	—	—	17.79	1101	6.39	286.4	1.19	84.1	
12:10	13.53	—	—	—	17.66	1162	6.59	280.5	1.15	61.0	
12:15	13.56	—	—	—	17.65	1204	6.72	273.8	1.12	54.9	
12:20	13.58	—	—	—	17.59	1270	6.85	263.5	1.10	45.4	
12:25	13.58	—	—	—	17.59	1309	6.97	255.8	1.10	33.3	
12:30	13.58	—	—	—	17.58	1357	7.06	249.7	1.08	37.4	
12:35	13.59	—	—	—	17.55	1400	7.13	244.5	1.06	25.0	
12:40	13.60	—	—	—	17.54	1437	7.18	240.1	1.04	22.3	
12:45	13.60	—	—	1.75 gal	17.55	1471	7.22	235.9	1.04	17.4	

SAMPLED @ 12:50

Temperature (3%); Spec. Cond (3%); pH (+/-0.1); ORP/Eh3 (+/-10mv); DO (10%); Turbidity (10% values >5 NTU or three values less than 5 NTU)

Stabilized (circle) YES (NO) If no, why? Spec Cond, ORP, NTU

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WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

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Location (Site/Facility Name): EE- Wethersfield — Depth to _____(top)/_____(bottom) of screen

Well Number: AP-9R Date: 7/30/19

Field Personnel: M. Laday — Pump Intake at (ft. below MP): ~16'

Identify Monitoring Point: TOC — Purging Device; (pump type): Geopump

Clock Time	Water Depth Below MP feet	Pump Dial	Purge Rate gal/min	Cum. Volume Purged gallons	Temp. C	Spec. Cond. uS/cm	pH	ORP/ Eh3 mv	DO mg/l	Turbidity NTU	Comments
Initial	7.07	--	--	--	--	--	--	--	--	--	DTB= 16.86
8:00	7.36	—	—	—	17.96	894	7.17	129.1	3.98	52.0	
8:05	7.52	—	—	—	17.82	881	6.94	148.6	3.72	43.7	
8:10	7.70	—	—	—	17.75	879	6.91	164.9	3.67	60.4	
8:15	7.90	—	—	—	17.73	877	6.90	180.7	3.65	54.1	
8:20	8.10	—	—	—	17.71	876	6.88	197.0	3.60	48.5	
8:25	8.31	—	—	—	17.65	872	6.87	210.0	3.57	46.9	
8:30	8.51	—	—	—	17.69	870	6.86	218.7	3.61	38.1	
8:35	8.86	—	—	—	17.66	866	6.84	230.2	3.72	28.3	
8:40	9.08	—	—	—	17.70	864	6.84	240.0	3.68	54.4	
8:45	9.35	—	—	—	17.61	862	6.82	249.5	3.44	12.4	
8:50	9.59	—	—	—	17.68	867	6.78	258.9	2.76	9.7	
8:55	9.81	—	—	—	17.72	876	6.75	267.5	1.96	7.5	
9:00	10.00	—	—	2 gals	17.79	888	6.71	276.4	1.37	9.5	

SAMPLED @ 9:05

Temperature (3%); Spec. Cond (3%); pH (+/-0.1); ORP/Eh3 (+/-10mv); DO (10%); Turbidity (10% values >5 NTU or three values less than 5 NTU)

Stabilized (circle) YES (NO) If no, why? ORP + DO + NTU

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WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

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Location (Site/Facility Name): EE - Wethersfield — Depth to ____(top)/____(bottom) of screen

Well Number: AP-11R Date: 7/31/19

Field Personnel: M. Luday — Pump Intake at (ft. below MP): ~18'

Identify Monitoring Point: TOC — Purging Device; (pump type): Geopump

Clock Time	Water Depth Below MP feet	Pump Dial	Purge Rate gal/min	Cum. Volume Purged gallons	Temp. C	Spec. Cond. uS/cm	pH	ORP/ Eh3 mv	DO mg/l	Turbidity NTU	Comments
Initial	15.15	--	--	--	--	--	--	--	--	--	DTB = 18.81
1:25	15.35	-	-	-	18.36	1924	7.38	134.4	3.23	24.5	
1:30	15.47	-	-	-	18.27	1942	7.15	143.2	2.21	24.1	
1:35	15.64	-	-	-	18.23	1941	7.13	150.3	2.03	17.6	
1:40	15.76	-	-	-	18.23	1940	7.14	152.9	1.68	10.3	
1:45	15.90	-	-	-	18.16	1938	7.18	153.7	1.31	5.3	
1:50	16.00	-	-	-	18.17	1934	7.21	154.4	1.11	6.3	
1:55	16.15	-	-	-	18.13	1929	7.23	154.5	0.92	5.6	
2:00	16.26	-	-	-	18.11	1927	7.25	155.5	0.85	12.0	
2:05	16.38	-	-	-	18.08	1921	7.27	155.2	0.77	11.5	
2:10	16.51	-	-	1.25	18.07	1917	7.28	154.2	0.71	3.9	
~~A~~			SAMPLED @			2:15					→

Temperature (3%); Spec. Cond (3%); pH (+/-0.1); ORP/Eh3 (+/-10mv); DO (10%); Turbidity (10% values >5 NTU or three values less than 5 NTU)

Stabilized (circle) YES (NO) If no, why? Water level dropping, Apex took sample.

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APEX COMPANIES, LLC
WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Page 1 of 1

Location (Site/Facility Name): EE- Wethersfield — Depth to _____(top)/_____(bottom) of screen

Well Number: AP-12R Date: 7/30/19 - 7/31/19

Field Personnel: M. Lachy — Pump Intake at (ft. below MP): ~14.2'

Identify Monitoring Point: TOC — Purging Device; (pump type): Geopm

Clock Time	Water Depth Below MP feet	Pump Dial	Purge Rate gal/min	Cum. Volume Purged gallons	Temp. C	Spec. Cond. uS/cm	pH	ORP/ Eh3 mv	DO mg/l	Turbidity NTU	Comments
Initial	13.17	--	--	--	--	--	--	--	--	--	VTB = 14.49
		No reading collected, Apex grab									
		Sample due to water level in well, Apex									
		grabbed VOC's 8260 + total metals on 7/30/19									
		+ grabbed ETPH on 7/31/19									

Temperature (3%); Spec. Cond (3%); pH (+/-0.1); ORP/Eh3 (+/-10mv); DO (10%); Turbidity (10% values >5 NTU or three values less than 5 NTU)

Stabilized (circle) YES (NO) If no, why? _____

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WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

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Location (Site/Facility Name): EE- Wethersfield — Depth to _____(top)/_____(bottom) of screen

Well Number: AP-13R-BR Date: 7/31/19

Field Personnel: M. Ladas — Pump Intake at (ft. below MP): ~

Identify Monitoring Point: TOC — Purging Device; (pump type): Geopump

Clock Time	Water Depth Below MP feet	Pump Dial	Purge Rate gal/min	Cum. Volume Purged gallons	Temp. C	Spec. Cond. uS/cm	pH	ORP/ Eh3 mv	DO mg/l	Turbidity NTU	Comments
Initial	12.73	--	--	--	--	--	--	--	--	--	DTB - 24.95
9:40	13.62	—	—	—	21.40	1669	7.27	111.8	5.29	11.9	
9:45	14.11	—	—	—	19.48	1536	6.79	164.2	5.09	27.7	
9:50	14.70	—	—	—	19.78	1539	6.64	207.0	5.08	6.1	
9:55	15.20	—	—	—	19.66	1529	6.59	233.0	5.10	0.0	
10:00	15.28	—	—	—	20.18	1544	6.62	247.0	5.03	0.0	
10:05	15.69	—	—	—	20.83	1566	6.63	260.1	5.05	0.0	
10:10	15.98	—	—	—	20.88	1567	6.56	270.2	5.04	0.0	
10:15	16.39	—	—	—	20.29	1547	6.39	289.1	5.06	2.6	
10:20	16.88	—	—	—	19.92	1533	6.23	304.6	5.08	0.0	
10:25	17.06	—	—	—	19.82	1529	6.22	314.5	5.09	1.2	
10:30	17.42	—	—	—	20.13	1536	6.23	320.7	5.12	0.0	
10:35	17.82	—	—	1.25 gal	20.40	1547	6.25	324.3	5.14	0.0	
←					SAMPLED @ 10:40						→

Temperature (3%); Spec. Cond (3%); pH (+/-0.1); ORP/Eh3 (+/-10mv); DO (10%); Turbidity (10% values >5 NTU or three values less than 5 NTU)

Stabilized (circle) YES NO — If no, why? Well went dry during sampling, Apex let it recharge

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APEX COMPANIES, LLC
WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

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Location (Site/Facility Name): EE - Wethersfield — Depth to ____(top)/____(bottom) of screen

Well Number: AP-15R-BR Date: 7/31/19

Field Personnel: M. Ludwig — Pump Intake at (ft. below MP): ~24'

Identify Monitoring Point: TOC — Purging Device; (pump type): Geopump

Clock Time	Water Depth Below MP feet	Pump Dial	Purge Rate gal/min	Cum. Volume Purged gallons	Temp. C	Spec. Cond. uS/cm	pH	ORP/ Eh3 mv	DO mg/l	Turbidity NTU	Comments
Initial	7.91	--	--	--	--	--	--	--	--	--	DTB = 25.00
8:05	9.08	—	—	—	16.68	591	9.30	48.6	1.65	0.0	
8:10	10.06	—	—	—	16.46	546	9.45	-262.8	0.79	285.4	
8:15	10.70	—	—	—	16.25	533	9.44	-274.4	0.75	310.2	
8:20	11.28	—	—	—	16.17	524	9.40	-284.4	0.86	74.7	
8:25	12.23	—	—	—	16.35	519	9.32	-273.1	1.04	49.7	
8:30	12.98	—	—	—	16.52	518	9.26	-279.8	1.13	48.6	
8:35	13.71	—	—	—	16.48	517	9.14	-270.0	1.29	22.5	slowed pump down
8:40	14.08	—	—	—	17.30	530	9.03	-259.2	1.63	10.2	
8:45	14.43	—	—	—	18.01	549	8.80	-236.3	2.25	2.3	
8:50	14.75	—	—	—	17.92	569	8.54	-220.6	2.61	8.7	
8:55	15.15	—	—	—	17.74	590	8.31	-219.9	2.85	1.4	
9:00	15.44	—	—	—	17.67	605	8.10	-75.7	2.91	21.4	
9:05	15.67	—	—	1.75 gal	17.31	622	7.84	-33.4	2.93	15.0	

SAMPLED @ 9:10

Temperature (3%); Spec. Cond (3%); pH (+/-0.1); ORP/Eh3 (+/-10mv); DO (10%); Turbidity (10% values >5 NTU or three values less than 5 NTU)

Stabilized (circle) YES (NO) If no, why? Spec Cond, pH, ORP, NTU

APEX COMPANIES, LLC
WELL PURGING-FIELD WATER QUALITY MEASUREMENTS FORM

Page 1 of 1

Location (Site/Facility Name): EE- Westfield — Depth to _____(top)/_____(bottom) of screen

Well Number: AP 101R Date: 7/30/19

Field Personnel: M. Lachy — Pump Intake at (ft. below MP): 15'

Identify Monitoring Point: TOC — Purging Device; (pump type): Geopump

Clock Time	Water Depth Below MP feet	Pump Dial	Purge Rate gal/min	Cum. Volume Purged gallons	Temp. C	Spec. Cond. uS/cm	pH	ORP/ Eh3 mv	DO mg/l	Turbidity NTU	Comments
Initial	5.96	--	--	--	--	--	--	--	--	--	DTW: 16-31
2:55	6.26	—	—	—	20.34	718	6.71	1.5	2.35	25.0	
3:00	6.47	—	—	—	19.42	694	6.32	42.5	0.77	19.5	
3:05	6.54	—	—	—	20.63	710	6.38	97.0	0.66	9.2	
3:10	6.73	—	—	—	19.79	693	6.29	141.4	0.52	13.1	
3:15	6.91	—	—	—	19.42	672	6.24	174.6	0.49	9.0	
3:20	7.09	—	—	—	19.42	645	6.23	201.7	0.51	6.9	
3:25	7.23	—	—	—	19.36	619	6.24	223.5	0.56	8.9	
3:30	7.39	—	—	—	19.10	588	6.24	241.6	0.69	9.0	
3:35	7.57	—	—	—	18.88	570	6.25	254.6	0.99	7.1	
3:40	7.73	—	—	—	18.86	567	6.29	261.7	1.31	5.2	
3:45	7.90	—	—	—	19.13	568	6.35	267.3	1.62	0.1	
3:50	8.07	—	—	—	19.18	572	6.38	272.1	1.80	0.0	
3:55	8.23	—	—	1.75	19.22	576	6.39	275.4	2.01	0.0	

SAMPLED @ 4:00

Temperature (3%); Spec. Cond (3%); pH (+/-0.1); ORP/Eh3 (+/-10mv); DO (10%); Turbidity (10% values >5 NTU or three values less than 5 NTU)

Stabilized (circle) YES (NO) If no, why? DO

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APPENDIX B

LABORATORY ANALYTICAL REPORTS – GROUNDWATER

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

August 8, 2019

Donna L. Kask
Apex Companies, LLC - South Windsor, CT
58 (H) Connecticut Avenue
South Windsor, CT 06074

Project Location: Wethersfield, CT
Client Job Number:
Project Number: 6089-015
Laboratory Work Order Number: 19G1720

Enclosed are results of analyses for samples received by the laboratory on July 31, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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

Apex Companies, LLC - South Windsor, CT
58 (H) Connecticut Avenue
South Windsor, CT 06074
ATTN: Donna L. Kask

REPORT DATE: 8/8/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 6089-015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19G1720

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

PROJECT LOCATION: Wethersfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TB20190730	19G1720-01	Trip Blank Water		SW-846 8260C	
AP-9R	19G1720-02	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-3R	19G1720-03	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-4R	19G1720-04	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-2R	19G1720-05	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-101R	19G1720-06	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-12R	19G1720-07	Ground Water		SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	

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

CASE NARRATIVE SUMMARY

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

con-test® ANALYTICAL LABORATORY
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SW-846 8260C

Qualifications:

MS-09

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

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
B237012-MS1, B237012-MSD1

Bromomethane
B237012-MS1, B237012-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:

2-Hexanone (MBK)
B237012-MSD1

4-Methyl-2-pentanone (MIBK)
B237012-MSD1

Chloromethane
B237012-MS1

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
B237012-BS1, S038786-CCV1

V-36

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

Analyte & Samples(s) Qualified:

Acetone
B237012-BS1, S038786-CCV1

Carbon Disulfide
B237012-BS1, S038786-CCV1

SW-846 8270D

Qualifications:

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:

Pyridine
19G1720-03[AP-3R], B237057-MS1, B237057-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
19G1720-02[AP-9R], 19G1720-03[AP-3R], 19G1720-04[AP-4R], 19G1720-05[AP-2R], 19G1720-06[AP-101R], B237057-BLK1, B237057-BS1, B237057-BSD1, B237057-MS1, B237057-MSD1, S038862-CCV1

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

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:

3,3-Dichlorobenzidine

19G1720-02[AP-9R], 19G1720-03[AP-3R], 19G1720-04[AP-4R], 19G1720-05[AP-2R], 19G1720-06[AP-101R], B237057-BLK1, B237057-BS1, B237057-BSD1, B237057-MS1, B237057-MSD1, S038862-CCV1

3-Nitroaniline

19G1720-02[AP-9R], 19G1720-03[AP-3R], 19G1720-04[AP-4R], 19G1720-05[AP-2R], 19G1720-06[AP-101R], B237057-BLK1, B237057-BS1, B237057-BSD1, B237057-MS1, B237057-MSD1, S038862-CCV1

4-Chloroaniline

19G1720-02[AP-9R], 19G1720-03[AP-3R], 19G1720-04[AP-4R], 19G1720-05[AP-2R], 19G1720-06[AP-101R], B237057-BLK1, B237057-BS1, B237057-BSD1, B237057-MS1, B237057-MSD1, S038862-CCV1

Aniline

19G1720-02[AP-9R], 19G1720-03[AP-3R], 19G1720-04[AP-4R], 19G1720-05[AP-2R], 19G1720-06[AP-101R], B237057-BLK1, B237057-BS1, B237057-BSD1, B237057-MS1, B237057-MSD1, S038862-CCV1

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.

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for “difficult analytes” listed below and/or otherwise listed in this narrative: Difficult analytes for water – limits between 10 and 150% depending on the compound (see QC summary for limits): Benzoic Acid, Dimethylphthalate, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Pyridine, 4-Nitrophenol, and Phenol.

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for “difficult analytes” listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3’-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

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

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria 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
Technical Representative

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: TB20190730 | Sampled: 7/30/2019 07:45

Sample ID: 19G1720-01

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	8/1/19	8/2/19 4:47	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: TB20190730 | Sampled: 7/30/2019 07:45

Sample ID: 19G1720-01

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	8/1/19	8/2/19 4:47	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 4:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		8/2/19 4:47
Toluene-d8	113	70-130		8/2/19 4:47
4-Bromofluorobenzene	97.3	70-130		8/2/19 4:47

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-9R | Sampled: 7/30/2019 09:05

Sample ID: 19G1720-02

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	8/1/19	8/2/19 8:22	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-9R | Sampled: 7/30/2019 09:05

Sample ID: 19G1720-02

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	8/1/19	8/2/19 8:22	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:22	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	105	70-130		8/2/19	8:22
Toluene-d8	111	70-130		8/2/19	8:22
4-Bromofluorobenzene	101	70-130		8/2/19	8:22

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-9R | Sampled: 7/30/2019 09:05

Sample ID: 19G1720-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Aniline	ND	5.1	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Benzo(a)anthracene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Benzo(b)fluoranthene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 14:31	KLB
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Dibenzofuran	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 14:31	KLB
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Fluoranthene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-9R | Sampled: 7/30/2019 09:05

Sample ID: 19G1720-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
3-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 14:31	KLB
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Phenanthrene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Phenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:25	IMR
Pyridine	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
1,2,4-Trichlorobenzene	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:31	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	30.2	15-110		8/5/19 14:31
Phenol-d6	22.5	15-110		8/5/19 14:31
Nitrobenzene-d5	55.4	30-130		8/5/19 14:31
Nitrobenzene-d5 (SIM)	68.2	30-130		8/7/19 18:25
2-Fluorobiphenyl	64.1	30-130		8/5/19 14:31
2-Fluorobiphenyl (SIM)	55.0	30-130		8/7/19 18:25
2,4,6-Tribromophenol	65.5	15-110		8/5/19 14:31
p-Terphenyl-d14	76.7	30-130		8/5/19 14:31
p-Terphenyl-d14 (SIM)	66.7	30-130		8/7/19 18:25

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-9R | Sampled: 7/30/2019 09:05

Sample ID: 19G1720-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.15	mg/L	1		CTDEP ETPH	8/1/19	8/4/19 19:25	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	78.0	50-150		8/4/19 19:25

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-9R | Sampled: 7/30/2019 09:05

Sample ID: 19G1720-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Arsenic	ND	0.80	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Barium	64	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Copper	7.6	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Lead	ND	0.50	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/6/19	8/6/19 14:08	AJL
Nickel	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:05	QNW

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-3R | Sampled: 7/30/2019 10:30

Sample ID: 19G1720-03

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	8/1/19	8/2/19 8:53	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-3R | Sampled: 7/30/2019 10:30

Sample ID: 19G1720-03

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	8/1/19	8/2/19 8:53	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 8:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	104	70-130		8/2/19	8:53
Toluene-d8	113	70-130		8/2/19	8:53
4-Bromofluorobenzene	97.0	70-130		8/2/19	8:53

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-3R | Sampled: 7/30/2019 10:30

Sample ID: 19G1720-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Aniline	ND	5.1	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Benzo(a)anthracene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Benzo(b)fluoranthene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 14:56	KLB
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Dibenzofuran	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 14:56	KLB
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Fluoranthene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-3R | Sampled: 7/30/2019 10:30

Sample ID: 19G1720-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
3-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 14:56	KLB
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Phenanthrene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Phenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 18:54	IMR
Pyridine	ND	5.1	µg/L	1	MS-09	SW-846 8270D	8/2/19	8/5/19 14:56	KLB
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
1,2,4-Trichlorobenzene	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 14:56	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	43.5	15-110		8/5/19 14:56
Phenol-d6	31.3	15-110		8/5/19 14:56
Nitrobenzene-d5	70.3	30-130		8/5/19 14:56
Nitrobenzene-d5 (SIM)	80.2	30-130		8/7/19 18:54
2-Fluorobiphenyl	72.8	30-130		8/5/19 14:56
2-Fluorobiphenyl (SIM)	56.2	30-130		8/7/19 18:54
2,4,6-Tribromophenol	71.5	15-110		8/5/19 14:56
p-Terphenyl-d14	79.1	30-130		8/5/19 14:56
p-Terphenyl-d14 (SIM)	61.3	30-130		8/7/19 18:54

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-3R | Sampled: 7/30/2019 10:30

Sample ID: 19G1720-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.16	0.15	mg/L	1		CTDEP ETPH	8/1/19	8/4/19 19:45	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	73.7	50-150		8/4/19 19:45

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-3R | Sampled: 7/30/2019 10:30

Sample ID: 19G1720-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Arsenic	ND	0.80	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Barium	380	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Copper	8.0	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Lead	ND	0.50	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/6/19	8/6/19 14:06	AJL
Nickel	8.6	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:02	QNW

