VIA CERTIFIED MAIL

February 28, 2018

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 2017.

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
Project Manager

APEX COMPANIES, LLC

David A. Melycher, LEP
Division Manager

cc: Mr. Paul Boison, Eversource
Mr. David Lansey, Wethersfield, LLC

2017 ANNUAL STATUS REPORT

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

February 2018

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

TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 SITE BACKGROUND 1
3.0 SOIL EXCAVATION 2
4.0 GROUNDWATER MONITORING WELL REPLACEMENT 2
5.0 GROUNDWATER MONITORING ACTIVITIES 3
5.1 Groundwater Sampling Results 4
5.2 Data Quality and Usability 5
6.0 FUTURE ACTIVITIES 6
7.0 REFERENCES 7

FIGURES

Figure 1: Site Location Map
Figure 2: Site Plan

TABLES

Table 1A and 1B: Groundwater Analytical Results
Table 2 Groundwater Analytical Results - Secondary Parameters
Table 3: Dissolved Carbon Dioxide Analytical Results
Table 4: Petroleum Degrading Bacteria Analytical Results

APPENDICES

Appendix A: Well Sampling Records
Appendix B: Laboratory Analytical Reports – Groundwater

1.0 INTRODUCTION

Apex Companies, LLC (Apex), on behalf of Eversource Energy (Eversource), has prepared the following 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 Site). This report summarizes monitoring activities conducted in 2017.

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. 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 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 Map 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 for soil and groundwater. 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 for impacted groundwater.

3.0 SOIL EXCAVATION

Soil excavation activities 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 excavation footprint measured 10 feet by 10 feet centered on monitoring well AP-11, and extended 12 feet below footprint grade (ftbg). A total of 69.75 tons of impacted soil was disposed of off site.

Confirmatory soil samples were collected by Apex personnel from 8-10 ftbg 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 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 remediation of site soils has been completed.

A letter report dated August 27, 2013 was previously submitted to CTDEEP that detailed the soil excavation activities.

4.0 GROUNDWATER MONITORING WELL REPLACEMENT

During redevelopment and related construction activities, a number of 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. The replacement well locations are depicted on **Figure 2**.

5.0 GROUNDWATER MONITORING ACTIVITIES

An annual groundwater monitoring event was conducted in May 2017. Groundwater was collected from a total of nine monitoring wells: AP-1R, AP-2R, AP-3R, AP-4R, AP-6R, AP-9R, AP-11R, AP-12R, and AP-101R. During the May 2017 groundwater monitoring event, gauging data indicated that well AP-13R was dry and well AP-15R did not contain a sufficient volume of groundwater for sampling.

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 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/DNAPL). Measurable NAPL was not detected in on-site monitoring wells during the groundwater monitoring event. Gauging data indicated depth to groundwater during the May event ranged from 2.96 ftbg (AP-3R) to 14.33 feet ftbg (AP-11R).

For the annual groundwater monitoring event, Apex personnel performed low-flow sampling in general accordance with *Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* (United States Environmental Protection Agency (EPA), 2017). Proper low-flow sampling protocol was followed for each well with the exception of AP-12R, which did not have sufficient water in the well column. A grab sample was collected from AP-12R without complete purging or the collection of field parameter readings. 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 (CT ETPH);
- Total Remediation Standard Regulations (RSRs) metals[1] (EPA Method 6020/7470);
- Carbon dioxide (SM4500-CO2);
- Alkalinity (SM21-22 2320B);
- pH (SM21-22 4500 H B); and
- Dissolved zinc (EPA Method 6020/7470).

Additionally, samples were submitted to Northeast Laboratories, Inc. of Berlin Connecticut for analysis of petroleum degrading bacteria counts (SM 907).

[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

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

5.1 Groundwater Sampling Results

VOC analysis was performed on all collected groundwater samples during the May 2017 sampling event. Analytical results indicate that three VOCs were detected in groundwater collected from AP-3R, AP-9R, and AP-11R. The compounds detected above laboratory RLs were limited to 2-butanone, methyl tert-butyl ether (MTBE), and tetrahydrofuran. A tetrahydrofuran concentration of 15 micrograms per liter (µg/L) was reported for the sample collected from well AP-9R. A regulatory standard for tetrahydrofuran has not been established in the RSRs. However, a criterion is recommended (4 ug/l) in the *Technical Support Document: Recommended Numeric Criteria for Common Additional Polluting Substances and Certain Alternative Criteria* (CTDEEP, 2015). All other detected VOC concentrations were below applicable and recommended CTDEEP criteria.

SVOC analysis was performed on all groundwater samples for the May 2017 sampling event. Analytical results indicate one SVOC (phenanthrene) was detected in the sample collected from well AP-11R. The phenanthrene concentration was below the GWPC and Surface Water Protection Criteria (SWPC) of 200 µg/L and 0.3 µg/L, respectively. All other detected SVOC concentrations were below applicable and recommended CTDEEP criteria.

ETPH analysis was performed on all collected groundwater samples during the May 2017 sampling event. Analytical results indicate that ETPH was detected in groundwater collected from AP-1R, AP-3R, AP-4R, AP-9R, and AP-101R. The detected concentration of ETPH ranged from 0.083 mg/L in AP-3R to 0.17 mg/L in AP-4R. All ETPH results were below applicable CTDEEP criteria.

Total RSR metals analysis was performed on all collected groundwater samples during the May sampling event. Analytical results indicate that certain metals (arsenic, barium, and zinc) were detected in one or more samples during the 2017 sampling events. All detected total RSR metal concentrations were below applicable CTDEEP criteria, with the exception of an arsenic concentration of 0.011 mg/l in well AP-3R. The concentration of arsenic in well AP-3R was above the SWPC (0.004 mg/l).

A sample from monitoring well AP-12R was field filtered and submitted for analysis of dissolved zinc. The detected concentration of zinc (0.063 mg/L) was below applicable CTDEEP criteria.

A summary of recent and historical groundwater analytical results for the parameters presented above is included as **Table 1A** and **Table 1B**.

Dissolved carbon dioxide ranged from 158 mg/L (AP-3R) to 361 mg/L (AP-4R). Alkalinity ranged from 180 mg/L (AP-3R) to 410 mg/L (AP-4R). The laboratory analyzed the submitted groundwater samples for pH, which ranged from 6.8 (AP-15R) to 7.8 (AP-101R).

Petroleum degrading bacteria were detected during May 2017 sampling events. The May sampling event detected petroleum degrading bacteria in eight of the nine monitoring wells sampled (AP-1R, AP-2R, AP-3R, AP-4R, AP-6R, AP-9R, AP-12R, and AP-101R). Detected petroleum degrading bacteria counts ranged from 20 per milliliter (mL) (AP-6R) to 12,000 per mL (AP-12R).

The results of secondary parameter analyses are summarized in **Table 2, Table 3,** and **Table 4.**

The 2017 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 17F0044 and 17E1528, representing the groundwater samples collected during groundwater monitoring activities. Field-based quality assurance/quality control (QA/QC) included trip blanks, matrix spike/matrix spike duplicate (MS/MSD), and field duplicate.

No VOCs were detected in the trip blank. The sample from well AP-11R was used as the MS/MSD. The field duplicate sample (DUP) was collected from well AP-101R. No VOCs or SVOCs were detected in the parent or duplicate samples. ETPH was detected in the parent sample at 0.095 mg/L and in the duplicate sample at 0.11 mg/L. Barium was detected in the parent sample at 64 ug/l and in the duplicate sample at 65 ug/l. Other parameters were also detected in the parent sample (alkalinity at 250 mg/l, pH at 7.7 and carbon dioxide at 221 mg/L) and in the duplicate sample (alkalinity at 240 mg/l, pH at 7.8 and carbon dioxide at 212 mg/L).

Non-conformances for the submitted samples and/or laboratory QA/QC samples were noted and are summarized below. Additional non-conformances for non-site specific constituents are summarized within the laboratory reports.

The sample submitted for the analysis of alkalinity did not satisfy method specifications (SM-01):

- For the analysis of pH, the holding time was exceeded (H-05). The nominal holding time for pH is 15 minutes if pH analysis cannot be performed immediately at the time of sampling; however, pH was determined in the field during low flow purging of the wells;
- Continuing calibration did not meet method specifications and was biased on the low side for acetone and 2,2-dichloroproane (V-05). Increased uncertainty is associated with the reported value which is likely to be biased on the low side;
- The requested reporting limit was not met for bis(2-ethylhexyl)phthalate, hexachlorobenzene, and pentachlorophenol (RL-03). The reporting limit was based on the lowest point in calibration; and
- The matrix spike recovery is outside of control limits for acetone and 2,2-dichloroproane (MS-09). The possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Effective analytical accuracy and precision were demonstrated via acceptable recoveries of surrogates, laboratory control samples (LCS), and/or LCS duplicate samples.

Field-based quality assurance/quality control (QA/QC) included an equipment blank and a duplicate sample. Concentrations in the duplicate and parent sample indicate proper laboratory analytical methodologies.

Based upon the project-specific QC sample results, the project data set 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 FUTURE ACTIVITIES

Future activities include continued groundwater sampling for natural attenuation monitoring. As described in the 2013 RAP, Monitored Natural Attenuation (MNA) is the remedial technology chosen to address groundwater impacts at the Site. The effectiveness of this solution will be evaluated through a groundwater monitoring program that consists of the collection and analysis of groundwater samples from each of the on-site monitoring wells. Long-term monitoring per the MNA Plan will continue on an annual basis until compliance monitoring can be initiated. The next annual monitoring event is scheduled to occur in Spring 2018.

A Status Report summarizing the activities conducted in 2018 will be submitted to CTDEEP by February 28, 2019, and yearly, thereafter, until Site verification is achieved.

7.0 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

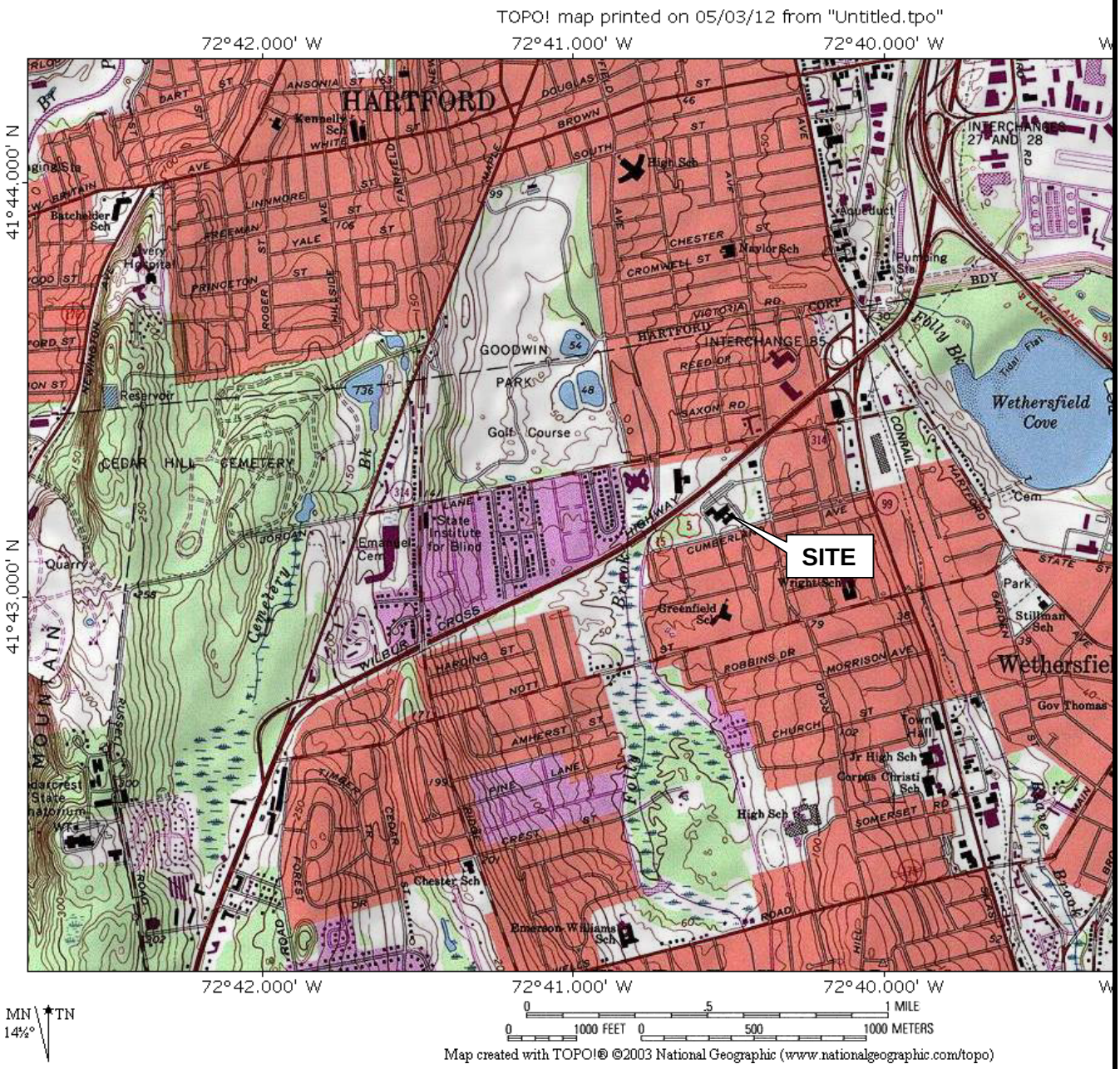
Laboratory Quality Assurance and Quality Control Guidance – Reasonable Confidence Protocols, CTDEEP, July 2007



FIGURES

Figure 1
Site Location Map

176 Cumberland Avenue
Wethersfield, Connecticut



APEX

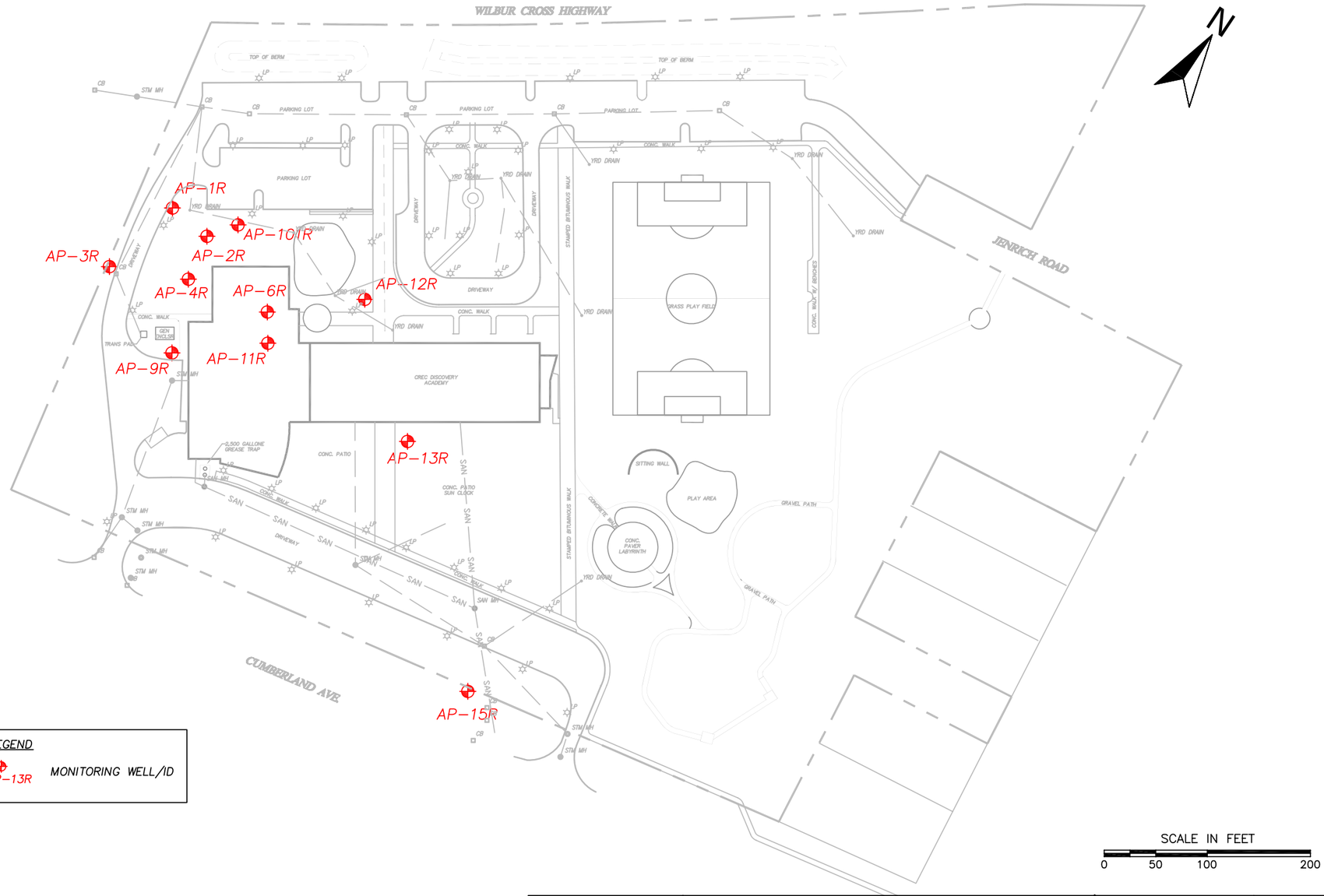
58H Connecticut Avenue
South Windsor, Connecticut
Telephone: (860) 282-1700

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	3/4/2016
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

P:\CADFILES\5783-012\2015\176_DENNO_apex 2008.dwg, Layout1, 3/10/2016 7:59:01 PM



TABLES

TABLE 1A
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							AP-4R							AP-5R						
Date Sampled:	11/4/2009	3/25/2010	8/12/2015	11/11/2015	3/1/2016	5/24/2016	5/30/2017	11/4/2009	3/26/2010	8/12/2015	11/11/2015	3/1/2016	5/24/2016	5/30/2017	11/4/2009	3/25/2010	8/12/2015	11/11/2015	3/1/2016	5/24/2016	5/30/2017	11/5/2009	3/26/2010	8/12/2015	11/12/2015	3/1/2016	5/24/2016	5/31/2017	11/5/2009	3/26/2010	8/13/2015	11/12/2015	3/2/2016	5/24/2016	5/31/2017
VOCs via EPA 8260 (ug/L)																																			
Acetone	ND<5.0	ND<5.0	ND<10.0	ND<10.0	ND<20	ND<10	ND<10	ND<5.0	ND<5.0	ND<10.0	ND<10.0	ND<10	ND<10	ND<10	ND<5.0	ND<5.0	ND<10.0	ND<10	ND<10	ND<10	ND<10	ND<500	ND<50	ND<10.0	ND<10.0	ND<50	ND<10	ND<10	ND<5.0	ND<5.0	ND<10.0	ND<10.0	ND<10	ND<10	ND<10
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<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	16	11	ND<1.0	ND<1.0	**AD<2.5**	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
2-Butanone (MEK)	ND<2.0	ND<2.0	ND<10.0	ND<10.0	ND<10	ND<10	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<2.0	ND<2.0	ND<10.0	ND<10.0	ND<5.0	ND<10	8.3	ND<20	ND<20	ND<10.0	ND<10.0	ND<25	ND<10	ND<5.0	ND<2.0	ND<2.0	ND<10.0	ND<10.0	ND<5.0	ND<5.0	ND<5.0
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	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
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	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
Carbon disulfide	2.6	ND<50	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<1.0	2.7	ND<50	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<50	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0	ND<50	ND<500	ND<2.0	ND<2.0	ND<25	ND<5.0	ND<5.0	ND<50	ND<50	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<5.0
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<2.0	ND<1.0	ND<1.0	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<20	ND<1.0	ND<1.0	ND<2.5	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
Chloroform	ND<0.50	ND<2.0	ND<1.0	ND<1.0	ND<2.0	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<2.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	3.1	ND<5.0	ND<1.0	ND<1.0	ND<5.0	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
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<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<5.0	**9.0**	**9.8**	**AD<2.5**	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
Di-isopropyl ether	NS	NS	ND<1.0	ND<1.0	ND<1.0	ND<0.50	NS	NS	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	NS	NS	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	NS	NS	NS	8.3	6.0	ND<2.5	ND<0.50	NS	NS	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	NS	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<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	440	580	ND<1.0	ND<1.0	ND<2.5	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
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<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	**98**	**82**	ND<1.0	ND<1.0	ND<2.5	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
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<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	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<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50
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	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<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	17	ND<5.0	18.0	21.6	ND<2.5	1.1	ND<0.50	4.0	ND<0.50	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50
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<1.0	ND<1.0	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	150	120	ND<1.0	ND<1.0	ND<10	ND<2.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<2.0	ND<2.0
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	**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
Tetrahydrofuran	***ND<10***	***ND<50***	ND<2.0	ND<2.0	ND<20	***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<2.0	ND<2.0	***ND<10***	***ND<10***	***ND<10***	***ND<10***	***ND<100***	ND<2.0	ND<2.0	***ND<50***	***ND<10***	***ND<10***	***ND<10***	***ND<10***	ND<2.0	ND<2.0	***ND<10***	***ND<10***	***ND<10***
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	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	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
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<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	78	110	ND<1.0	ND<1.0	ND<2.5	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
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<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	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<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50
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	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
SVOCs via EPA 8270 (ug/L)																																			
Acenaphthene	ND<5.0	ND<5.0	ND<0.300	ND<0.050	ND<0.30	ND<0.20	ND<0.20	ND<5.0	ND<5.0	ND<0.300	ND<0.050	ND<0.30	ND<0.30	ND<0.29	ND<5.0	ND<5.0	ND<0.300	ND<0.050	ND<0.30	ND<0.30	ND<0.28	ND<5.0	ND<5.0	ND<0.300	ND<0.050	ND<0.30	ND<0.35	ND<0.30	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.30	ND<0.30	ND<0.30
Anthracene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	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<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.18	ND<5.0	ND<5.0	ND<0.050	ND<0.050	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<0.20
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<5.0***	***ND<5.0***	ND<0.050	ND<0.050	0.050	ND<0.050	ND<0.048	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.046	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	**0.23**	ND<0.050	ND<0.050	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050
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<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.095	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.093	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	**0.23**	ND<0.010	ND<0.050	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.10
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<5.0***	***ND<5.0***	ND<0.050	ND<0.050	0.081	ND<0.050	ND<0.048	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.046	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	**0.33**	ND<0.050	ND<0.050	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050
Bis(2-Ethylhexyl)phthalate	***ND<2.0***	***ND<10***	***ND<5.10***	***ND<5.43***	ND<2.0	**2.0**	***ND<0.8***	***ND<10***	***ND<10***	***ND<5.10***	***ND<5.10***	ND<2.0	**3.4**	***ND<9.5***	***ND<2.0***	***ND<10***	***ND<5.05***	***ND<5.26***	ND<2.0	**2.1**	***ND<0.2***	***ND<10***	***ND<10***	***ND<7.25***	***ND<5.21***	ND<2.0	**2.1**	***ND<5.0***	***ND<10***	***ND<10***	***ND<5.05***	***ND<5.15***	ND<2.0	**2.2**	***ND<5.0***
Chrysene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	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<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.18	ND<5.0	ND<5.0	ND<0.050	ND<0.050	0.24	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
Fluoranthene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.50	ND<0.50	ND<0.49	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.50	ND<0.50	ND<0.48	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.50	ND<0.50	ND<0.46	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<5.0	ND<0.050	0.090	ND<0.50	ND<0.50	ND<0.50
Fluorene	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<0.98	ND<5.0	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.95	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.92	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.99	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<1.0
1-Methylnaphthalene	NS	NS	ND<0.065	ND<0.050	ND<5.0	ND<5.0	NS	NS	NS	ND<0.065	ND<0.050	ND<5.0	ND<5.0	NS	NS	NS	ND<0.065	ND<0.050	ND<5.0	ND<5.0	NS	NS	NS	ND<0.065	ND<0.050	ND<5.0	ND<5.0	NS	NS	NS	ND<0.065	ND<0.050	ND<5.0	ND<5.0	NS	5 *	41 *	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<5.0	ND<5.0	ND<0.075	ND<0.050	ND<1.0	ND<1.0	ND<0.95	ND<5.0	ND<5.0	ND<0.075	ND<0.050	ND<1.0	ND<1.0	ND<0.92	15	19	ND<0.075	ND<0.050	ND<1.0	ND<1.0	ND<0.99	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	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<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.95	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.92	55	77	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.99	ND<5.0	ND<5.0	0.074	ND<0.050	ND<1.0	ND<1.0	ND<1.0	280	210 *	NE	NE
Phenanthrene	***ND<5.0***	***ND<5.0***	0.054	ND<0.050	ND<0.050	ND<0.050	ND<0.049	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	**6.34**	ND<0.050	ND<0.048	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.046	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	0.11	ND<0.050	ND<0.050	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	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<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.95	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<0.92	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.5	ND<0.99	ND<5.0	ND<5.0	ND<0.050	0.091	ND<1.0	ND<1.0	ND<1.0	200	110,000	NE	NE
ETPH via CTETPH (ug/L)																																			
CTETPH	0.23	ND<0.075	ND<0.2	ND<0.2	0.19	ND<0.075	0.11	0.20	ND<0.075	ND<0.2	ND<0.2	0.11	ND<0.075	ND<0.075	ND<0.075	ND<0.075	ND<0.2	ND<0.075	ND<0.075	ND<0.075	0.083	**1.7**	**1.2**	ND<0.08	ND<0.2	0.20	0.19	0.17	ND<0.075	ND<0.075	ND<0.2	ND<0.2	ND<0.075	**0.31**	ND<0.075
Total Metals (mg/L)																																			
Antimony	ND<0.005	ND<0.001	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.005	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.005	ND<0.001	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.005	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.005	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050
Arsenic	ND<0.002	ND<0.003	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.002	ND<0.002	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.002	ND<0.002	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	**0.011**	**0.0072**	**0.015**	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.002	ND<0.002	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	ND<0.0020
Barium	ND<0.25	0.140	0.0875	0.221	0.200	0.170	ND<0.050	ND<0.25	ND<0.12	0.131	0.0996	0.058	0.093	0.120	ND<0.25	ND<0.12	0.0864 A	0.0998	0.074	0.140	0.092	0.6	0.86	0.182	0.129	0.088	0.110	0.083	ND<0.25	ND<0.12	0.132	0.137	0.180	0.190	0.240	1	2.2 *	NE	NE
Beryllium	ND<0.004	ND<0.003	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.004	ND<0.003	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.004	ND<0.003	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.004	ND<0.003	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	0.004	0.004 *	NE	NE
Cadmium	ND<0.0025	ND<0.0025	ND<0.0025

TABLE 1B
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							AP-13R	AP-15R							AP-101R			
Date Sampled:	11/5/2009	3/25/2010	8/12/2015	11/11/2015	3/2/2016	5/24/2016	5/30/2017	11/5/2009	3/26/2010	8/13/2015	11/12/2015	3/1/2016	5/24/2016	5/31/2017	11/4/2009	3/25/2010	8/13/2015	11/12/2015	3/1/2016	5/24/2016	5/31/2017	3/31/2010	11/4/2009	325-31-2010	3/2/2016	6/7/2013	8/13/2015	11/11/2015	3/2/2016	5/24/2016	5/30/2017	5/30/2017 (DUP)	GWPC	SWPC	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria
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<5.0	ND<5.0	ND<10.0	ND<10.0	ND<10	ND<10	ND<10	ND<50	ND<5.0	ND<10.0	ND<10.0	ND<10	ND<10	ND<10	ND<5.0	9.7	ND<5.0	ND<10	7.5 B	ND<10.0	ND<10.0	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<1.0	ND<1.0	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	1.4	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	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<2.0	ND<2.0	ND<10.0	ND<10.0	ND<5.0	ND<10	ND<5.0	3.0	ND<2.0	ND<10.0	ND<10.0	ND<5.0	ND<10	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<5.0	ND<10.0	ND<10.0	ND<5.0	ND<10	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	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	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<0.50	ND<50	ND<2.0	ND<2.0	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<2.0	2.6	ND<50	ND<5.0	ND<10	ND<2.0	ND<2.0	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	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<2.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<2.0	ND<0.50	ND<1.0	ND<1.0	ND<1.0	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	0.63	1.7	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<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	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<1.0	ND<1.0	ND<1.0	ND<0.50	ND<0.50	ND<0.55	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<0.50	ND<1.0	ND<1.0	ND<1.0	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	ND<1.0	ND<1.0	ND<0.50	ND<0.50	NS	NS	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	NS	NS	NS	NS	ND<0.50	NS	ND<1.0	ND<1.0	ND<0.50	ND<0.50	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<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<0.50	ND<1.0	ND<1.0	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<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<0.50	ND<1.0	ND<1.0	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<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<0.50	ND<1.0	ND<1.0	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	1.1	ND<1.0	0.67	0.53	0.72	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<0.50	ND<1.0	ND<1.0	0.67	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<1.0	ND<1.0	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	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	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	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<2.0	ND<2.0	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	2.9	ND<10	ND<10	ND<10	ND<2.0	ND<2.0	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	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<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<0.50	ND<1.0	ND<1.0	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<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<0.50	ND<1.0	ND<1.0	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	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)																																			
Acenaphthene	ND<5.0	ND<5.0	ND<0.300	0.269	ND<0.30	ND<0.30	ND<0.27	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.30	ND<0.30	ND<0.30	NS	ND<5.0	NS	0.110	ND<0.30	NS	ND<0.30	NS	NS	ND<5.0	ND<0.30	0.44 A	0.292	0.178	ND<0.30	ND<0.30	ND<0.29	ND<0.28	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<0.18	ND<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.20	NS	ND<5.0	NS	ND<0.050	ND<0.20	NS	ND<0.20	NS	NS	ND<5.0	ND<0.20	ND<0.20	0.077	ND<0.050	ND<0.20	ND<0.20	ND<0.19	ND<0.18	2,000	1,100,000	NE	NE
Benzo(a)anthracene	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.046	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	NS	***ND<5.0***	NS	ND<0.050	ND<0.050	NS	ND<0.050	NS	NS	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.048	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<0.091	***ND<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.10	NS	***ND<5.0***	NS	ND<0.050	ND<0.10	NS	ND<0.099	NS	NS	***ND<5.0***	ND<0.10	ND<0.010	ND<0.050	ND<0.050	ND<0.10	ND<0.10	ND<0.095	ND<0.092	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<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	NS	***ND<5.0***	NS	ND<0.050	ND<0.050	NS	ND<0.050	NS	NS	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.050	ND<0.046	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<5.10***	***ND<5.21***	ND<2.0	**2.1**	***ND<5.0***	NS	***ND<10***	NS	***ND<8.33***	ND<2.0	NS	***ND<5.0***	NS	NS	***ND<10***	ND<2.0	***ND<10***	***ND<5.10***	***ND<5.21***	ND<2.0	ND<2.0	***ND<9.5***	***ND<9.2***	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<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.20	NS	ND<5.0	NS	ND<0.050	ND<0.20	NS	ND<0.20	NS	NS	ND<5.0	ND<0.20	ND<0.20	ND<0.050	ND<0.050	ND<0.20	ND<0.20	ND<0.19	ND<0.18	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<5.0	ND<5.0	ND<0.050	ND<0.050	ND<0.50	ND<0.50	ND<0.50	NS	ND<5.0	NS	ND<0.050	ND<0.50	NS	ND<0.50	NS	NS	ND<5.0	ND<0.50	ND<0.50	0.144	0.080	ND<0.50	ND<0.50	ND<0.48	ND<0.46	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<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<1.0	NS	ND<5.0	NS	ND<0.050	ND<1.0	NS	ND<0.99	NS	NS	ND<5.0	ND<1.0	ND<1.0	0.206	0.105	ND<1.0	ND<1.0	ND<0.95	ND<0.92	280	140,000	NE	NE
1-Methylnaphthalene	NS	NS	ND<0.065	0.054	ND<5.0	ND<5.0	NS	NS	NS	ND<0.050	ND<0.050	ND<5.0	ND<5.0	NS	NS	NS	NS	ND<0.050	ND<5.0	NS	NS	NS	NS	NS	NS	NS	0.172	0.079	ND<5.0	ND<5.0	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<5.0	ND<5.0	0.059	ND<0.050	ND<1.0	ND<1.0	ND<1.0	NS	ND<5.0	NS	ND<0.050	ND<1.0	NS	ND<0.99	NS	NS	ND<5.0	ND<1.0	ND<1.0	0.142	0.083	ND<1.0	ND<1.0	ND<0.95	ND<0.92	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<5.0	ND<5.0	0.079	ND<0.050	ND<1.0	ND<1.0	ND<1.0	NS	ND<5.0	NS	ND<0.050	ND<1.0	NS	ND<0.99	NS	NS	ND<5.0	ND<1.0	ND<1.0	0.231	0.323	ND<1.0	ND<1.0	ND<0.95	ND<0.92	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<5.0***	***ND<5.0***	ND<0.050	ND<0.050	ND<0.050	ND<0.050	0.052	NS	***ND<5.0***	NS	ND<0.050	ND<0.050	NS	ND<0.050	NS	NS	***ND<5.0***	0.18	0.27 A	**0.614**	0.222	0.13	ND<0.050	ND<0.048	ND<0.046	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<5.0	ND<5.0	ND<0.050	ND<0.050	ND<1.0	ND<1.0	ND<1.0	NS	ND<5.0	NS	ND<0.050	ND<1.0	NS	ND<0.99	NS	NS	ND<5.0	ND<1.0	ND<1.0	0.097	0.057	ND<1.0	ND<1.0	ND<0.95	ND<0.92	200	110,000	NE	NE
ETPH via CT ETPH (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	0.20 A	ND<0.075	ND<0.2	ND<0.2	ND<0.075	ND<0.075	ND<0.075	NS	NS	0.20	0.18	ND<0.075	NS	NS	**0.29**	ND<0.075	0.19	ND<0.2	ND<0.2	0.17	0.16	ND<0.095	0.11	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<0.005	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	NS	ND<0.005	NS	NS	ND<0.005	ND<0.005	ND<0.0050	NS	NS	ND<0.005	ND<0.0050	ND<0.005	ND<0.0060	ND<0.0060	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	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<0.002	ND<0.002	ND<0.0040	ND<0.0040	ND<0.0020	ND<0.0020	ND<0.0020	NS	ND<0.002	NS	NS	0.0038	0.0029	ND<0.0020	NS	NS	ND<0.002	0.0038	ND<0.002	**0.0052**	ND<0.0050	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	0.05	0.004	NE	NE
Barium	ND<0.25	0.19	0.0704	0.0692	0.076	ND<0.050	0.062	ND<0.25	0.13	0.0958	0.0946	0.140	0.140	0.140	NS	ND<0.12	NS	NS	0.083	0.095	0.065	NS	NS	ND<0.12	0.078	ND<0.05	0.0409	0.0474	ND<0.050	ND<0.050	0.064	0.065	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<0.002	ND<0.002	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	NS	ND<0.002	NS	NS	ND<0.002	ND<0.002	ND<0.0020	NS	NS	ND<0.002	ND<0.0020	ND<0.002	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	ND<0.0020	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<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	NS	ND<0.0025	NS	NS	ND<0.0025	ND<0.0025	ND<0.0025	NS	NS	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<0.0025	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<0.05	ND<0.05	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NS	ND<0.05	NS	NS	ND<0.05	ND<0.05	ND<0.0050	NS	NS	ND<0.05	0.0075	ND<0.005	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	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	ND<0.025	ND<0.0100	ND<0.0100	ND<0.025	ND<0.025	ND<0.025	NS	ND<0.025	NS	NS	ND<0.025	ND<0.025	ND<0.0250	NS	NS	ND<0.025	ND<0.025	ND<0.025	ND<0.0100	ND<0.0100	ND<0.025	ND<0.025	ND<0.025	ND<0.025	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<0.005	ND<0.005	ND<0.0075	ND<0.0075	ND<0.0050	ND<0.0050	ND<0.0050	NS	ND<0.005	NS	NS	ND<0.005	ND<0.005	ND<0.0050	NS	NS	ND<0.005	ND<0.0050	ND<0.005	ND<0.0075	ND<0.0075	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	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<0.00020	ND<0.00020	ND<0.00010	ND<0.00010	ND<0.00010	NS	ND<0.00010	NS	NS	ND<0.00010	ND<0.00010	ND<0.00010	NS	NS	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	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<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	NS	ND<0.025	NS	NS	ND<0.025	ND<0.025	ND<0.0250	NS	NS	ND<0.025	ND<0.025	ND<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	ND<0.025	0.1	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<0.025	ND<0.0150	ND<0.0150	ND<0.025	ND<0.025	ND<0.025	NS	ND<0.025	NS	NS	ND<0.025	ND<0.025	ND<0.025	NS	NS	ND<0.025	ND<0.025	ND<0.025	ND<0.0150	ND<0.0150	ND<0.025	ND<0.025	ND<0.025	ND<0.025	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<0.0025	ND<0.0050	ND<0.0050	ND<0.0025	ND<0.0025	ND<0.0025	NS	ND<0.0025	NS	NS	ND<0.0025	ND<0.0025	ND<0.0025	NS	NS	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0050	ND<0.0050	ND<0.0025	ND<0.0025	ND<0.0025	ND<0.0025	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<0.001	ND<0.001	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.0010	ND<0.0010	NS	ND<0.001	NS	NS	ND<0.001	ND<0.001	ND<0.0010	NS	NS	ND<0.001	ND<0.0010	ND<0.001	ND<0.0050	ND<0.0050	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	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<0.025	ND<0.0050	ND<0.0050	ND<0.025	ND<0.025	ND<0.025	NS	ND<0.025	NS	NS	ND<0.025	ND<0.025	ND<0.025	NS	NS	ND<0.025	0.0254	0.0159	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.025	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<0.1	ND<0.1	ND<0.0100	ND<0.0100	ND<0.050	ND<0.050	ND<0.050	NS	ND<0.1	NS	NS	**0.420**	**0.170**	0.079	NS	NS	**0.74**	ND<0.050	ND<0.05	ND<0.0100	0.0075	ND<0.050	ND<0.050	ND<0.050	ND<0.050	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	ND<0.005	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	NS	NS	0.0031	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	NS	NS	0.085	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	NS	NS	ND<0.002	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	NS	NS	ND<0.0025	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	NS	NS	ND<0.05	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	NS	NS	ND<0.025	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	NS	NS	ND<0.005	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	NS	NS	ND<0.00010	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

Table 2
Groundwater Analytical Results - pH, Alkalinity

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

Well ID	Date	Alkalinity (mg/L)	pH
AP-1R	3/1/2016	190	6.7
	5/24/2016	110	7.2
	5/30/2017	310	7.4
AP-2R	3/1/2016	240	7.0
	5/24/2016	350	7.3
	5/30/2017	390	7.4
AP-3R	3/1/2016	140	7.0
	5/24/2016	220	7.9
	5/30/2017	180	6.9
AP-4R	3/1/2016	410	7.5
	5/24/2016	410	8.2
	5/31/2017	410	7.1
AP-6R	3/2/2016	220	7.4
	5/24/2016	240	7.9
	5/31/2017	240	7.4
AP-9R	3/2/2016	290	6.9
	5/24/2016	160	7.4
	5/30/2017	240	7.4
AP-11R	3/1/2016	270	7.6
	5/24/2016	280	7.7
	5/31/2017	250	7.3
AP-12R	3/1/2016	270	7.0
	5/24/2016	300	7.1
	5/31/2017	270	6.8
AP-15R	3/2/2016	72	7.0
	5/24/2016	NS	NS
	5/30/2017	NS	NS
AP-101R	3/1/2016	310	7.4
	5/24/2016	150	7.9
	5/30/2017	250	7.7
	5/30/2017	240	7.8

Notes:
mg/L = milligrams per liter
NS = not sampled

TABLE 3
Groundwater Analytical Results
Dissolved Carbon Dioxide

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

Well ID	Date	Dissolved CO_2 (mg/L)
AP-1R	3/1/2016	169
	5/24/2016	96.9
	5/30/2017	273
AP-2R	3/1/2016	214
	5/24/2016	308
	5/30/2017	344
AP-3R	3/1/2016	127
	5/24/2016	194
	5/30/2017	158
AP-4R	3/1/2016	363
	5/24/2016	363
	5/31/2017	361
AP-6R	3/2/2016	195
	5/24/2016	212
	5/31/2017	211
AP-9R	3/2/2016	253
	5/24/2016	141
	5/30/2017	211
AP-11R	3/1/2016	235
	5/24/2016	247
	5/31/2017	220
AP-12R	3/1/2016	236
	5/24/2016	264
	5/31/2017	238
AP-15R	3/2/2016	63.4
	5/24/2016	NS
	5/30/2017	NS
AP-101R	3/1/2016	276
	5/24/2016	132
	5/30/2017	221

Notes:
CO_2 = carbon dioxide
mg/L = milligrams per liter
NS = not sampled

TABLE 4
Groundwater Analytical Results
Petroleum Degrading Bacteria

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

Well ID	Date	Bacteria Count (per mL)
AP-1R	3/1/2016	180
	5/24/2016	<10
	5/30/2017	330
AP-2R	3/1/2016	90
	5/24/2016	<10
	5/30/2017	670
AP-3R	3/1/2016	290
	5/24/2016	<10
	5/30/2017	50
AP-4R	3/1/2016	50
	5/24/2016	<10
	5/31/2017	350
AP-6R	3/2/2016	<10
	5/24/2016	<10
	5/31/2017	20
AP-9R	3/2/2016	30
	5/24/2016	<10
	5/30/2017	60
AP-11R	3/1/2016	280
	5/24/2016	<10
	5/31/2017	<10
AP-12R	3/1/2016	600
	5/24/2016	80
	5/31/2017	12,000
AP-15R	3/2/2016	1,500
	5/24/2016	NS
	5/30/2017	NS
AP-101R	3/1/2016	1,100
	5/24/2016	10
	5/30/2017	240
	5/30/2017 (DUP)	310

Notes:
mL = milliliter
NS = not sampled
<# = indicates result is below laboratory reporting limits



APPENDIX A

WELL SAMPLING RECORDS

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

Page 1 of 1

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

Well Number: AP-1R — Date: 5/30/17

Field Personnel: Dan Wilson / Mike Ludwig — Pump Intake at (ft. below MP): —

Identify Monitoring Point: PVC — 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		--	--	--	--	--	--	--	--	--	DTB: 13.69
1045	3.43	1/3	Decimal	1.5							
1055	4.07				14.18	885	6.92	195.0	1.56	10.9	
1100	4.07				14.15	867	6.91	192.4	1.27	7.2	
1105	4.87				14.22	861	6.92	191.1	1.31	6.4	
1110	4.41				14.17	852	6.91	188.6	1.34	5.1	
1115	4.50				14.12	846	6.91	186.2	1.36	4.3	
1120	4.56	↓	↓	↓	14.10	841	6.91	185.1	1.40	4.1	
1125	4.62				14.07	832	6.90	185.0	1.42	3.6	
						SAMPLED 1130					

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

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

P:\Stephanie\Field Forms\Low Flow Form

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

Page 1 of 1

Location (Site/Facility Name): Eversource Wethersfield

Depth to — (top)/ — (bottom) of screen

Well Number: AP-2R Date: 5/30/17

Field Personnel: Don Wilson / Mike Ludny

Pump Intake at (ft. below MP): —

Identify Monitoring Point: PVC

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		--	--	--	--	--	--	--	--	--	
0915	4.73	1/3	120ml/m	1.75	S fault						
0925					12.50	574	6.94	171.0	9.24	32.4	
0930					12.55	575	6.93	172.4	3.94	16.3	
0935					12.21	563	6.93	175.6	2.24	11.6	
0940					12.19	559	6.92	179.2	1.76	9.6	
0945					12.25	558	6.92	180.1	1.51	8.3	
0950					12.19	557	6.91	178.3	1.32	8.9	
0955					12.15	559	6.91	181.6	1.22	8.5	
1000					12.21	558	6.91	186.9	1.06	9.1	
1005					12.19	559	6.91	181.1	0.92	8.8	
1010					12.16	558	6.91	180.2	0.88	8.3	
1015					12.15	557	6.90	179.1	0.77	8.1	
					SAMPLED		1015				

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

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

P:\Stephanie\Field Forms\Low Flow Form

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

Page 1 of 1

Location (Site/Facility Name): Eversource Weathersfield — Depth to — (top)/— (bottom) of screen

Well Number: AP-3R Date: 5/30/17

Field Personnel: Dan Wilson / Mike Ludwig — Pump Intake at (ft. below MP): —

Identify Monitoring Point: PVC — 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		--	--	--	--	--	--	--	--	--	DTB: 11.24
1155	2.96	1/3	150ml/m	1.25g		Start					
1205	3.25				13.55	1155	6.46	-194.6	7.01	11.2	
1210	3.34				13.69	1156	6.47	-209.1	0.71	10.3	
1215	3.43				13.76	1146	6.47	-213.8	0.62	9.8	
1220	3.57				13.74	1108	6.50	-195.0	0.67	7.9	
1225	3.67				13.71	1071	6.52	-188.0	0.61	6.0	
1230	3.73				13.76	1038	6.52	-185.2	0.61	3.8	
1235	3.86				13.86	1032	6.53	-189.0	0.64	2.8	
1240	3.92				13.84	1027	6.52	-188.1	0.64	1.5	
1245	3.99				13.83	1025	6.52	-192.5	0.63	1.0	
						SAMPLED 1300					

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

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

P:\Stephanie\Field Forms\Low Flow Form

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

Page 1 of 1

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

Well Number: AP-4R — Date: 5/31/17

Field Personnel: Don Wilson / Mike Ludwig — Pump Intake at (ft. below MP): -14.5'

Identify Monitoring Point: PVC — 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	8.31	--	--	--	--	--	--	--	--	--	DTD = 15.13
11:50	8.56	—	—	—	13.88	1418	7.23	154.1	6.87	27.5	
11:55	8.72	—	—	—	13.75	1407	7.15	160.8	5.82	27.2	
12:00	8.88	—	—	—	13.51	1394	7.13	168.0	5.77	20.3	
12:05	9.06	—	—	—	13.51	1388	7.12	172.1	5.75	18.8	
12:10	9.20	—	—	—	13.69	1387	7.12	174.1	5.75	13.9	
12:15	9.32	—	—	—	13.70	1381	7.10	176.0	5.69	11.5	
12:20	9.43	—	—	—	13.76	1376	7.09	177.8	5.39	4.7	
12:25	9.57	—	—	—	13.89	1374	7.07	180.2	5.15	0.0	
12:30	9.68	—	—	—	14.17	1384	7.06	181.6	4.91	0.0	
12:35	9.81	—	—	—	14.23	1387	7.05	183.3	4.68	0.0	
12:40	9.93	—	—	1.5 gal	14.17	1386	7.03	185.4	4.57	0.0	
←						SAMPLED @	12:45				→

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

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

P:\Stephanie\Field Forms\Low Flow Form

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

Page 1 of 1

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

Well Number: AP-6R Date: 5/31/17

Field Personnel: Don Wilson / Mike Lindsay — Pump Intake at (ft. below MP): -19'

Identify Monitoring Point: PVC — 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	11.87	--	--	--	--	--	--	--	--	--	DTB = 20.08
7:20	12.00	—	—	—	17.10	1515	7.46	73.0	2.80	406.6	
7:25	12.08	—	—	—	17.14	1454	7.37	80.3	2.05	309.3	
7:30	12.13	—	—	—	17.20	1370	7.34	94.4	2.07	211.9	
7:35	12.19	—	—	—	17.17	1349	7.36	105.5	2.08	127.5	
7:40	12.21	—	—	—	17.12	1399	7.36	112.7	1.98	80.1	
7:45	12.25	—	—	—	17.10	1438	7.35	117.1	1.89	68.3	
7:50	12.27	—	—	—	17.07	1481	7.35	121.6	1.80	51.9	
7:55	12.29	—	—	—	17.06	1533	7.34	125.0	1.68	40.7	
8:00	12.30	—	—	—	17.05	1560	7.35	127.6	1.62	32.0	
8:05	12.33	—	—	—	17.04	1596	7.34	130.6	1.56	24.0	
8:10	12.34	—	—	—	17.03	1626	7.34	132.7	1.51	18.6	
8:15	12.35	—	—	—	17.03	1657	7.34	135.0	1.47	14.6	
8:20	12.36	—	—	1.75gal	17.03	1675	7.34	137.1	1.42	10.8	

SAMPLED @ 8:25

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

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

P:\Stephanie\Field Forms\Low Flow Form

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

Page 1 of 1

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

Well Number: AP-9R Date: 5/30/17

Field Personnel: Dan Wilson / Mike Ludwig — Pump Intake at (ft. below MP): —

Identify Monitoring Point: PVC — 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		--	--	--	--	--	--	--	--	--	DTB: 16.75
1330	6.52	1/3	120ml/m	1.5g	Start						
1340	7.12				14.54	739	6.98	30.4	1.27	9.6	
1345	7.27				13.94	727	6.94	42.0	0.83	11.1	
1350	7.42				13.96	726	7.00	45.4	0.70	8.6	
1355	7.52				13.97	726	7.00	46.9	0.68	7.2	
1400	7.77				13.97	728	7.02	47.0	0.68	7.8	
1405	7.88				14.04	728	7.01	45.0	0.74	5.5	
1410	8.03				14.35	733	7.02	41.7	0.85	3.6	
1415	8.19				14.94	743	7.02	34.7	0.95	-2.1	
1420	8.28				14.94	744	7.01	35.4	0.91	-1.8	
1425	8.39				14.76	739	7.00	39.0	0.86	-0.8	
1430	8.52				14.68	737	6.98	41.6	6.84	-3.1	
					Sampled 1500						

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

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

P:\Stephanie\Field Forms\Low Flow Form

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

Page 1 of 1

Location (Site/Facility Name): Eversource Westhartfield — Depth to — (top)/ — (bottom) of screen

Well Number: ~~AP-101R~~ Date: 5/30/17

Field Personnel: Dan Wilson / Mike Ludwig — Pump Intake at (ft. below MP): —

Identify Monitoring Point: PVC — 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		--	--	--	--	--	--	--	--	--	
0745	6.36	1/3	12oz/m	1.5g		Start					
0755	6.89				13.22	569	7.62	104.1	2.61	-0.1	
0800	7.05				12.76	548	7.44	105.6	1.07	0.1	
0805	7.19				12.64	524	7.43	104.9	0.95	-0.1	
0810	7.30				12.54	525	7.43	103.9	0.87	-0.2	
0815	7.39				12.52	523	7.43	106.1	0.74	-0.5	
0820	7.51				12.57	529	7.42	105.1	0.70	-0.1	
0825	7.59				12.55	527	7.42	104.9	0.68	-0.7	
					SAMPLED 0850						

DUP

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

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

P:\Stephanie\Field Forms\Low Flow Form

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

Page 1 of 1

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

Well Number: AP-11R Date: 5/31/17

Field Personnel: Don Wilson / Mike Lading — Pump Intake at (ft. below MP): ~18'

Identify Monitoring Point: PVC — 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	14.33	--	--	--	--	--	--	--	--	--	18.85
9:05	14.53	—	—	—	18.13	1660	7.23	153.4	1.63	8.1	
9:10	14.62	—	—	—	18.11	1645	7.16	151.4	1.13	5.7	
9:15	14.78	—	—	—	18.07	1632	7.12	151.6	1.10	6.1	
9:20	14.91	—	—	—	18.03	1629	7.09	153.7	1.16	5.6	
9:25	15.05	—	—	—	18.00	1625	7.08	156.4	1.15	3.8	
9:30	15.21	—	—	—	17.95	1618	7.08	159.2	1.01	1.6	
9:35	15.30	—	—	—	17.94	1618	7.09	160.3	0.96	0.8	
9:40	15.41	—	—	—	17.92	1613	7.10	162.7	0.83	0.0	
9:45	15.47	—	—	—	17.93	1609	7.10	164.1	0.77	0.0	
9:50	15.55	—	—	—	17.93	1604	7.11	165.3	0.72	0.0	
9:55	15.64	—	—	—	17.92	1605	7.12	166.6	0.68	0.0	
10:00	15.75	—	—	—	17.92	1602	7.12	167.7	0.65	0.0	
10:05	15.79	—	—	1.5 gals	17.91	1603	7.12	169.1	0.62	0.0	

SAMPLED @ 10:10

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

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

MS / MSD

P:\Stephanie\Field Forms\Low Flow Form

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

Page 1 of 1

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

Well Number: AR-12R Date: 5/31/17

Field Personnel: Don Wilson / Mike Ludwig — Pump Intake at (ft. below MP): -14.5'

Identify Monitoring Point: PVC — 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	12.99	--	--	--	--	--	--	--	--	--	DTW=14.50
←					SAMPLED @		1:30				→

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

Stabilized (circle) YES (NO) If no, why? Apex grabbed sample
Not enough water to run through FSI

P:\Stephanie\Field Forms\Low Flow Form



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

June 9, 2017

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

Project Location: 176 Cumberland Ave., Wethersfield, CT
Client Job Number:
Project Number: 6089-015
Laboratory Work Order Number: 17E1528

Enclosed are results of analyses for samples received by the laboratory on May 31, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Table of Contents

Sample Summary 4
Case Narrative 6
Sample Results 9
17E1528-01 9
17E1528-02 17
17E1528-03 25
17E1528-04 33
17E1528-05 41
17E1528-06 49
17E1528-07 57
Sample Preparation Information 59
QC Data 61
Volatile Organic Compounds by GC/MS 61
B178234 61
B178387 63
Semivolatile Organic Compounds by GC/MS 67
B178388 67
Petroleum Hydrocarbons Analyses 72
B178411 72
Metals Analyses (Total) 73
B178259 73
B178416 74
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 75
B178125 75
B178209 75

Table of Contents (continued)

Flag/Qualifier Summary 76

Certifications 77

Chain of Custody/Sample Receipt 81

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: 6/9/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 6089-015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17E1528

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

PROJECT LOCATION: 176 Cumberland Ave., Wethersfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
AP-101R	17E1528-01	Ground Water		CTDEP ETPH	
				SM 4500 CO2 C	
				SM21-22 2320B	
				SM21-22 4500 H B	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-2R	17E1528-02	Ground Water		CTDEP ETPH	
				SM 4500 CO2 C	
				SM21-22 2320B	
				SM21-22 4500 H B	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-1R	17E1528-03	Ground Water		CTDEP ETPH	
				SM 4500 CO2 C	
				SM21-22 2320B	
				SM21-22 4500 H B	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-3R	17E1528-04	Ground Water		CTDEP ETPH	
				SM 4500 CO2 C	
				SM21-22 2320B	
				SM21-22 4500 H B	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-9R	17E1528-05	Ground Water		CTDEP ETPH	
				SM 4500 CO2 C	
				SM21-22 2320B	
				SM21-22 4500 H B	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	

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: 6/9/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 6089-015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17E1528

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

PROJECT LOCATION: 176 Cumberland Ave., Wethersfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
DUP	17E1528-06	Ground Water		CTDEP ETPH	
				SM 4500 CO2 C	
				SM21-22 2320B	
				SM21-22 4500 H B	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
TB20170530	17E1528-07	Trip Blank Water		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.