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-4R | Sampled: 7/30/2019 13:00

Sample ID: 19G1720-04

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	8/1/19	8/2/19 9:24	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-4R | Sampled: 7/30/2019 13:00

Sample ID: 19G1720-04

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	8/1/19	8/2/19 9:24	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:24	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		8/2/19 9:24
Toluene-d8	111	70-130		8/2/19 9:24
4-Bromofluorobenzene	102	70-130		8/2/19 9:24

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720
Date Received: 7/31/2019
Field Sample #: AP-4R | Sampled: 7/30/2019 13:00
Sample ID: 19G1720-04
Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Aniline	ND	5.1	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Benzo(a)anthracene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Benzo(b)fluoranthene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 16:10	KLB
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Dibenzofuran	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 16:10	KLB
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Fluoranthene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-4R | Sampled: 7/30/2019 13:00

Sample ID: 19G1720-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
3-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 16:10	KLB
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Phenanthrene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Phenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:24	IMR
Pyridine	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
1,2,4-Trichlorobenzene	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:10	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	36.1	15-110		8/5/19 16:10
Phenol-d6	25.1	15-110		8/5/19 16:10
Nitrobenzene-d5	63.3	30-130		8/5/19 16:10
Nitrobenzene-d5 (SIM)	74.1	30-130		8/7/19 19:24
2-Fluorobiphenyl	74.5	30-130		8/5/19 16:10
2-Fluorobiphenyl (SIM)	56.2	30-130		8/7/19 19:24
2,4,6-Tribromophenol	75.0	15-110		8/5/19 16:10
p-Terphenyl-d14	84.7	30-130		8/5/19 16:10
p-Terphenyl-d14 (SIM)	66.1	30-130		8/7/19 19:24

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-4R | Sampled: 7/30/2019 13:00

Sample ID: 19G1720-04

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.19	0.15	mg/L	1		CTDEP ETPH	8/1/19	8/4/19 20:46	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	78.5	50-150		8/4/19 20:46

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-4R | Sampled: 7/30/2019 13:00

Sample ID: 19G1720-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Arsenic	ND	0.80	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Barium	77	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Chromium	1.2	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Copper	7.6	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Lead	0.58	0.50	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/6/19	8/6/19 14:14	AJL
Nickel	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:08	QNW

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-2R | Sampled: 7/30/2019 14:35

Sample ID: 19G1720-05

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	8/1/19	8/2/19 9:54	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-2R | Sampled: 7/30/2019 14:35

Sample ID: 19G1720-05

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	8/1/19	8/2/19 9:54	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 9:54	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		8/2/19 9:54
Toluene-d8	112	70-130		8/2/19 9:54
4-Bromofluorobenzene	99.2	70-130		8/2/19 9:54

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-2R | Sampled: 7/30/2019 14:35

Sample ID: 19G1720-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Aniline	ND	5.1	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Benzo(a)anthracene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Benzo(b)fluoranthene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 16:35	KLB
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Dibenzofuran	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 16:35	KLB
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Fluoranthene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-2R | Sampled: 7/30/2019 14:35

Sample ID: 19G1720-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
3-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 16:35	KLB
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Phenanthrene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Phenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 19:54	IMR
Pyridine	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
1,2,4-Trichlorobenzene	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 16:35	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	28.1	15-110		8/5/19 16:35
Phenol-d6	23.2	15-110		8/5/19 16:35
Nitrobenzene-d5	53.5	30-130		8/5/19 16:35
Nitrobenzene-d5 (SIM)	63.3	30-130		8/7/19 19:54
2-Fluorobiphenyl	68.5	30-130		8/5/19 16:35
2-Fluorobiphenyl (SIM)	53.7	30-130		8/7/19 19:54
2,4,6-Tribromophenol	76.8	15-110		8/5/19 16:35
p-Terphenyl-d14	81.6	30-130		8/5/19 16:35
p-Terphenyl-d14 (SIM)	68.0	30-130		8/7/19 19:54

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-2R | Sampled: 7/30/2019 14:35

Sample ID: 19G1720-05

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.21	0.15	mg/L	1		CTDEP ETPH	8/1/19	8/4/19 21:26	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
2-Fluorobiphenyl	95.9	50-150				8/4/19 21:26	

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-2R | Sampled: 7/30/2019 14:35

Sample ID: 19G1720-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Arsenic	ND	0.80	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Barium	81	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Copper	6.8	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Lead	ND	0.50	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/6/19	8/6/19 14:15	AJL
Nickel	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:18	QNW

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-101R | Sampled: 7/30/2019 16:00

Sample ID: 19G1720-06

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	8/1/19	8/2/19 10:25	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-101R | Sampled: 7/30/2019 16:00

Sample ID: 19G1720-06

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	8/1/19	8/2/19 10:25	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		8/2/19 10:25
Toluene-d8	113	70-130		8/2/19 10:25
4-Bromofluorobenzene	101	70-130		8/2/19 10:25

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-101R | Sampled: 7/30/2019 16:00

Sample ID: 19G1720-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Aniline	ND	5.1	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Benzo(a)anthracene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Benzo(b)fluoranthene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 17:00	KLB
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Dibenzofuran	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 17:00	KLB
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Fluoranthene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-101R | Sampled: 7/30/2019 16:00

Sample ID: 19G1720-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
3-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/2/19	8/5/19 17:00	KLB
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Phenanthrene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Phenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/2/19	8/7/19 20:23	IMR
Pyridine	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
1,2,4-Trichlorobenzene	ND	5.1	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/2/19	8/5/19 17:00	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	40.3	15-110		8/5/19 17:00
Phenol-d6	29.1	15-110		8/5/19 17:00
Nitrobenzene-d5	75.0	30-130		8/5/19 17:00
Nitrobenzene-d5 (SIM)	76.7	30-130		8/7/19 20:23
2-Fluorobiphenyl	85.9	30-130		8/5/19 17:00
2-Fluorobiphenyl (SIM)	57.1	30-130		8/7/19 20:23
2,4,6-Tribromophenol	85.7	15-110		8/5/19 17:00
p-Terphenyl-d14	91.9	30-130		8/5/19 17:00
p-Terphenyl-d14 (SIM)	64.7	30-130		8/7/19 20:23

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-101R | Sampled: 7/30/2019 16:00

Sample ID: 19G1720-06

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.19	0.15	mg/L	1		CTDEP ETPH	8/1/19	8/4/19 21:06	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	77.6	50-150		8/4/19 21:06

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-101R | Sampled: 7/30/2019 16:00

Sample ID: 19G1720-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Arsenic	ND	0.80	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Barium	120	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Copper	11	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Lead	ND	0.50	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/6/19	8/6/19 14:17	AJL
Nickel	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:21	QNW

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-12R | Sampled: 7/30/2019 16:30

Sample ID: 19G1720-07

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	8/1/19	8/2/19 10:56	MFF
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-12R | Sampled: 7/30/2019 16:30

Sample ID: 19G1720-07

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	8/1/19	8/2/19 10:56	MFF
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/1/19	8/2/19 10:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		8/2/19 10:56
Toluene-d8	117	70-130		8/2/19 10:56
4-Bromofluorobenzene	101	70-130		8/2/19 10:56

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19G1720

Date Received: 7/31/2019

Field Sample #: AP-12R | Sampled: 7/30/2019 16:30

Sample ID: 19G1720-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Arsenic	ND	0.80	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Barium	100	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Chromium	1.5	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Copper	11	1.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Lead	1.6	0.50	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/6/19	8/6/19 14:19	AJL
Nickel	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW
Zinc	290	10	µg/L	1		SW-846 6020B	8/5/19	8/6/19 10:24	QNW

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

Sample Extraction Data

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19G1720-02 [AP-9R]	B237016	1000	1.00	08/01/19
19G1720-03 [AP-3R]	B237016	1000	1.00	08/01/19
19G1720-04 [AP-4R]	B237016	1000	1.00	08/01/19
19G1720-05 [AP-2R]	B237016	1000	1.00	08/01/19
19G1720-06 [AP-101R]	B237016	1000	1.00	08/01/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19G1720-02 [AP-9R]	B237196	50.0	50.0	08/05/19
19G1720-03 [AP-3R]	B237196	50.0	50.0	08/05/19
19G1720-04 [AP-4R]	B237196	50.0	50.0	08/05/19
19G1720-05 [AP-2R]	B237196	50.0	50.0	08/05/19
19G1720-06 [AP-101R]	B237196	50.0	50.0	08/05/19
19G1720-07 [AP-12R]	B237196	50.0	50.0	08/05/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19G1720-02 [AP-9R]	B237304	6.00	6.00	08/06/19
19G1720-03 [AP-3R]	B237304	6.00	6.00	08/06/19
19G1720-04 [AP-4R]	B237304	6.00	6.00	08/06/19
19G1720-05 [AP-2R]	B237304	6.00	6.00	08/06/19
19G1720-06 [AP-101R]	B237304	6.00	6.00	08/06/19
19G1720-07 [AP-12R]	B237304	6.00	6.00	08/06/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19G1720-01 [TB20190730]	B237012	5	5.00	08/01/19
19G1720-02 [AP-9R]	B237012	5	5.00	08/01/19
19G1720-03 [AP-3R]	B237012	5	5.00	08/01/19
19G1720-04 [AP-4R]	B237012	5	5.00	08/01/19
19G1720-05 [AP-2R]	B237012	5	5.00	08/01/19
19G1720-06 [AP-101R]	B237012	5	5.00	08/01/19
19G1720-07 [AP-12R]	B237012	5	5.00	08/01/19

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19G1720-02 [AP-9R]	B237057	980	1.00	08/02/19
19G1720-03 [AP-3R]	B237057	980	1.00	08/02/19
19G1720-04 [AP-4R]	B237057	980	1.00	08/02/19
19G1720-05 [AP-2R]	B237057	980	1.00	08/02/19
19G1720-06 [AP-101R]	B237057	990	1.00	08/02/19

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date

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

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19G1720-02 [AP-9R]	B237223	980	1.00	08/02/19
19G1720-03 [AP-3R]	B237223	980	1.00	08/02/19
19G1720-04 [AP-4R]	B237223	980	1.00	08/02/19
19G1720-05 [AP-2R]	B237223	980	1.00	08/02/19
19G1720-06 [AP-101R]	B237223	990	1.00	08/02/19

con-test® ANALYTICAL LABORATORY
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 B237012 - SW-846 5030B										
Blank (B237012-BLK1)				Prepared: 08/01/19 Analyzed: 08/02/19						
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							
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							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	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							
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							
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 B237012 - SW-846 5030B										
Blank (B237012-BLK1)				Prepared: 08/01/19 Analyzed: 08/02/19						
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	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							
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	*25.1*		µg/L	25.0		100	70-130			
Surrogate: Toluene-d8	*28.0*		µg/L	25.0		112	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130			
LCS (B237012-BS1)				Prepared: 08/01/19 Analyzed: 08/02/19						
Acetone	100	10	µg/L	100		100	70-130			V-36
Acrylonitrile	11.3	2.0	µg/L	10.0		113	70-130			
Benzene	9.02	0.50	µg/L	10.0		90.2	70-130			
Bromobenzene	10.1	0.50	µg/L	10.0		101	70-130			
Bromodichloromethane	9.81	0.50	µg/L	10.0		98.1	70-130			
Bromoform	9.88	0.50	µg/L	10.0		98.8	70-130			
Bromomethane	8.26	1.0	µg/L	10.0		82.6	70-130			V-34
2-Butanone (MEK)	111	5.0	µg/L	100		111	70-130			
n-Butylbenzene	7.77	1.0	µg/L	10.0		77.7	70-130			
sec-Butylbenzene	7.84	1.0	µg/L	10.0		78.4	70-130			
tert-Butylbenzene	8.87	1.0	µg/L	10.0		88.7	70-130			
Carbon Disulfide	94.1	5.0	µg/L	100		94.1	70-130			V-36
Carbon Tetrachloride	9.98	0.50	µg/L	10.0		99.8	70-130			
Chlorobenzene	9.77	0.50	µg/L	10.0		97.7	70-130			
Chlorodibromomethane	11.1	0.50	µg/L	10.0		111	70-130			
Chloroethane	8.76	0.50	µg/L	10.0		87.6	70-130			
Chloroform	9.12	0.50	µg/L	10.0		91.2	70-130			
Chloromethane	7.15	0.60	µg/L	10.0		71.5	70-130			
2-Chlorotoluene	9.03	0.50	µg/L	10.0		90.3	70-130			
4-Chlorotoluene	8.86	0.50	µg/L	10.0		88.6	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130			
Dibromomethane	10.8	0.50	µg/L	10.0		108	70-130			
1,2-Dichlorobenzene	9.29	0.50	µg/L	10.0		92.9	70-130			
1,3-Dichlorobenzene	9.04	0.50	µg/L	10.0		90.4	70-130			
1,4-Dichlorobenzene	9.08	0.50	µg/L	10.0		90.8	70-130			
trans-1,4-Dichloro-2-butene	8.93	2.0	µg/L	10.0		89.3	70-130			
Dichlorodifluoromethane (Freon 12)	9.73	0.50	µg/L	10.0		97.3	70-130			
1,1-Dichloroethane	10.1	0.50	µg/L	10.0		101	70-130			
1,2-Dichloroethane	11.4	0.50	µg/L	10.0		114	70-130			
1,1-Dichloroethylene	9.80	0.50	µg/L	10.0		98.0	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
Batch B237012 - SW-846 5030B										
LCS (B237012-BS1)				Prepared: 08/01/19 Analyzed: 08/02/19						
cis-1,2-Dichloroethylene	9.87	0.50	µg/L	10.0		98.7	70-130			
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
1,2-Dichloropropane	10.8	0.50	µg/L	10.0		108	70-130			
1,3-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			
2,2-Dichloropropane	7.43	0.50	µg/L	10.0		74.3	70-130			
1,1-Dichloropropene	9.26	0.50	µg/L	10.0		92.6	70-130			
cis-1,3-Dichloropropene	9.50	0.50	µg/L	10.0		95.0	70-130			
trans-1,3-Dichloropropene	9.34	0.50	µg/L	10.0		93.4	70-130			
Ethylbenzene	9.49	0.50	µg/L	10.0		94.9	70-130			
Hexachlorobutadiene	10.1	0.60	µg/L	10.0		101	70-130			
2-Hexanone (MBK)	124	5.0	µg/L	100		124	70-130			
Isopropylbenzene (Cumene)	9.61	0.50	µg/L	10.0		96.1	70-130			
p-Isopropyltoluene (p-Cymene)	8.92	0.50	µg/L	10.0		89.2	70-130			
Methyl tert-Butyl Ether (MTBE)	9.00	0.50	µg/L	10.0		90.0	70-130			
Methylene Chloride	10.7	5.0	µg/L	10.0		107	70-130			
4-Methyl-2-pentanone (MIBK)	123	5.0	µg/L	100		123	70-130			
Naphthalene	10.4	2.0	µg/L	10.0		104	70-130			
n-Propylbenzene	8.59	1.0	µg/L	10.0		85.9	70-130			
Styrene	9.74	1.0	µg/L	10.0		97.4	70-130			
1,1,1,2-Tetrachloroethane	9.83	0.50	µg/L	10.0		98.3	70-130			
1,1,2,2-Tetrachloroethane	9.45	0.50	µg/L	10.0		94.5	70-130			
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Tetrahydrofuran	10.9	10	µg/L	10.0		109	70-130			
Toluene	9.57	1.0	µg/L	10.0		95.7	70-130			
1,2,3-Trichlorobenzene	10.4	1.0	µg/L	10.0		104	70-130			
1,2,4-Trichlorobenzene	9.86	0.50	µg/L	10.0		98.6	70-130			
1,1,1-Trichloroethane	9.44	0.50	µg/L	10.0		94.4	70-130			
1,1,2-Trichloroethane	10.0	0.50	µg/L	10.0		100	70-130			
Trichloroethylene	9.96	1.0	µg/L	10.0		99.6	70-130			
Trichlorofluoromethane (Freon 11)	10.3	2.0	µg/L	10.0		103	70-130			
1,2,3-Trichloropropane	10.3	0.50	µg/L	10.0		103	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.28	0.50	µg/L	10.0		92.8	70-130			
1,2,4-Trimethylbenzene	8.92	0.50	µg/L	10.0		89.2	70-130			
1,3,5-Trimethylbenzene	9.35	0.50	µg/L	10.0		93.5	70-130			
Vinyl Chloride	9.30	1.0	µg/L	10.0		93.0	70-130			
m+p Xylene	18.4	2.0	µg/L	20.0		92.1	70-130			
o-Xylene	9.05	1.0	µg/L	10.0		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*26.4*		µg/L	25.0		106	70-130			
Surrogate: 4-Bromofluorobenzene	*26.9*		µg/L	25.0		108	70-130			
Matrix Spike (B237012-MS1)	**Source: 19G1720-03**			Prepared: 08/01/19 Analyzed: 08/02/19						
Acetone	96.9	10	µg/L	100	6.67	90.2	70-130			
Acrylonitrile	10.5	2.0	µg/L	10.0	ND	105	70-130			
Benzene	8.65	0.50	µg/L	10.0	ND	86.5	70-130			
Bromobenzene	9.71	0.50	µg/L	10.0	ND	97.1	70-130			
Bromodichloromethane	9.91	0.50	µg/L	10.0	ND	99.1	70-130			
Bromoform	8.43	0.50	µg/L	10.0	ND	84.3	70-130			
Bromomethane	2.21	1.0	µg/L	10.0	ND	**22.1**	* 70-130			MS-09
2-Butanone (MEK)	100	5.0	µg/L	100	ND	100	70-130			
n-Butylbenzene	7.18	1.0	µg/L	10.0	ND	71.8	70-130			
sec-Butylbenzene	7.96	1.0	µg/L	10.0	ND	79.6	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B237012 - SW-846 5030B											
Matrix Spike (B237012-MS1)	**Source: 19G1720-03**			Prepared: 08/01/19 Analyzed: 08/02/19							
tert-Butylbenzene	8.33	1.0	µg/L	10.0	ND	83.3		70-130			
Carbon Disulfide	9.11	5.0	µg/L	10.0	ND	91.1		70-130			
Carbon Tetrachloride	10.2	0.50	µg/L	10.0	ND	102		70-130			
Chlorobenzene	9.50	0.50	µg/L	10.0	ND	95.0		70-130			
Chlorodibromomethane	10.6	0.50	µg/L	10.0	ND	106		70-130			
Chloroethane	10.3	0.50	µg/L	10.0	ND	103		70-130			
Chloroform	8.89	0.50	µg/L	10.0	ND	88.9		70-130			
Chloromethane	6.64	0.60	µg/L	10.0	ND	**66.4**	*	70-130			MS-24
2-Chlorotoluene	8.81	0.50	µg/L	10.0	ND	88.1		70-130			
4-Chlorotoluene	8.76	0.50	µg/L	10.0	ND	87.6		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	8.41	1.0	µg/L	10.0	ND	84.1		70-130			
1,2-Dibromoethane (EDB)	9.10	0.50	µg/L	10.0	ND	91.0		70-130			
Dibromomethane	10.5	0.50	µg/L	10.0	ND	105		70-130			
1,2-Dichlorobenzene	8.60	0.50	µg/L	10.0	ND	86.0		70-130			
1,3-Dichlorobenzene	8.58	0.50	µg/L	10.0	ND	85.8		70-130			
1,4-Dichlorobenzene	8.48	0.50	µg/L	10.0	ND	84.8		70-130			
trans-1,4-Dichloro-2-butene	7.61	2.0	µg/L	10.0	ND	76.1		70-130			
Dichlorodifluoromethane (Freon 12)	8.26	0.50	µg/L	10.0	ND	82.6		70-130			
1,1-Dichloroethane	9.73	0.50	µg/L	10.0	ND	97.3		70-130			
1,2-Dichloroethane	11.0	0.50	µg/L	10.0	ND	110		70-130			
1,1-Dichloroethylene	9.88	0.50	µg/L	10.0	ND	98.8		70-130			
cis-1,2-Dichloroethylene	9.41	0.50	µg/L	10.0	ND	94.1		70-130			
trans-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0	ND	104		70-130			
1,2-Dichloropropane	10.5	0.50	µg/L	10.0	ND	105		70-130			
1,3-Dichloropropane	9.17	0.50	µg/L	10.0	ND	91.7		70-130			
2,2-Dichloropropane	5.97	0.50	µg/L	10.0	ND	**59.7**	*	70-130			MS-09
1,1-Dichloropropene	8.69	0.50	µg/L	10.0	ND	86.9		70-130			
cis-1,3-Dichloropropene	8.27	0.50	µg/L	10.0	ND	82.7		70-130			
trans-1,3-Dichloropropene	8.07	0.50	µg/L	10.0	ND	80.7		70-130			
Ethylbenzene	9.21	0.50	µg/L	10.0	ND	92.1		70-130			
Hexachlorobutadiene	9.64	0.60	µg/L	10.0	ND	96.4		70-130			
2-Hexanone (MBK)	120	5.0	µg/L	100	ND	120		70-130			
Isopropylbenzene (Cumene)	9.64	0.50	µg/L	10.0	ND	96.4		70-130			
p-Isopropyltoluene (p-Cymene)	8.57	0.50	µg/L	10.0	ND	85.7		70-130			
Methyl tert-Butyl Ether (MTBE)	8.88	0.50	µg/L	10.0	ND	88.8		70-130			
Methylene Chloride	10.1	5.0	µg/L	10.0	ND	101		70-130			
4-Methyl-2-pentanone (MIBK)	118	5.0	µg/L	100	ND	118		70-130			
Naphthalene	8.09	2.0	µg/L	10.0	ND	80.9		70-130			
n-Propylbenzene	8.44	1.0	µg/L	10.0	ND	84.4		70-130			
Styrene	8.69	1.0	µg/L	10.0	ND	86.9		70-130			
1,1,1,2-Tetrachloroethane	9.77	0.50	µg/L	10.0	ND	97.7		70-130			
1,1,2,2-Tetrachloroethane	9.16	0.50	µg/L	10.0	ND	91.6		70-130			
Tetrachloroethylene	10.8	1.0	µg/L	10.0	ND	108		70-130			
Tetrahydrofuran	11.2	10	µg/L	10.0	ND	112		70-130			
Toluene	9.41	1.0	µg/L	10.0	ND	94.1		70-130			
1,2,3-Trichlorobenzene	8.57	1.0	µg/L	10.0	ND	85.7		70-130			
1,2,4-Trichlorobenzene	8.58	0.50	µg/L	10.0	ND	85.8		70-130			
1,1,1-Trichloroethane	9.52	0.50	µg/L	10.0	ND	95.2		70-130			
1,1,2-Trichloroethane	9.58	0.50	µg/L	10.0	ND	95.8		70-130			
Trichloroethylene	9.74	1.0	µg/L	10.0	ND	97.4		70-130			
Trichlorofluoromethane (Freon 11)	9.42	2.0	µg/L	10.0	ND	94.2		70-130			
1,2,3-Trichloropropane	10.0	0.50	µg/L	10.0	ND	100		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 B237012 - SW-846 5030B											
Matrix Spike (B237012-MS1)	**Source: 19G1720-03**			Prepared: 08/01/19 Analyzed: 08/02/19							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	0.50	µg/L	10.0	ND	101		70-130			
1,2,4-Trimethylbenzene	8.21	0.50	µg/L	10.0	ND	82.1		70-130			
1,3,5-Trimethylbenzene	9.07	0.50	µg/L	10.0	ND	90.7		70-130			
Vinyl Chloride	8.32	1.0	µg/L	10.0	ND	83.2		70-130			
m+p Xylene	17.8	2.0	µg/L	20.0	ND	88.8		70-130			
o-Xylene	8.72	1.0	µg/L	10.0	ND	87.2		70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.0		103		70-130			
Surrogate: Toluene-d8	*26.9*		µg/L	25.0		108		70-130			
Surrogate: 4-Bromofluorobenzene	*27.7*		µg/L	25.0		111		70-130			
Matrix Spike Dup (B237012-MSD1)	**Source: 19G1720-03**			Prepared: 08/01/19 Analyzed: 08/02/19							
Acetone	111	10	µg/L	100	6.67	105		70-130	13.9	30	
Acrylonitrile	12.3	2.0	µg/L	10.0	ND	123		70-130	15.4	30	
Benzene	9.55	0.50	µg/L	10.0	ND	95.5		70-130	9.89	30	
Bromobenzene	10.3	0.50	µg/L	10.0	ND	103		70-130	5.61	30	
Bromodichloromethane	11.0	0.50	µg/L	10.0	ND	110		70-130	10.1	30	
Bromoform	9.39	0.50	µg/L	10.0	ND	93.9		70-130	10.8	30	
Bromomethane	2.92	1.0	µg/L	10.0	ND	**29.2**	*	70-130	27.7	30	MS-09
2-Butanone (MEK)	111	5.0	µg/L	100	ND	111		70-130	10.4	30	
n-Butylbenzene	7.96	1.0	µg/L	10.0	ND	79.6		70-130	10.3	30	
sec-Butylbenzene	8.82	1.0	µg/L	10.0	ND	88.2		70-130	10.3	30	
tert-Butylbenzene	9.49	1.0	µg/L	10.0	ND	94.9		70-130	13.0	30	
Carbon Disulfide	9.82	5.0	µg/L	10.0	ND	98.2		70-130	7.50	30	
Carbon Tetrachloride	11.2	0.50	µg/L	10.0	ND	112		70-130	9.12	30	
Chlorobenzene	10.2	0.50	µg/L	10.0	ND	102		70-130	7.30	30	
Chlorodibromomethane	11.3	0.50	µg/L	10.0	ND	113		70-130	6.32	30	
Chloroethane	10.1	0.50	µg/L	10.0	ND	101		70-130	1.77	30	
Chloroform	9.73	0.50	µg/L	10.0	ND	97.3		70-130	9.02	30	
Chloromethane	7.49	0.60	µg/L	10.0	ND	74.9		70-130	12.0	30	
2-Chlorotoluene	9.59	0.50	µg/L	10.0	ND	95.9		70-130	8.48	30	
4-Chlorotoluene	9.45	0.50	µg/L	10.0	ND	94.5		70-130	7.58	30	
1,2-Dibromo-3-chloropropane (DBCP)	11.0	1.0	µg/L	10.0	ND	110		70-130	27.0	30	
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0	ND	104		70-130	13.0	30	
Dibromomethane	11.7	0.50	µg/L	10.0	ND	117		70-130	10.4	30	
1,2-Dichlorobenzene	9.72	0.50	µg/L	10.0	ND	97.2		70-130	12.2	30	
1,3-Dichlorobenzene	9.48	0.50	µg/L	10.0	ND	94.8		70-130	9.97	30	
1,4-Dichlorobenzene	9.49	0.50	µg/L	10.0	ND	94.9		70-130	11.2	30	
trans-1,4-Dichloro-2-butene	8.78	2.0	µg/L	10.0	ND	87.8		70-130	14.3	30	
Dichlorodifluoromethane (Freon 12)	9.52	0.50	µg/L	10.0	ND	95.2		70-130	14.2	30	
1,1-Dichloroethane	11.2	0.50	µg/L	10.0	ND	112		70-130	14.2	30	
1,2-Dichloroethane	12.0	0.50	µg/L	10.0	ND	120		70-130	8.73	30	
1,1-Dichloroethylene	10.8	0.50	µg/L	10.0	ND	108		70-130	9.17	30	
cis-1,2-Dichloroethylene	10.7	0.50	µg/L	10.0	ND	107		70-130	12.5	30	
trans-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0	ND	114		70-130	8.35	30	
1,2-Dichloropropane	11.5	0.50	µg/L	10.0	ND	115		70-130	8.93	30	
1,3-Dichloropropane	10.2	0.50	µg/L	10.0	ND	102		70-130	11.1	30	
2,2-Dichloropropane	6.89	0.50	µg/L	10.0	ND	**68.9**	*	70-130	14.3	30	MS-09
1,1-Dichloropropene	9.75	0.50	µg/L	10.0	ND	97.5		70-130	11.5	30	
cis-1,3-Dichloropropene	9.07	0.50	µg/L	10.0	ND	90.7		70-130	9.23	30	
trans-1,3-Dichloropropene	9.24	0.50	µg/L	10.0	ND	92.4		70-130	13.5	30	
Ethylbenzene	9.76	0.50	µg/L	10.0	ND	97.6		70-130	5.80	30	
Hexachlorobutadiene	11.3	0.60	µg/L	10.0	ND	113		70-130	15.7	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 B237012 - SW-846 5030B											
Matrix Spike Dup (B237012-MSD1)	**Source: 19G1720-03**			Prepared: 08/01/19 Analyzed: 08/02/19							
2-Hexanone (MBK)	138	5.0	µg/L	100	ND	**138**	*	70-130	13.9	30	MS-24
Isopropylbenzene (Cumene)	10.3	0.50	µg/L	10.0	ND	103		70-130	6.81	30	
p-Isopropyltoluene (p-Cymene)	9.41	0.50	µg/L	10.0	ND	94.1		70-130	9.34	30	
Methyl tert-Butyl Ether (MTBE)	9.87	0.50	µg/L	10.0	ND	98.7		70-130	10.6	30	
Methylene Chloride	11.1	5.0	µg/L	10.0	ND	111		70-130	9.72	30	
4-Methyl-2-pentanone (MIBK)	134	5.0	µg/L	100	ND	**134**	*	70-130	13.1	30	MS-24
Naphthalene	10.5	2.0	µg/L	10.0	ND	105		70-130	26.1	30	
n-Propylbenzene	9.07	1.0	µg/L	10.0	ND	90.7		70-130	7.20	30	
Styrene	9.72	1.0	µg/L	10.0	ND	97.2		70-130	11.2	30	
1,1,1,2-Tetrachloroethane	10.6	0.50	µg/L	10.0	ND	106		70-130	8.53	30	
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0	ND	102		70-130	10.5	30	
Tetrachloroethylene	12.4	1.0	µg/L	10.0	ND	124		70-130	13.7	30	
Tetrahydrofuran	11.7	10	µg/L	10.0	ND	117		70-130	4.53	30	
Toluene	10.5	1.0	µg/L	10.0	ND	105		70-130	11.3	30	
1,2,3-Trichlorobenzene	10.6	1.0	µg/L	10.0	ND	106		70-130	20.9	30	
1,2,4-Trichlorobenzene	10.0	0.50	µg/L	10.0	ND	100		70-130	15.3	30	
1,1,1-Trichloroethane	10.5	0.50	µg/L	10.0	ND	105		70-130	10.1	30	
1,1,2-Trichloroethane	10.2	0.50	µg/L	10.0	ND	102		70-130	6.56	30	
Trichloroethylene	11.1	1.0	µg/L	10.0	ND	111		70-130	13.1	30	
Trichlorofluoromethane (Freon 11)	10.2	2.0	µg/L	10.0	ND	102		70-130	7.56	30	
1,2,3-Trichloropropane	10.3	0.50	µg/L	10.0	ND	103		70-130	2.95	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9	0.50	µg/L	10.0	ND	109		70-130	8.01	30	
1,2,4-Trimethylbenzene	9.22	0.50	µg/L	10.0	ND	92.2		70-130	11.6	30	
1,3,5-Trimethylbenzene	9.65	0.50	µg/L	10.0	ND	96.5		70-130	6.20	30	
Vinyl Chloride	9.15	1.0	µg/L	10.0	ND	91.5		70-130	9.50	30	
m+p Xylene	19.4	2.0	µg/L	20.0	ND	96.8		70-130	8.62	30	
o-Xylene	9.46	1.0	µg/L	10.0	ND	94.6		70-130	8.14	30	
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		103		70-130			
Surrogate: Toluene-d8	*27.4*		µg/L	25.0		109		70-130			
Surrogate: 4-Bromofluorobenzene	*26.5*		µg/L	25.0		106		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 B237057 - SW-846 3510C										
Blank (B237057-BLK1)				Prepared: 08/02/19 Analyzed: 08/05/19						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Aniline	ND	5.0	µg/L							V-34
Anthracene	ND	5.0	µg/L							
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							
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							
3,3-Dichlorobenzidine	ND	10	µg/L							V-34
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							
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							
2-Methylnaphthalene	ND	5.0	µg/L							
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							V-34
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B237057 - SW-846 3510C											
Blank (B237057-BLK1)				Prepared: 08/02/19 Analyzed: 08/05/19							
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	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	*90.7*		µg/L	200		45.3	15-110				
Surrogate: Phenol-d6	*68.9*		µg/L	200		34.5	15-110				
Surrogate: Nitrobenzene-d5	*66.2*		µg/L	100		66.2	30-130				
Surrogate: 2-Fluorobiphenyl	*73.7*		µg/L	100		73.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*149*		µg/L	200		74.5	15-110				
Surrogate: p-Terphenyl-d14	*86.8*		µg/L	100		86.8	30-130				
LCS (B237057-BS1)				Prepared: 08/02/19 Analyzed: 08/05/19							
Acenaphthene	36.3	5.0	µg/L	50.0		72.7	40-140				
Acenaphthylene	36.7	5.0	µg/L	50.0		73.4	40-140				
Aniline	38.6	5.0	µg/L	50.0		77.2	40-140			V-34	†
Anthracene	38.2	5.0	µg/L	50.0		76.3	40-140				
Benzo(a)anthracene	38.6	5.0	µg/L	50.0		77.2	40-140				
Benzo(a)pyrene	41.8	5.0	µg/L	50.0		83.6	40-140				
Benzo(b)fluoranthene	38.8	5.0	µg/L	50.0		77.5	40-140				
Benzo(g,h,i)perylene	45.1	5.0	µg/L	50.0		90.2	40-140				
Benzo(k)fluoranthene	38.2	5.0	µg/L	50.0		76.5	40-140				
Bis(2-chloroethoxy)methane	40.1	10	µg/L	50.0		80.2	40-140				
Bis(2-chloroethyl)ether	37.9	10	µg/L	50.0		75.8	40-140				
Bis(2-chloroisopropyl)ether	44.2	10	µg/L	50.0		88.4	40-140				
Bis(2-Ethylhexyl)phthalate	39.3	10	µg/L	50.0		78.6	40-140				
4-Bromophenylphenylether	36.1	10	µg/L	50.0		72.1	40-140				
Butylbenzylphthalate	39.7	10	µg/L	50.0		79.4	40-140				
Carbazole	38.8	10	µg/L	50.0		77.6	40-140				
4-Chloroaniline	38.5	10	µg/L	50.0		76.9	40-140			V-34	†
4-Chloro-3-methylphenol	38.7	10	µg/L	50.0		77.4	30-130				
2-Chloronaphthalene	31.2	10	µg/L	50.0		62.4	40-140				
2-Chlorophenol	34.8	10	µg/L	50.0		69.6	30-130				
4-Chlorophenylphenylether	37.3	10	µg/L	50.0		74.7	40-140				
Chrysene	37.9	5.0	µg/L	50.0		75.8	40-140				
Dibenz(a,h)anthracene	45.6	5.0	µg/L	50.0		91.2	40-140				
Dibenzofuran	37.9	5.0	µg/L	50.0		75.8	40-140				
Di-n-butylphthalate	38.3	10	µg/L	50.0		76.7	40-140				
3,3-Dichlorobenzidine	44.4	10	µg/L	50.0		88.8	40-140			V-34	†
2,4-Dichlorophenol	37.6	10	µg/L	50.0		75.2	30-130				
Diethylphthalate	38.2	10	µg/L	50.0		76.4	40-140				
2,4-Dimethylphenol	35.1	10	µg/L	50.0		70.2	30-130				
Dimethylphthalate	38.2	10	µg/L	50.0		76.3	40-140				
4,6-Dinitro-2-methylphenol	40.9	10	µg/L	50.0		81.7	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 B237057 - SW-846 3510C											
LCS (B237057-BS1)				Prepared: 08/02/19 Analyzed: 08/05/19							
2,4-Dinitrophenol	41.5	10	µg/L	50.0		83.0	30-130				
2,4-Dinitrotoluene	42.3	10	µg/L	50.0		84.5	40-140				
2,6-Dinitrotoluene	42.3	10	µg/L	50.0		84.6	40-140				
Di-n-octylphthalate	39.6	10	µg/L	50.0		79.2	40-140				
Fluoranthene	38.4	5.0	µg/L	50.0		76.9	40-140				
Fluorene	38.3	5.0	µg/L	50.0		76.5	40-140				
Hexachlorobenzene	36.6	10	µg/L	50.0		73.2	40-140				
Hexachlorobutadiene	33.4	10	µg/L	50.0		66.9	40-140				
Hexachlorocyclopentadiene	29.4	10	µg/L	50.0		58.8	30-140				
Hexachloroethane	32.6	10	µg/L	50.0		65.2	40-140				
Indeno(1,2,3-cd)pyrene	51.4	5.0	µg/L	50.0		103	40-140				
Isophorone	40.9	10	µg/L	50.0		81.9	40-140				
2-Methylnaphthalene	39.0	5.0	µg/L	50.0		78.0	40-140				
2-Methylphenol	33.8	10	µg/L	50.0		67.5	30-130				
3/4-Methylphenol	33.0	10	µg/L	50.0		66.0	30-130				
Naphthalene	34.5	5.0	µg/L	50.0		69.0	40-140				
2-Nitroaniline	47.8	10	µg/L	50.0		95.6	40-140				
3-Nitroaniline	39.9	10	µg/L	50.0		79.8	40-140			V-34	†
4-Nitroaniline	43.5	10	µg/L	50.0		87.0	40-140				
Nitrobenzene	36.0	10	µg/L	50.0		72.0	40-140				
2-Nitrophenol	39.3	10	µg/L	50.0		78.5	30-130				
4-Nitrophenol	23.5	10	µg/L	50.0		46.9	10-130				
N-Nitrosodiphenylamine/Diphenylamine	37.7	10	µg/L	50.0		75.4	40-140				
N-Nitrosodi-n-propylamine	38.1	10	µg/L	50.0		76.3	40-140				
Pentachloronitrobenzene	40.2	10	µg/L	50.0		80.4	40-140			V-16	
Pentachlorophenol	36.4	10	µg/L	50.0		72.8	30-130				
Phenanthrene	37.9	5.0	µg/L	50.0		75.9	40-140				
Phenol	17.8	10	µg/L	50.0		35.6	20-130				
Pyrene	39.5	5.0	µg/L	50.0		79.0	40-140				
Pyridine	13.6	5.0	µg/L	50.0		27.1	10-140				†
1,2,4,5-Tetrachlorobenzene	33.6	10	µg/L	50.0		67.1	40-140				
1,2,4-Trichlorobenzene	32.5	5.0	µg/L	50.0		65.1	40-140				
2,4,5-Trichlorophenol	37.4	10	µg/L	50.0		74.9	30-130				
2,4,6-Trichlorophenol	37.6	10	µg/L	50.0		75.1	30-130				
Surrogate: 2-Fluorophenol	*97.4*		µg/L	200		48.7	15-110				
Surrogate: Phenol-d6	*73.3*		µg/L	200		36.7	15-110				
Surrogate: Nitrobenzene-d5	*75.5*		µg/L	100		75.5	30-130				
Surrogate: 2-Fluorobiphenyl	*78.7*		µg/L	100		78.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*166*		µg/L	200		83.0	15-110				
Surrogate: p-Terphenyl-d14	*84.9*		µg/L	100		84.9	30-130				
LCS Dup (B237057-BSD1)				Prepared: 08/02/19 Analyzed: 08/05/19							
Acenaphthene	36.9	5.0	µg/L	50.0		73.8	40-140	1.53	20		
Acenaphthylene	37.1	5.0	µg/L	50.0		74.2	40-140	1.11	20		
Aniline	39.2	5.0	µg/L	50.0		78.3	40-140	1.39	50	V-34	† ‡
Anthracene	39.4	5.0	µg/L	50.0		78.8	40-140	3.12	20		
Benzo(a)anthracene	39.7	5.0	µg/L	50.0		79.4	40-140	2.91	20		
Benzo(a)pyrene	41.9	5.0	µg/L	50.0		83.8	40-140	0.263	20		
Benzo(b)fluoranthene	39.4	5.0	µg/L	50.0		78.8	40-140	1.64	20		
Benzo(g,h,i)perylene	44.6	5.0	µg/L	50.0		89.2	40-140	1.18	20		
Benzo(k)fluoranthene	39.1	5.0	µg/L	50.0		78.1	40-140	2.17	20		
Bis(2-chloroethoxy)methane	41.1	10	µg/L	50.0		82.2	40-140	2.41	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B237057 - SW-846 3510C											
LCS Dup (B237057-BSD1)				Prepared: 08/02/19 Analyzed: 08/05/19							
Bis(2-chloroethyl)ether	37.6	10	µg/L	50.0		75.2	40-140	0.768	20		
Bis(2-chloroisopropyl)ether	43.0	10	µg/L	50.0		86.0	40-140	2.68	20		
Bis(2-Ethylhexyl)phthalate	40.0	10	µg/L	50.0		80.0	40-140	1.69	20		
4-Bromophenylphenylether	37.4	10	µg/L	50.0		74.8	40-140	3.67	20		
Butylbenzylphthalate	40.7	10	µg/L	50.0		81.5	40-140	2.61	20		
Carbazole	40.0	10	µg/L	50.0		79.9	40-140	3.00	20		
4-Chloroaniline	41.7	10	µg/L	50.0		83.3	40-140	7.96	20	V-34	†
4-Chloro-3-methylphenol	40.8	10	µg/L	50.0		81.6	30-130	5.31	20		
2-Chloronaphthalene	31.8	10	µg/L	50.0		63.6	40-140	1.94	20		
2-Chlorophenol	35.2	10	µg/L	50.0		70.4	30-130	1.09	20		
4-Chlorophenylphenylether	37.0	10	µg/L	50.0		73.9	40-140	1.02	20		
Chrysene	39.3	5.0	µg/L	50.0		78.6	40-140	3.60	20		
Dibenz(a,h)anthracene	46.0	5.0	µg/L	50.0		92.0	40-140	0.895	20		
Dibenzofuran	37.8	5.0	µg/L	50.0		75.7	40-140	0.106	20		
Di-n-butylphthalate	39.1	10	µg/L	50.0		78.3	40-140	2.07	20		
3,3-Dichlorobenzidine	45.9	10	µg/L	50.0		91.8	40-140	3.37	20	V-34	† ‡
2,4-Dichlorophenol	38.6	10	µg/L	50.0		77.3	30-130	2.78	20		
Diethylphthalate	37.6	10	µg/L	50.0		75.3	40-140	1.42	20		
2,4-Dimethylphenol	35.6	10	µg/L	50.0		71.3	30-130	1.56	20		
Dimethylphthalate	38.0	10	µg/L	50.0		75.9	40-140	0.499	50		
4,6-Dinitro-2-methylphenol	42.3	10	µg/L	50.0		84.6	30-130	3.39	50		
2,4-Dinitrophenol	42.6	10	µg/L	50.0		85.2	30-130	2.66	50		
2,4-Dinitrotoluene	41.8	10	µg/L	50.0		83.6	40-140	1.09	20		
2,6-Dinitrotoluene	41.8	10	µg/L	50.0		83.6	40-140	1.21	20		
Di-n-octylphthalate	40.5	10	µg/L	50.0		80.9	40-140	2.17	20		
Fluoranthene	40.3	5.0	µg/L	50.0		80.6	40-140	4.77	20		
Fluorene	38.0	5.0	µg/L	50.0		76.1	40-140	0.550	20		
Hexachlorobenzene	38.0	10	µg/L	50.0		76.1	40-140	3.83	20		
Hexachlorobutadiene	32.6	10	µg/L	50.0		65.2	40-140	2.51	20		
Hexachlorocyclopentadiene	29.2	10	µg/L	50.0		58.3	30-140	0.854	50		
Hexachloroethane	32.0	10	µg/L	50.0		64.0	40-140	1.83	50		
Indeno(1,2,3-cd)pyrene	51.6	5.0	µg/L	50.0		103	40-140	0.485	50		
Isophorone	41.2	10	µg/L	50.0		82.3	40-140	0.560	20		
2-Methylnaphthalene	39.9	5.0	µg/L	50.0		79.9	40-140	2.41	20		
2-Methylphenol	34.8	10	µg/L	50.0		69.6	30-130	3.01	20		
3/4-Methylphenol	34.3	10	µg/L	50.0		68.6	30-130	3.92	20		
Naphthalene	34.8	5.0	µg/L	50.0		69.7	40-140	1.07	20		
2-Nitroaniline	48.6	10	µg/L	50.0		97.1	40-140	1.56	20		
3-Nitroaniline	41.0	10	µg/L	50.0		82.1	40-140	2.79	20	V-34	†
4-Nitroaniline	45.4	10	µg/L	50.0		90.9	40-140	4.39	20		
Nitrobenzene	36.4	10	µg/L	50.0		72.8	40-140	1.08	20		
2-Nitrophenol	38.8	10	µg/L	50.0		77.6	30-130	1.13	20		
4-Nitrophenol	24.4	10	µg/L	50.0		48.9	10-130	4.09	50		‡
N-Nitrosodiphenylamine/Diphenylamine	39.1	10	µg/L	50.0		78.3	40-140	3.70	20		
N-Nitrosodi-n-propylamine	38.9	10	µg/L	50.0		77.8	40-140	1.95	20		
Pentachloronitrobenzene	41.5	10	µg/L	50.0		83.0	40-140	3.11	20	V-16	
Pentachlorophenol	37.4	10	µg/L	50.0		74.8	30-130	2.66	50		
Phenanthrene	38.8	5.0	µg/L	50.0		77.5	40-140	2.14	20		
Phenol	18.7	10	µg/L	50.0		37.4	20-130	5.04	20		
Pyrene	39.8	5.0	µg/L	50.0		79.7	40-140	0.857	20		
Pyridine	13.0	5.0	µg/L	50.0		25.9	10-140	4.45	50		†
1,2,4,5-Tetrachlorobenzene	34.3	10	µg/L	50.0		68.6	40-140	2.12	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B237057 - SW-846 3510C										
LCS Dup (B237057-BSD1)				Prepared: 08/02/19 Analyzed: 08/05/19						
1,2,4-Trichlorobenzene	33.0	5.0	µg/L	50.0		65.9	40-140	1.25	20	
2,4,5-Trichlorophenol	38.3	10	µg/L	50.0		76.5	30-130	2.19	20	
2,4,6-Trichlorophenol	38.0	10	µg/L	50.0		76.1	30-130	1.27	50	
Surrogate: 2-Fluorophenol	*99.8*		µg/L	200		49.9	15-110			
Surrogate: Phenol-d6	*76.5*		µg/L	200		38.2	15-110			
Surrogate: Nitrobenzene-d5	*74.9*		µg/L	100		74.9	30-130			
Surrogate: 2-Fluorobiphenyl	*77.9*		µg/L	100		77.9	30-130			
Surrogate: 2,4,6-Tribromophenol	*166*		µg/L	200		83.2	15-110			
Surrogate: p-Terphenyl-d14	*85.4*		µg/L	100		85.4	30-130			
Matrix Spike (B237057-MS1)	**Source: 19G1720-03**			Prepared: 08/02/19 Analyzed: 08/05/19						
Acenaphthene	37.4	5.1	µg/L	51.0	ND	73.3	40-140			
Acenaphthylene	37.5	5.1	µg/L	51.0	ND	73.5	40-140			
Aniline	35.9	5.1	µg/L	51.0	ND	70.3	40-140			V-34
Anthracene	37.8	5.1	µg/L	51.0	ND	74.0	40-140			
Benzo(a)anthracene	38.1	5.1	µg/L	51.0	ND	74.7	40-140			
Benzo(a)pyrene	40.4	5.1	µg/L	51.0	ND	79.2	40-140			
Benzo(b)fluoranthene	39.2	5.1	µg/L	51.0	ND	76.7	40-140			
Benzo(g,h,i)perylene	38.8	5.1	µg/L	51.0	ND	76.0	40-140			
Benzo(k)fluoranthene	39.1	5.1	µg/L	51.0	ND	76.5	40-140			
Bis(2-chloroethoxy)methane	41.0	10	µg/L	51.0	ND	80.4	40-140			
Bis(2-chloroethyl)ether	34.8	10	µg/L	51.0	ND	68.2	40-140			
Bis(2-chloroisopropyl)ether	42.0	10	µg/L	51.0	ND	82.3	40-140			
Bis(2-Ethylhexyl)phthalate	38.3	10	µg/L	51.0	ND	75.0	40-140			
4-Bromophenylphenylether	37.0	10	µg/L	51.0	ND	72.5	40-140			
Butylbenzylphthalate	38.3	10	µg/L	51.0	ND	75.0	40-140			
Carbazole	38.7	10	µg/L	51.0	ND	75.9	40-140			
4-Chloroaniline	35.7	10	µg/L	51.0	ND	70.0	40-140			V-34
4-Chloro-3-methylphenol	39.5	10	µg/L	51.0	ND	77.5	30-130			
2-Chloronaphthalene	32.6	10	µg/L	51.0	ND	63.8	40-140			
2-Chlorophenol	33.4	10	µg/L	51.0	ND	65.4	30-130			
4-Chlorophenylphenylether	38.1	10	µg/L	51.0	ND	74.7	40-140			
Chrysene	37.6	5.1	µg/L	51.0	ND	73.6	40-140			
Dibenz(a,h)anthracene	41.5	5.1	µg/L	51.0	ND	81.3	40-140			
Dibenzofuran	38.3	5.1	µg/L	51.0	ND	75.1	40-140			
Di-n-butylphthalate	38.2	10	µg/L	51.0	ND	74.9	40-140			
3,3-Dichlorobenzidine	36.1	10	µg/L	51.0	ND	70.7	40-140			V-34
2,4-Dichlorophenol	37.8	10	µg/L	51.0	ND	74.0	30-130			
Diethylphthalate	38.0	10	µg/L	51.0	ND	74.5	40-140			
2,4-Dimethylphenol	35.8	10	µg/L	51.0	ND	70.1	30-130			
Dimethylphthalate	37.9	10	µg/L	51.0	ND	74.2	40-140			
4,6-Dinitro-2-methylphenol	34.4	10	µg/L	51.0	ND	67.4	30-130			
2,4-Dinitrophenol	35.2	10	µg/L	51.0	ND	69.0	30-130			
2,4-Dinitrotoluene	41.9	10	µg/L	51.0	ND	82.0	40-140			
2,6-Dinitrotoluene	42.6	10	µg/L	51.0	ND	83.5	40-140			
Di-n-octylphthalate	41.3	10	µg/L	51.0	ND	81.0	40-140			
Fluoranthene	38.8	5.1	µg/L	51.0	ND	76.0	40-140			
Fluorene	38.0	5.1	µg/L	51.0	ND	74.5	40-140			
Hexachlorobenzene	37.2	10	µg/L	51.0	ND	72.8	40-140			
Hexachlorobutadiene	32.2	10	µg/L	51.0	ND	63.2	40-140			
Hexachlorocyclopentadiene	28.4	10	µg/L	51.0	ND	55.6	40-140			
Hexachloroethane	28.5	10	µg/L	51.0	ND	55.8	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 B237057 - SW-846 3510C											
Matrix Spike (B237057-MS1)	**Source: 19G1720-03**			Prepared: 08/02/19 Analyzed: 08/05/19							
Indeno(1,2,3-cd)pyrene	45.5	5.1	µg/L	51.0	ND	89.2		40-140			
Isophorone	41.0	10	µg/L	51.0	ND	80.3		40-140			
2-Methylnaphthalene	40.1	5.1	µg/L	51.0	ND	78.7		40-140			
2-Methylphenol	34.1	10	µg/L	51.0	ND	66.8		30-130			
3/4-Methylphenol	33.3	10	µg/L	51.0	ND	65.2		30-130			
Naphthalene	34.9	5.1	µg/L	51.0	ND	68.3		40-140			
2-Nitroaniline	48.6	10	µg/L	51.0	ND	95.3		40-140			
3-Nitroaniline	37.9	10	µg/L	51.0	ND	74.2		40-140			V-34
4-Nitroaniline	41.2	10	µg/L	51.0	ND	80.7		40-140			
Nitrobenzene	35.6	10	µg/L	51.0	ND	69.8		40-140			
2-Nitrophenol	38.3	10	µg/L	51.0	ND	75.1		30-130			
4-Nitrophenol	24.1	10	µg/L	51.0	ND	47.2		30-130			
N-Nitrosodiphenylamine/Diphenylamine	38.0	10	µg/L	51.0	ND	74.5		40-140			
N-Nitrosodi-n-propylamine	39.3	10	µg/L	51.0	ND	77.0		40-140			
Pentachloronitrobenzene	39.3	10	µg/L	51.0	ND	77.0		40-140			V-16
Pentachlorophenol	38.6	10	µg/L	51.0	ND	75.6		30-130			
Phenanthrene	38.0	5.1	µg/L	51.0	ND	74.5		40-140			
Phenol	17.4	10	µg/L	51.0	ND	34.1		30-130			
Pyrene	37.9	5.1	µg/L	51.0	ND	74.3		40-140			
Pyridine	16.0	5.1	µg/L	51.0	ND	**31.4**	*	40-140			MS-09
1,2,4,5-Tetrachlorobenzene	35.1	10	µg/L	51.0	ND	68.7		40-140			
1,2,4-Trichlorobenzene	32.1	5.1	µg/L	51.0	ND	62.9		40-140			
2,4,5-Trichlorophenol	37.1	10	µg/L	51.0	ND	72.7		30-130			
2,4,6-Trichlorophenol	39.4	10	µg/L	51.0	ND	77.3		30-130			
Surrogate: 2-Fluorophenol	*89.0*		µg/L	204		43.6		15-110			
Surrogate: Phenol-d6	*70.8*		µg/L	204		34.7		15-110			
Surrogate: Nitrobenzene-d5	*72.5*		µg/L	102		71.1		30-130			
Surrogate: 2-Fluorobiphenyl	*79.2*		µg/L	102		77.6		30-130			
Surrogate: 2,4,6-Tribromophenol	*163*		µg/L	204		80.0		15-110			
Surrogate: p-Terphenyl-d14	*81.4*		µg/L	102		79.8		30-130			
Matrix Spike Dup (B237057-MSD1)	**Source: 19G1720-03**			Prepared: 08/02/19 Analyzed: 08/05/19							
Acenaphthene	40.7	5.1	µg/L	51.0	ND	79.7		40-140	8.37	30	
Acenaphthylene	40.5	5.1	µg/L	51.0	ND	79.4		40-140	7.77	30	
Aniline	41.4	5.1	µg/L	51.0	ND	81.2		40-140	14.4	30	V-34
Anthracene	41.6	5.1	µg/L	51.0	ND	81.6		40-140	9.77	30	
Benzo(a)anthracene	41.4	5.1	µg/L	51.0	ND	81.2		40-140	8.34	30	
Benzo(a)pyrene	43.8	5.1	µg/L	51.0	ND	85.9		40-140	8.04	30	
Benzo(b)fluoranthene	41.6	5.1	µg/L	51.0	ND	81.6		40-140	6.16	30	
Benzo(g,h,i)perylene	41.8	5.1	µg/L	51.0	ND	81.9		40-140	7.50	30	
Benzo(k)fluoranthene	41.6	5.1	µg/L	51.0	ND	81.4		40-140	6.20	30	
Bis(2-chloroethoxy)methane	44.6	10	µg/L	51.0	ND	87.5		40-140	8.41	30	
Bis(2-chloroethyl)ether	43.5	10	µg/L	51.0	ND	85.3		40-140	22.2	30	
Bis(2-chloroisopropyl)ether	51.3	10	µg/L	51.0	ND	101		40-140	19.9	30	
Bis(2-Ethylhexyl)phthalate	41.1	10	µg/L	51.0	ND	80.5		40-140	7.10	30	
4-Bromophenylphenylether	40.9	10	µg/L	51.0	ND	80.1		40-140	9.96	30	
Butylbenzylphthalate	42.1	10	µg/L	51.0	ND	82.5		40-140	9.47	30	
Carbazole	42.5	10	µg/L	51.0	ND	83.2		40-140	9.25	30	
4-Chloroaniline	40.0	10	µg/L	51.0	ND	78.4		40-140	11.4	30	V-34
4-Chloro-3-methylphenol	44.2	10	µg/L	51.0	ND	86.7		30-130	11.3	30	
2-Chloronaphthalene	35.6	10	µg/L	51.0	ND	69.7		40-140	8.84	30	
2-Chlorophenol	40.7	10	µg/L	51.0	ND	79.7		30-130	19.7	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 B237057 - SW-846 3510C											
Matrix Spike Dup (B237057-MSD1)	**Source: 19G1720-03**			Prepared: 08/02/19 Analyzed: 08/05/19							
4-Chlorophenylphenylether	41.1	10	µg/L	51.0	ND	80.6		40-140	7.62	30	
Chrysene	40.6	5.1	µg/L	51.0	ND	79.6		40-140	7.78	30	
Dibenz(a,h)anthracene	44.5	5.1	µg/L	51.0	ND	87.2		40-140	7.07	30	
Dibenzofuran	41.9	5.1	µg/L	51.0	ND	82.0		40-140	8.78	30	
Di-n-butylphthalate	41.4	10	µg/L	51.0	ND	81.2		40-140	8.07	30	
3,3-Dichlorobenzidine	34.1	10	µg/L	51.0	ND	66.8		40-140	5.56	30	V-34
2,4-Dichlorophenol	45.1	10	µg/L	51.0	ND	88.3		30-130	17.6	30	
Diethylphthalate	41.2	10	µg/L	51.0	ND	80.8		40-140	8.06	30	
2,4-Dimethylphenol	40.8	10	µg/L	51.0	ND	80.0		30-130	13.2	30	
Dimethylphthalate	40.5	10	µg/L	51.0	ND	79.3		40-140	6.64	30	
4,6-Dinitro-2-methylphenol	38.7	10	µg/L	51.0	ND	75.9		30-130	11.9	30	
2,4-Dinitrophenol	39.8	10	µg/L	51.0	ND	78.0		30-130	12.3	30	
2,4-Dinitrotoluene	44.0	10	µg/L	51.0	ND	86.2		40-140	4.97	30	
2,6-Dinitrotoluene	45.3	10	µg/L	51.0	ND	88.7		40-140	6.09	30	
Di-n-octylphthalate	44.5	10	µg/L	51.0	ND	87.2		40-140	7.38	30	
Fluoranthene	42.4	5.1	µg/L	51.0	ND	83.1		40-140	8.93	30	
Fluorene	41.4	5.1	µg/L	51.0	ND	81.2		40-140	8.60	30	
Hexachlorobenzene	41.0	10	µg/L	51.0	ND	80.3		40-140	9.75	30	
Hexachlorobutadiene	38.4	10	µg/L	51.0	ND	75.3		40-140	17.5	30	
Hexachlorocyclopentadiene	32.4	10	µg/L	51.0	ND	63.5		40-140	13.2	30	
Hexachloroethane	38.4	10	µg/L	51.0	ND	75.2		40-140	29.6	30	
Indeno(1,2,3-cd)pyrene	48.9	5.1	µg/L	51.0	ND	95.8		40-140	7.14	30	
Isophorone	44.8	10	µg/L	51.0	ND	87.8		40-140	8.97	30	
2-Methylnaphthalene	44.6	5.1	µg/L	51.0	ND	87.4		40-140	10.5	30	
2-Methylphenol	39.2	10	µg/L	51.0	ND	76.9		30-130	14.1	30	
3/4-Methylphenol	39.2	10	µg/L	51.0	ND	76.8		30-130	16.4	30	
Naphthalene	39.9	5.1	µg/L	51.0	ND	78.2		40-140	13.5	30	
2-Nitroaniline	51.6	10	µg/L	51.0	ND	101		40-140	5.90	30	
3-Nitroaniline	38.8	10	µg/L	51.0	ND	76.1		40-140	2.55	30	V-34
4-Nitroaniline	46.2	10	µg/L	51.0	ND	90.5		40-140	11.4	30	
Nitrobenzene	40.8	10	µg/L	51.0	ND	80.0		40-140	13.7	30	
2-Nitrophenol	43.7	10	µg/L	51.0	ND	85.7		30-130	13.2	30	
4-Nitrophenol	26.2	10	µg/L	51.0	ND	51.3		30-130	8.29	30	
N-Nitrosodiphenylamine/Diphenylamine	42.0	10	µg/L	51.0	ND	82.3		40-140	9.87	30	
N-Nitrosodi-n-propylamine	44.3	10	µg/L	51.0	ND	86.8		40-140	12.0	30	
Pentachloronitrobenzene	43.9	10	µg/L	51.0	ND	86.0		40-140	11.0	30	V-16
Pentachlorophenol	42.2	10	µg/L	51.0	ND	82.7		30-130	9.05	30	
Phenanthrene	41.6	5.1	µg/L	51.0	ND	81.5		40-140	9.00	30	
Phenol	19.9	10	µg/L	51.0	ND	38.9		30-130	13.3	30	
Pyrene	40.9	5.1	µg/L	51.0	ND	80.1		40-140	7.62	30	
Pyridine	16.7	5.1	µg/L	51.0	ND	**32.8**	*	40-140	4.18	30	MS-09
1,2,4,5-Tetrachlorobenzene	38.3	10	µg/L	51.0	ND	75.0		40-140	8.79	30	
1,2,4-Trichlorobenzene	38.3	5.1	µg/L	51.0	ND	75.1		40-140	17.6	30	
2,4,5-Trichlorophenol	41.1	10	µg/L	51.0	ND	80.6		30-130	10.3	30	
2,4,6-Trichlorophenol	41.6	10	µg/L	51.0	ND	81.6		30-130	5.41	30	
Surrogate: 2-Fluorophenol	*109*		µg/L	204		53.6		15-110			
Surrogate: Phenol-d6	*82.7*		µg/L	204		40.5		15-110			
Surrogate: Nitrobenzene-d5	*85.0*		µg/L	102		83.3		30-130			
Surrogate: 2-Fluorobiphenyl	*85.9*		µg/L	102		84.2		30-130			
Surrogate: 2,4,6-Tribromophenol	*179*		µg/L	204		87.8		15-110			
Surrogate: p-Terphenyl-d14	*87.7*		µg/L	102		85.9		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 B237223 - SW-846 3510C										
Blank (B237223-BLK1)				Prepared: 08/05/19 Analyzed: 08/06/19						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (SIM)	*71.1*		µg/L	100		71.1	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*53.9*		µg/L	100		53.9	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	*64.9*		µg/L	100		64.9	30-130			
LCS (B237223-BS1)				Prepared: 08/05/19 Analyzed: 08/06/19						
Acenaphthene (SIM)	35.2	6.0	µg/L	50.0		70.5	40-140			
Acenaphthylene (SIM)	35.9	4.0	µg/L	50.0		71.9	40-140			
Anthracene (SIM)	38.9	4.0	µg/L	50.0		77.7	40-140			
Benzo(a)anthracene (SIM)	37.3	1.0	µg/L	50.0		74.6	40-140			
Benzo(a)pyrene (SIM)	41.4	2.0	µg/L	50.0		82.8	40-140			
Benzo(b)fluoranthene (SIM)	41.3	1.0	µg/L	50.0		82.6	40-140			
Benzo(g,h,i)perylene (SIM)	39.8	10	µg/L	50.0		79.5	40-140			
Benzo(k)fluoranthene (SIM)	42.8	4.0	µg/L	50.0		85.6	40-140			
Chrysene (SIM)	38.2	4.0	µg/L	50.0		76.4	40-140			
Dibenz(a,h)anthracene (SIM)	41.2	2.0	µg/L	50.0		82.4	40-140			
Fluoranthene (SIM)	39.1	10	µg/L	50.0		78.3	40-140			
Fluorene (SIM)	37.5	20	µg/L	50.0		74.9	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	41.4	2.0	µg/L	50.0		82.7	40-140			
2-Methylnaphthalene (SIM)	34.8	20	µg/L	50.0		69.6	40-140			
Naphthalene (SIM)	33.0	20	µg/L	50.0		66.1	40-140			
Phenanthrene (SIM)	37.5	1.0	µg/L	50.0		75.0	40-140			
Pyrene (SIM)	36.3	20	µg/L	50.0		72.6	40-140			
Surrogate: Nitrobenzene-d5 (SIM)	*69.6*		µg/L	100		69.6	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*59.7*		µg/L	100		59.7	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	*62.0*		µg/L	100		62.0	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 B237223 - SW-846 3510C										
LCS Dup (B237223-BSD1)				Prepared: 08/05/19 Analyzed: 08/06/19						
Acenaphthene (SIM)	34.3	6.0	µg/L	50.0		68.6	40-140	2.70	20	
Acenaphthylene (SIM)	35.0	4.0	µg/L	50.0		69.9	40-140	2.76	20	
Anthracene (SIM)	37.7	4.0	µg/L	50.0		75.5	40-140	2.92	20	
Benzo(a)anthracene (SIM)	36.5	1.0	µg/L	50.0		73.0	40-140	2.22	20	
Benzo(a)pyrene (SIM)	40.5	2.0	µg/L	50.0		80.9	40-140	2.34	20	
Benzo(b)fluoranthene (SIM)	40.7	1.0	µg/L	50.0		81.4	40-140	1.56	20	
Benzo(g,h,i)perylene (SIM)	38.7	10	µg/L	50.0		77.3	40-140	2.81	20	
Benzo(k)fluoranthene (SIM)	41.2	4.0	µg/L	50.0		82.5	40-140	3.76	20	
Chrysene (SIM)	37.2	4.0	µg/L	50.0		74.4	40-140	2.65	20	
Dibenz(a,h)anthracene (SIM)	40.1	2.0	µg/L	50.0		80.1	40-140	2.85	20	
Fluoranthene (SIM)	38.2	10	µg/L	50.0		76.4	40-140	2.43	20	
Fluorene (SIM)	36.4	20	µg/L	50.0		72.9	40-140	2.76	20	
Indeno(1,2,3-cd)pyrene (SIM)	40.2	2.0	µg/L	50.0		80.5	40-140	2.75	20	‡
2-Methylnaphthalene (SIM)	33.6	20	µg/L	50.0		67.2	40-140	3.45	20	
Naphthalene (SIM)	31.2	20	µg/L	50.0		62.4	40-140	5.66	20	
Phenanthrene (SIM)	36.2	1.0	µg/L	50.0		72.4	40-140	3.42	20	
Pyrene (SIM)	35.4	20	µg/L	50.0		70.7	40-140	2.68	20	
Surrogate: Nitrobenzene-d5 (SIM)	*65.2*		µg/L	100		65.2	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*56.9*		µg/L	100		56.9	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	*59.4*		µg/L	100		59.4	30-130			
Matrix Spike (B237223-MS1)		**Source: 19G1720-03**		Prepared: 08/05/19 Analyzed: 08/07/19						
Acenaphthene (SIM)	41.4	6.0	µg/L	50.0	ND	82.7	40-140			
Acenaphthylene (SIM)	41.2	4.0	µg/L	50.0	ND	82.4	40-140			
Anthracene (SIM)	43.7	4.0	µg/L	50.0	ND	87.4	40-140			
Benzo(a)anthracene (SIM)	42.9	1.0	µg/L	50.0	ND	85.8	40-140			
Benzo(a)pyrene (SIM)	48.6	2.0	µg/L	50.0	ND	97.2	40-140			
Benzo(b)fluoranthene (SIM)	47.4	1.0	µg/L	50.0	ND	94.8	40-140			
Benzo(g,h,i)perylene (SIM)	45.0	10	µg/L	50.0	ND	89.9	40-140			
Benzo(k)fluoranthene (SIM)	48.9	4.0	µg/L	50.0	ND	97.9	40-140			
Chrysene (SIM)	43.6	4.0	µg/L	50.0	ND	87.2	40-140			
Dibenz(a,h)anthracene (SIM)	47.3	2.0	µg/L	50.0	ND	94.6	40-140			
Fluoranthene (SIM)	44.3	10	µg/L	50.0	ND	88.7	40-140			
Fluorene (SIM)	43.6	20	µg/L	50.0	ND	87.3	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	48.2	2.0	µg/L	50.0	ND	96.3	40-140			
2-Methylnaphthalene (SIM)	40.8	20	µg/L	50.0	ND	81.5	40-140			
Naphthalene (SIM)	37.8	20	µg/L	50.0	ND	75.7	40-140			
Phenanthrene (SIM)	43.2	1.0	µg/L	50.0	ND	86.3	40-140			
Pyrene (SIM)	43.3	20	µg/L	50.0	ND	86.5	40-140			
Surrogate: Nitrobenzene-d5 (SIM)	*79.4*		µg/L	100		79.4	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*69.5*		µg/L	100		69.5	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	*71.5*		µg/L	100		71.5	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 B237223 - SW-846 3510C										
Matrix Spike Dup (B237223-MSD1)	**Source: 19G1720-03**			Prepared: 08/05/19 Analyzed: 08/07/19						
Acenaphthene (SIM)	39.0	6.0	µg/L	50.0	ND	78.0	40-140	5.82	30	
Acenaphthylene (SIM)	38.7	4.0	µg/L	50.0	ND	77.4	40-140	6.26	30	
Anthracene (SIM)	41.4	4.0	µg/L	50.0	ND	82.8	40-140	5.45	30	
Benzo(a)anthracene (SIM)	39.9	1.0	µg/L	50.0	ND	79.9	40-140	7.19	30	
Benzo(a)pyrene (SIM)	45.2	2.0	µg/L	50.0	ND	90.4	40-140	7.21	30	
Benzo(b)fluoranthene (SIM)	44.4	1.0	µg/L	50.0	ND	88.8	40-140	6.49	30	
Benzo(g,h,i)perylene (SIM)	41.6	10	µg/L	50.0	ND	83.2	40-140	7.72	30	
Benzo(k)fluoranthene (SIM)	46.0	4.0	µg/L	50.0	ND	92.0	40-140	6.24	30	
Chrysene (SIM)	40.8	4.0	µg/L	50.0	ND	81.6	40-140	6.64	30	
Dibenz(a,h)anthracene (SIM)	43.7	2.0	µg/L	50.0	ND	87.4	40-140	7.87	30	
Fluoranthene (SIM)	41.5	10	µg/L	50.0	ND	82.9	40-140	6.71	30	
Fluorene (SIM)	41.0	20	µg/L	50.0	ND	82.0	40-140	6.24	30	
Indeno(1,2,3-cd)pyrene (SIM)	44.4	2.0	µg/L	50.0	ND	88.9	40-140	8.03	30	
2-Methylnaphthalene (SIM)	39.0	20	µg/L	50.0	ND	78.0	40-140	4.41	30	
Naphthalene (SIM)	37.2	20	µg/L	50.0	ND	74.4	40-140	1.65	30	
Phenanthrene (SIM)	40.8	1.0	µg/L	50.0	ND	81.6	40-140	5.57	30	
Pyrene (SIM)	40.5	20	µg/L	50.0	ND	80.9	40-140	6.69	30	
Surrogate: Nitrobenzene-d5 (SIM)	*78.9*		µg/L	100		78.9	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*65.2*		µg/L	100		65.2	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	*66.1*		µg/L	100		66.1	30-130			