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

SM21-22 2320B

Qualifications:

SM-01

Sample container does not satisfy method specifications.

Analyte & Samples(s) Qualified:

Alkalinity
17E1528-01[AP-101R], 17E1528-02[AP-2R], 17E1528-03[AP-1R], 17E1528-04[AP-3R], 17E1528-05[AP-9R], 17E1528-06[DUP], B178209-DUP1

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH
17E1528-01[AP-101R], 17E1528-02[AP-2R], 17E1528-03[AP-1R], 17E1528-04[AP-3R], 17E1528-05[AP-9R], 17E1528-06[DUP]

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:

2,2-Dichloropropane
17E1528-01[AP-101R], 17E1528-02[AP-2R], 17E1528-03[AP-1R], 17E1528-04[AP-3R], B178234-BLK1, B178234-BS1

Acetone
17E1528-01[AP-101R], 17E1528-02[AP-2R], 17E1528-03[AP-1R], 17E1528-04[AP-3R], 17E1528-05[AP-9R], 17E1528-06[DUP], 17E1528-07[TB20170530], B178234-BLK1, B178234-BS1, B178387-BLK1, B178387-BS1

V-05

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

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
17E1528-01[AP-101R], 17E1528-02[AP-2R], 17E1528-03[AP-1R], 17E1528-04[AP-3R], B178234-BLK1, B178234-BS1

Acetone
17E1528-01[AP-101R], 17E1528-02[AP-2R], 17E1528-03[AP-1R], 17E1528-04[AP-3R], 17E1528-05[AP-9R], 17E1528-06[DUP], 17E1528-07[TB20170530], B178234-BLK1, B178234-BS1, B178387-BLK1, B178387-BS1

SW-846 8270D

Qualifications:

RL-03

Elevated reporting limit based on lowest point in calibration.
Requested reporting limit not met.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate
17E1528-01[AP-101R], 17E1528-02[AP-2R], 17E1528-03[AP-1R], 17E1528-04[AP-3R], 17E1528-05[AP-9R], 17E1528-06[DUP]

Hexachlorobenzene
17E1528-01[AP-101R], 17E1528-02[AP-2R], 17E1528-03[AP-1R], 17E1528-04[AP-3R], 17E1528-05[AP-9R], 17E1528-06[DUP]

Pentachlorophenol
17E1528-01[AP-101R], 17E1528-02[AP-2R], 17E1528-03[AP-1R], 17E1528-04[AP-3R], 17E1528-05[AP-9R], 17E1528-06[DUP]

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
17E1528-01[AP-101R], 17E1528-02[AP-2R], 17E1528-03[AP-1R], 17E1528-04[AP-3R], 17E1528-05[AP-9R], 17E1528-06[DUP], B178388-BLK1, B178388-BS1, B178388-BSD1

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

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

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8260C

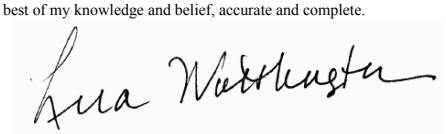
All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

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.

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.

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



Lisa A. Worthington
Project Manager

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-101R Sampled: 5/30/2017 08:50

Sample ID: 17E1528-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1	L-03, V-05	SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-101R Sampled: 5/30/2017 08:50

Sample ID: 17E1528-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 10:42	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.7	70-130		6/3/17 10:42
Toluene-d8	98.9	70-130		6/3/17 10:42
4-Bromofluorobenzene	95.5	70-130		6/3/17 10:42

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-101R Sampled: 5/30/2017 08:50

Sample ID: 17E1528-01

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 (low)	ND	0.29	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Acenaphthylene (low)	ND	0.29	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Aniline	ND	4.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Anthracene (low)	ND	0.19	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Benzo(a)anthracene (low)	ND	0.048	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Benzo(a)pyrene (low)	ND	0.095	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Benzo(b)fluoranthene (low)	ND	0.048	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Benzo(g,h,i)perylene (low)	ND	0.48	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Benzo(k)fluoranthene (low)	ND	0.19	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Bis(2-chloroethoxy)methane	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Bis(2-chloroethyl)ether	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Bis(2-chloroisopropyl)ether	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Bis(2-Ethylhexyl)phthalate	ND	9.5	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 19:45	MJC
4-Bromophenylphenylether	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Butylbenzylphthalate	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Carbazole	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
4-Chloroaniline	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
4-Chloro-3-methylphenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
2-Chloronaphthalene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
2-Chlorophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
4-Chlorophenylphenylether	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Chrysene (low)	ND	0.19	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Dibenz(a,h)anthracene (low)	ND	0.19	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Dibenzofuran	ND	4.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Di-n-butylphthalate	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
3,3-Dichlorobenzidine	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
2,4-Dichlorophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Diethylphthalate	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
2,4-Dimethylphenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Dimethylphthalate	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
4,6-Dinitro-2-methylphenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
2,4-Dinitrophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
2,4-Dinitrotoluene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
2,6-Dinitrotoluene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Di-n-octylphthalate	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Fluoranthene (low)	ND	0.48	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Fluorene (low)	ND	0.95	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Hexachlorobenzene	ND	9.5	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Hexachlorobutadiene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Hexachlorocyclopentadiene	ND	9.5	µg/L	1	V-19	SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Hexachloroethane	ND	1.9	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Indeno(1,2,3-cd)pyrene (low)	ND	0.19	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Isophorone	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
2-Methylnaphthalene (low)	ND	0.95	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM

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

Project Location: 176 Cumberland Ave., Wethersfie | Sample Description: | Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-101R | Sampled: 5/30/2017 08:50

Sample ID: 17E1528-01

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	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
3/4-Methylphenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Naphthalene (low)	ND	0.95	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
2-Nitroaniline	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
3-Nitroaniline	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
4-Nitroaniline	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Nitrobenzene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
2-Nitrophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
4-Nitrophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
N-Nitrosodiphenylamine	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
N-Nitrosodi-n-propylamine	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Pentachloronitrobenzene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Pentachlorophenol	ND	9.5	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Phenanthrene (low)	ND	0.048	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Phenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
Pyrene (low)	ND	0.95	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:21	CJM
Pyridine	ND	4.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
1,2,4,5-Tetrachlorobenzene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
1,2,4-Trichlorobenzene	ND	4.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
2,4,5-Trichlorophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC
2,4,6-Trichlorophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 19:45	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol	37.6	15-110			6/8/17 19:45
Phenol-d6	24.7	15-110			6/8/17 19:45
Nitrobenzene-d5	61.4	30-130			6/8/17 19:45
Nitrobenzene-d5 (low)	81.0	30-130			6/8/17 11:21
2-Fluorobiphenyl	63.1	30-130			6/8/17 19:45
2-Fluorobiphenyl (low)	82.7	30-130			6/8/17 11:21
2,4,6-Tribromophenol	51.6	15-110			6/8/17 19:45
p-Terphenyl-d14	60.9	30-130			6/8/17 19:45
p-Terphenyl-d14 (low)	60.2	30-130			6/8/17 11:21

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-101R Sampled: 5/30/2017 08:50

Sample ID: 17E1528-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.095	0.075	mg/L	1		CTDEP ETPH	6/5/17	6/8/17 17:57	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	86.3	50-150					6/8/17 17:57

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-101R Sampled: 5/30/2017 08:50

Sample ID: 17E1528-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Barium	64	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/6/17	6/7/17 11:29	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:45	MJH

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-101R Sampled: 5/30/2017 08:50

Sample ID: 17E1528-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	250	1.0	mg/L	1	SM-01	SM21-22 2320B	6/1/17	6/1/17 9:45	VAK
pH @21.5°C	7.7		pH Units	1	H-05	SM21-22 4500 H B	5/31/17	5/31/17 20:15	IS

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-101R Sampled: 5/30/2017 08:50

Sample ID: 17E1528-01

Sample Matrix: Ground Water

Miscellaneous Inorganic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Carbon Dioxide	221		mg/L	1		SM 4500 CO2 C	6/2/17	6/2/17 13:58	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-2R Sampled: 5/30/2017 10:15

Sample ID: 17E1528-02

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	L-03, V-05	SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-2R Sampled: 5/30/2017 10:15

Sample ID: 17E1528-02

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	6/1/17	6/3/17 11:13	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:13	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.9	70-130		6/3/17 11:13
Toluene-d8	99.6	70-130		6/3/17 11:13
4-Bromofluorobenzene	95.0	70-130		6/3/17 11:13

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-2R Sampled: 5/30/2017 10:15

Sample ID: 17E1528-02

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 (low)	ND	0.29	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Acenaphthylene (low)	ND	0.29	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Aniline	ND	4.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Anthracene (low)	ND	0.19	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Benzo(a)anthracene (low)	ND	0.048	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Benzo(a)pyrene (low)	ND	0.095	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Benzo(b)fluoranthene (low)	ND	0.048	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Benzo(g,h,i)perylene (low)	ND	0.48	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Benzo(k)fluoranthene (low)	ND	0.19	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Bis(2-chloroethoxy)methane	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Bis(2-chloroethyl)ether	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Bis(2-chloroisopropyl)ether	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Bis(2-Ethylhexyl)phthalate	ND	9.5	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 20:10	MJC
4-Bromophenylphenylether	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Butylbenzylphthalate	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Carbazole	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
4-Chloroaniline	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
4-Chloro-3-methylphenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
2-Chloronaphthalene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
2-Chlorophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
4-Chlorophenylphenylether	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Chrysene (low)	ND	0.19	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Dibenz(a,h)anthracene (low)	ND	0.19	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Dibenzofuran	ND	4.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Di-n-butylphthalate	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
3,3-Dichlorobenzidine	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
2,4-Dichlorophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Diethylphthalate	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
2,4-Dimethylphenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Dimethylphthalate	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
4,6-Dinitro-2-methylphenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
2,4-Dinitrophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
2,4-Dinitrotoluene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
2,6-Dinitrotoluene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Di-n-octylphthalate	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Fluoranthene (low)	ND	0.48	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Fluorene (low)	ND	0.95	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Hexachlorobenzene	ND	9.5	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Hexachlorobutadiene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Hexachlorocyclopentadiene	ND	9.5	µg/L	1	V-19	SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Hexachloroethane	ND	1.9	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Indeno(1,2,3-cd)pyrene (low)	ND	0.19	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Isophorone	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
2-Methylnaphthalene (low)	ND	0.95	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-2R Sampled: 5/30/2017 10:15

Sample ID: 17E1528-02

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	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
3/4-Methylphenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Naphthalene (low)	ND	0.95	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
2-Nitroaniline	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
3-Nitroaniline	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
4-Nitroaniline	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Nitrobenzene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
2-Nitrophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
4-Nitrophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
N-Nitrosodiphenylamine	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
N-Nitrosodi-n-propylamine	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Pentachloronitrobenzene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Pentachlorophenol	ND	9.5	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Phenanthrene (low)	ND	0.048	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Phenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
Pyrene (low)	ND	0.95	µg/L	1		SW-846 8270D	6/5/17	6/8/17 11:49	CJM
Pyridine	ND	4.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
1,2,4,5-Tetrachlorobenzene	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
1,2,4-Trichlorobenzene	ND	4.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
2,4,5-Trichlorophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC
2,4,6-Trichlorophenol	ND	9.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:10	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	35.4	15-110		6/8/17 20:10
Phenol-d6	23.4	15-110		6/8/17 20:10
Nitrobenzene-d5	55.6	30-130		6/8/17 20:10
Nitrobenzene-d5 (low)	77.0	30-130		6/8/17 11:49
2-Fluorobiphenyl	57.8	30-130		6/8/17 20:10
2-Fluorobiphenyl (low)	75.8	30-130		6/8/17 11:49
2,4,6-Tribromophenol	46.3	15-110		6/8/17 20:10
p-Terphenyl-d14	56.7	30-130		6/8/17 20:10
p-Terphenyl-d14 (low)	63.8	30-130		6/8/17 11:49

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-2R Sampled: 5/30/2017 10:15

Sample ID: 17E1528-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	6/5/17	6/8/17 18:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	88.0	50-150						6/8/17 18:14

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-2R Sampled: 5/30/2017 10:15

Sample ID: 17E1528-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Barium	120	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/6/17	6/7/17 11:30	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:48	MJH

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-2R Sampled: 5/30/2017 10:15

Sample ID: 17E1528-02

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	390	1.0	mg/L	1	SM-01	SM21-22 2320B	6/1/17	6/1/17 9:45	VAK
pH @21.4°C	7.4		pH Units	1	H-05	SM21-22 4500 H B	5/31/17	5/31/17 20:15	IS

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-2R Sampled: 5/30/2017 10:15

Sample ID: 17E1528-02

Sample Matrix: Ground Water

Miscellaneous Inorganic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Carbon Dioxide	344		mg/L	1		SM 4500 CO2 C	6/2/17	6/2/17 13:58	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-1R Sampled: 5/30/2017 11:30

Sample ID: 17E1528-03

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	L-03, V-05	SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-1R Sampled: 5/30/2017 11:30

Sample ID: 17E1528-03

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	6/1/17	6/3/17 11:44	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 11:44	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.2	70-130		6/3/17 11:44
Toluene-d8	100	70-130		6/3/17 11:44
4-Bromofluorobenzene	94.8	70-130		6/3/17 11:44

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-1R Sampled: 5/30/2017 11:30

Sample ID: 17E1528-03

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 (low)	ND	0.29	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Acenaphthylene (low)	ND	0.29	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Aniline	ND	4.9	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Benzo(a)anthracene (low)	ND	0.049	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Benzo(a)pyrene (low)	ND	0.098	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Benzo(b)fluoranthene (low)	ND	0.049	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Benzo(g,h,i)perylene (low)	ND	0.49	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Bis(2-chloroethoxy)methane	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Bis(2-chloroethyl)ether	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Bis(2-chloroisopropyl)ether	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Bis(2-Ethylhexyl)phthalate	ND	9.8	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 20:35	MJC
4-Bromophenylphenylether	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Butylbenzylphthalate	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Carbazole	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
4-Chloroaniline	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
4-Chloro-3-methylphenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
2-Chloronaphthalene	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
2-Chlorophenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
4-Chlorophenylphenylether	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Dibenzofuran	ND	4.9	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Di-n-butylphthalate	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
3,3-Dichlorobenzidine	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
2,4-Dichlorophenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Diethylphthalate	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
2,4-Dimethylphenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Dimethylphthalate	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
4,6-Dinitro-2-methylphenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
2,4-Dinitrophenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
2,4-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
2,6-Dinitrotoluene	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Di-n-octylphthalate	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Fluoranthene (low)	ND	0.49	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Fluorene (low)	ND	0.98	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Hexachlorobenzene	ND	9.8	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Hexachlorobutadiene	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Hexachlorocyclopentadiene	ND	9.8	µg/L	1	V-19	SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Isophorone	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
2-Methylnaphthalene (low)	ND	0.98	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-1R Sampled: 5/30/2017 11:30

Sample ID: 17E1528-03

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	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
3/4-Methylphenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Naphthalene (low)	ND	0.98	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
2-Nitroaniline	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
3-Nitroaniline	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
4-Nitroaniline	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Nitrobenzene	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
2-Nitrophenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
4-Nitrophenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
N-Nitrosodiphenylamine	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
N-Nitrosodi-n-propylamine	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Pentachloronitrobenzene	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Pentachlorophenol	ND	9.8	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Phenanthrene (low)	ND	0.049	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Phenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
Pyrene (low)	ND	0.98	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:01	CJM
Pyridine	ND	4.9	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
1,2,4,5-Tetrachlorobenzene	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
1,2,4-Trichlorobenzene	ND	4.9	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
2,4,5-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC
2,4,6-Trichlorophenol	ND	9.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 20:35	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	40.3	15-110		6/8/17 20:35
Phenol-d6	28.9	15-110		6/8/17 20:35
Nitrobenzene-d5	67.5	30-130		6/8/17 20:35
Nitrobenzene-d5 (low)	81.9	30-130		6/8/17 17:01
2-Fluorobiphenyl	70.9	30-130		6/8/17 20:35
2-Fluorobiphenyl (low)	76.1	30-130		6/8/17 17:01
2,4,6-Tribromophenol	60.5	15-110		6/8/17 20:35
p-Terphenyl-d14	69.7	30-130		6/8/17 20:35
p-Terphenyl-d14 (low)	64.6	30-130		6/8/17 17:01

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-1R Sampled: 5/30/2017 11:30

Sample ID: 17E1528-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.11	0.075	mg/L	1		CTDEP ETPH	6/5/17	6/8/17 18:32	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	84.3	50-150				6/8/17 18:32	

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-1R Sampled: 5/30/2017 11:30

Sample ID: 17E1528-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Barium	ND	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/6/17	6/7/17 11:31	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:51	MJH

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-1R Sampled: 5/30/2017 11:30

Sample ID: 17E1528-03

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	310	1.0	mg/L	1	SM-01	SM21-22 2320B	6/1/17	6/1/17 9:45	VAK
pH @21.8°C	7.4		pH Units	1	H-05	SM21-22 4500 H B	5/31/17	5/31/17 20:15	IS

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-1R Sampled: 5/30/2017 11:30

Sample ID: 17E1528-03

Sample Matrix: Ground Water

Miscellaneous Inorganic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Carbon Dioxide	273		mg/L	1		SM 4500 CO2 C	6/2/17	6/2/17 13:58	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-3R Sampled: 5/30/2017 13:00

Sample ID: 17E1528-04

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	L-03, V-05	SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
2-Butanone (MEK)	8.3	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1	L-03, V-05	SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-3R Sampled: 5/30/2017 13:00

Sample ID: 17E1528-04

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	6/1/17	6/3/17 12:14	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/1/17	6/3/17 12:14	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.2	70-130		6/3/17 12:14
Toluene-d8	98.9	70-130		6/3/17 12:14
4-Bromofluorobenzene	97.3	70-130		6/3/17 12:14

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-3R Sampled: 5/30/2017 13:00

Sample ID: 17E1528-04

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 (low)	ND	0.28	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Acenaphthylene (low)	ND	0.28	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Aniline	ND	4.6	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Anthracene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Benzo(a)anthracene (low)	ND	0.046	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Benzo(a)pyrene (low)	ND	0.092	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Benzo(b)fluoranthene (low)	ND	0.046	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Benzo(g,h,i)perylene (low)	ND	0.46	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Benzo(k)fluoranthene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Bis(2-chloroethoxy)methane	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Bis(2-chloroethyl)ether	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Bis(2-chloroisopropyl)ether	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Bis(2-Ethylhexyl)phthalate	ND	9.2	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 21:00	MJC
4-Bromophenylphenylether	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Butylbenzylphthalate	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Carbazole	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
4-Chloroaniline	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
4-Chloro-3-methylphenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
2-Chloronaphthalene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
2-Chlorophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
4-Chlorophenylphenylether	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Chrysene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Dibenz(a,h)anthracene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Dibenzofuran	ND	4.6	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Di-n-butylphthalate	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
3,3-Dichlorobenzidine	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
2,4-Dichlorophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Diethylphthalate	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
2,4-Dimethylphenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Dimethylphthalate	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
4,6-Dinitro-2-methylphenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
2,4-Dinitrophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
2,4-Dinitrotoluene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
2,6-Dinitrotoluene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Di-n-octylphthalate	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Fluoranthene (low)	ND	0.46	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Fluorene (low)	ND	0.92	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Hexachlorobenzene	ND	9.2	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Hexachlorobutadiene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Hexachlorocyclopentadiene	ND	9.2	µg/L	1	V-19	SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Hexachloroethane	ND	1.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Indeno(1,2,3-cd)pyrene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Isophorone	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
2-Methylnaphthalene (low)	ND	0.92	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-3R Sampled: 5/30/2017 13:00

Sample ID: 17E1528-04

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	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
3/4-Methylphenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Naphthalene (low)	ND	0.92	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
2-Nitroaniline	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
3-Nitroaniline	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
4-Nitroaniline	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Nitrobenzene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
2-Nitrophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
4-Nitrophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
N-Nitrosodiphenylamine	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
N-Nitrosodi-n-propylamine	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Pentachloronitrobenzene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Pentachlorophenol	ND	9.2	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Phenanthrene (low)	ND	0.046	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Phenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
Pyrene (low)	ND	0.92	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:29	CJM
Pyridine	ND	4.6	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
1,2,4,5-Tetrachlorobenzene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
1,2,4-Trichlorobenzene	ND	4.6	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
2,4,5-Trichlorophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC
2,4,6-Trichlorophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:00	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	40.4	15-110		6/8/17 21:00
Phenol-d6	28.3	15-110		6/8/17 21:00
Nitrobenzene-d5	64.7	30-130		6/8/17 21:00
Nitrobenzene-d5 (low)	77.5	30-130		6/8/17 17:29
2-Fluorobiphenyl	68.8	30-130		6/8/17 21:00
2-Fluorobiphenyl (low)	71.4	30-130		6/8/17 17:29
2,4,6-Tribromophenol	57.7	15-110		6/8/17 21:00
p-Terphenyl-d14	68.7	30-130		6/8/17 21:00
p-Terphenyl-d14 (low)	63.5	30-130		6/8/17 17:29

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-3R Sampled: 5/30/2017 13:00

Sample ID: 17E1528-04

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.083	0.075	mg/L	1		CTDEP ETPH	6/5/17	6/8/17 18:50	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	83.6	50-150					6/8/17 18:50

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-3R Sampled: 5/30/2017 13:00

Sample ID: 17E1528-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Arsenic	11	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Barium	92	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/6/17	6/7/17 11:32	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:55	MJH

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-3R Sampled: 5/30/2017 13:00

Sample ID: 17E1528-04

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	180	1.0	mg/L	1	SM-01	SM21-22 2320B	6/1/17	6/1/17 9:45	VAK
pH @21.4°C	6.9		pH Units	1	H-05	SM21-22 4500 H B	5/31/17	5/31/17 20:15	IS

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-3R Sampled: 5/30/2017 13:00

Sample ID: 17E1528-04

Sample Matrix: Ground Water

Miscellaneous Inorganic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Carbon Dioxide	158		mg/L	1		SM 4500 CO2 C	6/2/17	6/2/17 13:58	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-9R Sampled: 5/30/2017 15:00

Sample ID: 17E1528-05

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	L-03, V-05	SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-9R Sampled: 5/30/2017 15:00

Sample ID: 17E1528-05

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	6/2/17	6/5/17 11:47	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Tetrahydrofuran	15	10	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 11:47	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.1	70-130		6/5/17 11:47
Toluene-d8	98.4	70-130		6/5/17 11:47
4-Bromofluorobenzene	97.2	70-130		6/5/17 11:47

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-9R Sampled: 5/30/2017 15:00

Sample ID: 17E1528-05

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 (low)	ND	0.27	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Acenaphthylene (low)	ND	0.27	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Aniline	ND	4.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Anthracene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Benzo(a)anthracene (low)	ND	0.045	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Benzo(a)pyrene (low)	ND	0.091	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Benzo(b)fluoranthene (low)	ND	0.045	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Benzo(g,h,i)perylene (low)	ND	0.45	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Benzo(k)fluoranthene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Bis(2-chloroethoxy)methane	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Bis(2-chloroethyl)ether	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Bis(2-chloroisopropyl)ether	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Bis(2-Ethylhexyl)phthalate	ND	9.1	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 21:24	MJC
4-Bromophenylphenylether	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Butylbenzylphthalate	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Carbazole	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
4-Chloroaniline	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
4-Chloro-3-methylphenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
2-Chloronaphthalene	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
2-Chlorophenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
4-Chlorophenylphenylether	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Chrysene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Dibenz(a,h)anthracene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Dibenzofuran	ND	4.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Di-n-butylphthalate	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
3,3-Dichlorobenzidine	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
2,4-Dichlorophenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Diethylphthalate	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
2,4-Dimethylphenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Dimethylphthalate	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
4,6-Dinitro-2-methylphenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
2,4-Dinitrophenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
2,4-Dinitrotoluene	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
2,6-Dinitrotoluene	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Di-n-octylphthalate	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Fluoranthene (low)	ND	0.45	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Fluorene (low)	ND	0.91	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Hexachlorobenzene	ND	9.1	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Hexachlorobutadiene	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Hexachlorocyclopentadiene	ND	9.1	µg/L	1	V-19	SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Hexachloroethane	ND	1.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Indeno(1,2,3-cd)pyrene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Isophorone	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
2-Methylnaphthalene (low)	ND	0.91	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-9R Sampled: 5/30/2017 15:00

Sample ID: 17E1528-05

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	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
3/4-Methylphenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Naphthalene (low)	ND	0.91	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
2-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
3-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
4-Nitroaniline	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Nitrobenzene	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
2-Nitrophenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
4-Nitrophenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
N-Nitrosodiphenylamine	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
N-Nitrosodi-n-propylamine	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Pentachloronitrobenzene	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Pentachlorophenol	ND	9.1	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Phenanthrene (low)	ND	0.045	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Phenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
Pyrene (low)	ND	0.91	µg/L	1		SW-846 8270D	6/5/17	6/8/17 17:57	CJM
Pyridine	ND	4.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
1,2,4,5-Tetrachlorobenzene	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
1,2,4-Trichlorobenzene	ND	4.5	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
2,4,5-Trichlorophenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC
2,4,6-Trichlorophenol	ND	9.1	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:24	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	38.8	15-110		6/8/17 21:24
Phenol-d6	26.2	15-110		6/8/17 21:24
Nitrobenzene-d5	66.8	30-130		6/8/17 21:24
Nitrobenzene-d5 (low)	76.1	30-130		6/8/17 17:57
2-Fluorobiphenyl	69.7	30-130		6/8/17 21:24
2-Fluorobiphenyl (low)	68.5	30-130		6/8/17 17:57
2,4,6-Tribromophenol	53.1	15-110		6/8/17 21:24
p-Terphenyl-d14	66.6	30-130		6/8/17 21:24
p-Terphenyl-d14 (low)	59.1	30-130		6/8/17 17:57

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-9R Sampled: 5/30/2017 15:00

Sample ID: 17E1528-05

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.10	0.075	mg/L	1		CTDEP ETPH	6/5/17	6/8/17 19:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	101	50-150				6/8/17 19:07	

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-9R Sampled: 5/30/2017 15:00

Sample ID: 17E1528-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Barium	62	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/6/17	6/7/17 11:37	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 5:58	MJH

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-9R Sampled: 5/30/2017 15:00

Sample ID: 17E1528-05

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	240	1.0	mg/L	1	SM-01	SM21-22 2320B	6/1/17	6/1/17 9:45	VAK
pH @21.7°C	7.4		pH Units	1	H-05	SM21-22 4500 H B	5/31/17	5/31/17 20:15	IS

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: AP-9R Sampled: 5/30/2017 15:00