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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 B237016 - SW-846 3510C										
Blank (B237016-BLK1)				Prepared: 08/01/19 Analyzed: 08/04/19						
CT ETPH	ND	0.15	mg/L							
Surrogate: 2-Fluorobiphenyl	*0.0987*		mg/L	0.100		98.7	50-150			
LCS (B237016-BS1)				Prepared: 08/01/19 Analyzed: 08/04/19						
CT ETPH	0.701	0.15	mg/L	1.00		70.1	60-120			
Surrogate: 2-Fluorobiphenyl	*0.106*		mg/L	0.100		106	50-150			
LCS Dup (B237016-BSD1)				Prepared: 08/01/19 Analyzed: 08/04/19						
CT ETPH	0.666	0.15	mg/L	1.00		66.6	60-120	5.11	30	
Surrogate: 2-Fluorobiphenyl	*0.0938*		mg/L	0.100		93.8	50-150			
Matrix Spike (B237016-MS1)	**Source: 19G1720-03**			Prepared: 08/01/19 Analyzed: 08/04/19						
CT ETPH	0.741	0.15	mg/L	1.00	0.164	57.7	50-150			
Surrogate: 2-Fluorobiphenyl	*0.0829*		mg/L	0.100		82.9	50-150			
Matrix Spike Dup (B237016-MSD1)	**Source: 19G1720-03**			Prepared: 08/01/19 Analyzed: 08/04/19						
CT ETPH	0.733	0.15	mg/L	1.00	0.164	56.9	50-150	1.04	30	
Surrogate: 2-Fluorobiphenyl	*0.0800*		mg/L	0.100		80.0	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 B237196 - SW-846 3005A										
Blank (B237196-BLK1)				Prepared: 08/05/19 Analyzed: 08/06/19						
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.80	µg/L							
Barium	ND	10	µg/L							
Beryllium	ND	0.40	µg/L							
Cadmium	ND	0.20	µg/L							
Chromium	ND	1.0	µg/L							
Copper	ND	1.0	µg/L							
Lead	ND	0.50	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.20	µg/L							
Thallium	ND	0.20	µg/L							
Vanadium	ND	5.0	µg/L							
Zinc	ND	10	µg/L							
LCS (B237196-BS1)				Prepared: 08/05/19 Analyzed: 08/06/19						
Antimony	527	10	µg/L	500		105	80-120			
Arsenic	527	8.0	µg/L	500		105	80-120			
Barium	510	100	µg/L	500		102	80-120			
Beryllium	516	4.0	µg/L	500		103	80-120			
Cadmium	516	2.0	µg/L	500		103	80-120			
Chromium	518	10	µg/L	500		104	80-120			
Copper	1040	10	µg/L	1000		104	80-120			
Lead	520	5.0	µg/L	500		104	80-120			
Nickel	524	50	µg/L	500		105	80-120			
Selenium	530	50	µg/L	500		106	80-120			
Silver	510	2.0	µg/L	500		102	80-120			
Thallium	502	2.0	µg/L	500		100	80-120			
Vanadium	515	50	µg/L	500		103	80-120			
Zinc	1050	100	µg/L	1000		105	80-120			
LCS Dup (B237196-BSD1)				Prepared: 08/05/19 Analyzed: 08/06/19						
Antimony	537	10	µg/L	500		107	80-120	1.90	20	
Arsenic	536	8.0	µg/L	500		107	80-120	1.68	20	
Barium	523	100	µg/L	500		105	80-120	2.36	20	
Beryllium	514	4.0	µg/L	500		103	80-120	0.490	20	
Cadmium	529	2.0	µg/L	500		106	80-120	2.42	20	
Chromium	525	10	µg/L	500		105	80-120	1.50	20	
Copper	1050	10	µg/L	1000		105	80-120	0.908	20	
Lead	526	5.0	µg/L	500		105	80-120	1.33	20	
Nickel	529	50	µg/L	500		106	80-120	1.04	20	
Selenium	538	50	µg/L	500		108	80-120	1.44	20	
Silver	521	2.0	µg/L	500		104	80-120	2.09	20	
Thallium	508	2.0	µg/L	500		102	80-120	1.25	20	
Vanadium	525	50	µg/L	500		105	80-120	1.87	20	
Zinc	1070	100	µg/L	1000		107	80-120	1.53	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 B237196 - SW-846 3005A										
Matrix Spike (B237196-MS1)	**Source: 19G1720-03**			Prepared: 08/05/19 Analyzed: 08/06/19						
Antimony	546	10	µg/L	500	ND	109	75-125			
Arsenic	548	8.0	µg/L	500	ND	110	75-125			
Barium	920	100	µg/L	500	377	109	75-125			
Beryllium	527	4.0	µg/L	500	ND	105	75-125			
Cadmium	523	2.0	µg/L	500	ND	105	75-125			
Chromium	533	10	µg/L	500	ND	107	75-125			
Copper	1030	10	µg/L	1000	ND	103	75-125			
Lead	547	5.0	µg/L	500	ND	109	75-125			
Nickel	536	50	µg/L	500	8.56	105	75-125			
Selenium	547	50	µg/L	500	ND	109	75-125			
Silver	482	2.0	µg/L	500	ND	96.3	75-125			
Thallium	537	2.0	µg/L	500	ND	107	75-125			
Vanadium	544	50	µg/L	500	ND	109	75-125			
Zinc	1050	100	µg/L	1000	ND	105	75-125			
Matrix Spike Dup (B237196-MSD1)	**Source: 19G1720-03**			Prepared: 08/05/19 Analyzed: 08/06/19						
Antimony	545	10	µg/L	500	ND	109	75-125	0.154	20	
Arsenic	546	8.0	µg/L	500	ND	109	75-125	0.320	20	
Barium	927	100	µg/L	500	377	110	75-125	0.790	20	
Beryllium	531	4.0	µg/L	500	ND	106	75-125	0.621	20	
Cadmium	523	2.0	µg/L	500	ND	105	75-125	0.0760	20	
Chromium	531	10	µg/L	500	ND	106	75-125	0.383	20	
Copper	1030	10	µg/L	1000	ND	103	75-125	0.383	20	
Lead	547	5.0	µg/L	500	ND	109	75-125	0.00198	20	
Nickel	533	50	µg/L	500	8.56	105	75-125	0.591	20	
Selenium	540	50	µg/L	500	ND	108	75-125	1.23	20	
Silver	491	2.0	µg/L	500	ND	98.1	75-125	1.84	20	
Thallium	538	2.0	µg/L	500	ND	108	75-125	0.126	20	
Vanadium	540	50	µg/L	500	ND	108	75-125	0.736	20	
Zinc	1050	100	µg/L	1000	ND	105	75-125	0.0404	20	
Batch B237304 - SW-846 7470A Prep										
Blank (B237304-BLK1)				Prepared & Analyzed: 08/06/19						
Mercury	ND	0.00010	mg/L							
LCS (B237304-BS1)				Prepared & Analyzed: 08/06/19						
Mercury	0.00396	0.00010	mg/L	0.00400		99.1	80-120			
LCS Dup (B237304-BSD1)				Prepared & Analyzed: 08/06/19						
Mercury	0.00408	0.00010	mg/L	0.00400		102	80-120	2.83	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 B237304 - SW-846 7470A Prep										
Matrix Spike (B237304-MS1)		**Source: 19G1720-03**		Prepared & Analyzed: 08/06/19						
Mercury	0.00385	0.00010	mg/L	0.00400	ND	96.2	75-125			
Matrix Spike Dup (B237304-MSD1)		**Source: 19G1720-03**		Prepared & Analyzed: 08/06/19						
Mercury	0.00378	0.00010	mg/L	0.00400	ND	94.4	75-125	1.89	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.
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-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.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6020B in Water	
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,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	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
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
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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
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
SW-846 8270D in Soil	
Aniline	NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenol	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Aniline	CT,NY
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenol	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