Sample ID: 17E1528-05

Sample Matrix: Ground Water

Miscellaneous Inorganic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Carbon Dioxide	211		mg/L	1		SM 4500 CO2 C	6/2/17	6/2/17 13:58	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: DUP Sampled: 5/30/2017 00:00

Sample ID: 17E1528-06

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	L-03, V-05	SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: DUP Sampled: 5/30/2017 00:00

Sample ID: 17E1528-06

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	6/2/17	6/5/17 12:29	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 12:29	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.2	70-130		6/5/17 12:29
Toluene-d8	100	70-130		6/5/17 12:29
4-Bromofluorobenzene	98.0	70-130		6/5/17 12:29

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: DUP Sampled: 5/30/2017 00:00

Sample ID: 17E1528-06

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 (low)	ND	0.28	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Acenaphthylene (low)	ND	0.28	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Aniline	ND	4.6	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Anthracene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Benzo(a)anthracene (low)	ND	0.046	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Benzo(a)pyrene (low)	ND	0.092	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Benzo(b)fluoranthene (low)	ND	0.046	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Benzo(g,h,i)perylene (low)	ND	0.46	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Benzo(k)fluoranthene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Bis(2-chloroethoxy)methane	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Bis(2-chloroethyl)ether	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Bis(2-chloroisopropyl)ether	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Bis(2-Ethylhexyl)phthalate	ND	9.2	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 21:49	MJC
4-Bromophenylphenylether	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Butylbenzylphthalate	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Carbazole	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
4-Chloroaniline	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
4-Chloro-3-methylphenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
2-Chloronaphthalene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
2-Chlorophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
4-Chlorophenylphenylether	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Chrysene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Dibenz(a,h)anthracene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Dibenzofuran	ND	4.6	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Di-n-butylphthalate	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
3,3-Dichlorobenzidine	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
2,4-Dichlorophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Diethylphthalate	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
2,4-Dimethylphenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Dimethylphthalate	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
4,6-Dinitro-2-methylphenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
2,4-Dinitrophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
2,4-Dinitrotoluene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
2,6-Dinitrotoluene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Di-n-octylphthalate	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Fluoranthene (low)	ND	0.46	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Fluorene (low)	ND	0.92	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Hexachlorobenzene	ND	9.2	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Hexachlorobutadiene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Hexachlorocyclopentadiene	ND	9.2	µg/L	1	V-19	SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Hexachloroethane	ND	1.8	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Indeno(1,2,3-cd)pyrene (low)	ND	0.18	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Isophorone	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
2-Methylnaphthalene (low)	ND	0.92	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: DUP Sampled: 5/30/2017 00:00

Sample ID: 17E1528-06

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	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
3/4-Methylphenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Naphthalene (low)	ND	0.92	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
2-Nitroaniline	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
3-Nitroaniline	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
4-Nitroaniline	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Nitrobenzene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
2-Nitrophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
4-Nitrophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
N-Nitrosodiphenylamine	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
N-Nitrosodi-n-propylamine	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Pentachloronitrobenzene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Pentachlorophenol	ND	9.2	µg/L	1	RL-03	SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Phenanthrene (low)	ND	0.046	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Phenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
Pyrene (low)	ND	0.92	µg/L	1		SW-846 8270D	6/5/17	6/8/17 18:26	CJM
Pyridine	ND	4.6	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
1,2,4,5-Tetrachlorobenzene	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
1,2,4-Trichlorobenzene	ND	4.6	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
2,4,5-Trichlorophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC
2,4,6-Trichlorophenol	ND	9.2	µg/L	1		SW-846 8270D	6/5/17	6/8/17 21:49	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	46.1	15-110		6/8/17 21:49
Phenol-d6	32.6	15-110		6/8/17 21:49
Nitrobenzene-d5	72.6	30-130		6/8/17 21:49
Nitrobenzene-d5 (low)	80.5	30-130		6/8/17 18:26
2-Fluorobiphenyl	76.7	30-130		6/8/17 21:49
2-Fluorobiphenyl (low)	73.7	30-130		6/8/17 18:26
2,4,6-Tribromophenol	64.1	15-110		6/8/17 21:49
p-Terphenyl-d14	73.3	30-130		6/8/17 21:49
p-Terphenyl-d14 (low)	60.4	30-130		6/8/17 18:26

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: DUP Sampled: 5/30/2017 00:00

Sample ID: 17E1528-06

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.11	0.075	mg/L	1		CTDEP ETPH	6/5/17	6/8/17 19:25	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	82.3	50-150				6/8/17 19:25	

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: DUP Sampled: 5/30/2017 00:00

Sample ID: 17E1528-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Barium	65	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/6/17	6/7/17 11:39	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 6:02	MJH

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: DUP Sampled: 5/30/2017 00:00

Sample ID: 17E1528-06

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	240	1.0	mg/L	1	SM-01	SM21-22 2320B	6/1/17	6/1/17 9:45	VAK
pH @21.9°C	7.8		pH Units	1	H-05	SM21-22 4500 H B	5/31/17	5/31/17 20:15	IS

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

Project Location: 176 Cumberland Ave., Wethersfie | Sample Description: | Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: DUP | Sampled: 5/30/2017 00:00

Sample ID: 17E1528-06

Sample Matrix: Ground Water

Miscellaneous Inorganic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Carbon Dioxide	212		mg/L	1		SM 4500 CO2 C	6/2/17	6/2/17 13:58	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: TB20170530 Sampled: 5/30/2017 08:00

Sample ID: 17E1528-07

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	L-03, V-05	SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17E1528

Date Received: 5/31/2017

Field Sample #: TB20170530 Sampled: 5/30/2017 08:00

Sample ID: 17E1528-07

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	6/2/17	6/5/17 10:46	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/2/17	6/5/17 10:46	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.1	70-130		6/5/17 10:46
Toluene-d8	101	70-130		6/5/17 10:46
4-Bromofluorobenzene	94.6	70-130		6/5/17 10:46

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
17E1528-01 [AP-101R]	B178411	1000	1.00	06/05/17
17E1528-02 [AP-2R]	B178411	1000	1.00	06/05/17
17E1528-03 [AP-1R]	B178411	1000	1.00	06/05/17
17E1528-04 [AP-3R]	B178411	1000	1.00	06/05/17
17E1528-05 [AP-9R]	B178411	1000	1.00	06/05/17
17E1528-06 [DUP]	B178411	1000	1.00	06/05/17

SM 4500 CO2 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17E1528-01 [AP-101R]	B178269	1.00	1.00	06/02/17
17E1528-02 [AP-2R]	B178269	1.00	1.00	06/02/17
17E1528-03 [AP-1R]	B178269	1.00	1.00	06/02/17
17E1528-04 [AP-3R]	B178269	1.00	1.00	06/02/17
17E1528-05 [AP-9R]	B178269	1.00	1.00	06/02/17
17E1528-06 [DUP]	B178269	1.00	1.00	06/02/17

SM21-22 2320B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17E1528-01 [AP-101R]	B178209	100	100	06/01/17
17E1528-02 [AP-2R]	B178209	100	100	06/01/17
17E1528-03 [AP-1R]	B178209	100	100	06/01/17
17E1528-04 [AP-3R]	B178209	100	100	06/01/17
17E1528-05 [AP-9R]	B178209	100	100	06/01/17
17E1528-06 [DUP]	B178209	100	100	06/01/17

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
17E1528-01 [AP-101R]	B178125	50.0	05/31/17
17E1528-02 [AP-2R]	B178125	50.0	05/31/17
17E1528-03 [AP-1R]	B178125	50.0	05/31/17
17E1528-04 [AP-3R]	B178125	50.0	05/31/17
17E1528-05 [AP-9R]	B178125	50.0	05/31/17
17E1528-06 [DUP]	B178125	50.0	05/31/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17E1528-01 [AP-101R]	B178259	50.0	50.0	06/01/17
17E1528-02 [AP-2R]	B178259	50.0	50.0	06/01/17
17E1528-03 [AP-1R]	B178259	50.0	50.0	06/01/17
17E1528-04 [AP-3R]	B178259	50.0	50.0	06/01/17
17E1528-05 [AP-9R]	B178259	50.0	50.0	06/01/17
17E1528-06 [DUP]	B178259	50.0	50.0	06/01/17

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 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17E1528-01 [AP-101R]	B178416	6.00	6.00	06/06/17
17E1528-02 [AP-2R]	B178416	6.00	6.00	06/06/17
17E1528-03 [AP-1R]	B178416	6.00	6.00	06/06/17
17E1528-04 [AP-3R]	B178416	6.00	6.00	06/06/17
17E1528-05 [AP-9R]	B178416	6.00	6.00	06/06/17
17E1528-06 [DUP]	B178416	6.00	6.00	06/06/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17E1528-01 [AP-101R]	B178234	5	5.00	06/01/17
17E1528-02 [AP-2R]	B178234	5	5.00	06/01/17
17E1528-03 [AP-1R]	B178234	5	5.00	06/01/17
17E1528-04 [AP-3R]	B178234	5	5.00	06/01/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17E1528-05 [AP-9R]	B178387	5	5.00	06/02/17
17E1528-06 [DUP]	B178387	5	5.00	06/02/17
17E1528-07 [TB20170530]	B178387	5	5.00	06/02/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17E1528-01 [AP-101R]	B178388	1050	1.00	06/05/17
17E1528-02 [AP-2R]	B178388	1050	1.00	06/05/17
17E1528-03 [AP-1R]	B178388	1020	1.00	06/05/17
17E1528-04 [AP-3R]	B178388	980	0.900	06/05/17
17E1528-05 [AP-9R]	B178388	990	0.900	06/05/17
17E1528-06 [DUP]	B178388	980	0.900	06/05/17

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 B178234 - SW-846 5030B										
Blank (B178234-BLK1)				Prepared: 06/01/17 Analyzed: 06/03/17						
Acetone	ND	10	µg/L							L-03, V-05
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	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
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							L-03, V-05
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							

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 B178234 - SW-846 5030B											
Blank (B178234-BLK1)				Prepared: 06/01/17 Analyzed: 06/03/17							
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	0.50	µg/L								
1,2,4-Trichlorobenzene	ND	0.50	µg/L								
1,1,1-Trichloroethane	ND	0.50	µg/L								
1,1,2-Trichloroethane	ND	0.50	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	0.50	µg/L								
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	*22.7*		µg/L	25.0		90.8		70-130			
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		99.0		70-130			
Surrogate: 4-Bromofluorobenzene	*24.1*		µg/L	25.0		96.2		70-130			
LCS (B178234-BS1)				Prepared: 06/01/17 Analyzed: 06/03/17							
Acetone	53.4	10	µg/L	100		**53.4**	*	70-130			L-03, V-05
Acrylonitrile	10.7	2.0	µg/L	10.0		107		70-130			
Benzene	10.4	0.50	µg/L	10.0		104		70-130			
Bromobenzene	10.4	0.50	µg/L	10.0		104		70-130			
Bromodichloromethane	9.71	0.50	µg/L	10.0		97.1		70-130			
Bromoform	9.64	0.50	µg/L	10.0		96.4		70-130			
Bromomethane	9.73	1.0	µg/L	10.0		97.3		70-130			
2-Butanone (MEK)	83.9	5.0	µg/L	100		83.9		70-130			
n-Butylbenzene	10.4	1.0	µg/L	10.0		104		70-130			
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105		70-130			
tert-Butylbenzene	9.97	1.0	µg/L	10.0		99.7		70-130			
Carbon Disulfide	111	5.0	µg/L	100		111		70-130			
Carbon Tetrachloride	9.92	0.50	µg/L	10.0		99.2		70-130			
Chlorobenzene	10.2	0.50	µg/L	10.0		102		70-130			
Chlorodibromomethane	9.87	0.50	µg/L	10.0		98.7		70-130			
Chloroethane	8.64	0.50	µg/L	10.0		86.4		70-130			
Chloroform	9.23	0.50	µg/L	10.0		92.3		70-130			
Chloromethane	8.96	0.60	µg/L	10.0		89.6		70-130			
2-Chlorotoluene	10.7	0.50	µg/L	10.0		107		70-130			
4-Chlorotoluene	10.7	0.50	µg/L	10.0		107		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.90	0.50	µg/L	10.0		99.0		70-130			
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0		103		70-130			
Dibromomethane	11.2	0.50	µg/L	10.0		112		70-130			
1,2-Dichlorobenzene	9.35	0.50	µg/L	10.0		93.5		70-130			
1,3-Dichlorobenzene	9.24	0.50	µg/L	10.0		92.4		70-130			
1,4-Dichlorobenzene	9.24	0.50	µg/L	10.0		92.4		70-130			
trans-1,4-Dichloro-2-butene	7.85	2.0	µg/L	10.0		78.5		70-130			
Dichlorodifluoromethane (Freon 12)	9.46	0.50	µg/L	10.0		94.6		70-130			
1,1-Dichloroethane	10.1	0.50	µg/L	10.0		101		70-130			
1,2-Dichloroethane	9.29	0.50	µg/L	10.0		92.9		70-130			
1,1-Dichloroethylene	8.62	0.50	µg/L	10.0		86.2		70-130			

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 B178234 - SW-846 5030B											
LCS (B178234-BS1)				Prepared: 06/01/17 Analyzed: 06/03/17							
cis-1,2-Dichloroethylene	9.20	0.50	µg/L	10.0		92.0		70-130			
trans-1,2-Dichloroethylene	9.71	1.0	µg/L	10.0		97.1		70-130			
1,2-Dichloropropane	10.8	0.50	µg/L	10.0		108		70-130			
1,3-Dichloropropane	10.8	0.50	µg/L	10.0		108		70-130			
2,2-Dichloropropane	6.39	0.50	µg/L	10.0		**63.9**	*	70-130			L-03, V-05
1,1-Dichloropropene	10.3	0.50	µg/L	10.0		103		70-130			
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102		70-130			
trans-1,3-Dichloropropene	9.87	0.50	µg/L	10.0		98.7		70-130			
Ethylbenzene	10.7	0.50	µg/L	10.0		107		70-130			
Hexachlorobutadiene	9.77	0.60	µg/L	10.0		97.7		70-130			
2-Hexanone (MBK)	96.6	5.0	µg/L	100		96.6		70-130			
Isopropylbenzene (Cumene)	10.8	0.50	µg/L	10.0		108		70-130			
p-Isopropyltoluene (p-Cymene)	10.2	0.50	µg/L	10.0		102		70-130			
Methyl tert-Butyl Ether (MTBE)	10.2	0.50	µg/L	10.0		102		70-130			
Methylene Chloride	9.72	5.0	µg/L	10.0		97.2		70-130			
4-Methyl-2-pentanone (MIBK)	104	5.0	µg/L	100		104		70-130			
Naphthalene	9.50	2.0	µg/L	10.0		95.0		70-130			
n-Propylbenzene	10.8	1.0	µg/L	10.0		108		70-130			
Styrene	11.0	1.0	µg/L	10.0		110		70-130			
1,1,1,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102		70-130			
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105		70-130			
Tetrachloroethylene	9.90	1.0	µg/L	10.0		99.0		70-130			
Tetrahydrofuran	9.85	10	µg/L	10.0		98.5		70-130			
Toluene	10.8	1.0	µg/L	10.0		108		70-130			
1,2,3-Trichlorobenzene	9.67	0.50	µg/L	10.0		96.7		70-130			
1,2,4-Trichlorobenzene	9.37	0.50	µg/L	10.0		93.7		70-130			
1,1,1-Trichloroethane	9.30	0.50	µg/L	10.0		93.0		70-130			
1,1,2-Trichloroethane	10.4	0.50	µg/L	10.0		104		70-130			
Trichloroethylene	9.91	1.0	µg/L	10.0		99.1		70-130			
Trichlorofluoromethane (Freon 11)	9.58	2.0	µg/L	10.0		95.8		70-130			
1,2,3-Trichloropropane	9.66	0.50	µg/L	10.0		96.6		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.51	0.50	µg/L	10.0		95.1		70-130			
1,2,4-Trimethylbenzene	10.4	0.50	µg/L	10.0		104		70-130			
1,3,5-Trimethylbenzene	10.9	0.50	µg/L	10.0		109		70-130			
Vinyl Chloride	9.14	1.0	µg/L	10.0		91.4		70-130			
m+p Xylene	21.1	2.0	µg/L	20.0		105		70-130			
o-Xylene	10.4	1.0	µg/L	10.0		104		70-130			
Surrogate: 1,2-Dichloroethane-d4	*22.3*		µg/L	25.0		89.4		70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.2		70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100		70-130			
Batch B178387 - SW-846 5030B											
Blank (B178387-BLK1)				Prepared & Analyzed: 06/05/17							
Acetone	ND	10	µg/L								L-03, V-05
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								

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 B178387 - SW-846 5030B										
Blank (B178387-BLK1)				Prepared & Analyzed: 06/05/17						
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	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
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							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							

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 B178387 - SW-846 5030B											
Blank (B178387-BLK1)				Prepared & Analyzed: 06/05/17							
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	*22.4*		µg/L	25.0		89.6		70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100		70-130			
Surrogate: 4-Bromofluorobenzene	*24.0*		µg/L	25.0		95.8		70-130			
LCS (B178387-BS1)				Prepared & Analyzed: 06/05/17							
Acetone	54.6	10	µg/L	100		**54.6**	*	70-130			L-03, V-05
Acrylonitrile	11.0	2.0	µg/L	10.0		110		70-130			
Benzene	10.5	0.50	µg/L	10.0		105		70-130			
Bromobenzene	10.5	0.50	µg/L	10.0		105		70-130			
Bromodichloromethane	9.76	0.50	µg/L	10.0		97.6		70-130			
Bromoform	9.88	0.50	µg/L	10.0		98.8		70-130			
Bromomethane	9.56	1.0	µg/L	10.0		95.6		70-130			
2-Butanone (MEK)	88.3	5.0	µg/L	100		88.3		70-130			
n-Butylbenzene	10.5	1.0	µg/L	10.0		105		70-130			
sec-Butylbenzene	10.4	1.0	µg/L	10.0		104		70-130			
tert-Butylbenzene	9.94	1.0	µg/L	10.0		99.4		70-130			
Carbon Disulfide	112	5.0	µg/L	100		112		70-130			
Carbon Tetrachloride	9.76	0.50	µg/L	10.0		97.6		70-130			
Chlorobenzene	9.90	0.50	µg/L	10.0		99.0		70-130			
Chlorodibromomethane	10.3	0.50	µg/L	10.0		103		70-130			
Chloroethane	9.31	0.50	µg/L	10.0		93.1		70-130			
Chloroform	9.04	0.50	µg/L	10.0		90.4		70-130			
Chloromethane	9.03	0.60	µg/L	10.0		90.3		70-130			
2-Chlorotoluene	10.9	0.50	µg/L	10.0		109		70-130			
4-Chlorotoluene	10.8	0.50	µg/L	10.0		108		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.1	0.50	µg/L	10.0		111		70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104		70-130			
Dibromomethane	10.9	0.50	µg/L	10.0		109		70-130			
1,2-Dichlorobenzene	9.43	0.50	µg/L	10.0		94.3		70-130			
1,3-Dichlorobenzene	9.06	0.50	µg/L	10.0		90.6		70-130			
1,4-Dichlorobenzene	9.14	0.50	µg/L	10.0		91.4		70-130			
trans-1,4-Dichloro-2-butene	9.60	2.0	µg/L	10.0		96.0		70-130			
Dichlorodifluoromethane (Freon 12)	8.86	0.50	µg/L	10.0		88.6		70-130			
1,1-Dichloroethane	10.2	0.50	µg/L	10.0		102		70-130			
1,2-Dichloroethane	9.22	0.50	µg/L	10.0		92.2		70-130			
1,1-Dichloroethylene	8.59	0.50	µg/L	10.0		85.9		70-130			
cis-1,2-Dichloroethylene	9.66	0.50	µg/L	10.0		96.6		70-130			
trans-1,2-Dichloroethylene	9.95	1.0	µg/L	10.0		99.5		70-130			
1,2-Dichloropropane	10.8	0.50	µg/L	10.0		108		70-130			
1,3-Dichloropropane	10.9	0.50	µg/L	10.0		109		70-130			
2,2-Dichloropropane	10.0	0.50	µg/L	10.0		100		70-130			
1,1-Dichloropropene	10.2	0.50	µg/L	10.0		102		70-130			
cis-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112		70-130			
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112		70-130			

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 B178387 - SW-846 5030B										
LCS (B178387-BS1)				Prepared & Analyzed: 06/05/17						
Ethylbenzene	10.7	0.50	µg/L	10.0		107	70-130			
Hexachlorobutadiene	9.95	0.60	µg/L	10.0		99.5	70-130			
2-Hexanone (MBK)	102	5.0	µg/L	100		102	70-130			
Isopropylbenzene (Cumene)	10.8	0.50	µg/L	10.0		108	70-130			
p-Isopropyltoluene (p-Cymene)	10.0	0.50	µg/L	10.0		100	70-130			
Methyl tert-Butyl Ether (MTBE)	10.6	0.50	µg/L	10.0		106	70-130			
Methylene Chloride	9.42	5.0	µg/L	10.0		94.2	70-130			
4-Methyl-2-pentanone (MIBK)	110	5.0	µg/L	100		110	70-130			
Naphthalene	11.7	2.0	µg/L	10.0		117	70-130			
n-Propylbenzene	10.9	1.0	µg/L	10.0		109	70-130			
Styrene	11.2	1.0	µg/L	10.0		112	70-130			
1,1,1,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130			
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105	70-130			
Tetrachloroethylene	10.0	1.0	µg/L	10.0		100	70-130			
Tetrahydrofuran	10.3	10	µg/L	10.0		103	70-130			
Toluene	10.9	1.0	µg/L	10.0		109	70-130			
1,2,3-Trichlorobenzene	10.7	0.50	µg/L	10.0		107	70-130			
1,2,4-Trichlorobenzene	10.3	0.50	µg/L	10.0		103	70-130			
1,1,1-Trichloroethane	9.33	0.50	µg/L	10.0		93.3	70-130			
1,1,2-Trichloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Trichloroethylene	9.96	1.0	µg/L	10.0		99.6	70-130			
Trichlorofluoromethane (Freon 11)	9.37	2.0	µg/L	10.0		93.7	70-130			
1,2,3-Trichloropropane	10.1	0.50	µg/L	10.0		101	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.97	0.50	µg/L	10.0		99.7	70-130			
1,2,4-Trimethylbenzene	10.3	0.50	µg/L	10.0		103	70-130			
1,3,5-Trimethylbenzene	11.0	0.50	µg/L	10.0		110	70-130			
Vinyl Chloride	9.31	1.0	µg/L	10.0		93.1	70-130			
m+p Xylene	20.9	2.0	µg/L	20.0		104	70-130			
o-Xylene	10.5	1.0	µg/L	10.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	*22.2*		µg/L	25.0		88.8	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.2	70-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178388 - SW-846 3510C										
Blank (B178388-BLK1)				Prepared: 06/05/17 Analyzed: 06/06/17						
Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	ND	0.050	µg/L							
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	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							
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 (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-19
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene (low)	ND	1.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B178388 - SW-846 3510C											
Blank (B178388-BLK1)				Prepared: 06/05/17 Analyzed: 06/08/17							
4-Nitrophenol	ND	10	µg/L								
N-Nitrosodiphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachloronitrobenzene	ND	10	µg/L								
Pentachlorophenol	ND	10	µg/L								
Phenanthrene (low)	ND	0.050	µg/L								
Phenol	ND	10	µg/L								
Pyrene (low)	ND	1.0	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	*90.3*		µg/L	200		45.2		15-110			
Surrogate: Phenol-d6	*65.6*		µg/L	200		32.8		15-110			
Surrogate: Nitrobenzene-d5	*67.8*		µg/L	100		67.8		30-130			
Surrogate: Nitrobenzene-d5 (low)	*91.5*		µg/L	100		91.5		30-130			
Surrogate: 2-Fluorobiphenyl	*70.8*		µg/L	100		70.8		30-130			
Surrogate: 2-Fluorobiphenyl (low)	*98.6*		µg/L	100		98.6		30-130			
Surrogate: 2,4,6-Tribromophenol	*120*		µg/L	200		60.2		15-110			
Surrogate: p-Terphenyl-d14	*76.6*		µg/L	100		76.6		30-130			
Surrogate: p-Terphenyl-d14 (low)	*92.6*		µg/L	100		92.6		30-130			
LCS (B178388-BS1)				Prepared: 06/05/17 Analyzed: 06/06/17							
Acenaphthene (low)	48.9	7.5	µg/L	50.0		97.8		40-140			
Acenaphthylene (low)	46.2	7.5	µg/L	50.0		92.4		40-140			
Aniline	21.6	5.0	µg/L	50.0		43.3		40-140			†
Anthracene (low)	50.7	5.0	µg/L	50.0		101		40-140			
Benzo(a)anthracene (low)	48.8	1.2	µg/L	50.0		97.6		40-140			
Benzo(a)pyrene (low)	52.2	2.5	µg/L	50.0		104		40-140			
Benzo(b)fluoranthene (low)	54.7	1.2	µg/L	50.0		109		40-140			
Benzo(g,h,i)perylene (low)	48.0	12	µg/L	50.0		96.1		40-140			
Benzo(k)fluoranthene (low)	55.1	5.0	µg/L	50.0		110		40-140			
Bis(2-chloroethoxy)methane	35.0	10	µg/L	50.0		70.1		40-140			
Bis(2-chloroethyl)ether	37.2	10	µg/L	50.0		74.5		40-140			
Bis(2-chloroisopropyl)ether	35.3	10	µg/L	50.0		70.6		40-140			
Bis(2-Ethylhexyl)phthalate	32.3	10	µg/L	50.0		64.6		40-140			
4-Bromophenylphenylether	34.5	10	µg/L	50.0		69.0		40-140			
Butylbenzylphthalate	34.2	10	µg/L	50.0		68.3		40-140			
Carbazole	34.7	10	µg/L	50.0		69.3		40-140			
4-Chloroaniline	19.7	10	µg/L	50.0		**39.4**	*	40-140			†
4-Chloro-3-methylphenol	35.8	10	µg/L	50.0		71.7		30-130			
2-Chloronaphthalene	29.8	10	µg/L	50.0		59.6		40-140			
2-Chlorophenol	35.0	10	µg/L	50.0		70.1		30-130			
4-Chlorophenylphenylether	34.4	10	µg/L	50.0		68.8		40-140			
Chrysene (low)	49.3	5.0	µg/L	50.0		98.6		40-140			
Dibenz(a,h)anthracene (low)	51.4	5.0	µg/L	50.0		103		40-140			
Dibenzofuran	35.8	5.0	µg/L	50.0		71.6		40-140			
Di-n-butylphthalate	34.3	10	µg/L	50.0		68.6		40-140			
3,3-Dichlorobenzidine	31.0	10	µg/L	50.0		62.1		40-140			†
2,4-Dichlorophenol	34.7	10	µg/L	50.0		69.4		30-130			
Diethylphthalate	34.3	10	µg/L	50.0		68.7		40-140			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B178388 - SW-846 3510C											
LCS (B178388-BS1)				Prepared: 06/05/17 Analyzed: 06/08/17							
2,4-Dimethylphenol	28.0	10	µg/L	50.0		56.0	30-130				
Dimethylphthalate	35.6	10	µg/L	50.0		71.1	40-140				
4,6-Dinitro-2-methylphenol	35.4	10	µg/L	50.0		70.7	30-130				
2,4-Dinitrophenol	35.5	10	µg/L	50.0		71.1	30-130				
2,4-Dinitrotoluene	33.6	10	µg/L	50.0		67.2	40-140				
2,6-Dinitrotoluene	34.7	10	µg/L	50.0		69.4	40-140				
Di-n-octylphthalate	34.3	10	µg/L	50.0		68.6	40-140				
Fluoranthene (low)	49.4	12	µg/L	50.0		98.8	40-140				
Fluorene (low)	49.4	25	µg/L	50.0		98.8	40-140				
Hexachlorobenzene	33.6	10	µg/L	50.0		67.1	40-140				
Hexachlorobutadiene	33.7	10	µg/L	50.0		67.3	40-140				
Hexachlorocyclopentadiene	32.7	10	µg/L	50.0		65.4	30-140			V-19	
Hexachloroethane	32.7	10	µg/L	50.0		65.3	40-140				
Indeno(1,2,3-cd)pyrene (low)	48.1	5.0	µg/L	50.0		96.2	40-140				
Isophorone	34.4	10	µg/L	50.0		68.9	40-140				
2-Methylnaphthalene (low)	50.0	25	µg/L	50.0		99.9	40-140				
2-Methylphenol	29.2	10	µg/L	50.0		58.4	30-130				
3/4-Methylphenol	30.8	10	µg/L	50.0		61.5	30-130				
Naphthalene (low)	46.2	25	µg/L	50.0		92.4	40-140				
2-Nitroaniline	36.0	10	µg/L	50.0		71.9	40-140				
3-Nitroaniline	26.5	10	µg/L	50.0		53.1	40-140				†
4-Nitroaniline	30.0	10	µg/L	50.0		59.9	40-140				
Nitrobenzene	33.0	10	µg/L	50.0		65.9	40-140				
2-Nitrophenol	33.7	10	µg/L	50.0		67.5	30-130				
4-Nitrophenol	20.6	10	µg/L	50.0		41.1	10-130				
N-Nitrosodiphenylamine	44.6	10	µg/L	50.0		89.2	40-140				
N-Nitrosodi-n-propylamine	35.4	10	µg/L	50.0		70.8	40-140				
Pentachloronitrobenzene	35.3	10	µg/L	50.0		70.6	40-140				
Pentachlorophenol	27.1	10	µg/L	50.0		54.3	30-130				
Phenanthrene (low)	49.8	1.2	µg/L	50.0		99.6	40-140				
Phenol	16.0	10	µg/L	50.0		32.0	20-130				
Pyrene (low)	51.8	25	µg/L	50.0		104	40-140				
Pyridine	23.4	5.0	µg/L	50.0		46.7	10-140				†
1,2,4,5-Tetrachlorobenzene	36.4	10	µg/L	50.0		72.7	40-140				
1,2,4-Trichlorobenzene	33.0	5.0	µg/L	50.0		66.0	40-140				
2,4,5-Trichlorophenol	34.6	10	µg/L	50.0		69.2	30-130				
2,4,6-Trichlorophenol	34.0	10	µg/L	50.0		68.1	30-130				
Surrogate: 2-Fluorophenol	*97.4*		µg/L	200		48.7	15-110				
Surrogate: Phenol-d6	*69.5*		µg/L	200		34.8	15-110				
Surrogate: Nitrobenzene-d5	*72.1*		µg/L	100		72.1	30-130				
Surrogate: Nitrobenzene-d5 (low)	*93.4*		µg/L	100		93.4	30-130				
Surrogate: 2-Fluorobiphenyl	*73.7*		µg/L	100		73.7	30-130				
Surrogate: 2-Fluorobiphenyl (low)	*92.7*		µg/L	100		92.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*135*		µg/L	200		67.5	15-110				
Surrogate: p-Terphenyl-d14	*71.5*		µg/L	100		71.5	30-130				
Surrogate: p-Terphenyl-d14 (low)	*71.8*		µg/L	100		71.8	30-130				