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RJM 19G17dc

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con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: Apex Companies LLC
Address: 58 H Connecticut Ave South Windsor
Phone: 860-282-1700
Project Name: EE-Wethersfield
Project Location: Wethersfield, CT
Project Number: 6089-015
Project Manager: Donna Kask
Con-Test Quote Name/Number: 6089-015
Invoice Recipient: Apex Companies LLC
Sampled By: M. Ladny

Required Turn Around Time: 7-Day ☑ 10-Day ☐ PFAS 10-Day (std) ☐ Due Date:

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

Dissolved Metals Samples: ☑ Field Filtered ○ Lab to Filter

Other Dissolved Metals Samples: ○ Field Filtered ○ Lab to Filter

Data Delivery: Format: PDF ☑ EXCEL ☐ Other:
CLP Like Data Pkg Required: ☐
Email To: dkask@apexcos.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	H VOC's 8260	I ETPH	I SVOC's	N Total RSR metals + Mercury	N Dissolved RSR metals
1	TB20190730	7/30/19	7:45	—	O	C	3					X				
2	AP-9R	7/30/19	9:05	G	GW	U	3	6				X	X	X	X	~~X~~
3	AP-3R MS/MSD	7/30/19	10:30	G	GW	U	9	8				X	X	X	X	
4	AP-4R	7/30/19	1:00	G	GW	U	3	6				X	X	X	X	
5	AP-2R	7/30/19	2:35	G	GW	U	3	6				X	X	X	X	
6	AP-101R	7/30/19	4:00	G	GW	U	3	6				X	X	X	X	
7	AP-12R	7/30/19	4:30	G	GW	U	3	1				X			X	

[2] Preservation Code

Courier Use Only
Total Number Of:
VIALS 24
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? (Y) N
Glassware in freezer? Y / (N)
Prepackaged Cooler? Y / (N)

*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) Trip Blank

[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)

Relinquished by: (signature)	Date/Time:
[signature]	7/30/19 5:30
Received by: (signature)	Date/Time:
Sandy Fridge	7/30/19 5:30
Relinquished by: (signature)	Date/Time:
[signature]	7/31/19 1555
Received by: (signature)	Date/Time:
Tom Marie	7/31/19 1355
Relinquished by: (signature)	Date/Time:
Tom Marie	7/31/19 1735
Received by: (signature)	Date/Time:
[signature] 5.2,3.2	7/31/19 1731
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments: *please HOLD dissolved metals*

Detection Limit Requirements: MA; CT; Other

CT RSR GA, SWPC, RVC + I/C VC

Special Requirements:
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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

NELAC and AIHA-LAP, LLC Accredited

Project Entity: Government ☐ Federal ☐ City ☐ Municipality ☐ 21 J ☐ Brownfield ☐ MWRA ☐ School ☐ MBTA ☐ WRTA ☐

Other: ☐ Chromatogram ☐ AIHA-LAP,LLC

PCB ONLY: ☐ Soxhlet ☐ Non Soxhlet

Comments:

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. T Chain of Custody is a legal document that must be complete and accurate and is used to determine w analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. (Test values your partnership on each project and will try to assist with missing information, but will nc held accountable.

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client APEX

Received By SL Date 7/31/19 Time 1725

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 4 Actual Temp -5.2, 3.2

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

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

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 ICL Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	28	1 Liter Plastic		16 oz Amb.	
HCL-	27	500 mL Amb.	15	500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

C:\MSDCHEM\4\DATA\D080419\D0804006.D

CT ETPH DISCRIMINATION CHECK

Data File Name	D0804006.D
Data File Path	C:\MSDCHEM\4\DATA\D080419\
Operator	RMW
Date Acquired	8/4/2019 15:21
Acq. Method File	EPH11D.M
Sample Name	ETPH 1500
Instrument Name	GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.50	8594871	9453838	9
C-10	2.19	8810900	9453838	7
C-12	3.15	9087449	9453838	4
C-14	3.87	9357144	9453838	1
C-16	4.48	9472783	9453838	0
C-18	5.03	9333603	9453838	1
C-20	5.62	9669068	9453838	-2
C-22	6.35	9895305	9453838	-5
C-24	7.19	9060274	9453838	4
C-26	8.00	9966515	9453838	-5
C-28	8.75	9850865	9453838	-4
C-30	9.44	9789412	9453838	-4
C-32	10.08	9742882	9453838	-3
C-34	10.67	9581667	9453838	-1
C-36	11.25	9594832	9453838	-1

Samples

19G1680-01
19G1680-02
19G1680-03
19G1680-04
19G1680-05
19G1680-06
19G1720-01
19G1720-02
19G1720-03
19G1720-04
19G1720-06
19G1720-05

*One compound allowed %D</=50%

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Apex Companies, LLC - South Windsor, C

Project Location: Wethersfield, CT

Project Number: 19G1720

Laboratory Sample ID(s):
19G1720-01 thru 19G1720-07

Sample Date(s):
07/30/2019

List RCP Methods Used:
CTDEP ETPH, SW-846 6020B, SW-846 7470A, SW-846 8260C, SW-846 8270D

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.

Lisa A. Worthington

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:** Technical Representative

Printed Name: Lisa A. Worthington **Date:** 08/08/19

Name of Laboratory: Con-Test Analytical Laboratory

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

con-test® ANALYTICAL LABORATORY
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August 14, 2019

Donna L. Kask
Apex Companies, LLC - South Windsor, CT
58 (H) Connecticut Avenue
South Windsor, CT 06074

Project Location: Wethersfield, CT
Client Job Number:
Project Number: 6089-015
Laboratory Work Order Number: 19H0182

Enclosed are results of analyses for samples received by the laboratory on August 5, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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Apex Companies, LLC - South Windsor, CT
58 (H) Connecticut Avenue
South Windsor, CT 06074
ATTN: Donna L. Kask

REPORT DATE: 8/14/2019
PURCHASE ORDER NUMBER:
PROJECT NUMBER: 6089-015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19H0182

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

PROJECT LOCATION: Wethersfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TB20190731	19H0182-01	Trip Blank Water		SW-846 8260C	
AP15R-BR	19H0182-02	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP13R-BR	19H0182-03	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-6R	19H0182-04	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-11R	19H0182-05	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-1R	19H0182-06	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
DUP20190731	19H0182-07	Ground Water		CTDEP ETPH	
				SW-846 6020B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-12R	19H0182-08	Ground Water		CTDEP ETPH	

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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.