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B178388 - SW-846 3510C												
LCS Dup (B178388-BSD1)				Prepared: 06/05/17 Analyzed: 06/06/17								
Acenaphthene (low)	47.7	7.5	µg/L	50.0		95.4		40-140	2.48	20		
Acenaphthylene (low)	45.2	7.5	µg/L	50.0		90.4		40-140	2.13	20		
Aniline	21.0	5.0	µg/L	50.0		41.9		40-140	3.29	50		† ‡
Anthracene (low)	49.4	5.0	µg/L	50.0		98.8		40-140	2.55	20		
Benzo(a)anthracene (low)	47.7	1.2	µg/L	50.0		95.4		40-140	2.18	20		
Benzo(a)pyrene (low)	51.3	2.5	µg/L	50.0		103		40-140	1.79	20		
Benzo(b)fluoranthene (low)	53.6	1.2	µg/L	50.0		107		40-140	2.08	20		
Benzo(g,h,i)perylene (low)	46.0	12	µg/L	50.0		92.0		40-140	4.31	20		
Benzo(k)fluoranthene (low)	54.1	5.0	µg/L	50.0		108		40-140	1.79	20		
Bis(2-chloroethoxy)methane	35.5	10	µg/L	50.0		71.0		40-140	1.30	20		
Bis(2-chloroethyl)ether	36.8	10	µg/L	50.0		73.6		40-140	1.19	20		
Bis(2-chloroisopropyl)ether	34.7	10	µg/L	50.0		69.4		40-140	1.74	20		
Bis(2-Ethylhexyl)phthalate	30.8	10	µg/L	50.0		61.6		40-140	4.69	20		
4-Bromophenylphenylether	35.6	10	µg/L	50.0		71.1		40-140	2.94	20		
Butylbenzylphthalate	33.3	10	µg/L	50.0		66.5		40-140	2.67	20		
Carbazole	32.6	10	µg/L	50.0		65.3		40-140	5.97	20		
4-Chloroaniline	19.7	10	µg/L	50.0		**39.4**	*	40-140	0.00	20		†
4-Chloro-3-methylphenol	33.9	10	µg/L	50.0		67.8		30-130	5.59	20		
2-Chloronaphthalene	29.8	10	µg/L	50.0		59.6		40-140	0.0671	20		
2-Chlorophenol	33.4	10	µg/L	50.0		66.9		30-130	4.67	20		
4-Chlorophenylphenylether	34.4	10	µg/L	50.0		68.9		40-140	0.0291	20		
Chrysene (low)	48.2	5.0	µg/L	50.0		96.5		40-140	2.20	20		
Dibenz(a,h)anthracene (low)	50.0	5.0	µg/L	50.0		100		40-140	2.71	20		
Dibenzofuran	34.6	5.0	µg/L	50.0		69.2		40-140	3.41	20		
Di-n-butylphthalate	33.2	10	µg/L	50.0		66.3		40-140	3.35	20		
3,3-Dichlorobenzidine	29.0	10	µg/L	50.0		58.1		40-140	6.59	20		† ‡
2,4-Dichlorophenol	34.9	10	µg/L	50.0		69.8		30-130	0.575	20		
Diethylphthalate	33.8	10	µg/L	50.0		67.6		40-140	1.58	20		
2,4-Dimethylphenol	27.2	10	µg/L	50.0		54.5		30-130	2.79	20		
Dimethylphthalate	34.8	10	µg/L	50.0		69.6		40-140	2.10	50		
4,6-Dinitro-2-methylphenol	34.2	10	µg/L	50.0		68.4		30-130	3.36	50		
2,4-Dinitrophenol	36.3	10	µg/L	50.0		72.5		30-130	2.01	50		
2,4-Dinitrotoluene	32.8	10	µg/L	50.0		65.6		40-140	2.44	20		
2,6-Dinitrotoluene	34.1	10	µg/L	50.0		68.2		40-140	1.86	20		
Di-n-octylphthalate	33.0	10	µg/L	50.0		66.0		40-140	3.86	20		
Fluoranthene (low)	48.2	12	µg/L	50.0		96.5		40-140	2.36	20		
Fluorene (low)	48.8	25	µg/L	50.0		97.6		40-140	1.32	20		
Hexachlorobenzene	33.8	10	µg/L	50.0		67.5		40-140	0.594	20		
Hexachlorobutadiene	34.0	10	µg/L	50.0		68.0		40-140	1.03	20		
Hexachlorocyclopentadiene	34.8	10	µg/L	50.0		69.6		30-140	6.31	50	V-19	
Hexachloroethane	33.1	10	µg/L	50.0		66.1		40-140	1.22	50		
Indeno(1,2,3-cd)pyrene (low)	46.0	5.0	µg/L	50.0		92.1		40-140	4.41	20		
Isophorone	33.5	10	µg/L	50.0		67.1		40-140	2.62	20		
2-Methylnaphthalene (low)	49.3	25	µg/L	50.0		98.6		40-140	1.36	20		
2-Methylphenol	28.4	10	µg/L	50.0		56.8		30-130	2.81	20		
3/4-Methylphenol	30.6	10	µg/L	50.0		61.1		30-130	0.718	20		
Naphthalene (low)	46.0	25	µg/L	50.0		92.0		40-140	0.488	20		
2-Nitroaniline	34.2	10	µg/L	50.0		68.3		40-140	5.08	20		
3-Nitroaniline	25.4	10	µg/L	50.0		50.9		40-140	4.19	20		†
4-Nitroaniline	30.0	10	µg/L	50.0		60.1		40-140	0.200	20		
Nitrobenzene	31.7	10	µg/L	50.0		63.4		40-140	3.93	20		
2-Nitrophenol	33.5	10	µg/L	50.0		66.9		30-130	0.804	20		

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B178388 - SW-846 3510C											
LCS Dup (B178388-BSD1)				Prepared: 06/05/17 Analyzed: 06/08/17							
4-Nitrophenol	19.4	10	µg/L	50.0		38.9	10-130	5.60	50		‡
N-Nitrosodiphenylamine	45.2	10	µg/L	50.0		90.4	40-140	1.43	20		
N-Nitrosodi-n-propylamine	35.9	10	µg/L	50.0		71.8	40-140	1.40	20		
Pentachloronitrobenzene	35.4	10	µg/L	50.0		70.9	40-140	0.396	20		
Pentachlorophenol	27.2	10	µg/L	50.0		54.5	30-130	0.368	50		
Phenanthrene (low)	48.9	1.2	µg/L	50.0		97.8	40-140	1.82	20		
Phenol	15.9	10	µg/L	50.0		31.7	20-130	0.941	20		
Pyrene (low)	50.2	25	µg/L	50.0		100	40-140	3.04	20		
Pyridine	22.3	5.0	µg/L	50.0		44.5	10-140	4.78	50		†
1,2,4,5-Tetrachlorobenzene	36.0	10	µg/L	50.0		72.0	40-140	0.939	20		
1,2,4-Trichlorobenzene	32.8	5.0	µg/L	50.0		65.5	40-140	0.699	20		
2,4,5-Trichlorophenol	33.7	10	µg/L	50.0		67.4	30-130	2.64	20		
2,4,6-Trichlorophenol	34.3	10	µg/L	50.0		68.6	30-130	0.819	50		
Surrogate: 2-Fluorophenol	*94.3*		µg/L	200		47.2	15-110				
Surrogate: Phenol-d6	*67.0*		µg/L	200		33.5	15-110				
Surrogate: Nitrobenzene-d5	*69.9*		µg/L	100		69.9	30-130				
Surrogate: Nitrobenzene-d5 (low)	*86.6*		µg/L	100		86.6	30-130				
Surrogate: 2-Fluorobiphenyl	*73.7*		µg/L	100		73.7	30-130				
Surrogate: 2-Fluorobiphenyl (low)	*89.5*		µg/L	100		89.5	30-130				
Surrogate: 2,4,6-Tribromophenol	*129*		µg/L	200		64.5	15-110				
Surrogate: p-Terphenyl-d14	*70.1*		µg/L	100		70.1	30-130				
Surrogate: p-Terphenyl-d14 (low)	*68.9*		µg/L	100		68.9	30-130				

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178411 - SW-846 3510C										
Blank (B178411-BLK1)				Prepared: 06/05/17 Analyzed: 06/06/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0860*		mg/L	0.100		86.0	50-150			
LCS (B178411-BS1)				Prepared: 06/05/17 Analyzed: 06/06/17						
CT ETPH	0.788	0.075	mg/L	1.00		78.8	60-120			
Surrogate: o-Terphenyl	*0.0862*		mg/L	0.100		86.2	50-150			
LCS Dup (B178411-BSD1)				Prepared: 06/05/17 Analyzed: 06/06/17						
CT ETPH	0.673	0.075	mg/L	1.00		67.3	60-120	15.8	30	
Surrogate: o-Terphenyl	*0.0743*		mg/L	0.100		74.3	50-150			

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178259 - SW-846 3005A										
Blank (B178259-BLK1)				Prepared: 06/01/17 Analyzed: 06/02/17						
Antimony	ND	5.0	µg/L							
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							
LCS (B178259-BS1)				Prepared: 06/01/17 Analyzed: 06/02/17						
Antimony	260	5.0	µg/L	250		104	80-120			
Arsenic	256	2.0	µg/L	250		102	80-120			
Barium	257	50	µg/L	250		103	80-120			
Beryllium	245	2.0	µg/L	250		98.1	80-120			
Cadmium	252	2.5	µg/L	250		101	80-120			
Chromium	253	5.0	µg/L	250		101	80-120			
Copper	257	25	µg/L	250		103	80-120			
Lead	259	5.0	µg/L	250		104	80-120			
Nickel	255	25	µg/L	250		102	80-120			
Selenium	246	25	µg/L	250		98.4	80-120			
Silver	255	2.5	µg/L	250		102	80-120			
Thallium	246	1.0	µg/L	250		98.3	80-120			
Vanadium	255	25	µg/L	250		102	80-120			
Zinc	249	50	µg/L	250		99.7	80-120			
LCS Dup (B178259-BSD1)				Prepared: 06/01/17 Analyzed: 06/02/17						
Antimony	259	5.0	µg/L	250		104	80-120	0.317	20	
Arsenic	257	2.0	µg/L	250		103	80-120	0.688	20	
Barium	256	50	µg/L	250		103	80-120	0.336	20	
Beryllium	248	2.0	µg/L	250		99.1	80-120	1.11	20	
Cadmium	253	2.5	µg/L	250		101	80-120	0.270	20	
Chromium	254	5.0	µg/L	250		101	80-120	0.198	20	
Copper	258	25	µg/L	250		103	80-120	0.187	20	
Lead	260	5.0	µg/L	250		104	80-120	0.478	20	
Nickel	256	25	µg/L	250		102	80-120	0.354	20	
Selenium	249	25	µg/L	250		99.7	80-120	1.30	20	
Silver	257	2.5	µg/L	250		103	80-120	0.740	20	
Thallium	249	1.0	µg/L	250		99.4	80-120	1.09	20	
Vanadium	255	25	µg/L	250		102	80-120	0.0198	20	
Zinc	250	50	µg/L	250		99.9	80-120	0.204	20	

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178416 - SW-846 7470A Prep										
Blank (B178416-BLK1)				Prepared: 06/06/17 Analyzed: 06/07/17						
Mercury	ND	0.00010	mg/L							
LCS (B178416-BS1)				Prepared: 06/06/17 Analyzed: 06/07/17						
Mercury	0.00187	0.00010	mg/L	0.00200		93.3	80-120			
LCS Dup (B178416-BSD1)				Prepared: 06/06/17 Analyzed: 06/07/17						
Mercury	0.00200	0.00010	mg/L	0.00200		100	80-120	7.05	20	
Duplicate (B178416-DUP1)		**Source: 17E1528-01**		Prepared: 06/06/17 Analyzed: 06/07/17						
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B178416-MS1)		**Source: 17E1528-01**		Prepared: 06/06/17 Analyzed: 06/07/17						
Mercury	0.00193	0.00010	mg/L	0.00200	ND	96.3	75-125			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178125 - SM21-22 4500 H B										
LCS (B178125-BS1)				Prepared & Analyzed: 05/31/17						
pH	6.05		pH Units	6.00		101	98.3-110			
Batch B178209 - SM21-22 2320B										
Blank (B178209-BLK1)				Prepared & Analyzed: 06/01/17						
Alkalinity	ND	1.0	mg/L							
LCS (B178209-BS1)				Prepared & Analyzed: 06/01/17						
Alkalinity	28		mg/L	27.8		98.9	90-110			
LCS Dup (B178209-BSD1)				Prepared & Analyzed: 06/01/17						
Alkalinity	28		mg/L	27.8		98.9	90-110	0.00	5	
Duplicate (B178209-DUP1)	**Source: 17E1528-04**			Prepared & Analyzed: 06/01/17						
Alkalinity	180	1.0	mg/L		180			0.00	13.3	SM-01

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
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.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
SM-01	Sample container does not satisfy method specifications.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Water	
CT ETPH	CT
SM21-22 2320B in Water	
Alkalinity	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 6020A-B 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
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
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 Water	
Aniline	CT,NY
Bis(2-chloroethoxy)methane	CT,NY,NH

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

CERTIFICATIONS

Certified Analyses included in this Report

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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
2,4,6-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	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2017
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2017
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017

17E1528

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Apex Companies, LLC
Address:	55H Connecticut Avenue
Phone:	South Windsor, CT 860 282-1700
Project Name:	Eversource Wethersfield
Project Location:	176 Cumberland Avenue, Wethersfield, CT
Project Number:	6059-015
Project Manager:	Donna Kask
Con-Test Quote Name/Number:	~~860 282 1700~~
Invoice Recipient:	Donna Kask
Sampled By:	Don Wilson

Requested Turnaround Time
7-Day [X] 10-Day [ ]
Due Date:

Rush Approval Required
1-Day [ ] 3-Day [ ]
2-Day [ ] 4-Day [ ]

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

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	VOCs 8260	SVOCs 8270	CT ETPH	Total RSR Metals	Carbon Dioxide									# of Containers	[2] Preservation Code	[3] Container Code
								20	15	7	12	6											
								H	I	I	N	I											
								V	A	B	P	P											
1	AP-10R	5/30/17	0950		X	GW	U	X	X	X	X	X											
2	AP-2R		1015		X	GW		X	X	X	X	X											
3	AP-1R		1130		X	GW		X	X	X	X	X											
4	AP-3R		1300		X	GW		X	X	X	X	X											
5	AP-9R		1500		X	GW		X	X	X	X	X											
6	DUP		-		X	GW		X	X	X	X	X											
7	TB20170530		0800		X	TB		X															

ANALYSIS REQUESTED

Dissolved Metals Samples
O Field Filtered
O Lab to Filter

Orthophosphate Samples
O Field Filtered
O Lab to Filter

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

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	5/30/17 16:2
Received by: (signature)	Date/Time:	05/30/17 16:2
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	/.30
Relinquished by: (signature)	Date/Time:	2.55
Received by: (signature)	Date/Time:	1455

Detection Limit Requirements
MA:
CT: CT RSD
GA, GWPC, SWPC
RVC I/C VC
Other: DPH RCP

Special Requirements
[ ] MA MCP Required
MCP Certification Form Required
[X] CT RCP Required
RCP Certification Form Required
[ ] MA State DW Required
PWSID #

con-test ANALYTICAL LABORATORY
www.contestlabs.com
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

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: Apex Companies **RECEIVED BY:** JM **DATE:** 5/31/17

1) **Was the chain(s) of custody relinquished and signed?** Yes ✓ No ____ No COC Incl.

2) **Does the chain agree with the samples?** Yes ✓ No ____
If not, explain:

3) **Are all the samples in good condition?** Yes ✓ No ____
If not, explain:

4) **How were the samples received:**
On Ice ✓ Direct from Sampling ____ Ambient ____ In Cooler(s) 2 ✓

Were the samples received in Temperature Compliance of (2-6°C)? Yes ✓ No ____ N/A ____

Temperature °C by Temp blank ____ # ____ Temperature °C by Temp gun #1 4.6, #2 4.1 # 2

5) **Are there Dissolved samples for the lab to filter?** Yes ____ No ✓
Who was notified ____ Date ____ Time ____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes ✓ No ____
Who was notified Irma Date 5/31/17 Time 1500

7) **Location where samples are stored:** Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) **Do all samples have the proper Acid pH:** Yes ✓ No ____ N/A ____

9) **Do all samples have the proper Base pH:** Yes ____ No ____ N/A ✓

10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes ____ N/A ✓

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	18	16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic	6	Plastic Bag / Ziploc	
250 mL plastic	12	SOC Kit	
40 mL Vial - type listed below	~~18~~ 20 (JM)	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials: # HCl 20 # Methanol ____ Time and Date Frozen:
Bisulfate ____ # DI Water ____
Thiosulfate ____ Unpreserved ____

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** JM **Date/Time:** 5/31/17 1455

D:\HPCHEM\1\DATA\A060817\A0608028.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	6/8/17
Data File Name	A0608028.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	392961	445892	-12
c - 10	1.49	391737	445892	-12
c - 12	2.23	418895	445892	-6
c - 14	2.90	437810	445892	-2
c - 16	3.51	455552	445892	2
c - 18	4.10	456710	445892	2
o-Terphenyl	4.39	505809	445892	
c - 20	4.72	469892	445892	5
c - 22	5.24	480073	445892	8
c - 24	5.68	452485	445892	1
c - 26	6.08	480561	445892	8
c - 28	6.44	477288	445892	7
c - 30	6.77	470631	445892	6
c - 32	7.08	448441	445892	1
c - 34	7.38	435214	445892	-2
c - 36	7.67	420138	445892	-6

* One compound allowed %D </= 50%

Samples

17E1529-06RE1
17F0044-02
17F0044-03
17F0044-04
17F0044-05
17F0093-01
17F0093-02
17F0094-02
17F0094-03
17F0094-04
17F0118-01
17F0151-03

D:\HPCHEM\1\DATA\A060817\A0608060.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	6/8/17
Data File Name	A0608060.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	394603	447369	-12
c - 10	1.49	399910	447369	-11
c - 12	2.23	422641	447369	-6
c - 14	2.90	440580	447369	-2
c - 16	3.51	457749	447369	2
c - 18	4.10	456931	447369	2
o-Terphenyl	4.39	505116	447369	
c - 20	4.72	469142	447369	5
c - 22	5.24	477901	447369	7
c - 24	5.68	450104	447369	1
c - 26	6.08	478286	447369	7
c - 28	6.44	475712	447369	6
c - 30	6.77	470130	447369	5
c - 32	7.08	450135	447369	1
c - 34	7.37	439713	447369	-2
c - 36	7.67	426992	447369	-5

* One compound allowed %D </= 50%

Samples

17E1528-01
17E1528-02
17E1528-03
17E1528-04
17E1528-05
17E1528-06

D:\HPCHEM\1\DATA\A060817\A0608112.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	6/8/17
Data File Name	A0608112.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	429155	486516	-12
c - 10	1.49	435694	486516	-10
c - 12	2.23	441402	486516	-9
c - 14	2.90	475496	486516	-2
c - 16	3.51	493247	486516	1
c - 18	4.10	493074	486516	1
o-Terphenyl	4.39	547342	486516	
c - 20	4.72	507121	486516	4
c - 22	5.24	518651	486516	7
c - 24	5.68	489239	486516	1
c - 26	6.08	521315	486516	7
c - 28	6.44	519855	486516	7
c - 30	6.77	517048	486516	6
c - 32	7.08	498282	486516	2
c - 34	7.37	486567	486516	0
c - 36	7.67	471587	486516	-3

* One compound allowed %D </= 50%

Samples

17F0136-01
17F0136-02
17F0136-03
17F0136-04
17F0136-05
17F0136-06
17F0136-07

D:\HPCHEM\1\DATA\A060817\A0608144.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	6/9/17
Data File Name	A0608144.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.13	434207	487363	-11
c - 10	1.49	438329	487363	-10
c - 12	2.22	462380	487363	-5
c - 14	2.90	477736	487363	-2
c - 16	3.51	494214	487363	1
c - 18	4.10	492746	487363	1
o-Terphenyl	4.39	544905	487363	
c - 20	4.72	505850	487363	4
c - 22	5.24	515752	487363	6
c - 24	5.68	484743	487363	-1
c - 26	6.08	516023	487363	6
c - 28	6.44	516111	487363	6
c - 30	6.77	515401	487363	6
c - 32	7.08	498392	487363	2
c - 34	7.37	487135	487363	0
c - 36	7.67	471427	487363	-3

* One compound allowed %D </= 50%

Samples

17F0136-08
17F0136-10

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

June 12, 2017

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

Project Location: 176 Cumberland Ave., Wethersfield, CT
Client Job Number:
Project Number: 6089-015
Laboratory Work Order Number: 17F0044

Enclosed are results of analyses for samples received by the laboratory on June 1, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

Table of Contents

Sample Summary 4
Case Narrative 5
Sample Results 8
17F0044-01 8
17F0044-02 10
17F0044-03 18
17F0044-04 26
17F0044-05 34
Sample Preparation Information 43
QC Data 45
Volatile Organic Compounds by GC/MS 45
B178616 45
B178617 47
Semivolatile Organic Compounds by GC/MS 54
B178500 54
Petroleum Hydrocarbons Analyses 62
B178487 62
Metals Analyses (Total) 63
B178244 63
B178327 65
B178565 65
Metals Analyses (Dissolved) 66
B178574 66
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 67
B178270 67

Table of Contents (continued)

B178755 67

B178964 67

Flag/Qualifier Summary 68

Certifications 69

Chain of Custody/Sample Receipt 73

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: 6/12/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 6089-015

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17F0044

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

PROJECT LOCATION: 176 Cumberland Ave., Wethersfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TB20170531	17F0044-01	Trip Blank Water		SW-846 8260C	
AP-6R	17F0044-02	Ground Water		CTDEP ETPH	
				SM 4500 CO2 C	
				SM21-22 2320B	
				SM21-22 4500 H B	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-11R	17F0044-03	Ground Water		CTDEP ETPH	
				SM 4500 CO2 C	
				SM21-22 2320B	
				SM21-22 4500 H B	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-4R	17F0044-04	Ground Water		CTDEP ETPH	
				SM 4500 CO2 C	
				SM21-22 2320B	
				SM21-22 4500 H B	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	
AP-12R	17F0044-05	Ground Water		CTDEP ETPH	
				SM 4500 CO2 C	
				SM21-22 2320B	
				SM21-22 4500 H B	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8260C	
				SW-846 8270D	

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.

For method 6020 Diss, only Zn was requested for sample 17F0044-05

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

SM21-22 2320B

Qualifications:

SM-01

Sample container does not satisfy method specifications.

Analyte & Samples(s) Qualified:

Alkalinity
17F0044-03[AP-11R], 17F0044-04[AP-4R], 17F0044-05[AP-12R], B178964-MS1, B178964-MSD1

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH
17F0044-02[AP-6R], 17F0044-03[AP-11R], 17F0044-04[AP-4R], 17F0044-05[AP-12R]

SW-846 6020A-B

Qualifications:

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Silver
B178244-MS1

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
17F0044-03[AP-11R], B178617-MS1, B178617-MSD1

Acetone
17F0044-03[AP-11R], B178617-MS1, B178617-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:

Dichlorodifluoromethane (Freon 1
B178617-MSD1

SW-846 8270D

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

Aniline
17F0044-02[AP-6R], 17F0044-03[AP-11R], 17F0044-04[AP-4R], 17F0044-05[AP-12R], B178500-BLK1, B178500-BS1, B178500-BSD1

L-07

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

Analyte & Samples(s) Qualified:

4-Chloroaniline
B178500-BSD1

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

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

17F0044-03[AP-11R], B178500-MS1, B178500-MSD1

RL-03

Elevated reporting limit based on lowest point in calibration.
Requested reporting limit not met.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate

17F0044-02[AP-6R], 17F0044-03[AP-11R], 17F0044-04[AP-4R], 17F0044-05[AP-12R]

Hexachlorobenzene

17F0044-02[AP-6R], 17F0044-03[AP-11R], 17F0044-04[AP-4R], 17F0044-05[AP-12R]

Pentachlorophenol

17F0044-02[AP-6R], 17F0044-03[AP-11R], 17F0044-04[AP-4R], 17F0044-05[AP-12R]

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

17F0044-02[AP-6R], 17F0044-03[AP-11R], 17F0044-04[AP-4R], 17F0044-05[AP-12R], B178500-MS1, B178500-MSD1

V-19

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

17F0044-02[AP-6R], 17F0044-03[AP-11R], 17F0044-04[AP-4R], 17F0044-05[AP-12R], B178500-BLK1, B178500-BS1, B178500-BSD1, B178500-MS1, B178500-MSD1

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

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8260C

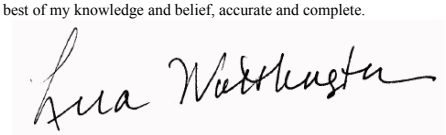
All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

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.

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.

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



Lisa A. Worthington
Project Manager

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: TB20170531 Sampled: 5/31/2017 06:30

Sample ID: 17F0044-01

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	6/7/17	6/7/17 16:39	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: TB20170531 Sampled: 5/31/2017 06:30

Sample ID: 17F0044-01

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	6/7/17	6/7/17 16:39	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 16:39	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.7	70-130		6/7/17 16:39
Toluene-d8	100	70-130		6/7/17 16:39
4-Bromofluorobenzene	96.3	70-130		6/7/17 16:39

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-6R Sampled: 5/31/2017 08:25

Sample ID: 17F0044-02

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	6/7/17	6/7/17 21:47	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-6R Sampled: 5/31/2017 08:25

Sample ID: 17F0044-02

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	6/7/17	6/7/17 21:47	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 21:47	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.1	70-130		6/7/17 21:47
Toluene-d8	100	70-130		6/7/17 21:47
4-Bromofluorobenzene	96.2	70-130		6/7/17 21:47

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-6R Sampled: 5/31/2017 08:25

Sample ID: 17F0044-02

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 (low)	ND	0.30	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Aniline	ND	5.0	µg/L	1	L-04	SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 10:57	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-19	SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Isophorone	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-6R Sampled: 5/31/2017 08:25

Sample ID: 17F0044-02

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	6/6/17	6/12/17 10:57	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Phenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 13:59	CJM
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 10:57	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	48.6	15-110		6/12/17 10:57
Phenol-d6	35.6	15-110		6/12/17 10:57
Nitrobenzene-d5	74.1	30-130		6/12/17 10:57
Nitrobenzene-d5 (low)	82.8	30-130		6/12/17 13:59
2-Fluorobiphenyl	78.8	30-130		6/12/17 10:57
2-Fluorobiphenyl (low)	86.8	30-130		6/12/17 13:59
2,4,6-Tribromophenol	75.7	15-110		6/12/17 10:57
p-Terphenyl-d14	83.2	30-130		6/12/17 10:57
p-Terphenyl-d14 (low)	76.2	30-130		6/12/17 13:59

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-6R Sampled: 5/31/2017 08:25

Sample ID: 17F0044-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	6/6/17	6/8/17 12:03	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	83.3	50-150		6/8/17 12:03

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-6R Sampled: 5/31/2017 08:25

Sample ID: 17F0044-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	6/2/17	6/6/17 6:42	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Barium	240	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/7/17	6/8/17 10:18	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:17	MJH

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-6R Sampled: 5/31/2017 08:25

Sample ID: 17F0044-02

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	240	1.0	mg/L	1		SM21-22 2320B	6/8/17	6/8/17 8:30	VAK
pH @17°C	7.4		pH Units	1	H-05	SM21-22 4500 H B	6/2/17	6/2/17 10:35	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-6R Sampled: 5/31/2017 08:25

Sample ID: 17F0044-02

Sample Matrix: Ground Water

Miscellaneous Inorganic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Carbon Dioxide	211		mg/L	1		SM 4500 CO2 C	6/12/17	6/12/17 13:44	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-11R Sampled: 5/31/2017 10:10

Sample ID: 17F0044-03

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	MS-09	SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1	MS-09	SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-11R Sampled: 5/31/2017 10:10

Sample ID: 17F0044-03

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)	0.72	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 3:55	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.7	70-130		6/8/17 3:55
Toluene-d8	100	70-130		6/8/17 3:55
4-Bromofluorobenzene	97.3	70-130		6/8/17 3:55

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-11R Sampled: 5/31/2017 10:10

Sample ID: 17F0044-03

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 (low)	ND	0.30	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Aniline	ND	5.0	µg/L	1	L-04	SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Benzo(a)pyrene (low)	ND	0.10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 11:24	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Fluorene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-19	SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Isophorone	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
2-Methylnaphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM

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

Project Location: 176 Cumberland Ave., Wethersfie | Sample Description: | Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-11R | Sampled: 5/31/2017 10:10

Sample ID: 17F0044-03

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	6/6/17	6/12/17 11:24	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Naphthalene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Phenanthrene (low)	0.052	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Phenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
Pyrene (low)	ND	1.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:28	CJM
Pyridine	ND	5.0	µg/L	1	MS-09	SW-846 8270D	6/6/17	6/12/17 11:24	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:24	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	53.6	15-110		6/12/17 11:24
Phenol-d6	38.2	15-110		6/12/17 11:24
Nitrobenzene-d5	81.5	30-130		6/12/17 11:24
Nitrobenzene-d5 (low)	84.1	30-130		6/12/17 14:28
2-Fluorobiphenyl	83.6	30-130		6/12/17 11:24
2-Fluorobiphenyl (low)	84.8	30-130		6/12/17 14:28
2,4,6-Tribromophenol	81.3	15-110		6/12/17 11:24
p-Terphenyl-d14	91.4	30-130		6/12/17 11:24
p-Terphenyl-d14 (low)	80.0	30-130		6/12/17 14:28

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-11R Sampled: 5/31/2017 10:10

Sample ID: 17F0044-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	6/6/17	6/8/17 12:21	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	81.1	50-150						6/8/17 12:21

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-11R Sampled: 5/31/2017 10:10

Sample ID: 17F0044-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	6/2/17	6/6/17 6:39	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Barium	140	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/7/17	6/8/17 10:13	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:14	MJH

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-11R Sampled: 5/31/2017 10:10

Sample ID: 17F0044-03

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	250	1.0	mg/L	1	SM-01	SM21-22 2320B	6/12/17	6/12/17 13:10	MMH
pH @22.4°C	7.3		pH Units	1	H-05	SM21-22 4500 H B	6/2/17	6/2/17 10:35	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-11R Sampled: 5/31/2017 10:10

Sample ID: 17F0044-03

Sample Matrix: Ground Water

Miscellaneous Inorganic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Carbon Dioxide	220		mg/L	1		SM 4500 CO2 C	6/12/17	6/12/17 13:44	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-4R Sampled: 5/31/2017 12:45

Sample ID: 17F0044-04

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	6/7/17	6/7/17 22:18	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-4R Sampled: 5/31/2017 12:45

Sample ID: 17F0044-04

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	6/7/17	6/7/17 22:18	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/7/17 22:18	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.1	70-130		6/7/17 22:18
Toluene-d8	99.4	70-130		6/7/17 22:18
4-Bromofluorobenzene	95.8	70-130		6/7/17 22:18

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-4R Sampled: 5/31/2017 12:45

Sample ID: 17F0044-04

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 (low)	ND	0.30	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Aniline	ND	5.0	µg/L	1	L-04	SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Benzo(a)pyrene (low)	ND	0.099	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Bis(2-chloroethoxy)methane	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Bis(2-chloroethyl)ether	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Bis(2-chloroisopropyl)ether	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 11:51	BGL
4-Bromophenylphenylether	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Butylbenzylphthalate	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Carbazole	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
4-Chloroaniline	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
4-Chloro-3-methylphenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
2-Chloronaphthalene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
2-Chlorophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
4-Chlorophenylphenylether	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Di-n-butylphthalate	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
3,3-Dichlorobenzidine	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
2,4-Dichlorophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Diethylphthalate	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
2,4-Dimethylphenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Dimethylphthalate	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
4,6-Dinitro-2-methylphenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
2,4-Dinitrophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
2,4-Dinitrotoluene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
2,6-Dinitrotoluene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Di-n-octylphthalate	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Fluorene (low)	ND	0.99	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Hexachlorobutadiene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Hexachlorocyclopentadiene	ND	9.9	µg/L	1	V-19	SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Isophorone	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
2-Methylnaphthalene (low)	ND	0.99	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-4R Sampled: 5/31/2017 12:45

Sample ID: 17F0044-04

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	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
3/4-Methylphenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Naphthalene (low)	ND	0.99	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
2-Nitroaniline	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
3-Nitroaniline	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
4-Nitroaniline	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Nitrobenzene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
2-Nitrophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
4-Nitrophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
N-Nitrosodiphenylamine	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
N-Nitrosodi-n-propylamine	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Pentachloronitrobenzene	ND	9.9	µg/L	1	V-16	SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Phenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
Pyrene (low)	ND	0.99	µg/L	1		SW-846 8270D	6/6/17	6/12/17 14:57	CJM
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
2,4,5-Trichlorophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL
2,4,6-Trichlorophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 11:51	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	49.0	15-110		6/12/17 11:51
Phenol-d6	34.7	15-110		6/12/17 11:51
Nitrobenzene-d5	73.0	30-130		6/12/17 11:51
Nitrobenzene-d5 (low)	85.5	30-130		6/12/17 14:57
2-Fluorobiphenyl	77.7	30-130		6/12/17 11:51
2-Fluorobiphenyl (low)	85.7	30-130		6/12/17 14:57
2,4,6-Tribromophenol	76.3	15-110		6/12/17 11:51
p-Terphenyl-d14	77.4	30-130		6/12/17 11:51
p-Terphenyl-d14 (low)	64.9	30-130		6/12/17 14:57

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-4R Sampled: 5/31/2017 12:45

Sample ID: 17F0044-04

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	0.075	mg/L	1		CTDEP ETPH	6/6/17	6/8/17 12:38	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	86.4	50-150				6/8/17 12:38	

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-4R Sampled: 5/31/2017 12:45

Sample ID: 17F0044-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	6/2/17	6/6/17 6:46	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Barium	63	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/7/17	6/8/17 10:19	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH
Zinc	ND	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:20	MJH

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-4R Sampled: 5/31/2017 12:45

Sample ID: 17F0044-04

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	410	1.0	mg/L	1	SM-01	SM21-22 2320B	6/12/17	6/12/17 13:10	MMH
pH @19.1°C	7.1		pH Units	1	H-05	SM21-22 4500 H B	6/2/17	6/2/17 10:35	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-4R Sampled: 5/31/2017 12:45

Sample ID: 17F0044-04

Sample Matrix: Ground Water

Miscellaneous Inorganic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Carbon Dioxide	361		mg/L	1		SM 4500 CO2 C	6/12/17	6/12/17 13:44	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-12R Sampled: 5/31/2017 13:30

Sample ID: 17F0044-05

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	6/7/17	6/8/17 4:26	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Bromomethane	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-12R Sampled: 5/31/2017 13:30

Sample ID: 17F0044-05

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	6/7/17	6/8/17 4:26	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,2,4-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,2,3-Trichloropropane	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	6/7/17	6/8/17 4:26	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.4	70-130		6/8/17 4:26
Toluene-d8	97.6	70-130		6/8/17 4:26
4-Bromofluorobenzene	96.8	70-130		6/8/17 4:26

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-12R Sampled: 5/31/2017 13:30

Sample ID: 17F0044-05

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 (low)	ND	0.30	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Acenaphthylene (low)	ND	0.30	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Aniline	ND	5.0	µg/L	1	L-04	SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Benzo(a)anthracene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Benzo(a)pyrene (low)	ND	0.099	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Benzo(b)fluoranthene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Benzo(k)fluoranthene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Bis(2-chloroethoxy)methane	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Bis(2-chloroethyl)ether	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Bis(2-chloroisopropyl)ether	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 12:18	BGL
4-Bromophenylphenylether	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Butylbenzylphthalate	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Carbazole	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
4-Chloroaniline	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
4-Chloro-3-methylphenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
2-Chloronaphthalene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
2-Chlorophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
4-Chlorophenylphenylether	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Chrysene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Di-n-butylphthalate	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
3,3-Dichlorobenzidine	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
2,4-Dichlorophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Diethylphthalate	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
2,4-Dimethylphenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Dimethylphthalate	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
4,6-Dinitro-2-methylphenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
2,4-Dinitrophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
2,4-Dinitrotoluene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
2,6-Dinitrotoluene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Di-n-octylphthalate	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Fluoranthene (low)	ND	0.50	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Fluorene (low)	ND	0.99	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Hexachlorobutadiene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Hexachlorocyclopentadiene	ND	9.9	µg/L	1	V-19	SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Isophorone	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
2-Methylnaphthalene (low)	ND	0.99	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-12R Sampled: 5/31/2017 13:30

Sample ID: 17F0044-05

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	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
3/4-Methylphenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Naphthalene (low)	ND	0.99	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
2-Nitroaniline	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
3-Nitroaniline	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
4-Nitroaniline	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Nitrobenzene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
2-Nitrophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
4-Nitrophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
N-Nitrosodiphenylamine	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
N-Nitrosodi-n-propylamine	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Pentachloronitrobenzene	ND	9.9	µg/L	1	V-16	SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Phenanthrene (low)	ND	0.050	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Phenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
Pyrene (low)	ND	0.99	µg/L	1		SW-846 8270D	6/6/17	6/12/17 15:26	CJM
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
1,2,4,5-Tetrachlorobenzene	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
2,4,5-Trichlorophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL
2,4,6-Trichlorophenol	ND	9.9	µg/L	1		SW-846 8270D	6/6/17	6/12/17 12:18	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	45.0	15-110		6/12/17 12:18
Phenol-d6	31.2	15-110		6/12/17 12:18
Nitrobenzene-d5	68.4	30-130		6/12/17 12:18
Nitrobenzene-d5 (low)	80.0	30-130		6/12/17 15:26
2-Fluorobiphenyl	72.5	30-130		6/12/17 12:18
2-Fluorobiphenyl (low)	80.9	30-130		6/12/17 15:26
2,4,6-Tribromophenol	70.3	15-110		6/12/17 12:18
p-Terphenyl-d14	75.8	30-130		6/12/17 12:18
p-Terphenyl-d14 (low)	73.4	30-130		6/12/17 15:26

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-12R Sampled: 5/31/2017 13:30

Sample ID: 17F0044-05

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	6/6/17	6/8/17 12:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual					
o-Terphenyl	92.7	50-150						6/8/17 12:56

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-12R Sampled: 5/31/2017 13:30

Sample ID: 17F0044-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	6/2/17	6/6/17 6:49	MJH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Barium	65	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Copper	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	6/7/17	6/8/17 10:21	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Selenium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH
Zinc	79	50	µg/L	5		SW-846 6020A-B	6/1/17	6/2/17 10:31	MJH

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-12R Sampled: 5/31/2017 13:30

Sample ID: 17F0044-05

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Zinc	63	50	µg/L	5		SW-846 6020A-B	6/6/17	6/7/17 6:32	MJH

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-12R Sampled: 5/31/2017 13:30

Sample ID: 17F0044-05

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Alkalinity	270	1.0	mg/L	1	SM-01	SM21-22 2320B	6/12/17	6/12/17 13:10	MMH
pH @17.6°C	6.8		pH Units	1	H-05	SM21-22 4500 H B	6/2/17	6/2/17 10:35	LL

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

Project Location: 176 Cumberland Ave., Wethersfie Sample Description: Work Order: 17F0044

Date Received: 6/1/2017

Field Sample #: AP-12R Sampled: 5/31/2017 13:30

Sample ID: 17F0044-05

Sample Matrix: Ground Water

Miscellaneous Inorganic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Carbon Dioxide	238		mg/L	1		SM 4500 CO2 C	6/12/17	6/12/17 13:44	LL

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
17F0044-02 [AP-6R]	B178487	1000	1.00	06/06/17
17F0044-03 [AP-11R]	B178487	1000	1.00	06/06/17
17F0044-04 [AP-4R]	B178487	1000	1.00	06/06/17
17F0044-05 [AP-12R]	B178487	1000	1.00	06/06/17

SM 4500 CO2 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F0044-02 [AP-6R]	B178932	1.00	1.00	06/12/17
17F0044-03 [AP-11R]	B178932	1.00	1.00	06/12/17
17F0044-04 [AP-4R]	B178932	1.00	1.00	06/12/17
17F0044-05 [AP-12R]	B178932	1.00	1.00	06/12/17

SM21-22 2320B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F0044-02 [AP-6R]	B178755	100	100	06/08/17

SM21-22 2320B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F0044-03 [AP-11R]	B178964	100	100	06/12/17
17F0044-04 [AP-4R]	B178964	100	100	06/12/17
17F0044-05 [AP-12R]	B178964	100	100	06/12/17

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
17F0044-02 [AP-6R]	B178270	50.0	06/02/17
17F0044-03 [AP-11R]	B178270	50.0	06/02/17
17F0044-04 [AP-4R]	B178270	50.0	06/02/17
17F0044-05 [AP-12R]	B178270	50.0	06/02/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F0044-02 [AP-6R]	B178244	50.0	50.0	06/01/17
17F0044-03 [AP-11R]	B178244	50.0	50.0	06/01/17
17F0044-04 [AP-4R]	B178244	50.0	50.0	06/01/17
17F0044-05 [AP-12R]	B178244	50.0	50.0	06/01/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F0044-02RE1 [AP-6R]	B178327	50.0	50.0	06/02/17
17F0044-03RE1 [AP-11R]	B178327	50.0	50.0	06/02/17
17F0044-04RE1 [AP-4R]	B178327	50.0	50.0	06/02/17

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 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F0044-05RE1 [AP-12R]	B178327	50.0	50.0	06/02/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F0044-05 [AP-12R]	B178574	50.0	50.0	06/06/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F0044-02 [AP-6R]	B178565	6.00	6.00	06/07/17
17F0044-03 [AP-11R]	B178565	6.00	6.00	06/07/17
17F0044-04 [AP-4R]	B178565	6.00	6.00	06/07/17
17F0044-05 [AP-12R]	B178565	6.00	6.00	06/07/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F0044-01 [TB20170531]	B178616	5	5.00	06/07/17
17F0044-02 [AP-6R]	B178616	5	5.00	06/07/17
17F0044-04 [AP-4R]	B178616	5	5.00	06/07/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F0044-03 [AP-11R]	B178617	5	5.00	06/07/17
17F0044-05 [AP-12R]	B178617	5	5.00	06/07/17

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F0044-02 [AP-6R]	B178500	1000	1.00	06/06/17
17F0044-03 [AP-11R]	B178500	1000	1.00	06/06/17
17F0044-04 [AP-4R]	B178500	1010	1.00	06/06/17
17F0044-05 [AP-12R]	B178500	1010	1.00	06/06/17

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 B178616 - SW-846 5030B										
Blank (B178616-BLK1)				Prepared & Analyzed: 06/07/17						
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	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
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							

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 B178616 - SW-846 5030B										
Blank (B178616-BLK1)				Prepared & Analyzed: 06/07/17						
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
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	*22.7*		µg/L	25.0		90.8	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*23.8*		µg/L	25.0		95.2	70-130			
LCS (B178616-BS1)				Prepared & Analyzed: 06/07/17						
Acetone	82.8	10	µg/L	100		82.8	70-130			
Acrylonitrile	11.2	2.0	µg/L	10.0		112	70-130			
Benzene	10.9	0.50	µg/L	10.0		109	70-130			
Bromobenzene	10.5	0.50	µg/L	10.0		105	70-130			
Bromodichloromethane	10.0	0.50	µg/L	10.0		100	70-130			
Bromoform	9.73	0.50	µg/L	10.0		97.3	70-130			
Bromomethane	9.22	1.0	µg/L	10.0		92.2	70-130			
2-Butanone (MEK)	104	5.0	µg/L	100		104	70-130			
n-Butylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
sec-Butylbenzene	10.6	1.0	µg/L	10.0		106	70-130			
tert-Butylbenzene	10.1	1.0	µg/L	10.0		101	70-130			
Carbon Disulfide	116	5.0	µg/L	100		116	70-130			
Carbon Tetrachloride	10.4	0.50	µg/L	10.0		104	70-130			
Chlorobenzene	10.3	0.50	µg/L	10.0		103	70-130			
Chlorodibromomethane	10.6	0.50	µg/L	10.0		106	70-130			
Chloroethane	9.75	0.50	µg/L	10.0		97.5	70-130			
Chloroform	9.48	0.50	µg/L	10.0		94.8	70-130			
Chloromethane	9.62	0.60	µg/L	10.0		96.2	70-130			
2-Chlorotoluene	11.2	0.50	µg/L	10.0		112	70-130			
4-Chlorotoluene	10.8	0.50	µg/L	10.0		108	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.43	0.50	µg/L	10.0		94.3	70-130			
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106	70-130			
Dibromomethane	11.5	0.50	µg/L	10.0		115	70-130			
1,2-Dichlorobenzene	9.43	0.50	µg/L	10.0		94.3	70-130			
1,3-Dichlorobenzene	9.40	0.50	µg/L	10.0		94.0	70-130			
1,4-Dichlorobenzene	9.15	0.50	µg/L	10.0		91.5	70-130			
trans-1,4-Dichloro-2-butene	9.24	2.0	µg/L	10.0		92.4	70-130			
Dichlorodifluoromethane (Freon 12)	9.75	0.50	µg/L	10.0		97.5	70-130			
1,1-Dichloroethane	10.5	0.50	µg/L	10.0		105	70-130			
1,2-Dichloroethane	9.92	0.50	µg/L	10.0		99.2	70-130			
1,1-Dichloroethylene	8.86	0.50	µg/L	10.0		88.6	70-130			

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 B178616 - SW-846 5030B										
LCS (B178616-BS1)				Prepared & Analyzed: 06/07/17						
cis-1,2-Dichloroethylene	10.0	0.50	µg/L	10.0		100	70-130			
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130			
1,2-Dichloropropane	10.9	0.50	µg/L	10.0		109	70-130			
1,3-Dichloropropane	11.2	0.50	µg/L	10.0		112	70-130			
2,2-Dichloropropane	10.2	0.50	µg/L	10.0		102	70-130			
1,1-Dichloropropene	10.4	0.50	µg/L	10.0		104	70-130			
cis-1,3-Dichloropropene	11.5	0.50	µg/L	10.0		115	70-130			
trans-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130			
Ethylbenzene	11.0	0.50	µg/L	10.0		110	70-130			
Hexachlorobutadiene	9.93	0.60	µg/L	10.0		99.3	70-130			
2-Hexanone (MBK)	110	5.0	µg/L	100		110	70-130			
Isopropylbenzene (Cumene)	11.1	0.50	µg/L	10.0		111	70-130			
p-Isopropyltoluene (p-Cymene)	10.4	0.50	µg/L	10.0		104	70-130			
Methyl tert-Butyl Ether (MTBE)	10.6	0.50	µg/L	10.0		106	70-130			
Methylene Chloride	9.35	5.0	µg/L	10.0		93.5	70-130			
4-Methyl-2-pentanone (MIBK)	111	5.0	µg/L	100		111	70-130			
Naphthalene	9.59	2.0	µg/L	10.0		95.9	70-130			
n-Propylbenzene	11.0	1.0	µg/L	10.0		110	70-130			
Styrene	11.4	1.0	µg/L	10.0		114	70-130			
1,1,1,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130			
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106	70-130			
Tetrachloroethylene	10.8	1.0	µg/L	10.0		108	70-130			
Tetrahydrofuran	9.86	10	µg/L	10.0		98.6	70-130			
Toluene	11.4	1.0	µg/L	10.0		114	70-130			
1,2,3-Trichlorobenzene	9.83	0.50	µg/L	10.0		98.3	70-130			
1,2,4-Trichlorobenzene	9.49	0.50	µg/L	10.0		94.9	70-130			
1,1,1-Trichloroethane	9.78	0.50	µg/L	10.0		97.8	70-130			
1,1,2-Trichloroethane	11.2	0.50	µg/L	10.0		112	70-130			
Trichloroethylene	10.7	1.0	µg/L	10.0		107	70-130			
Trichlorofluoromethane (Freon 11)	9.69	2.0	µg/L	10.0		96.9	70-130			
1,2,3-Trichloropropane	9.86	0.50	µg/L	10.0		98.6	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	0.50	µg/L	10.0		100	70-130			
1,2,4-Trimethylbenzene	10.5	0.50	µg/L	10.0		105	70-130			
1,3,5-Trimethylbenzene	11.1	0.50	µg/L	10.0		111	70-130			
Vinyl Chloride	9.95	1.0	µg/L	10.0		99.5	70-130			
m+p Xylene	21.6	2.0	µg/L	20.0		108	70-130			
o-Xylene	10.7	1.0	µg/L	10.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	*22.0*		µg/L	25.0		88.2	70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.6	70-130			
Batch B178617 - SW-846 5030B										
Blank (B178617-BLK1)				Prepared: 06/07/17 Analyzed: 06/08/17						
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							

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 B178617 - SW-846 5030B										
Blank (B178617-BLK1)				Prepared: 06/07/17 Analyzed: 06/08/17						
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	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
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							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							

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 B178617 - SW-846 5030B										
Blank (B178617-BLK1)				Prepared: 06/07/17 Analyzed: 06/08/17						
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							
Xylenes (total)	ND	3.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.2*		µg/L	25.0		93.0	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*23.5*		µg/L	25.0		94.0	70-130			
LCS (B178617-BS1)				Prepared: 06/07/17 Analyzed: 06/08/17						
Acetone	71.2	10	µg/L	100		71.2	70-130			
Acrylonitrile	11.0	2.0	µg/L	10.0		110	70-130			
Benzene	10.9	0.50	µg/L	10.0		109	70-130			
Bromobenzene	10.5	0.50	µg/L	10.0		105	70-130			
Bromodichloromethane	9.95	0.50	µg/L	10.0		99.5	70-130			
Bromoform	9.97	0.50	µg/L	10.0		99.7	70-130			
Bromomethane	10.5	1.0	µg/L	10.0		105	70-130			
2-Butanone (MEK)	95.8	5.0	µg/L	100		95.8	70-130			
n-Butylbenzene	10.4	1.0	µg/L	10.0		104	70-130			
sec-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130			
tert-Butylbenzene	9.73	1.0	µg/L	10.0		97.3	70-130			
Carbon Disulfide	119	5.0	µg/L	100		119	70-130			
Carbon Tetrachloride	10.4	0.50	µg/L	10.0		104	70-130			
Chlorobenzene	10.4	0.50	µg/L	10.0		104	70-130			
Chlorodibromomethane	10.5	0.50	µg/L	10.0		105	70-130			
Chloroethane	9.49	0.50	µg/L	10.0		94.9	70-130			
Chloroform	9.57	0.50	µg/L	10.0		95.7	70-130			
Chloromethane	9.88	0.60	µg/L	10.0		98.8	70-130			
2-Chlorotoluene	11.1	0.50	µg/L	10.0		111	70-130			
4-Chlorotoluene	10.8	0.50	µg/L	10.0		108	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.37	0.50	µg/L	10.0		93.7	70-130			
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104	70-130			
Dibromomethane	11.4	0.50	µg/L	10.0		114	70-130			
1,2-Dichlorobenzene	9.27	0.50	µg/L	10.0		92.7	70-130			
1,3-Dichlorobenzene	9.21	0.50	µg/L	10.0		92.1	70-130			
1,4-Dichlorobenzene	9.23	0.50	µg/L	10.0		92.3	70-130			
trans-1,4-Dichloro-2-butene	8.73	2.0	µg/L	10.0		87.3	70-130			
Dichlorodifluoromethane (Freon 12)	9.91	0.50	µg/L	10.0		99.1	70-130			
1,1-Dichloroethane	10.8	0.50	µg/L	10.0		108	70-130			
1,2-Dichloroethane	9.79	0.50	µg/L	10.0		97.9	70-130			
1,1-Dichloroethylene	9.08	0.50	µg/L	10.0		90.8	70-130			
cis-1,2-Dichloroethylene	9.91	0.50	µg/L	10.0		99.1	70-130			
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
1,2-Dichloropropane	11.2	0.50	µg/L	10.0		112	70-130			
1,3-Dichloropropane	11.2	0.50	µg/L	10.0		112	70-130			
2,2-Dichloropropane	8.39	0.50	µg/L	10.0		83.9	70-130			
1,1-Dichloropropene	10.5	0.50	µg/L	10.0		105	70-130			
cis-1,3-Dichloropropene	10.9	0.50	µg/L	10.0		109	70-130			