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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:

Bromomethane
19H0182-01[TB20190731], 19H0182-02[AP15R-BR], 19H0182-03[AP13R-BR], 19H0182-04[AP-6R], 19H0182-05[AP-11R], 19H0182-06[AP-1R], 19H0182-07[DUP20190731], B237394-BLK1, B237394-BS1

Chloromethane
19H0182-01[TB20190731], 19H0182-02[AP15R-BR], 19H0182-03[AP13R-BR], 19H0182-04[AP-6R], 19H0182-05[AP-11R], 19H0182-06[AP-1R], 19H0182-07[DUP20190731], B237394-BLK1, B237394-BS1

V-05

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

Analyte & Samples(s) Qualified:

Bromomethane
19H0182-01[TB20190731], 19H0182-02[AP15R-BR], 19H0182-03[AP13R-BR], 19H0182-04[AP-6R], 19H0182-05[AP-11R], 19H0182-06[AP-1R], 19H0182-07[DUP20190731], B237394-BLK1, B237394-BS1, S038990-CCV1

Chloromethane
19H0182-01[TB20190731], 19H0182-02[AP15R-BR], 19H0182-03[AP13R-BR], 19H0182-04[AP-6R], 19H0182-05[AP-11R], 19H0182-06[AP-1R], 19H0182-07[DUP20190731], B237394-BLK1, B237394-BS1, S038990-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
B237394-BS1, S038990-CCV1

V-36

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

Analyte & Samples(s) Qualified:

Acetone
B237394-BS1, S038990-CCV1

Carbon Disulfide
B237394-BS1, S038990-CCV1

SW-846 8270D

Qualifications:

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
19H0182-02[AP15R-BR], 19H0182-03[AP13R-BR], 19H0182-04[AP-6R], 19H0182-05[AP-11R], 19H0182-06[AP-1R], 19H0182-07[DUP20190731], B237379-BLK1, B237379-BS1, B237379-BSD1, S039040-CCV1, S039118-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:

2-Nitroaniline
19H0182-02[AP15R-BR], 19H0182-03[AP13R-BR], 19H0182-04[AP-6R], 19H0182-05[AP-11R], 19H0182-06[AP-1R], 19H0182-07[DUP20190731], B237379-BLK1, B237379-BS1, B237379-BSD1, S039040-CCV1, S039118-CCV1

3,3-Dichlorobenzidine
19H0182-02[AP15R-BR], 19H0182-03[AP13R-BR], 19H0182-04[AP-6R], 19H0182-05[AP-11R], 19H0182-06[AP-1R], 19H0182-07[DUP20190731], B237379-BLK1, B237379-BS1, B237379-BSD1, S039040-CCV1, S039118-CCV1

4-Chloroaniline
19H0182-02[AP15R-BR], 19H0182-03[AP13R-BR], 19H0182-04[AP-6R], 19H0182-05[AP-11R], 19H0182-06[AP-1R], 19H0182-07[DUP20190731], B237379-BLK1, B237379-BS1, B237379-BSD1, S039040-CCV1, S039118-CCV1

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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.

SW-846 8270D

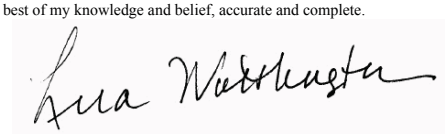
The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for water – limits between 10 and 150% depending on the compound (see QC summary for limits): Benzoic Acid, Dimethylphthalate, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Pyridine, 4-Nitrophenol, and Phenol.

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3'-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

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

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria 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
Technical Representative

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: TB20190731 | Sampled: 7/31/2019 07:30

Sample ID: 19H0182-01

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	8/7/19	8/7/19 16:10	EEH
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Bromomethane	ND	5.0	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 16:10	EEH
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Chloromethane	ND	0.60	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 16:10	EEH
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: TB20190731 | Sampled: 7/31/2019 07:30

Sample ID: 19H0182-01

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	8/7/19	8/7/19 16:10	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 16:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual			
1,2-Dichloroethane-d4	99.8	70-130				8/7/19 16:10
Toluene-d8	109	70-130				8/7/19 16:10
4-Bromofluorobenzene	101	70-130				8/7/19 16:10

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP15R-BR | Sampled: 7/31/2019 09:10

Sample ID: 19H0182-02

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	8/7/19	8/7/19 20:17	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Bromomethane	ND	5.0	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 20:17	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Chloromethane	ND	0.60	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 20:17	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP15R-BR | Sampled: 7/31/2019 09:10

Sample ID: 19H0182-02

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	8/7/19	8/7/19 20:17	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:17	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.7	70-130		8/7/19 20:17
Toluene-d8	109	70-130		8/7/19 20:17
4-Bromofluorobenzene	100	70-130		8/7/19 20:17

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP15R-BR | Sampled: 7/31/2019 09:10

Sample ID: 19H0182-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Aniline	ND	5.1	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Benzo(a)anthracene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Benzo(b)fluoranthene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Benzo(g,h,i)perylene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 15:45	IMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Dibenzofuran	ND	5.1	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 15:45	IMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Fluoranthene (SIM)	ND	0.51	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP15R-BR | Sampled: 7/31/2019 09:10

Sample ID: 19H0182-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
2-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 15:45	IMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Phenanthrene (SIM)	ND	0.051	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Phenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 10:25	CLA
Pyridine	ND	5.1	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
1,2,4-Trichlorobenzene	ND	5.1	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:45	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	32.9	15-110		8/12/19 15:45
Phenol-d6	25.4	15-110		8/12/19 15:45
Nitrobenzene-d5	46.6	30-130		8/12/19 15:45
Nitrobenzene-d5 (SIM)	62.4	30-130		8/12/19 10:25
2-Fluorobiphenyl	53.0	30-130		8/12/19 15:45
2-Fluorobiphenyl (SIM)	46.2	30-130		8/12/19 10:25
2,4,6-Tribromophenol	55.9	15-110		8/12/19 15:45
p-Terphenyl-d14	64.5	30-130		8/12/19 15:45
p-Terphenyl-d14 (SIM)	60.0	30-130		8/12/19 10:25

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP15R-BR | Sampled: 7/31/2019 09:10

Sample ID: 19H0182-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.16	0.16	mg/L	1		CTDEP ETPH	8/7/19	8/9/19 16:00	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
2-Fluorobiphenyl	93.5	50-150					8/9/19 16:00

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP15R-BR | Sampled: 7/31/2019 09:10

Sample ID: 19H0182-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Arsenic	2.9	0.80	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Barium	210	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Chromium	1.9	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Copper	8.2	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Lead	0.61	0.50	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/8/19	8/9/19 12:19	AJL
Nickel	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW
Zinc	160	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:17	QNW

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP13R-BR | Sampled: 7/31/2019 10:40

Sample ID: 19H0182-03

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	8/7/19	8/7/19 20:48	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Bromomethane	ND	5.0	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 20:48	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Chloromethane	ND	0.60	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 20:48	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP13R-BR | Sampled: 7/31/2019 10:40

Sample ID: 19H0182-03

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	8/7/19	8/7/19 20:48	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 20:48	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.7	70-130		8/7/19 20:48
Toluene-d8	113	70-130		8/7/19 20:48
4-Bromofluorobenzene	100	70-130		8/7/19 20:48

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP13R-BR | Sampled: 7/31/2019 10:40

Sample ID: 19H0182-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Aniline	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 16:12	IMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 16:12	IMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP13R-BR | Sampled: 7/31/2019 10:40

Sample ID: 19H0182-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
2-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 16:12	IMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Phenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 13:52	CLA
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:12	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	51.4	15-110		8/12/19 16:12
Phenol-d6	36.0	15-110		8/12/19 16:12
Nitrobenzene-d5	78.8	30-130		8/12/19 16:12
Nitrobenzene-d5 (SIM)	79.7	30-130		8/12/19 13:52
2-Fluorobiphenyl	77.9	30-130		8/12/19 16:12
2-Fluorobiphenyl (SIM)	53.1	30-130		8/12/19 13:52
2,4,6-Tribromophenol	71.4	15-110		8/12/19 16:12
p-Terphenyl-d14	80.5	30-130		8/12/19 16:12
p-Terphenyl-d14 (SIM)	63.6	30-130		8/12/19 13:52

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP13R-BR | Sampled: 7/31/2019 10:40

Sample ID: 19H0182-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.17	0.16	mg/L	1		CTDEP ETPH	8/7/19	8/9/19 16:21	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	96.4	50-150		8/9/19 16:21

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP13R-BR | Sampled: 7/31/2019 10:40

Sample ID: 19H0182-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Arsenic	ND	0.80	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Barium	160	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Chromium	2.5	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Copper	7.3	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Lead	ND	0.50	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/8/19	8/9/19 12:20	AJL
Nickel	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:26	QNW

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-6R | Sampled: 7/31/2019 12:50

Sample ID: 19H0182-04

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	8/7/19	8/7/19 21:19	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Bromomethane	ND	5.0	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 21:19	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Chloromethane	ND	0.60	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 21:19	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-6R | Sampled: 7/31/2019 12:50

Sample ID: 19H0182-04

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	8/7/19	8/7/19 21:19	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:19	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.2	70-130		8/7/19 21:19
Toluene-d8	111	70-130		8/7/19 21:19
4-Bromofluorobenzene	99.2	70-130		8/7/19 21:19

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-6R | Sampled: 7/31/2019 12:50

Sample ID: 19H0182-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Aniline	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 16:39	IMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 16:39	IMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-6R | Sampled: 7/31/2019 12:50

Sample ID: 19H0182-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
2-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 16:39	IMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Phenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:22	CLA
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 16:39	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	48.3	15-110		8/12/19 16:39
Phenol-d6	35.2	15-110		8/12/19 16:39
Nitrobenzene-d5	76.0	30-130		8/12/19 16:39
Nitrobenzene-d5 (SIM)	74.1	30-130		8/12/19 14:22
2-Fluorobiphenyl	78.3	30-130		8/12/19 16:39
2-Fluorobiphenyl (SIM)	49.9	30-130		8/12/19 14:22
2,4,6-Tribromophenol	73.1	15-110		8/12/19 16:39
p-Terphenyl-d14	78.8	30-130		8/12/19 16:39
p-Terphenyl-d14 (SIM)	59.3	30-130		8/12/19 14:22

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-6R | Sampled: 7/31/2019 12:50

Sample ID: 19H0182-04

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.17	0.15	mg/L	1		CTDEP ETPH	8/7/19	8/9/19 16:42	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	103	50-150		8/9/19 16:42

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-6R | Sampled: 7/31/2019 12:50

Sample ID: 19H0182-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Arsenic	1.4	0.80	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Barium	180	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Chromium	1.6	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Copper	6.7	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Lead	ND	0.50	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/8/19	8/9/19 12:26	AJL
Nickel	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:29	QNW

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-11R | Sampled: 7/31/2019 14:15

Sample ID: 19H0182-05

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	8/7/19	8/7/19 21:50	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Bromomethane	ND	5.0	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 21:50	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Chloromethane	ND	0.60	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 21:50	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-11R | Sampled: 7/31/2019 14:15

Sample ID: 19H0182-05

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	8/7/19	8/7/19 21:50	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 21:50	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.6	70-130		8/7/19 21:50
Toluene-d8	110	70-130		8/7/19 21:50
4-Bromofluorobenzene	98.3	70-130		8/7/19 21:50

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-11R | Sampled: 7/31/2019 14:15

Sample ID: 19H0182-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Aniline	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 17:06	IMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 17:06	IMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-11R | Sampled: 7/31/2019 14:15

Sample ID: 19H0182-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
2-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 17:06	IMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Phenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 14:52	CLA
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:06	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	47.3	15-110		8/12/19 17:06
Phenol-d6	34.8	15-110		8/12/19 17:06
Nitrobenzene-d5	70.5	30-130		8/12/19 17:06
Nitrobenzene-d5 (SIM)	63.0	30-130		8/12/19 14:52
2-Fluorobiphenyl	74.8	30-130		8/12/19 17:06
2-Fluorobiphenyl (SIM)	44.4	30-130		8/12/19 14:52
2,4,6-Tribromophenol	71.6	15-110		8/12/19 17:06
p-Terphenyl-d14	84.9	30-130		8/12/19 17:06
p-Terphenyl-d14 (SIM)	56.8	30-130		8/12/19 14:52

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-11R | Sampled: 7/31/2019 14:15

Sample ID: 19H0182-05

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.17	0.15	mg/L	1		CTDEP ETPH	8/7/19	8/9/19 16:00	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	79.0	50-150		8/9/19 16:00

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-11R | Sampled: 7/31/2019 14:15

Sample ID: 19H0182-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Arsenic	ND	0.80	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Barium	150	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Copper	6.7	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Lead	ND	0.50	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/8/19	8/9/19 12:28	AJL
Nickel	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:32	QNW

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-1R | Sampled: 7/31/2019 16:05

Sample ID: 19H0182-06

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	8/7/19	8/7/19 22:21	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Bromomethane	ND	5.0	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 22:21	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Chloromethane	ND	0.60	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 22:21	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-1R | Sampled: 7/31/2019 16:05

Sample ID: 19H0182-06

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	8/7/19	8/7/19 22:21	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:21	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.4	70-130		8/7/19 22:21
Toluene-d8	111	70-130		8/7/19 22:21
4-Bromofluorobenzene	98.8	70-130		8/7/19 22:21

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-1R | Sampled: 7/31/2019 16:05

Sample ID: 19H0182-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Aniline	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 17:33	IMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 17:33	IMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-1R | Sampled: 7/31/2019 16:05

Sample ID: 19H0182-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
2-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 17:33	IMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Phenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:21	CLA
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 17:33	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	49.2	15-110		8/12/19 17:33
Phenol-d6	34.9	15-110		8/12/19 17:33
Nitrobenzene-d5	73.8	30-130		8/12/19 17:33
Nitrobenzene-d5 (SIM)	72.8	30-130		8/12/19 15:21
2-Fluorobiphenyl	75.9	30-130		8/12/19 17:33
2-Fluorobiphenyl (SIM)	49.0	30-130		8/12/19 15:21
2,4,6-Tribromophenol	71.2	15-110		8/12/19 17:33
p-Terphenyl-d14	80.7	30-130		8/12/19 17:33
p-Terphenyl-d14 (SIM)	56.5	30-130		8/12/19 15:21

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-1R | Sampled: 7/31/2019 16:05

Sample ID: 19H0182-06

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.26	0.15	mg/L	1		CTDEP ETPH	8/7/19	8/9/19 16:42	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	76.9	50-150		8/9/19 16:42

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-1R | Sampled: 7/31/2019 16:05

Sample ID: 19H0182-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Arsenic	ND	0.80	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Barium	64	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Chromium	ND	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Copper	8.7	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Lead	0.87	0.50	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/8/19	8/9/19 12:29	AJL
Nickel	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:34	QNW

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: DUP20190731 | Sampled: 7/31/2019 00:00

Sample ID: 19H0182-07

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	8/7/19	8/7/19 22:51	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Bromomethane	ND	5.0	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 22:51	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Chloromethane	ND	0.60	µg/L	1	L-03, V-05	SW-846 8260C	8/7/19	8/7/19 22:51	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: DUP20190731 | Sampled: 7/31/2019 00:00

Sample ID: 19H0182-07

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	8/7/19	8/7/19 22:51	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,2,4-Trichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	8/7/19	8/7/19 22:51	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.2	70-130		8/7/19 22:51
Toluene-d8	108	70-130		8/7/19 22:51
4-Bromofluorobenzene	101	70-130		8/7/19 22:51

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: DUP20190731 | Sampled: 7/31/2019 00:00

Sample ID: 19H0182-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Acenaphthylene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Aniline	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Carbazole	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
4-Chloroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 18:00	IMR
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
3,3-Dichlorobenzidine	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 18:00	IMR
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Hexachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Hexachlorocyclopentadiene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Hexachloroethane	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Isophorone	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: DUP20190731 | Sampled: 7/31/2019 00:00

Sample ID: 19H0182-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
2-Nitroaniline	ND	10	µg/L	1	V-34	SW-846 8270D	8/7/19	8/12/19 18:00	IMR
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
N-Nitrosodiphenylamine/Diphenylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Pentachlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Phenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 15:51	CLA
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	8/7/19	8/12/19 18:00	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	46.6	15-110		8/12/19 18:00
Phenol-d6	33.4	15-110		8/12/19 18:00
Nitrobenzene-d5	67.3	30-130		8/12/19 18:00
Nitrobenzene-d5 (SIM)	66.8	30-130		8/12/19 15:51
2-Fluorobiphenyl	67.9	30-130		8/12/19 18:00
2-Fluorobiphenyl (SIM)	45.4	30-130		8/12/19 15:51
2,4,6-Tribromophenol	63.9	15-110		8/12/19 18:00
p-Terphenyl-d14	76.0	30-130		8/12/19 18:00
p-Terphenyl-d14 (SIM)	55.6	30-130		8/12/19 15:51

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: DUP20190731 | Sampled: 7/31/2019 00:00

Sample ID: 19H0182-07

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.19	0.16	mg/L	1		CTDEP ETPH	8/7/19	8/9/19 16:21	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
2-Fluorobiphenyl	81.8	50-150				8/9/19 16:21	

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: DUP20190731 | Sampled: 7/31/2019 00:00

Sample ID: 19H0182-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Arsenic	0.86	0.80	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Barium	170	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Beryllium	ND	0.40	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Cadmium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Chromium	2.9	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Copper	6.2	1.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Lead	ND	0.50	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/8/19	8/9/19 12:31	AJL
Nickel	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Selenium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Silver	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Thallium	ND	0.20	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Vanadium	ND	5.0	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW
Zinc	ND	10	µg/L	1		SW-846 6020B	8/6/19	8/7/19 12:37	QNW

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

Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0182

Date Received: 8/5/2019

Field Sample #: AP-12R | Sampled: 7/31/2019 16:30

Sample ID: 19H0182-08

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.28	0.15	mg/L	1		CTDEP ETPH	8/7/19	8/9/19 17:03	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	97.8	50-150		8/9/19 17:03

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

Sample Extraction Data

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0182-02 [AP15R-BR]	B237465	960	1.00	08/07/19
19H0182-03 [AP13R-BR]	B237465	940	1.00	08/07/19
19H0182-04 [AP-6R]	B237465	1000	1.00	08/07/19
19H0182-05 [AP-11R]	B237465	980	1.00	08/07/19
19H0182-06 [AP-1R]	B237465	980	1.00	08/07/19
19H0182-07 [DUP20190731]	B237465	940	1.00	08/07/19
19H0182-08 [AP-12R]	B237465	980	1.00	08/07/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0182-02 [AP15R-BR]	B237283	50.0	50.0	08/06/19
19H0182-03 [AP13R-BR]	B237283	50.0	50.0	08/06/19
19H0182-04 [AP-6R]	B237283	50.0	50.0	08/06/19
19H0182-05 [AP-11R]	B237283	50.0	50.0	08/06/19
19H0182-06 [AP-1R]	B237283	50.0	50.0	08/06/19
19H0182-07 [DUP20190731]	B237283	50.0	50.0	08/06/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0182-02 [AP15R-BR]	B237546	6.00	6.00	08/08/19
19H0182-03 [AP13R-BR]	B237546	6.00	6.00	08/08/19
19H0182-04 [AP-6R]	B237546	6.00	6.00	08/08/19
19H0182-05 [AP-11R]	B237546	6.00	6.00	08/08/19
19H0182-06 [AP-1R]	B237546	6.00	6.00	08/08/19
19H0182-07 [DUP20190731]	B237546	6.00	6.00	08/08/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0182-01 [TB20190731]	B237394	5	5.00	08/07/19
19H0182-02 [AP15R-BR]	B237394	5	5.00	08/07/19
19H0182-03 [AP13R-BR]	B237394	5	5.00	08/07/19
19H0182-04 [AP-6R]	B237394	5	5.00	08/07/19
19H0182-05 [AP-11R]	B237394	5	5.00	08/07/19
19H0182-06 [AP-1R]	B237394	5	5.00	08/07/19
19H0182-07 [DUP20190731]	B237394	5	5.00	08/07/19

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0182-02 [AP15R-BR]	B237379	990	1.00	08/07/19
19H0182-03 [AP13R-BR]	B237379	1000	1.00	08/07/19
19H0182-04 [AP-6R]	B237379	1000	1.00	08/07/19
19H0182-05 [AP-11R]	B237379	1000	1.00	08/07/19
19H0182-06 [AP-1R]	B237379	1000	1.00	08/07/19
19H0182-07 [DUP20190731]	B237379	1000	1.00	08/07/19

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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
19H0182-02 [AP15R-BR]	B237775	990	1.00	08/07/19
19H0182-03 [AP13R-BR]	B237775	1000	1.00	08/07/19
19H0182-04 [AP-6R]	B237775	1000	1.00	08/07/19
19H0182-05 [AP-11R]	B237775	1000	1.00	08/07/19
19H0182-06 [AP-1R]	B237775	1000	1.00	08/07/19
19H0182-07 [DUP20190731]	B237775	1000	1.00	08/07/19