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 B178617 - SW-846 5030B											
LCS (B178617-BS1)				Prepared: 06/07/17 Analyzed: 06/08/17							
trans-1,3-Dichloropropene	10.4	0.50	µg/L	10.0		104		70-130			
Ethylbenzene	10.8	0.50	µg/L	10.0		108		70-130			
Hexachlorobutadiene	9.23	0.60	µg/L	10.0		92.3		70-130			
2-Hexanone (MBK)	101	5.0	µg/L	100		101		70-130			
Isopropylbenzene (Cumene)	10.9	0.50	µg/L	10.0		109		70-130			
p-Isopropyltoluene (p-Cymene)	9.93	0.50	µg/L	10.0		99.3		70-130			
Methyl tert-Butyl Ether (MTBE)	10.7	0.50	µg/L	10.0		107		70-130			
Methylene Chloride	9.67	5.0	µg/L	10.0		96.7		70-130			
4-Methyl-2-pentanone (MIBK)	107	5.0	µg/L	100		107		70-130			
Naphthalene	9.21	2.0	µg/L	10.0		92.1		70-130			
n-Propylbenzene	10.8	1.0	µg/L	10.0		108		70-130			
Styrene	11.3	1.0	µg/L	10.0		113		70-130			
1,1,1,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103		70-130			
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102		70-130			
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105		70-130			
Tetrahydrofuran	10.0	10	µg/L	10.0		100		70-130			
Toluene	11.3	1.0	µg/L	10.0		113		70-130			
1,2,3-Trichlorobenzene	9.38	0.50	µg/L	10.0		93.8		70-130			
1,2,4-Trichlorobenzene	9.26	0.50	µg/L	10.0		92.6		70-130			
1,1,1-Trichloroethane	9.99	0.50	µg/L	10.0		99.9		70-130			
1,1,2-Trichloroethane	11.1	0.50	µg/L	10.0		111		70-130			
Trichloroethylene	10.9	1.0	µg/L	10.0		109		70-130			
Trichlorofluoromethane (Freon 11)	9.51	2.0	µg/L	10.0		95.1		70-130			
1,2,3-Trichloropropane	9.94	0.50	µg/L	10.0		99.4		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	0.50	µg/L	10.0		100		70-130			
1,2,4-Trimethylbenzene	10.3	0.50	µg/L	10.0		103		70-130			
1,3,5-Trimethylbenzene	11.0	0.50	µg/L	10.0		110		70-130			
Vinyl Chloride	9.81	1.0	µg/L	10.0		98.1		70-130			
m+p Xylene	21.5	2.0	µg/L	20.0		107		70-130			
o-Xylene	10.5	1.0	µg/L	10.0		105		70-130			
Surrogate: 1,2-Dichloroethane-d4	*22.9*		µg/L	25.0		91.6		70-130			
Surrogate: Toluene-d8	*25.5*		µg/L	25.0		102		70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		102		70-130			
Matrix Spike (B178617-MS1)		**Source: 17F0044-03**		Prepared: 06/07/17 Analyzed: 06/08/17							
Acetone	53.9	10	µg/L	100	ND	**53.9**	*	70-130			MS-09
Acrylonitrile	10.3	2.0	µg/L	10.0	ND	103		70-130			
Benzene	11.0	0.50	µg/L	10.0	ND	110		70-130			
Bromobenzene	10.4	0.50	µg/L	10.0	ND	104		70-130			
Bromodichloromethane	10.0	0.50	µg/L	10.0	ND	100		70-130			
Bromoform	9.60	0.50	µg/L	10.0	ND	96.0		70-130			
Bromomethane	8.33	1.0	µg/L	10.0	ND	83.3		70-130			
2-Butanone (MEK)	85.3	5.0	µg/L	100	ND	85.3		70-130			
n-Butylbenzene	10.6	1.0	µg/L	10.0	ND	106		70-130			
sec-Butylbenzene	10.8	1.0	µg/L	10.0	ND	108		70-130			
tert-Butylbenzene	10.3	1.0	µg/L	10.0	ND	103		70-130			
Carbon Disulfide	113	5.0	µg/L	100	ND	113		70-130			
Carbon Tetrachloride	10.7	0.50	µg/L	10.0	ND	107		70-130			
Chlorobenzene	10.4	0.50	µg/L	10.0	ND	104		70-130			
Chlorodibromomethane	10.3	0.50	µg/L	10.0	ND	103		70-130			
Chloroethane	8.99	0.50	µg/L	10.0	ND	89.9		70-130			
Chloroform	9.71	0.50	µg/L	10.0	ND	97.1		70-130			

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 B178617 - SW-846 5030B											
Matrix Spike (B178617-MS1)	**Source: 17F0044-03**			Prepared: 06/07/17 Analyzed: 06/08/17							
Chloromethane	8.68	0.60	µg/L	10.0	ND	86.8		70-130			
2-Chlorotoluene	11.2	0.50	µg/L	10.0	ND	112		70-130			
4-Chlorotoluene	11.1	0.50	µg/L	10.0	ND	111		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	9.05	0.50	µg/L	10.0	ND	90.5		70-130			
1,2-Dibromoethane (EDB)	10.3	0.50	µg/L	10.0	ND	103		70-130			
Dibromomethane	11.4	0.50	µg/L	10.0	ND	114		70-130			
1,2-Dichlorobenzene	9.09	0.50	µg/L	10.0	ND	90.9		70-130			
1,3-Dichlorobenzene	9.38	0.50	µg/L	10.0	ND	93.8		70-130			
1,4-Dichlorobenzene	9.31	0.50	µg/L	10.0	ND	93.1		70-130			
trans-1,4-Dichloro-2-butene	7.47	2.0	µg/L	10.0	ND	74.7		70-130			
Dichlorodifluoromethane (Freon 12)	7.12	0.50	µg/L	10.0	ND	71.2		70-130			
1,1-Dichloroethane	10.6	0.50	µg/L	10.0	ND	106		70-130			
1,2-Dichloroethane	9.68	0.50	µg/L	10.0	ND	96.8		70-130			
1,1-Dichloroethylene	9.14	0.50	µg/L	10.0	ND	91.4		70-130			
cis-1,2-Dichloroethylene	9.68	0.50	µg/L	10.0	ND	96.8		70-130			
trans-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0	ND	105		70-130			
1,2-Dichloropropane	10.9	0.50	µg/L	10.0	ND	109		70-130			
1,3-Dichloropropane	11.4	0.50	µg/L	10.0	ND	114		70-130			
2,2-Dichloropropane	6.67	0.50	µg/L	10.0	ND	**66.7**	*	70-130			MS-09
1,1-Dichloropropene	11.1	0.50	µg/L	10.0	ND	111		70-130			
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0	ND	103		70-130			
trans-1,3-Dichloropropene	9.88	0.50	µg/L	10.0	ND	98.8		70-130			
Ethylbenzene	11.4	0.50	µg/L	10.0	ND	114		70-130			
Hexachlorobutadiene	9.52	0.60	µg/L	10.0	ND	95.2		70-130			
2-Hexanone (MBK)	98.3	5.0	µg/L	100	ND	98.3		70-130			
Isopropylbenzene (Cumene)	11.6	0.50	µg/L	10.0	ND	116		70-130			
p-Isopropyltoluene (p-Cymene)	10.2	0.50	µg/L	10.0	ND	102		70-130			
Methyl tert-Butyl Ether (MTBE)	11.0	0.50	µg/L	10.0	0.720	103		70-130			
Methylene Chloride	9.38	5.0	µg/L	10.0	ND	93.8		70-130			
4-Methyl-2-pentanone (MIBK)	106	5.0	µg/L	100	ND	106		70-130			
Naphthalene	10.4	2.0	µg/L	10.0	ND	104		70-130			
n-Propylbenzene	11.1	1.0	µg/L	10.0	ND	111		70-130			
Styrene	11.2	1.0	µg/L	10.0	ND	112		70-130			
1,1,1,2-Tetrachloroethane	10.4	0.50	µg/L	10.0	ND	104		70-130			
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0	ND	102		70-130			
Tetrachloroethylene	10.6	1.0	µg/L	10.0	ND	106		70-130			
Tetrahydrofuran	9.85	10	µg/L	10.0	ND	98.5		70-130			
Toluene	11.6	1.0	µg/L	10.0	ND	116		70-130			
1,2,3-Trichlorobenzene	9.71	0.50	µg/L	10.0	ND	97.1		70-130			
1,2,4-Trichlorobenzene	9.56	0.50	µg/L	10.0	ND	95.6		70-130			
1,1,1-Trichloroethane	9.90	0.50	µg/L	10.0	ND	99.0		70-130			
1,1,2-Trichloroethane	10.7	0.50	µg/L	10.0	ND	107		70-130			
Trichloroethylene	10.6	1.0	µg/L	10.0	ND	106		70-130			
Trichlorofluoromethane (Freon 11)	9.58	2.0	µg/L	10.0	ND	95.8		70-130			
1,2,3-Trichloropropane	9.99	0.50	µg/L	10.0	ND	99.9		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.3	0.50	µg/L	10.0	ND	103		70-130			
1,2,4-Trimethylbenzene	10.8	0.50	µg/L	10.0	ND	108		70-130			
1,3,5-Trimethylbenzene	11.3	0.50	µg/L	10.0	ND	113		70-130			
Vinyl Chloride	8.96	1.0	µg/L	10.0	ND	89.6		70-130			
m+p Xylene	22.2	2.0	µg/L	20.0	ND	111		70-130			
o-Xylene	10.8	1.0	µg/L	10.0	ND	108		70-130			

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 B178617 - SW-846 5030B											
Matrix Spike (B178617-MS1)	**Source: 17F0044-03**			Prepared: 06/07/17 Analyzed: 06/08/17							
Surrogate: 1,2-Dichloroethane-d4	*22.6*		µg/L	25.0		90.5		70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		102		70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100		70-130			
Matrix Spike Dup (B178617-MSD1)	**Source: 17F0044-03**			Prepared: 06/07/17 Analyzed: 06/08/17							
Acetone	52.6	10	µg/L	100	ND	**52.6**	*	70-130	2.52	30	MS-09
Acrylonitrile	10.6	2.0	µg/L	10.0	ND	106		70-130	2.79	30	
Benzene	10.7	0.50	µg/L	10.0	ND	107		70-130	3.31	30	
Bromobenzene	10.2	0.50	µg/L	10.0	ND	102		70-130	2.23	30	
Bromodichloromethane	9.85	0.50	µg/L	10.0	ND	98.5		70-130	1.71	30	
Bromoform	9.33	0.50	µg/L	10.0	ND	93.3		70-130	2.85	30	
Bromomethane	8.51	1.0	µg/L	10.0	ND	85.1		70-130	2.14	30	
2-Butanone (MEK)	82.2	5.0	µg/L	100	ND	82.2		70-130	3.71	30	
n-Butylbenzene	10.5	1.0	µg/L	10.0	ND	105		70-130	0.663	30	
sec-Butylbenzene	10.4	1.0	µg/L	10.0	ND	104		70-130	4.16	30	
tert-Butylbenzene	9.94	1.0	µg/L	10.0	ND	99.4		70-130	3.46	30	
Carbon Disulfide	111	5.0	µg/L	100	ND	111		70-130	1.79	30	
Carbon Tetrachloride	10.3	0.50	µg/L	10.0	ND	103		70-130	3.52	30	
Chlorobenzene	10.3	0.50	µg/L	10.0	ND	103		70-130	1.06	30	
Chlorodibromomethane	10.1	0.50	µg/L	10.0	ND	101		70-130	1.57	30	
Chloroethane	8.52	0.50	µg/L	10.0	ND	85.2		70-130	5.37	30	
Chloroform	9.62	0.50	µg/L	10.0	ND	96.2		70-130	0.931	30	
Chloromethane	8.14	0.60	µg/L	10.0	ND	81.4		70-130	6.42	30	
2-Chlorotoluene	10.5	0.50	µg/L	10.0	ND	105		70-130	6.36	30	
4-Chlorotoluene	10.6	0.50	µg/L	10.0	ND	106		70-130	4.62	30	
1,2-Dibromo-3-chloropropane (DBCP)	9.11	0.50	µg/L	10.0	ND	91.1		70-130	0.661	30	
1,2-Dibromoethane (EDB)	9.96	0.50	µg/L	10.0	ND	99.6		70-130	3.74	30	
Dibromomethane	11.1	0.50	µg/L	10.0	ND	111		70-130	2.58	30	
1,2-Dichlorobenzene	9.28	0.50	µg/L	10.0	ND	92.8		70-130	2.07	30	
1,3-Dichlorobenzene	8.90	0.50	µg/L	10.0	ND	89.0		70-130	5.25	30	
1,4-Dichlorobenzene	8.94	0.50	µg/L	10.0	ND	89.4		70-130	4.05	30	
trans-1,4-Dichloro-2-butene	7.29	2.0	µg/L	10.0	ND	72.9		70-130	2.44	30	
Dichlorodifluoromethane (Freon 12)	6.23	0.50	µg/L	10.0	ND	**62.3**	*	70-130	13.3	30	MS-24
1,1-Dichloroethane	10.4	0.50	µg/L	10.0	ND	104		70-130	2.01	30	
1,2-Dichloroethane	9.26	0.50	µg/L	10.0	ND	92.6		70-130	4.44	30	
1,1-Dichloroethylene	8.67	0.50	µg/L	10.0	ND	86.7		70-130	5.28	30	
cis-1,2-Dichloroethylene	9.63	0.50	µg/L	10.0	ND	96.3		70-130	0.518	30	
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0	ND	102		70-130	3.10	30	
1,2-Dichloropropane	11.0	0.50	µg/L	10.0	ND	110		70-130	0.824	30	
1,3-Dichloropropane	10.8	0.50	µg/L	10.0	ND	108		70-130	5.58	30	
2,2-Dichloropropane	6.44	0.50	µg/L	10.0	ND	**64.4**	*	70-130	3.51	30	MS-09
1,1-Dichloropropene	10.5	0.50	µg/L	10.0	ND	105		70-130	5.09	30	
cis-1,3-Dichloropropene	10.3	0.50	µg/L	10.0	ND	103		70-130	0.291	30	
trans-1,3-Dichloropropene	9.69	0.50	µg/L	10.0	ND	96.9		70-130	1.94	30	
Ethylbenzene	11.0	0.50	µg/L	10.0	ND	110		70-130	3.38	30	
Hexachlorobutadiene	9.94	0.60	µg/L	10.0	ND	99.4		70-130	4.32	30	
2-Hexanone (MBK)	95.0	5.0	µg/L	100	ND	95.0		70-130	3.41	30	
Isopropylbenzene (Cumene)	11.3	0.50	µg/L	10.0	ND	113		70-130	2.19	30	
p-Isopropyltoluene (p-Cymene)	9.84	0.50	µg/L	10.0	ND	98.4		70-130	3.49	30	
Methyl tert-Butyl Ether (MTBE)	10.7	0.50	µg/L	10.0	0.720	99.8		70-130	2.58	30	
Methylene Chloride	8.94	5.0	µg/L	10.0	ND	89.4		70-130	4.80	30	
4-Methyl-2-pentanone (MIBK)	104	5.0	µg/L	100	ND	104		70-130	2.68	30	

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 B178617 - SW-846 5030B										
Matrix Spike Dup (B178617-MSD1)	**Source: 17F0044-03**			Prepared: 06/07/17 Analyzed: 06/08/17						
Naphthalene	9.69	2.0	µg/L	10.0	ND	96.9	70-130	7.55	30	
n-Propylbenzene	10.7	1.0	µg/L	10.0	ND	107	70-130	3.48	30	
Styrene	10.7	1.0	µg/L	10.0	ND	107	70-130	4.31	30	
1,1,1,2-Tetrachloroethane	10.3	0.50	µg/L	10.0	ND	103	70-130	1.45	30	
1,1,2,2-Tetrachloroethane	9.98	0.50	µg/L	10.0	ND	99.8	70-130	1.79	30	
Tetrachloroethylene	10.4	1.0	µg/L	10.0	ND	104	70-130	1.90	30	
Tetrahydrofuran	10.0	10	µg/L	10.0	ND	100	70-130	2.01	30	
Toluene	11.4	1.0	µg/L	10.0	ND	114	70-130	2.08	30	
1,2,3-Trichlorobenzene	9.61	0.50	µg/L	10.0	ND	96.1	70-130	1.04	30	
1,2,4-Trichlorobenzene	9.28	0.50	µg/L	10.0	ND	92.8	70-130	2.97	30	
1,1,1-Trichloroethane	9.45	0.50	µg/L	10.0	ND	94.5	70-130	4.65	30	
1,1,2-Trichloroethane	10.3	0.50	µg/L	10.0	ND	103	70-130	3.99	30	
Trichloroethylene	10.3	1.0	µg/L	10.0	ND	103	70-130	2.49	30	
Trichlorofluoromethane (Freon 11)	9.69	2.0	µg/L	10.0	ND	96.9	70-130	1.14	30	
1,2,3-Trichloropropane	9.85	0.50	µg/L	10.0	ND	98.5	70-130	1.41	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	0.50	µg/L	10.0	ND	100	70-130	2.76	30	
1,2,4-Trimethylbenzene	10.4	0.50	µg/L	10.0	ND	104	70-130	4.24	30	
1,3,5-Trimethylbenzene	11.0	0.50	µg/L	10.0	ND	110	70-130	3.32	30	
Vinyl Chloride	8.48	1.0	µg/L	10.0	ND	84.8	70-130	5.50	30	
m+p Xylene	21.4	2.0	µg/L	20.0	ND	107	70-130	3.81	30	
o-Xylene	10.5	1.0	µg/L	10.0	ND	105	70-130	3.09	30	
Surrogate: 1,2-Dichloroethane-d4	*22.1*		µg/L	25.0		88.5	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		102	70-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178500 - SW-846 3510C										
Blank (B178500-BLK1)				Prepared: 06/06/17 Analyzed: 06/07/17						
Acenaphthene (low)	ND	0.30	µg/L							
Acenaphthylene (low)	ND	0.30	µg/L							
Aniline	ND	5.0	µg/L							L-04
Anthracene (low)	ND	0.20	µg/L							
Benzo(a)anthracene (low)	ND	0.050	µg/L							
Benzo(a)pyrene (low)	ND	0.10	µg/L							
Benzo(b)fluoranthene (low)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (low)	ND	0.50	µg/L							
Benzo(k)fluoranthene (low)	ND	0.20	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	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
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 (low)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (low)	ND	0.20	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Fluoranthene (low)	ND	0.50	µg/L							
Fluorene (low)	ND	1.0	µg/L							
Hexachlorobenzene	ND	5.0	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-19
Hexachloroethane	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene (low)	ND	0.20	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene (low)	ND	1.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene (low)	ND	1.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B178500 - SW-846 3510C												
Blank (B178500-BLK1)				Prepared: 06/06/17 Analyzed: 06/08/17								
4-Nitrophenol	ND	10	µg/L									
N-Nitrosodiphenylamine	ND	10	µg/L									
N-Nitrosodi-n-propylamine	ND	10	µg/L									
Pentachloronitrobenzene	ND	10	µg/L									
Pentachlorophenol	ND	5.0	µg/L									
Phenanthrene (low)	ND	0.050	µg/L									
Phenol	ND	10	µg/L									
Pyrene (low)	ND	1.0	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	*89.5*		µg/L	200		44.8		15-110				
Surrogate: Phenol-d6	*66.4*		µg/L	200		33.2		15-110				
Surrogate: Nitrobenzene-d5	*65.0*		µg/L	100		65.0		30-130				
Surrogate: Nitrobenzene-d5 (low)	*85.2*		µg/L	100		85.2		30-130				
Surrogate: 2-Fluorobiphenyl	*67.3*		µg/L	100		67.3		30-130				
Surrogate: 2-Fluorobiphenyl (low)	*89.1*		µg/L	100		89.1		30-130				
Surrogate: 2,4,6-Tribromophenol	*116*		µg/L	200		57.9		15-110				
Surrogate: p-Terphenyl-d14	*71.1*		µg/L	100		71.1		30-130				
Surrogate: p-Terphenyl-d14 (low)	*77.5*		µg/L	100		77.5		30-130				
LCS (B178500-BS1)				Prepared: 06/06/17 Analyzed: 06/07/17								
Acenaphthene (low)	41.4	7.5	µg/L	50.0		82.8		40-140				
Acenaphthylene (low)	39.9	7.5	µg/L	50.0		79.8		40-140				
Aniline	19.0	5.0	µg/L	50.0		**37.9**	*	40-140			L-04	†
Anthracene (low)	45.0	5.0	µg/L	50.0		90.0		40-140				
Benzo(a)anthracene (low)	43.3	1.2	µg/L	50.0		86.6		40-140				
Benzo(a)pyrene (low)	44.7	2.5	µg/L	50.0		89.4		40-140				
Benzo(b)fluoranthene (low)	45.8	1.2	µg/L	50.0		91.6		40-140				
Benzo(g,h,i)perylene (low)	48.5	12	µg/L	50.0		97.0		40-140				
Benzo(k)fluoranthene (low)	45.1	5.0	µg/L	50.0		90.2		40-140				
Bis(2-chloroethoxy)methane	26.9	10	µg/L	50.0		53.8		40-140				
Bis(2-chloroethyl)ether	26.5	10	µg/L	50.0		53.0		40-140				
Bis(2-chloroisopropyl)ether	24.4	10	µg/L	50.0		48.8		40-140				
Bis(2-Ethylhexyl)phthalate	24.4	10	µg/L	50.0		48.9		40-140				
4-Bromophenylphenylether	26.2	10	µg/L	50.0		52.5		40-140				
Butylbenzylphthalate	24.2	10	µg/L	50.0		48.4		40-140				
Carbazole	24.6	10	µg/L	50.0		49.2		40-140				
4-Chloroaniline	21.2	10	µg/L	50.0		42.3		40-140				†
4-Chloro-3-methylphenol	26.4	10	µg/L	50.0		52.8		30-130				
2-Chloronaphthalene	22.2	10	µg/L	50.0		44.5		40-140				
2-Chlorophenol	25.0	10	µg/L	50.0		50.0		30-130				
4-Chlorophenylphenylether	26.0	10	µg/L	50.0		51.9		40-140				
Chrysene (low)	41.0	5.0	µg/L	50.0		82.0		40-140				
Dibenz(a,h)anthracene (low)	49.2	5.0	µg/L	50.0		98.4		40-140				
Dibenzofuran	26.2	5.0	µg/L	50.0		52.4		40-140				
Di-n-butylphthalate	25.3	10	µg/L	50.0		50.7		40-140				
3,3-Dichlorobenzidine	25.2	10	µg/L	50.0		50.4		40-140				†
2,4-Dichlorophenol	26.1	10	µg/L	50.0		52.2		30-130				
Diethylphthalate	25.7	10	µg/L	50.0		51.5		40-140				

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B178500 - SW-846 3510C											
LCS (B178500-BS1)				Prepared: 06/06/17 Analyzed: 06/08/17							
2,4-Dimethylphenol	25.2	10	µg/L	50.0		50.4	30-130				
Dimethylphthalate	26.2	10	µg/L	50.0		52.4	40-140				
4,6-Dinitro-2-methylphenol	26.3	10	µg/L	50.0		52.5	30-130				
2,4-Dinitrophenol	29.3	10	µg/L	50.0		58.6	30-130				
2,4-Dinitrotoluene	24.0	10	µg/L	50.0		48.1	40-140				
2,6-Dinitrotoluene	25.6	10	µg/L	50.0		51.2	40-140				
Di-n-octylphthalate	26.6	10	µg/L	50.0		53.2	40-140				
Fluoranthene (low)	44.3	12	µg/L	50.0		88.6	40-140				
Fluorene (low)	44.1	25	µg/L	50.0		88.2	40-140				
Hexachlorobenzene	24.8	10	µg/L	50.0		49.6	40-140				
Hexachlorobutadiene	25.6	10	µg/L	50.0		51.2	40-140				
Hexachlorocyclopentadiene	29.0	10	µg/L	50.0		57.9	30-140			V-19	
Hexachloroethane	24.2	10	µg/L	50.0		48.3	40-140				
Indeno(1,2,3-cd)pyrene (low)	49.5	5.0	µg/L	50.0		99.0	40-140				
Isophorone	25.0	10	µg/L	50.0		50.1	40-140				
2-Methylnaphthalene (low)	42.0	25	µg/L	50.0		84.0	40-140				
2-Methylphenol	23.4	10	µg/L	50.0		46.7	30-130				
3/4-Methylphenol	23.3	10	µg/L	50.0		46.7	30-130				
Naphthalene (low)	38.0	25	µg/L	50.0		76.0	40-140				
2-Nitroaniline	24.9	10	µg/L	50.0		49.8	40-140				
3-Nitroaniline	23.3	10	µg/L	50.0		46.5	40-140				†
4-Nitroaniline	23.8	10	µg/L	50.0		47.6	40-140				
Nitrobenzene	23.9	10	µg/L	50.0		47.9	40-140				
2-Nitrophenol	24.7	10	µg/L	50.0		49.5	30-130				
4-Nitrophenol	14.6	10	µg/L	50.0		29.2	10-130				
N-Nitrosodiphenylamine	34.6	10	µg/L	50.0		69.2	40-140				
N-Nitrosodi-n-propylamine	26.6	10	µg/L	50.0		53.3	40-140				
Pentachloronitrobenzene	26.2	10	µg/L	50.0		52.4	40-140				
Pentachlorophenol	24.4	10	µg/L	50.0		48.9	30-130				
Phenanthrene (low)	42.5	1.2	µg/L	50.0		85.0	40-140				
Phenol	12.5	10	µg/L	50.0		25.0	20-130				
Pyrene (low)	40.6	25	µg/L	50.0		81.2	40-140				
Pyridine	7.03	5.0	µg/L	50.0		14.1	10-140				†
1,2,4,5-Tetrachlorobenzene	27.1	10	µg/L	50.0		54.1	40-140				
1,2,4-Trichlorobenzene	24.4	5.0	µg/L	50.0		48.7	40-140				
2,4,5-Trichlorophenol	25.0	10	µg/L	50.0		49.9	30-130				
2,4,6-Trichlorophenol	26.3	10	µg/L	50.0		52.6	30-130				
Surrogate: 2-Fluorophenol	*72.0*		µg/L	200		36.0	15-110				
Surrogate: Phenol-d6	*53.8*		µg/L	200		26.9	15-110				
Surrogate: Nitrobenzene-d5	*52.3*		µg/L	100		52.3	30-130				
Surrogate: Nitrobenzene-d5 (low)	*56.0*		µg/L	100		56.0	30-130				
Surrogate: 2-Fluorobiphenyl	*56.7*		µg/L	100		56.7	30-130				
Surrogate: 2-Fluorobiphenyl (low)	*77.1*		µg/L	100		77.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*96.6*		µg/L	200		48.3	15-110				
Surrogate: p-Terphenyl-d14	*50.4*		µg/L	100		50.4	30-130				
Surrogate: p-Terphenyl-d14 (low)	*58.2*		µg/L	100		58.2	30-130				