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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 B237394 - SW-846 5030B										
Blank (B237394-BLK1)				Prepared & Analyzed: 08/07/19						
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							L-03, V-05
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							L-03, V-05
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	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							
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							
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 B237394 - SW-846 5030B											
Blank (B237394-BLK1)				Prepared & Analyzed: 08/07/19							
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	1.0	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								
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	*25.5*		µg/L	25.0		102		70-130			
Surrogate: Toluene-d8	*27.4*		µg/L	25.0		110		70-130			
Surrogate: 4-Bromofluorobenzene	*25.1*		µg/L	25.0		100		70-130			
LCS (B237394-BS1)				Prepared & Analyzed: 08/07/19							
Acetone	89.8	10	µg/L	100		89.8		70-130			V-36
Acrylonitrile	9.75	2.0	µg/L	10.0		97.5		70-130			
Benzene	8.36	0.50	µg/L	10.0		83.6		70-130			
Bromobenzene	10.6	0.50	µg/L	10.0		106		70-130			
Bromodichloromethane	10.3	0.50	µg/L	10.0		103		70-130			
Bromoform	11.5	0.50	µg/L	10.0		115		70-130			
Bromomethane	6.25	1.0	µg/L	10.0		**62.5**	*	70-130			L-03, V-05, V-34
2-Butanone (MEK)	95.8	5.0	µg/L	100		95.8		70-130			
n-Butylbenzene	8.37	1.0	µg/L	10.0		83.7		70-130			
sec-Butylbenzene	8.51	1.0	µg/L	10.0		85.1		70-130			
tert-Butylbenzene	9.47	1.0	µg/L	10.0		94.7		70-130			
Carbon Disulfide	88.1	5.0	µg/L	100		88.1		70-130			V-36
Carbon Tetrachloride	10.6	0.50	µg/L	10.0		106		70-130			
Chlorobenzene	10.6	0.50	µg/L	10.0		106		70-130			
Chlorodibromomethane	12.1	0.50	µg/L	10.0		121		70-130			
Chloroethane	8.55	0.50	µg/L	10.0		85.5		70-130			
Chloroform	9.02	0.50	µg/L	10.0		90.2		70-130			
Chloromethane	5.62	0.60	µg/L	10.0		**56.2**	*	70-130			L-03, V-05
2-Chlorotoluene	9.91	0.50	µg/L	10.0		99.1		70-130			
4-Chlorotoluene	9.84	0.50	µg/L	10.0		98.4		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.4	1.0	µg/L	10.0		114		70-130			
1,2-Dibromoethane (EDB)	10.1	0.50	µg/L	10.0		101		70-130			
Dibromomethane	10.6	0.50	µg/L	10.0		106		70-130			
1,2-Dichlorobenzene	10.0	0.50	µg/L	10.0		100		70-130			
1,3-Dichlorobenzene	9.48	0.50	µg/L	10.0		94.8		70-130			
1,4-Dichlorobenzene	9.59	0.50	µg/L	10.0		95.9		70-130			
trans-1,4-Dichloro-2-butene	11.4	2.0	µg/L	10.0		114		70-130			
Dichlorodifluoromethane (Freon 12)	9.59	0.50	µg/L	10.0		95.9		70-130			
1,1-Dichloroethane	9.07	0.50	µg/L	10.0		90.7		70-130			
1,2-Dichloroethane	11.0	0.50	µg/L	10.0		110		70-130			
1,1-Dichloroethylene	9.49	0.50	µg/L	10.0		94.9		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B237394 - SW-846 5030B										
LCS (B237394-BS1)				Prepared & Analyzed: 08/07/19						
cis-1,2-Dichloroethylene	9.48	0.50	µg/L	10.0		94.8	70-130			
trans-1,2-Dichloroethylene	9.48	1.0	µg/L	10.0		94.8	70-130			
1,2-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130			
1,3-Dichloropropane	10.1	0.50	µg/L	10.0		101	70-130			
2,2-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130			
1,1-Dichloropropene	8.73	0.50	µg/L	10.0		87.3	70-130			
cis-1,3-Dichloropropene	9.91	0.50	µg/L	10.0		99.1	70-130			
trans-1,3-Dichloropropene	9.80	0.50	µg/L	10.0		98.0	70-130			
Ethylbenzene	10.2	0.50	µg/L	10.0		102	70-130			
Hexachlorobutadiene	12.0	0.60	µg/L	10.0		120	70-130			
2-Hexanone (MBK)	113	5.0	µg/L	100		113	70-130			
Isopropylbenzene (Cumene)	11.0	0.50	µg/L	10.0		110	70-130			
p-Isopropyltoluene (p-Cymene)	9.59	0.50	µg/L	10.0		95.9	70-130			
Methyl tert-Butyl Ether (MTBE)	8.68	0.50	µg/L	10.0		86.8	70-130			
Methylene Chloride	8.92	5.0	µg/L	10.0		89.2	70-130			
4-Methyl-2-pentanone (MIBK)	108	5.0	µg/L	100		108	70-130			
Naphthalene	10.8	2.0	µg/L	10.0		108	70-130			
n-Propylbenzene	9.43	1.0	µg/L	10.0		94.3	70-130			
Styrene	10.3	1.0	µg/L	10.0		103	70-130			
1,1,1,2-Tetrachloroethane	11.8	0.50	µg/L	10.0		118	70-130			
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100	70-130			
Tetrachloroethylene	11.6	1.0	µg/L	10.0		116	70-130			
Tetrahydrofuran	8.47	10	µg/L	10.0		84.7	70-130			
Toluene	9.54	1.0	µg/L	10.0		95.4	70-130			
1,2,3-Trichlorobenzene	11.5	1.0	µg/L	10.0		115	70-130			
1,2,4-Trichlorobenzene	10.6	0.50	µg/L	10.0		106	70-130			
1,1,1-Trichloroethane	9.60	0.50	µg/L	10.0		96.0	70-130			
1,1,2-Trichloroethane	10.2	0.50	µg/L	10.0		102	70-130			
Trichloroethylene	10.4	1.0	µg/L	10.0		104	70-130			
Trichlorofluoromethane (Freon 11)	10.3	2.0	µg/L	10.0		103	70-130			
1,2,3-Trichloropropane	11.7	0.50	µg/L	10.0		117	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.90	0.50	µg/L	10.0		99.0	70-130			
1,2,4-Trimethylbenzene	9.56	0.50	µg/L	10.0		95.6	70-130			
1,3,5-Trimethylbenzene	10.4	0.50	µg/L	10.0		104	70-130			
Vinyl Chloride	8.12	1.0	µg/L	10.0		81.2	70-130			
m+p Xylene	20.4	2.0	µg/L	20.0		102	70-130			
o-Xylene	9.87	1.0	µg/L	10.0		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.4*		µg/L	25.0		97.8	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*27.7*		µg/L	25.0		111	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 B237379 - SW-846 3510C										
Blank (B237379-BLK1)				Prepared: 08/07/19 Analyzed: 08/08/19						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
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							
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							
3,3-Dichlorobenzidine	ND	10	µg/L							V-34
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							
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							
2-Methylnaphthalene	ND	5.0	µg/L							
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							V-34
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B237379 - SW-846 3510C											
Blank (B237379-BLK1)				Prepared: 08/07/19 Analyzed: 08/08/19							
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine/Diphenylamine	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	*102*		µg/L	200		51.0	15-110				
Surrogate: Phenol-d6	*71.4*		µg/L	200		35.7	15-110				
Surrogate: Nitrobenzene-d5	*80.2*		µg/L	100		80.2	30-130				
Surrogate: 2-Fluorobiphenyl	*82.0*		µg/L	100		82.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*146*		µg/L	200		72.8	15-110				
Surrogate: p-Terphenyl-d14	*82.6*		µg/L	100		82.6	30-130				
LCS (B237379-BS1)				Prepared: 08/07/19 Analyzed: 08/08/19							
Acenaphthene	34.8	5.0	µg/L	50.0		69.6	40-140				
Acenaphthylene	37.2	5.0	µg/L	50.0		74.5	40-140				
Aniline	39.0	5.0	µg/L	50.0		78.0	40-140				†
Anthracene	37.0	5.0	µg/L	50.0		74.0	40-140				
Benzo(a)anthracene	36.9	5.0	µg/L	50.0		73.9	40-140				
Benzo(a)pyrene	38.9	5.0	µg/L	50.0		77.7	40-140				
Benzo(b)fluoranthene	36.1	5.0	µg/L	50.0		72.3	40-140				
Benzo(g,h,i)perylene	40.3	5.0	µg/L	50.0		80.6	40-140				
Benzo(k)fluoranthene	37.4	5.0	µg/L	50.0		74.8	40-140				
Bis(2-chloroethoxy)methane	41.2	10	µg/L	50.0		82.4	40-140				
Bis(2-chloroethyl)ether	41.6	10	µg/L	50.0		83.2	40-140				
Bis(2-chloroisopropyl)ether	47.1	10	µg/L	50.0		94.2	40-140				
Bis(2-Ethylhexyl)phthalate	32.7	10	µg/L	50.0		65.4	40-140				
4-Bromophenylphenylether	33.0	10	µg/L	50.0		66.1	40-140				
Butylbenzylphthalate	34.6	10	µg/L	50.0		69.3	40-140				
Carbazole	38.0	10	µg/L	50.0		76.1	40-140				
4-Chloroaniline	37.4	10	µg/L	50.0		74.9	40-140			V-34	†
4-Chloro-3-methylphenol	36.3	10	µg/L	50.0		72.6	30-130				
2-Chloronaphthalene	32.9	10	µg/L	50.0		65.8	40-140				
2-Chlorophenol	36.0	10	µg/L	50.0		72.0	30-130				
4-Chlorophenylphenylether	34.4	10	µg/L	50.0		68.7	40-140				
Chrysene	36.9	5.0	µg/L	50.0		73.8	40-140				
Dibenz(a,h)anthracene	36.4	5.0	µg/L	50.0		72.7	40-140				
Dibenzofuran	37.2	5.0	µg/L	50.0		74.4	40-140				
Di-n-butylphthalate	33.7	10	µg/L	50.0		67.5	40-140				
3,3-Dichlorobenzidine	40.2	10	µg/L	50.0		80.3	40-140			V-34	†
2,4-Dichlorophenol	36.4	10	µg/L	50.0		72.7	30-130				
Diethylphthalate	35.2	10	µg/L	50.0		70.5	40-140				
2,4-Dimethylphenol	33.2	10	µg/L	50.0		66.4	30-130				
Dimethylphthalate	36.6	10	µg/L	50.0		73.2	40-140				
4,6-Dinitro-2-methylphenol	33.7	10	µg/L	50.0		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 B237379 - SW-846 3510C											
LCS (B237379-BS1)				Prepared: 08/07/19 Analyzed: 08/08/19							
2,4-Dinitrophenol	27.3	10	µg/L	50.0		54.6	30-130				
2,4-Dinitrotoluene	38.2	10	µg/L	50.0		76.3	40-140				
2,6-Dinitrotoluene	39.3	10	µg/L	50.0		78.6	40-140				
Di-n-octylphthalate	32.3	10	µg/L	50.0		64.7	40-140				
Fluoranthene	38.1	5.0	µg/L	50.0		76.3	40-140				
Fluorene	37.2	5.0	µg/L	50.0		74.4	40-140				
Hexachlorobenzene	33.2	10	µg/L	50.0		66.3	40-140				
Hexachlorobutadiene	26.9	10	µg/L	50.0		53.8	40-140				
Hexachlorocyclopentadiene	29.0	10	µg/L	50.0		58.0	30-140				
Hexachloroethane	27.6	10	µg/L	50.0		55.2	40-140				
Indeno(1,2,3-cd)pyrene	40.1	5.0	µg/L	50.0		80.1	40-140				
Isophorone	39.8	10	µg/L	50.0		79.7	40-140				
2-Methylnaphthalene	36.7	5.0	µg/L	50.0		73.4	40-140				
2-Methylphenol	33.5	10	µg/L	50.0		67.0	30-130				
3/4-Methylphenol	32.1	10	µg/L	50.0		64.2	30-130				
Naphthalene	34.3	5.0	µg/L	50.0		68.7	40-140				
2-Nitroaniline	49.3	10	µg/L	50.0		98.6	40-140			V-34	
3-Nitroaniline	39.9	10	µg/L	50.0		79.8	40-140				†
4-Nitroaniline	43.0	10	µg/L	50.0		86.0	40-140				
Nitrobenzene	37.0	10	µg/L	50.0		73.9	40-140				
2-Nitrophenol	36.7	10	µg/L	50.0		73.4	30-130				
4-Nitrophenol	20.1	10	µg/L	50.0		40.1	10-130				
N-Nitrosodiphenylamine/Diphenylamine	37.4	10	µg/L	50.0		74.7	40-140				
N-Nitrosodi-n-propylamine	37.4	10	µg/L	50.0		74.9	40-140				
Pentachloronitrobenzene	33.7	10	µg/L	50.0		67.5	40-140			V-16	
Pentachlorophenol	27.7	10	µg/L	50.0		55.5	30-130				
Phenanthrene	37.7	5.0	µg/L	50.0		75.3	40-140				
Phenol	18.9	10	µg/L	50.0		37.8	20-130				
Pyrene	35.9	5.0	µg/L	50.0		71.9	40-140				
Pyridine	13.6	5.0	µg/L	50.0		27.1	10-140				†
1,2,4,5-Tetrachlorobenzene	33.0	10	µg/L	50.0		66.0	40-140				
1,2,4-Trichlorobenzene	30.7	5.0	µg/L	50.0		61.5	40-140				
2,4,5-Trichlorophenol	36.1	10	µg/L	50.0		72.1	30-130				
2,4,6-Trichlorophenol	36.4	10	µg/L	50.0		72.7	30-130				
Surrogate: 2-Fluorophenol	*100*		µg/L	200		50.0	15-110				
Surrogate: Phenol-d6	*73.8*		µg/L	200		36.9	15-110				
Surrogate: Nitrobenzene-d5	*76.8*		µg/L	100		76.8	30-130				
Surrogate: 2-Fluorobiphenyl	*79.9*		µg/L	100		79.9	30-130				
Surrogate: 2,4,6-Tribromophenol	*153*		µg/L	200		76.4	15-110				
Surrogate: p-Terphenyl-d14	*75.0*		µg/L	100		75.0	30-130				
LCS Dup (B237379-BSD1)				Prepared: 08/07/19 Analyzed: 08/08/19							
Acenaphthene	32.3	5.0	µg/L	50.0		64.6	40-140	7.48	20		
Acenaphthylene	33.8	5.0	µg/L	50.0		67.7	40-140	9.51	20		
Aniline	38.8	5.0	µg/L	50.0		77.6	40-140	0.514	50		† ‡
Anthracene	35.0	5.0	µg/L	50.0		70.1	40-140	5.39	20		
Benzo(a)anthracene	34.7	5.0	µg/L	50.0		69.5	40-140	6.11	20		
Benzo(a)pyrene	36.4	5.0	µg/L	50.0		72.9	40-140	6.40	20		
Benzo(b)fluoranthene	33.8	5.0	µg/L	50.0		67.7	40-140	6.54	20		
Benzo(g,h,i)perylene	38.1	5.0	µg/L	50.0		76.2	40-140	5.64	20		
Benzo(k)fluoranthene	34.8	5.0	µg/L	50.0		69.5	40-140	7.26	20		
Bis(2-chloroethoxy)methane	37.7	10	µg/L	50.0		75.3	40-140	8.93	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B237379 - SW-846 3510C											
LCS Dup (B237379-BSD1)				Prepared: 08/07/19 Analyzed: 08/08/19							
Bis(2-chloroethyl)ether	37.2	10	µg/L	50.0		74.3	40-140	11.3	20		
Bis(2-chloroisopropyl)ether	40.6	10	µg/L	50.0		81.1	40-140	14.9	20		
Bis(2-Ethylhexyl)phthalate	30.0	10	µg/L	50.0		60.1	40-140	8.57	20		
4-Bromophenylphenylether	31.4	10	µg/L	50.0		62.9	40-140	4.99	20		
Butylbenzylphthalate	32.6	10	µg/L	50.0		65.2	40-140	6.07	20		
Carbazole	36.2	10	µg/L	50.0		72.5	40-140	4.82	20		
4-Chloroaniline	37.2	10	µg/L	50.0		74.3	40-140	0.804	20	V-34	†
4-Chloro-3-methylphenol	33.7	10	µg/L	50.0		67.5	30-130	7.31	20		
2-Chloronaphthalene	29.9	10	µg/L	50.0		59.9	40-140	9.42	20		
2-Chlorophenol	32.0	10	µg/L	50.0		64.0	30-130	11.9	20		
4-Chlorophenylphenylether	31.8	10	µg/L	50.0		63.6	40-140	7.80	20		
Chrysene	34.6	5.0	µg/L	50.0		69.2	40-140	6.44	20		
Dibenz(a,h)anthracene	33.7	5.0	µg/L	50.0		67.4	40-140	7.57	20		
Dibenzofuran	34.2	5.0	µg/L	50.0		68.4	40-140	8.49	20		
Di-n-butylphthalate	32.3	10	µg/L	50.0		64.5	40-140	4.45	20		
3,3-Dichlorobenzidine	37.2	10	µg/L	50.0		74.4	40-140	7.65	20	V-34	† ‡
2,4-Dichlorophenol	33.5	10	µg/L	50.0		67.0	30-130	8.22	20		
Diethylphthalate	32.3	10	µg/L	50.0		64.6	40-140	8.73	20		
2,4-Dimethylphenol	31.8	10	µg/L	50.0		63.6	30-130	4.28	20		
Dimethylphthalate	33.5	10	µg/L	50.0		67.1	40-140	8.70	50		
4,6-Dinitro-2-methylphenol	33.5	10	µg/L	50.0		67.1	30-130	0.357	50		
2,4-Dinitrophenol	27.4	10	µg/L	50.0		54.8	30-130	0.402	50		
2,4-Dinitrotoluene	34.5	10	µg/L	50.0		68.9	40-140	10.2	20		
2,6-Dinitrotoluene	36.2	10	µg/L	50.0		72.4	40-140	8.21	20		
Di-n-octylphthalate	29.4	10	µg/L	50.0		58.8	40-140	9.59	20		
Fluoranthene	36.0	5.0	µg/L	50.0		72.0	40-140	5.77	20		
Fluorene	33.8	5.0	µg/L	50.0		67.5	40-140	9.75	20		
Hexachlorobenzene	31.1	10	µg/L	50.0		62.2	40-140	6.41	20		
Hexachlorobutadiene	22.6	10	µg/L	50.0		45.2	40-140	17.4	20		
Hexachlorocyclopentadiene	26.3	10	µg/L	50.0		52.6	30-140	9.73	50		
Hexachloroethane	23.1	10	µg/L	50.0		46.2	40-140	17.8	50		
Indeno(1,2,3-cd)pyrene	37.5	5.0	µg/L	50.0		75.0	40-140	6.63	50		
Isophorone	37.4	10	µg/L	50.0		74.7	40-140	6.48	20		
2-Methylnaphthalene	33.0	5.0	µg/L	50.0		66.1	40-140	10.6	20		
2-Methylphenol	30.9	10	µg/L	50.0		61.8	30-130	8.04	20		
3/4-Methylphenol	29.4	10	µg/L	50.0		58.8	30-130	8.85	20		
Naphthalene	30.2	5.0	µg/L	50.0		60.5	40-140	12.7	20		
2-Nitroaniline	45.5	10	µg/L	50.0		90.9	40-140	8.06	20	V-34	
3-Nitroaniline	37.8	10	µg/L	50.0		75.6	40-140	5.43	20		†
4-Nitroaniline	39.7	10	µg/L	50.0		79.4	40-140	8.01	20		
Nitrobenzene	33.7	10	µg/L	50.0		67.4	40-140	9.17	20		
2-Nitrophenol	33.4	10	µg/L	50.0		66.8	30-130	9.41	20		
4-Nitrophenol	18.2	10	µg/L	50.0		36.5	10-130	9.61	50		‡
N-Nitrosodiphenylamine/Diphenylamine	35.6	10	µg/L	50.0		71.1	40-140	4.91	20		
N-Nitrosodi-n-propylamine	33.8	10	µg/L	50.0		67.7	40-140	10.1	20		
Pentachloronitrobenzene	32.4	10	µg/L	50.0		64.8	40-140	3.96	20	V-16	
Pentachlorophenol	27.7	10	µg/L	50.0		55.4	30-130	0.217	50		
Phenanthrene	35.5	5.0	µg/L	50.0		71.0	40-140	5.99	20		
Phenol	17.3	10	µg/L	50.0		34.6	20-130	8.79	20		
Pyrene	34.4	5.0	µg/L	50.0		68.8	40-140	4.38	20		
Pyridine	14.4	5.0	µg/L	50.0		28.7	10-140	5.66	50		†
1,2,4,5-Tetrachlorobenzene	29.9	10	µg/L	50.0		59.9	40-140	9.75	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B237379 - SW-846 3510C										
LCS Dup (B237379-BSD1)				Prepared: 08/07/19 Analyzed: 08/08/19						
1,2,4-Trichlorobenzene	26.0	5.0	µg/L	50.0		52.0	40-140	16.6	20	
2,4,5-Trichlorophenol	33.4	10	µg/L	50.0		66.8	30-130	7.66	20	
2,4,6-Trichlorophenol	33.8	10	µg/L	50.0		67.7	30-130	7.12	50	
Surrogate: 2-Fluorophenol	*92.3*		µg/L	200		46.2	15-110			
Surrogate: Phenol-d6	*67.9*		µg/L	200		34.0	15-110			
Surrogate: Nitrobenzene-d5	*69.8*		µg/L	100		69.8	30-130			
Surrogate: 2-Fluorobiphenyl	*74.3*		µg/L	100		74.3	30-130			
Surrogate: 2,4,6-Tribromophenol	*138*		µg/L	200		69.0	15-110			
Surrogate: p-Terphenyl-d14	*72.1*		µg/L	100		72.1	30-130			
Batch B237775 - SW-846 3510C										
Blank (B237775-BLK1)				Prepared: 08/07/19 Analyzed: 08/12/19						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5 (SIM)	*84.8*		µg/L	100		84.8	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*55.7*		µg/L	100		55.7	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	*67.5*		µg/L	100		67.5	30-130			
LCS (B237775-BS1)				Prepared: 08/07/19 Analyzed: 08/12/19						
Acenaphthene (SIM)	33.6	6.0	µg/L	50.0		67.2	40-140			
Acenaphthylene (SIM)	34.3	4.0	µg/L	50.0		68.6	40-140			
Anthracene (SIM)	37.6	4.0	µg/L	50.0		75.2	40-140			
Benzo(a)anthracene (SIM)	34.9	1.0	µg/L	50.0		69.8	40-140			
Benzo(a)pyrene (SIM)	39.0	2.0	µg/L	50.0		77.9	40-140			
Benzo(b)fluoranthene (SIM)	39.0	1.0	µg/L	50.0		78.0	40-140			
Benzo(g,h,i)perylene (SIM)	35.6	10	µg/L	50.0		71.3	40-140			
Benzo(k)fluoranthene (SIM)	39.4	4.0	µg/L	50.0		78.9	40-140			
Chrysene (SIM)	35.8	4.0	µg/L	50.0		71.7	40-140			
Dibenz(a,h)anthracene (SIM)	37.2	2.0	µg/L	50.0		74.5	40-140			
Fluoranthene (SIM)	36.4	10	µg/L	50.0		72.8	40-140			
Fluorene (SIM)	35.6	20	µg/L	50.0		71.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	37.1	2.0	µg/L	50.0		74.2	40-140			
2-Methylnaphthalene (SIM)	33.4	20	µg/L	50.0		66.7	40-140			
Naphthalene (SIM)	31.0	20	µg/L	50.0		62.0	40-140			
Phenanthrene (SIM)	36.0	1.0	µg/L	50.0		71.9	40-140			
Pyrene (SIM)	35.0	20	µg/L	50.0		70.0	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 B237775 - SW-846 3510C										
LCS (B237775-BS1)				Prepared: 08/07/19 Analyzed: 08/12/19						
Surrogate: Nitrobenzene-d5 (SIM)	*68.7*		µg/L	100		68.7	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*55.8*		µg/L	100		55.8	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	*58.5*		µg/L	100		58.5	30-130			
LCS Dup (B237775-BSD1)				Prepared: 08/07/19 Analyzed: 08/12/19						
Acenaphthene (SIM)	30.1	6.0	µg/L	50.0		60.2	40-140	11.1	20	
Acenaphthylene (SIM)	30.7	4.0	µg/L	50.0		61.5	40-140	11.0	20	
Anthracene (SIM)	33.8	4.0	µg/L	50.0		67.7	40-140	10.5	20	
Benzo(a)anthracene (SIM)	31.7	1.0	µg/L	50.0		63.3	40-140	9.79	20	
Benzo(a)pyrene (SIM)	35.4	2.0	µg/L	50.0		70.7	40-140	9.69	20	
Benzo(b)fluoranthene (SIM)	35.2	1.0	µg/L	50.0		70.4	40-140	10.2	20	
Benzo(g,h,i)perylene (SIM)	32.1	10	µg/L	50.0		64.3	40-140	10.3	20	
Benzo(k)fluoranthene (SIM)	36.0	4.0	µg/L	50.0		71.9	40-140	9.23	20	
Chrysene (SIM)	32.6	4.0	µg/L	50.0		65.1	40-140	9.59	20	
Dibenz(a,h)anthracene (SIM)	33.4	2.0	µg/L	50.0		66.8	40-140	10.8	20	
Fluoranthene (SIM)	33.1	10	µg/L	50.0		66.2	40-140	9.49	20	
Fluorene (SIM)	32.2	20	µg/L	50.0		64.3	40-140	10.2	20	
Indeno(1,2,3-cd)pyrene (SIM)	33.4	2.0	µg/L	50.0		66.9	40-140	10.3	20	‡
2-Methylnaphthalene (SIM)	29.0	20	µg/L	50.0		58.0	40-140	14.1	20	
Naphthalene (SIM)	26.5	20	µg/L	50.0		53.0	40-140	15.6	20	
Phenanthrene (SIM)	32.5	1.0	µg/L	50.0		64.9	40-140	10.2	20	
Pyrene (SIM)	31.7	20	µg/L	50.0		63.3	40-140	10.1	20	
Surrogate: Nitrobenzene-d5 (SIM)	*61.3*		µg/L	100		61.3	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*51.0*		µg/L	100		51.0	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	*53.9*		µg/L	100		53.9	30-130			

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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 B237465 - SW-846 3510C										
Blank (B237465-BLK1)				Prepared: 08/07/19 Analyzed: 08/08/19						
CT ETPH	ND	0.15	mg/L							
Surrogate: 2-Fluorobiphenyl	*0.0932*		mg/L	0.100		93.2	50-150			
LCS (B237465-BS1)				Prepared: 08/07/19 Analyzed: 08/08/19						
CT ETPH	0.766	0.15	mg/L	1.00		76.6	60-120			
Surrogate: 2-Fluorobiphenyl	*0.107*		mg/L	0.100		107	50-150			
LCS Dup (B237465-BSD1)				Prepared: 08/07/19 Analyzed: 08/08/19						
CT ETPH	0.691	0.15	mg/L	1.00		69.1	60-120	10.4	30	
Surrogate: 2-Fluorobiphenyl	*0.0957*		mg/L	0.100		95.7	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 B237283 - SW-846 3005A										
Blank (B237283-BLK1)				Prepared: 08/06/19 Analyzed: 08/07/19						
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.80	µg/L							
Barium	ND	10	µg/L							
Beryllium	ND	0.40	µg/L							
Cadmium	ND	0.20	µg/L							
Chromium	ND	1.0	µg/L							
Copper	ND	1.0	µg/L							
Lead	ND	0.50	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.20	µg/L							
Thallium	ND	0.20	µg/L							
Vanadium	ND	5.0	µg/L							
Zinc	ND	10	µg/L							
LCS (B237283-BS1)				Prepared: 08/06/19 Analyzed: 08/07/19						
Antimony	524	10	µg/L	500		105	80-120			
Arsenic	518	8.0	µg/L	500		104	80-120			
Barium	508	100	µg/L	500		102	80-120			
Beryllium	512	4.0	µg/L	500		102	80-120			
Cadmium	517	2.0	µg/L	500		103	80-120			
Chromium	515	10	µg/L	500		103	80-120			
Copper	999	10	µg/L	1000		99.9	80-120			
Lead	527	5.0	µg/L	500		105	80-120			
Nickel	513	50	µg/L	500		103	80-120			
Selenium	515	50	µg/L	500		103	80-120			
Silver	513	2.0	µg/L	500		103	80-120			
Thallium	492	2.0	µg/L	500		98.4	80-120			
Vanadium	518	50	µg/L	500		104	80-120			
Zinc	1030	100	µg/L	1000		103	80-120			
LCS Dup (B237283-BSD1)				Prepared: 08/06/19 Analyzed: 08/07/19						
Antimony	512	10	µg/L	500		102	80-120	2.35	20	
Arsenic	509	8.0	µg/L	500		102	80-120	1.64	20	
Barium	498	100	µg/L	500		99.5	80-120	1.99	20	
Beryllium	504	4.0	µg/L	500		101	80-120	1.50	20	
Cadmium	507	2.0	µg/L	500		101	80-120	1.95	20	
Chromium	507	10	µg/L	500		101	80-120	1.55	20	
Copper	983	10	µg/L	1000		98.3	80-120	1.67	20	
Lead	514	5.0	µg/L	500		103	80-120	2.48	20	
Nickel	509	50	µg/L	500		102	80-120	0.884	20	
Selenium	503	50	µg/L	500		101	80-120	2.28	20	
Silver	503	2.0	µg/L	500		101	80-120	2.01	20	
Thallium	479	2.0	µg/L	500		95.8	80-120	2.75	20	
Vanadium	511	50	µg/L	500		102	80-120	1.43	20	
Zinc	1010	100	µg/L	1000		101	80-120	1.70	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 B237546 - SW-846 7470A Prep										
Blank (B237546-BLK1)				Prepared: 08/08/19 Analyzed: 08/09/19						
Mercury	ND	0.00010	mg/L							
LCS (B237546-BS1)				Prepared: 08/08/19 Analyzed: 08/09/19						
Mercury	0.00398	0.00010	mg/L	0.00400		99.6	80-120			
LCS Dup (B237546-BSD1)				Prepared: 08/08/19 Analyzed: 08/09/19						
Mercury	0.00378	0.00010	mg/L	0.00400		94.4	80-120	5.35	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit 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.

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-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6020B in Water	
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,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	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
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
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
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
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
SW-846 8270D in Soil	
Aniline	NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenol	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Aniline	CT,NY
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenol	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

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con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page 1 of 1

RJM 19H0182

Company Name: Apex Companies LLC
Address: 58 H Connecticut Ave, South Windsor
Phone: 860-282-1700
Project Name: FE - Wethersfield
Project Location: Wethersfield, CT
Project Number: 6089-015
Project Manager: Donna Kusk
Con-Test Quote Name/Number: 6089-015
Invoice Recipient: Apex Companies LLC
Sampled By: M. Lucker

Requested Turnaround Time: 7-Day ✓ 10-Day ☐ PFAS 10-Day (std) ☐ Due Date:

Disposal Matrix Samples: ✓ Field Filtered ○ Lab to Filter

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

Drinking Water Samples: ○ Field Filtered ○ Lab to Filter

Data Delivery: Format: PDF ✓ EXCEL ☐ Other:
CLP Like Data Pkg Required: ☐
Email To: dkusk@apexcos.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	VOC's 8260 (H)	ETPH (I)	SVOC's (I)	Total RSR metals + Mercury (N)	Dissolved CT RSR metals (N)
1	TB20190731	7/31/19	7:30	–	O	C	3					X				
2	AP-15R-BR	7/31/19	9:10	G	GW	U	3	6				X	X	X	X	
3	AP-13R-BR	7/31/19	10:40	G	GW	U	3	5				X	X	X	X	
4	AP-6R	7/31/19	12:50	G	GW	U	3	6				X	X	X	X	
5	AP-11R	7/31/19	2:15	G	GW	U	3	6				X	X	X	X	
6	AP-1R	7/31/19	4:05	G	GW	U	3	6				X	X	X	X	
7	DUP20190731	7/31/19	—	G	GW	U	3	5				X	X	X	X	
8	AP-12R	7/31/19	4:30	G	GW	U		1					X			

[2] Preservation Code

Counter Use Only
Total Number Of:
VIALS 21
GLASS 55
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) Trip Blank

[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)

Relinquished by: (signature)	Date/Time:
[signature]	7/31/19 6:00
Received by: (signature) Sample Fridge	7/31/19 6:00
Relinquished by: (signature) [signature]	8/5/19 1230
Received by: (signature) Joe [signature]	8/5/19 1240
Relinquished by: (signature) Joe [signature]	8/5/19 1410
Received by: (signature) [signature] 3.1 2.4 2.8	8.5.19 1410
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments: please Hold Dissolved CT RSR metals

Detection Limit Requirements: MA; CT; Other

CT RSR GA, SWPC, RK + I/C etc

Special Requirements:
☐ MA MCP Required
MCP Certification Form Required
✓ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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

NELAC and AIHA-LAP, LLC Accredited

Project Entity: Government ☐ Municipality ☐ MWRA ☐ WRTA ☐ Federal ☐ 21 J ☐ School ☐ City ☐ Brownfield ☐ MBTA ☐

Other: ☐ Chromatogram ☐ AIHA-LAP,LLC

PCB ONLY: ☐ Soxhlet ☐ Non Soxhlet

Comments:

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. Th Chain of Custody is a legal document that must be complete and accurate and is used to determine wh analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Cc Test values your partnership on each project and will try to assist with missing information, but will not held accountable.

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Apex

Received By LR Date 8-5-19 Time 1410

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 4 Actual Temp - 3.1, 2.4, 2.8

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? _____

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? F

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 T Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	25	1 Liter Plastic		16 oz Amb.	
HCL-	21	500 mL Amb.	10	500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

C:\MSDChem\2\DATA\B080919.SEC\B0809007.D

CT ETPH Discrimination Check

Data File Name B0809007.D
Data File Path C:\MSDChem\2\DATA\B080919.SEC\
Operator RMW
Date Acquired 8/9/2019 15:19
Acq. Method File EPH04.M
Sample Name ETPH 1500
Instrument Name GCFID2

Name	Ret Time	Target Response	Average Response	*%D+/-20
n-Nonane	1.69	8472192	9134671	7
n-Decane	2.32	8713162	9134671	5
n-Dodecane	3.24	8977701	9134671	2
n-Tetradecane	3.95	9259904	9134671	-1
n-Hexadecane	4.55	9367336	9134671	-3
n-Octadecane	5.10	9198306	9134671	-1
n-Eicosane	5.70	9444556	9134671	-3
n-Docosane	6.45	9651004	9134671	-6
n-Tetracosane	7.28	8827534	9134671	3
n-Hexacosane	8.09	9682962	9134671	-6
n-Octacosane	8.82	9534892	9134671	-4
n-Triacontane	9.51	9440913	9134671	-3
n-Dotriacontane	10.14	9231431	9134671	-1
n-Tetratriacontane	10.73	8738944	9134671	4
n-Hexatriacontane	11.30	8479233	9134671	7

Samples

19H0182-05
19H0182-07
19H0182-06
19H0182-08

*One compound allowed %D</=50

C:\MSDChem\2\DATA\B080919\B0809006.D

CT ETPH Discrimination Check

Data File Name B0809006.D
Data File Path C:\MSDChem\2\DATA\B080919\
Operator RMW
Date Acquired 8/9/2019 14:58
Acq. Method File EPH04.M
Sample Name ETPH 1500
Instrument Name GCFID2

Name	Ret Time	Target Response	Average Response	*%D+/-20
n-Nonane	1.51	8585756	9515324	10
n-Decane	2.20	8785875	9515324	8
n-Dodecane	3.15	9073268	9515324	5
n-Tetradecane	3.87	9431213	9515324	1
n-Hexadecane	4.48	9746474	9515324	-2
n-Octadecane	5.03	9719273	9515324	-2
n-Eicosane	5.61	10093508	9515324	-6
n-Docosane	6.33	10373650	9515324	-9
n-Tetracosane	7.16	9458527	9515324	1
n-Hexacosane	7.97	10316320	9515324	-8
n-Octacosane	8.71	10079458	9515324	-6
n-Triacontane	9.39	9882658	9515324	-4
n-Dotriacontane	10.03	9556785	9515324	0
n-Tetratriacontane	10.62	8990310	9515324	6
n-Hexatriacontane	11.19	8636792	9515324	9

Samples
19H0182-02
19H0182-03
19H0182-04

*One compound allowed %D</=50

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Apex Companies, LLC - South Windsor, C

Project Location: Wethersfield, CT

Project Number: 19H0182

Laboratory Sample ID(s):
19H0182-01 thru 19H0182-08

Sample Date(s):
07/31/2019

List RCP Methods Used:
CTDEP ETPH, SW-846 6020B, SW-846 7470A, SW-846 8260C, SW-846 8270D

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.

Lisa A. Worthington

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:** Technical Representative

Printed Name: Lisa A. Worthington **Date:** 08/14/19

Name of Laboratory: Con-Test Analytical Laboratory

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

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

August 26, 2019

Donna L. Kask
Apex Companies, LLC - South Windsor, CT
58 (H) Connecticut Avenue
South Windsor, CT 06074

Project Location: Wethersfield, CT
Client Job Number:
Project Number: 6089-015
Laboratory Work Order Number: 19H0987

Enclosed are results of analyses for samples received by the laboratory on August 18, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

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Apex Companies, LLC - South Windsor, CT
58 (H) Connecticut Avenue
South Windsor, CT 06074
ATTN: Donna L. Kask

REPORT DATE: 8/26/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 6089-015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19H0987

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

PROJECT LOCATION: Wethersfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
AP15R-BR	19H0987-01	Ground Water		SW-846 6020B	

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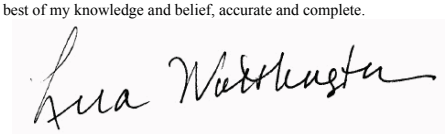
CASE NARRATIVE SUMMARY

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

For method 6020, only Zn was requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
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Project Location: Wethersfield, CT | Sample Description: | Work Order: 19H0987

Date Received: 8/18/2019

Field Sample #: AP15R-BR | Sampled: 7/31/2019 09:10

Sample ID: 19H0987-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Zinc	18	10	µg/L	1		SW-846 6020B	8/24/19	8/26/19 10:12	QNW

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0987-01 [AP15R-BR]	B238944	10.0	10.0	08/24/19

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B238944 - SW-846 3005A Dissolved										
Blank (B238944-BLK1)				Prepared: 08/24/19 Analyzed: 08/26/19						
Zinc	ND	10	µg/L							
LCS (B238944-BS1)				Prepared: 08/24/19 Analyzed: 08/26/19						
Zinc	40.9	10	µg/L	40.0		102	80-120			
Duplicate (B238944-DUP1)	**Source: 19H0987-01**			Prepared: 08/24/19 Analyzed: 08/26/19						
Zinc	17.0	10	µg/L		17.7			3.89	20	
Matrix Spike (B238944-MS1)	**Source: 19H0987-01**			Prepared: 08/24/19 Analyzed: 08/26/19						
Zinc	42.3	12	µg/L	25.0	17.7	98.5	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 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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6020B in Water	
Zinc	CT,NH,NY,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	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

19H0987

http://www.contestlabs.com

Doc # 381 Rev 2_06262019

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

RJM ~~19H0182~~

Company Name: Apex Companies LLC
Address: 58 H Connecticut Ave, South Windsor
Phone: 860-282-1700
Project Name: FE - Wethersfield
Project Location: Wethersfield, CT
Project Number: 6089-015
Project Manager: Donna Kusk
Con-Test Quote Name/Number: 6089-015
Invoice Recipient: Apex Companies LLC
Sampled By: M. Lucker

Requested Turn Around Time: 7-Day ✓ 10-Day ☐ PFAS 10-Day (std) ☐ Due Date:

Dissolved Metals Sample: ✓ Field Filtered ○ Lab to Filter

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

Orthophosphate Sample: ○ Field Filtered ○ Lab to Filter

Data Delivery: Format: PDF ✓ EXCEL ☐ Other:
CLP Like Data Pkg Required: ☐
Email To: dkusk@apexcos.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	VOC's 8260 (H)	ETPH (I)	SVOC's (I)	Total RSR metals + Mercury (N)	Dissolved CT RSR metals (N)
1	TB20190731	7/31/19	7:30	–	O	C	3					X				
-01 2	AP-15R-BR	7/31/19	9:10	G	GW	U	3	6				X	X	X	X	
3	AP-13R-BR	7/31/19	10:40	G	GW	U	3	5				X	X	X	X	
4	AP-6R	7/31/19	12:50	G	GW	U	3	6				X	X	X	X	
5	AP-11R	7/31/19	2:15	G	GW	U	3	6				X	X	X	X	
6	AP-1R	7/31/19	4:05	G	GW	U	3	6				X	X	X	X	
7	DUP20190731	7/31/19	—	G	GW	U	3	5				X	X	X	X	
8	AP-12R	7/31/19	4:30	G	GW	U		1					X			

[2] Preservation Code

Cooler Use Only
Total Number Of:
VIALS 21
GLASS 35
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) Trip Blank

[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)

Relinquished by: (signature)	Date/Time:
[signature]	7/31/19 6:00
Received by: (signature) Sample Fridge	Date/Time: 7/31/19 6:00
Relinquished by: (signature) [signature]	Date/Time: 8/5/19 1230
Received by: (signature) [signature]	Date/Time: 8/5/19 1240
Relinquished by: (signature) [signature]	Date/Time: 8/5/19 1410
Received by: (signature) [signature] 3.1 2.4 2.8	Date/Time: 8.5.19 1410
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments: please Hold Dissolved CT RSR metals

Detection Limit Requirements: MA; CT RSR GA, SWPC, RLC + I/C etc; Other

Special Requirements: ☐ MA MCP Required; MCP Certification Form Required; ✓ CT RCP Required; RCP Certification Form Required; ☐ MA State DW Required; PWSID #

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

NELAC and AIHA-LAP, LLC Accredited

Project Entity: Government ☐ Municipality ☐ MWRA ☐ WRTA ☐ Federal ☐ 21 J ☐ School ☐ City ☐ Brownfield ☐ MBTA ☐

Other: ☐ Chromatogram ☐ AIHA-LAP,LLC

PCB ONLY: ☐ Soxhlet ☐ Non Soxhlet

Comments:
ample AP-15R-BR reactivated for dissolved
nc analysis, per client request -RJM 8/18/19

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. Th Chain of Custody is a legal document that must be complete and accurate and is used to determine wh analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Co Test values your partnership on each project and will try to assist with missing information, but will not held accountable.

Table of Contents

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Apex

Received By LR Date 8-5-19 Time 1410

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 4 Actual Temp - 3.1, 2.4, 2.8

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? _____

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? F

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 T Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	25	1 Liter Plastic		16 oz Amb.	
HCL-	21	500 mL Amb.	10	500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Apex Companies, LLC - South Windsor, C

Project Location: Wethersfield, CT

Project Number: 19H0987

Laboratory Sample ID(s):

19H0987-01

Sample Date(s):

07/31/2019

List RCP Methods Used:

SW-846 6020B

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.

Lisa A. Worthington

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:** **Technical Representative**

Printed Name: **Lisa A. Worthington** **Date:** **08/26/19**

Name of Laboratory: **Con-Test Analytical Laboratory**

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