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B178500 - SW-846 3510C												
LCS Dup (B178500-BSD1)				Prepared: 06/06/17 Analyzed: 06/07/17								
Acenaphthene (low)	37.2	7.5	µg/L	50.0		74.4		40-140	10.6	20		
Acenaphthylene (low)	36.2	7.5	µg/L	50.0		72.4		40-140	9.79	20		
Aniline	17.9	5.0	µg/L	50.0		**35.9**	*	40-140	5.48	50	L-04	† ‡
Anthracene (low)	40.4	5.0	µg/L	50.0		80.8		40-140	10.8	20		
Benzo(a)anthracene (low)	38.6	1.2	µg/L	50.0		77.1		40-140	11.7	20		
Benzo(a)pyrene (low)	40.1	2.5	µg/L	50.0		80.2		40-140	10.7	20		
Benzo(b)fluoranthene (low)	41.5	1.2	µg/L	50.0		83.0		40-140	9.91	20		
Benzo(g,h,i)perylene (low)	43.3	12	µg/L	50.0		86.6		40-140	11.2	20		
Benzo(k)fluoranthene (low)	41.0	5.0	µg/L	50.0		82.0		40-140	9.64	20		
Bis(2-chloroethoxy)methane	25.6	10	µg/L	50.0		51.3		40-140	4.84	20		
Bis(2-chloroethyl)ether	27.6	10	µg/L	50.0		55.1		40-140	4.00	20		
Bis(2-chloroisopropyl)ether	24.8	10	µg/L	50.0		49.6		40-140	1.46	20		
Bis(2-Ethylhexyl)phthalate	23.6	10	µg/L	50.0		47.3		40-140	3.29	20		
4-Bromophenylphenylether	25.7	10	µg/L	50.0		51.4		40-140	2.08	20		
Butylbenzylphthalate	24.3	10	µg/L	50.0		48.6		40-140	0.371	20		
Carbazole	23.4	10	µg/L	50.0		46.7		40-140	5.17	20		
4-Chloroaniline	18.9	10	µg/L	50.0		**37.8**	*	40-140	11.3	20	L-07	†
4-Chloro-3-methylphenol	24.3	10	µg/L	50.0		48.5		30-130	8.45	20		
2-Chloronaphthalene	22.3	10	µg/L	50.0		44.5		40-140	0.0899	20		
2-Chlorophenol	25.7	10	µg/L	50.0		51.4		30-130	2.88	20		
4-Chlorophenylphenylether	24.7	10	µg/L	50.0		49.5		40-140	4.81	20		
Chrysene (low)	36.9	5.0	µg/L	50.0		73.8		40-140	10.5	20		
Dibenz(a,h)anthracene (low)	44.2	5.0	µg/L	50.0		88.4		40-140	10.8	20		
Dibenzofuran	25.0	5.0	µg/L	50.0		50.0		40-140	4.65	20		
Di-n-butylphthalate	24.1	10	µg/L	50.0		48.2		40-140	5.02	20		
3,3-Dichlorobenzidine	24.1	10	µg/L	50.0		48.2		40-140	4.46	20		† ‡
2,4-Dichlorophenol	25.0	10	µg/L	50.0		50.1		30-130	4.19	20		
Diethylphthalate	24.1	10	µg/L	50.0		48.2		40-140	6.63	20		
2,4-Dimethylphenol	23.4	10	µg/L	50.0		46.7		30-130	7.58	20		
Dimethylphthalate	25.5	10	µg/L	50.0		51.1		40-140	2.59	50		
4,6-Dinitro-2-methylphenol	24.2	10	µg/L	50.0		48.5		30-130	8.04	50		
2,4-Dinitrophenol	26.0	10	µg/L	50.0		52.0		30-130	11.9	50		
2,4-Dinitrotoluene	23.2	10	µg/L	50.0		46.3		40-140	3.81	20		
2,6-Dinitrotoluene	24.7	10	µg/L	50.0		49.3		40-140	3.66	20		
Di-n-octylphthalate	25.6	10	µg/L	50.0		51.1		40-140	3.87	20		
Fluoranthene (low)	39.4	12	µg/L	50.0		78.9		40-140	11.6	20		
Fluorene (low)	38.9	25	µg/L	50.0		77.8		40-140	12.5	20		
Hexachlorobenzene	24.3	10	µg/L	50.0		48.7		40-140	1.83	20		
Hexachlorobutadiene	26.8	10	µg/L	50.0		53.7		40-140	4.69	20		
Hexachlorocyclopentadiene	27.2	10	µg/L	50.0		54.5		30-140	6.16	50	V-19	
Hexachloroethane	26.7	10	µg/L	50.0		53.4		40-140	9.95	50		
Indeno(1,2,3-cd)pyrene (low)	44.3	5.0	µg/L	50.0		88.6		40-140	11.1	20		
Isophorone	24.0	10	µg/L	50.0		48.1		40-140	4.08	20		
2-Methylnaphthalene (low)	39.0	25	µg/L	50.0		78.0		40-140	7.34	20		
2-Methylphenol	22.8	10	µg/L	50.0		45.7		30-130	2.25	20		
3/4-Methylphenol	22.6	10	µg/L	50.0		45.2		30-130	3.13	20		
Naphthalene (low)	36.6	25	µg/L	50.0		73.2		40-140	3.75	20		
2-Nitroaniline	24.2	10	µg/L	50.0		48.3		40-140	3.06	20		
3-Nitroaniline	22.4	10	µg/L	50.0		44.8		40-140	3.72	20		†
4-Nitroaniline	22.0	10	µg/L	50.0		43.9		40-140	8.00	20		
Nitrobenzene	23.4	10	µg/L	50.0		46.8		40-140	2.24	20		
2-Nitrophenol	24.0	10	µg/L	50.0		47.9		30-130	3.20	20		

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178500 - SW-846 3510C										
LCS Dup (B178500-BSD1)				Prepared: 06/06/17 Analyzed: 06/08/17						
4-Nitrophenol	14.9	10	µg/L	50.0		29.7	10-130	1.83	50	‡
N-Nitrosodiphenylamine	32.4	10	µg/L	50.0		64.8	40-140	6.63	20	
N-Nitrosodi-n-propylamine	26.3	10	µg/L	50.0		52.5	40-140	1.44	20	
Pentachloronitrobenzene	24.6	10	µg/L	50.0		49.2	40-140	6.18	20	
Pentachlorophenol	21.5	10	µg/L	50.0		43.0	30-130	12.8	50	
Phenanthrene (low)	38.5	1.2	µg/L	50.0		77.0	40-140	9.75	20	
Phenol	12.6	10	µg/L	50.0		25.1	20-130	0.319	20	
Pyrene (low)	37.1	25	µg/L	50.0		74.2	40-140	9.08	20	
Pyridine	9.14	5.0	µg/L	50.0		18.3	10-140	26.1	50	†
1,2,4,5-Tetrachlorobenzene	26.6	10	µg/L	50.0		53.3	40-140	1.60	20	
1,2,4-Trichlorobenzene	24.8	5.0	µg/L	50.0		49.6	40-140	1.75	20	
2,4,5-Trichlorophenol	24.4	10	µg/L	50.0		48.7	30-130	2.39	20	
2,4,6-Trichlorophenol	25.1	10	µg/L	50.0		50.3	30-130	4.59	50	
Surrogate: 2-Fluorophenol	*80.0*		µg/L	200		40.0	15-110			
Surrogate: Phenol-d6	*55.7*		µg/L	200		27.9	15-110			
Surrogate: Nitrobenzene-d5	*54.5*		µg/L	100		54.5	30-130			
Surrogate: Nitrobenzene-d5 (low)	*73.1*		µg/L	100		73.1	30-130			
Surrogate: 2-Fluorobiphenyl	*57.0*		µg/L	100		57.0	30-130			
Surrogate: 2-Fluorobiphenyl (low)	*68.6*		µg/L	100		68.6	30-130			
Surrogate: 2,4,6-Tribromophenol	*99.4*		µg/L	200		49.7	15-110			
Surrogate: p-Terphenyl-d14	*53.8*		µg/L	100		53.8	30-130			
Surrogate: p-Terphenyl-d14 (low)	*52.6*		µg/L	100		52.6	30-130			
Matrix Spike (B178500-MS1)	**Source: 17F0044-03**			Prepared: 06/06/17 Analyzed: 06/12/17						
Acenaphthene (low)	48.0	7.6	µg/L	50.5	ND	95.0	40-140			
Acenaphthylene (low)	46.4	7.6	µg/L	50.5	ND	91.9	40-140			
Aniline	31.4	5.1	µg/L	50.5	ND	62.3	40-140			
Anthracene (low)	50.0	5.1	µg/L	50.5	ND	99.0	40-140			
Benzo(a)anthracene (low)	47.9	1.3	µg/L	50.5	ND	94.8	40-140			
Benzo(a)pyrene (low)	50.8	2.5	µg/L	50.5	ND	101	40-140			
Benzo(b)fluoranthene (low)	53.3	1.3	µg/L	50.5	ND	105	40-140			
Benzo(g,h,i)perylene (low)	52.6	13	µg/L	50.5	ND	104	40-140			
Benzo(k)fluoranthene (low)	52.6	5.1	µg/L	50.5	ND	104	40-140			
Bis(2-chloroethoxy)methane	44.9	10	µg/L	50.5	ND	88.8	40-140			
Bis(2-chloroethyl)ether	49.2	10	µg/L	50.5	ND	97.4	40-140			
Bis(2-chloroisopropyl)ether	43.6	10	µg/L	50.5	ND	86.4	40-140			
Bis(2-Ethylhexyl)phthalate	40.8	10	µg/L	50.5	ND	80.7	40-140			
4-Bromophenylphenylether	41.5	10	µg/L	50.5	ND	82.2	40-140			
Butylbenzylphthalate	43.1	10	µg/L	50.5	ND	85.3	40-140			
Carbazole	42.9	10	µg/L	50.5	ND	84.9	40-140			
4-Chloroaniline	36.6	10	µg/L	50.5	ND	72.4	40-140			
4-Chloro-3-methylphenol	49.2	10	µg/L	50.5	ND	97.4	30-130			
2-Chloronaphthalene	37.7	10	µg/L	50.5	ND	74.6	40-140			
2-Chlorophenol	46.2	10	µg/L	50.5	ND	91.5	30-130			
4-Chlorophenylphenylether	43.1	10	µg/L	50.5	ND	85.3	40-140			
Chrysene (low)	46.0	5.1	µg/L	50.5	ND	91.1	40-140			
Dibenz(a,h)anthracene (low)	53.4	5.1	µg/L	50.5	ND	106	40-140			
Dibenzofuran	44.6	5.1	µg/L	50.5	ND	88.3	40-140			
Di-n-butylphthalate	42.2	10	µg/L	50.5	ND	83.5	40-140			
3,3-Dichlorobenzidine	41.9	10	µg/L	50.5	ND	83.1	40-140			
2,4-Dichlorophenol	46.6	10	µg/L	50.5	ND	92.2	30-130			
Diethylphthalate	46.5	10	µg/L	50.5	ND	92.1	40-140			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B178500 - SW-846 3510C											
Matrix Spike (B178500-MS1)	**Source: 17F0044-03**			Prepared: 06/06/17 Analyzed: 06/12/17							
2,4-Dimethylphenol	43.9	10	µg/L	50.5	ND	86.9		30-130			
Dimethylphthalate	44.6	10	µg/L	50.5	ND	88.2		40-140			
4,6-Dinitro-2-methylphenol	45.1	10	µg/L	50.5	ND	89.4		30-130			
2,4-Dinitrophenol	51.9	10	µg/L	50.5	ND	103		30-130			
2,4-Dinitrotoluene	45.8	10	µg/L	50.5	ND	90.7		40-140			
2,6-Dinitrotoluene	45.8	10	µg/L	50.5	ND	90.8		40-140			
Di-n-octylphthalate	46.4	10	µg/L	50.5	ND	91.9		40-140			
Fluoranthene (low)	49.0	13	µg/L	50.5	ND	97.0		40-140			
Fluorene (low)	50.0	25	µg/L	50.5	ND	99.0		40-140			
Hexachlorobenzene	38.9	10	µg/L	50.5	ND	77.1		40-140			
Hexachlorobutadiene	43.1	10	µg/L	50.5	ND	85.3		40-140			
Hexachlorocyclopentadiene	38.7	10	µg/L	50.5	ND	76.7		40-140			V-19
Hexachloroethane	44.8	10	µg/L	50.5	ND	88.7		40-140			
Indeno(1,2,3-cd)pyrene (low)	53.5	5.1	µg/L	50.5	ND	106		40-140			
Isophorone	42.8	10	µg/L	50.5	ND	84.8		40-140			
2-Methylnaphthalene (low)	50.7	25	µg/L	50.5	ND	100		40-140			
2-Methylphenol	42.5	10	µg/L	50.5	ND	84.1		30-130			
3/4-Methylphenol	43.3	10	µg/L	50.5	ND	85.7		30-130			
Naphthalene (low)	46.7	25	µg/L	50.5	ND	92.5		40-140			
2-Nitroaniline	44.5	10	µg/L	50.5	ND	88.1		40-140			
3-Nitroaniline	41.6	10	µg/L	50.5	ND	82.4		40-140			
4-Nitroaniline	42.2	10	µg/L	50.5	ND	83.5		40-140			
Nitrobenzene	41.6	10	µg/L	50.5	ND	82.3		40-140			
2-Nitrophenol	43.6	10	µg/L	50.5	ND	86.4		30-130			
4-Nitrophenol	30.1	10	µg/L	50.5	ND	59.6		30-130			
N-Nitrosodiphenylamine	55.1	10	µg/L	50.5	ND	109		40-140			
N-Nitrosodi-n-propylamine	48.6	10	µg/L	50.5	ND	96.3		40-140			
Pentachloronitrobenzene	42.4	10	µg/L	50.5	ND	84.0		40-140			V-16
Pentachlorophenol	42.1	10	µg/L	50.5	ND	83.3		30-130			
Phenanthrene (low)	49.0	1.3	µg/L	50.5	ND	97.0		40-140			
Phenol	25.4	10	µg/L	50.5	ND	50.4		30-130			
Pyrene (low)	48.6	25	µg/L	50.5	ND	96.3		40-140			
Pyridine	17.0	5.1	µg/L	50.5	ND	**33.7**	*	40-140			MS-09
1,2,4,5-Tetrachlorobenzene	42.7	10	µg/L	50.5	ND	84.5		40-140			
1,2,4-Trichlorobenzene	42.1	5.1	µg/L	50.5	ND	83.4		40-140			
2,4,5-Trichlorophenol	43.0	10	µg/L	50.5	ND	85.1		30-130			
2,4,6-Trichlorophenol	43.2	10	µg/L	50.5	ND	85.5		30-130			
Surrogate: 2-Fluorophenol	*130*		µg/L	202		64.6		15-110			
Surrogate: Phenol-d6	*93.3*		µg/L	202		46.2		15-110			
Surrogate: Nitrobenzene-d5	*89.3*		µg/L	101		88.4		30-130			
Surrogate: Nitrobenzene-d5 (low)	*89.7*		µg/L	101		88.8		30-130			
Surrogate: 2-Fluorobiphenyl	*87.6*		µg/L	101		86.7		30-130			
Surrogate: 2-Fluorobiphenyl (low)	*89.8*		µg/L	101		88.9		30-130			
Surrogate: 2,4,6-Tribromophenol	*181*		µg/L	202		89.7		15-110			
Surrogate: p-Terphenyl-d14	*87.8*		µg/L	101		86.9		30-130			
Surrogate: p-Terphenyl-d14 (low)	*72.4*		µg/L	101		71.7		30-130			

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178500 - SW-846 3510C										
Matrix Spike Dup (B178500-MSD1)	**Source: 17F0044-03**			Prepared: 06/06/17 Analyzed: 06/12/17						
Acenaphthene (low)	45.8	7.6	µg/L	50.5	ND	90.6	40-140	4.74	30	
Acenaphthylene (low)	44.2	7.6	µg/L	50.5	ND	87.5	40-140	4.96	30	
Aniline	28.9	5.1	µg/L	50.5	ND	57.3	40-140	8.30	30	
Anthracene (low)	47.6	5.1	µg/L	50.5	ND	94.2	40-140	4.97	30	
Benzo(a)anthracene (low)	45.6	1.3	µg/L	50.5	ND	90.2	40-140	4.92	30	
Benzo(a)pyrene (low)	48.5	2.5	µg/L	50.5	ND	96.1	40-140	4.63	30	
Benzo(b)fluoranthene (low)	51.2	1.3	µg/L	50.5	ND	101	40-140	3.92	30	
Benzo(g,h,i)perylene (low)	50.3	13	µg/L	50.5	ND	99.6	40-140	4.52	30	
Benzo(k)fluoranthene (low)	50.6	5.1	µg/L	50.5	ND	100	40-140	3.77	30	
Bis(2-chloroethoxy)methane	39.6	10	µg/L	50.5	ND	78.3	40-140	12.6	30	
Bis(2-chloroethyl)ether	44.1	10	µg/L	50.5	ND	87.3	40-140	11.0	30	
Bis(2-chloroisopropyl)ether	38.8	10	µg/L	50.5	ND	76.8	40-140	11.7	30	
Bis(2-Ethylhexyl)phthalate	36.3	10	µg/L	50.5	ND	72.0	40-140	11.5	30	
4-Bromophenylphenylether	38.4	10	µg/L	50.5	ND	76.1	40-140	7.71	30	
Butylbenzylphthalate	38.8	10	µg/L	50.5	ND	76.9	40-140	10.4	30	
Carbazole	39.0	10	µg/L	50.5	ND	77.2	40-140	9.48	30	
4-Chloroaniline	31.2	10	µg/L	50.5	ND	61.7	40-140	15.9	30	
4-Chloro-3-methylphenol	43.0	10	µg/L	50.5	ND	85.2	30-130	13.4	30	
2-Chloronaphthalene	33.6	10	µg/L	50.5	ND	66.4	40-140	11.6	30	
2-Chlorophenol	42.2	10	µg/L	50.5	ND	83.5	30-130	9.21	30	
4-Chlorophenylphenylether	38.5	10	µg/L	50.5	ND	76.3	40-140	11.2	30	
Chrysene (low)	44.1	5.1	µg/L	50.5	ND	87.2	40-140	4.32	30	
Dibenz(a,h)anthracene (low)	51.0	5.1	µg/L	50.5	ND	101	40-140	4.60	30	
Dibenzofuran	39.9	5.1	µg/L	50.5	ND	79.1	40-140	10.9	30	
Di-n-butylphthalate	38.5	10	µg/L	50.5	ND	76.2	40-140	9.14	30	
3,3-Dichlorobenzidine	37.3	10	µg/L	50.5	ND	73.9	40-140	11.7	30	
2,4-Dichlorophenol	41.0	10	µg/L	50.5	ND	81.1	30-130	12.8	30	
Diethylphthalate	40.9	10	µg/L	50.5	ND	80.9	40-140	12.9	30	
2,4-Dimethylphenol	35.7	10	µg/L	50.5	ND	70.7	30-130	20.5	30	
Dimethylphthalate	40.4	10	µg/L	50.5	ND	80.0	40-140	9.80	30	
4,6-Dinitro-2-methylphenol	41.6	10	µg/L	50.5	ND	82.4	30-130	8.15	30	
2,4-Dinitrophenol	49.0	10	µg/L	50.5	ND	96.9	30-130	5.77	30	
2,4-Dinitrotoluene	40.5	10	µg/L	50.5	ND	80.2	40-140	12.2	30	
2,6-Dinitrotoluene	40.4	10	µg/L	50.5	ND	80.0	40-140	12.6	30	
Di-n-octylphthalate	41.3	10	µg/L	50.5	ND	81.8	40-140	11.6	30	
Fluoranthene (low)	46.7	13	µg/L	50.5	ND	92.4	40-140	4.91	30	
Fluorene (low)	47.7	25	µg/L	50.5	ND	94.5	40-140	4.65	30	
Hexachlorobenzene	36.8	10	µg/L	50.5	ND	72.8	40-140	5.66	30	
Hexachlorobutadiene	38.3	10	µg/L	50.5	ND	75.8	40-140	11.7	30	
Hexachlorocyclopentadiene	35.1	10	µg/L	50.5	ND	69.4	40-140	9.97	30	V-19
Hexachloroethane	40.9	10	µg/L	50.5	ND	81.0	40-140	9.00	30	
Indeno(1,2,3-cd)pyrene (low)	51.0	5.1	µg/L	50.5	ND	101	40-140	4.74	30	
Isophorone	37.4	10	µg/L	50.5	ND	74.1	40-140	13.5	30	
2-Methylnaphthalene (low)	48.5	25	µg/L	50.5	ND	96.0	40-140	4.38	30	
2-Methylphenol	37.6	10	µg/L	50.5	ND	74.5	30-130	12.1	30	
3/4-Methylphenol	39.6	10	µg/L	50.5	ND	78.4	30-130	8.92	30	
Naphthalene (low)	44.8	25	µg/L	50.5	ND	88.8	40-140	4.08	30	
2-Nitroaniline	39.2	10	µg/L	50.5	ND	77.6	40-140	12.7	30	
3-Nitroaniline	35.5	10	µg/L	50.5	ND	70.4	40-140	15.8	30	
4-Nitroaniline	37.3	10	µg/L	50.5	ND	73.8	40-140	12.3	30	
Nitrobenzene	36.8	10	µg/L	50.5	ND	72.9	40-140	12.1	30	
2-Nitrophenol	38.4	10	µg/L	50.5	ND	76.1	30-130	12.7	30	

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B178500 - SW-846 3510C											
Matrix Spike Dup (B178500-MSD1)	**Source: 17F0044-03**			Prepared: 06/06/17 Analyzed: 06/12/17							
4-Nitrophenol	27.0	10	µg/L	50.5	ND	53.4		30-130	10.9	30	
N-Nitrosodiphenylamine	49.6	10	µg/L	50.5	ND	98.3		40-140	10.5	30	
N-Nitrosodi-n-propylamine	43.7	10	µg/L	50.5	ND	86.5		40-140	10.7	30	
Pentachloronitrobenzene	38.8	10	µg/L	50.5	ND	76.8		40-140	8.91	30	V-16
Pentachlorophenol	37.4	10	µg/L	50.5	ND	74.1		30-130	11.6	30	
Phenanthrene (low)	46.9	1.3	µg/L	50.5	ND	92.8		40-140	4.37	30	
Phenol	23.1	10	µg/L	50.5	ND	45.8		30-130	9.52	30	
Pyrene (low)	46.3	25	µg/L	50.5	ND	91.7		40-140	4.89	30	
Pyridine	19.0	5.1	µg/L	50.5	ND	**37.7**	*	40-140	11.1	30	MS-09
1,2,4,5-Tetrachlorobenzene	39.0	10	µg/L	50.5	ND	77.3		40-140	8.90	30	
1,2,4-Trichlorobenzene	37.1	5.1	µg/L	50.5	ND	73.4		40-140	12.8	30	
2,4,5-Trichlorophenol	38.6	10	µg/L	50.5	ND	76.5		30-130	10.7	30	
2,4,6-Trichlorophenol	39.0	10	µg/L	50.5	ND	77.3		30-130	10.1	30	
Surrogate: 2-Fluorophenol	*122*		µg/L	202		60.2		15-110			
Surrogate: Phenol-d6	*85.6*		µg/L	202		42.4		15-110			
Surrogate: Nitrobenzene-d5	*78.9*		µg/L	101		78.1		30-130			
Surrogate: Nitrobenzene-d5 (low)	*86.2*		µg/L	101		85.4		30-130			
Surrogate: 2-Fluorobiphenyl	*79.4*		µg/L	101		78.6		30-130			
Surrogate: 2-Fluorobiphenyl (low)	*85.6*		µg/L	101		84.8		30-130			
Surrogate: 2,4,6-Tribromophenol	*161*		µg/L	202		79.9		15-110			
Surrogate: p-Terphenyl-d14	*80.6*		µg/L	101		79.8		30-130			
Surrogate: p-Terphenyl-d14 (low)	*66.8*		µg/L	101		66.1		30-130			

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178487 - SW-846 3510C										
Blank (B178487-BLK1)				Prepared: 06/06/17 Analyzed: 06/07/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0965*		mg/L	0.100		96.5	50-150			
LCS (B178487-BS1)				Prepared: 06/06/17 Analyzed: 06/07/17						
CT ETPH	0.650	0.075	mg/L	1.00		65.0	60-120			
Surrogate: o-Terphenyl	*0.0802*		mg/L	0.100		80.2	50-150			
LCS Dup (B178487-BSD1)				Prepared: 06/06/17 Analyzed: 06/07/17						
CT ETPH	0.736	0.075	mg/L	1.00		73.6	60-120	12.4	30	
Surrogate: o-Terphenyl	*0.0874*		mg/L	0.100		87.4	50-150			
Matrix Spike (B178487-MS1)	**Source: 17F0044-03**			Prepared: 06/06/17 Analyzed: 06/08/17						
CT ETPH	0.775	0.075	mg/L	1.00	ND	77.5	50-150			
Surrogate: o-Terphenyl	*0.0818*		mg/L	0.100		81.8	50-150			
Matrix Spike Dup (B178487-MSD1)	**Source: 17F0044-03**			Prepared: 06/06/17 Analyzed: 06/08/17						
CT ETPH	0.721	0.075	mg/L	1.00	ND	72.1	50-150	7.30	30	
Surrogate: o-Terphenyl	*0.0757*		mg/L	0.100		75.7	50-150			

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178244 - SW-846 3005A										
Blank (B178244-BLK1)				Prepared: 06/01/17 Analyzed: 06/02/17						
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							
LCS (B178244-BS1)				Prepared: 06/01/17 Analyzed: 06/02/17						
Arsenic	260	2.0	µg/L	250		104	80-120			
Barium	260	50	µg/L	250		104	80-120			
Beryllium	255	2.0	µg/L	250		102	80-120			
Cadmium	259	2.5	µg/L	250		103	80-120			
Chromium	255	5.0	µg/L	250		102	80-120			
Copper	260	25	µg/L	250		104	80-120			
Lead	261	5.0	µg/L	250		104	80-120			
Nickel	257	25	µg/L	250		103	80-120			
Selenium	257	25	µg/L	250		103	80-120			
Silver	257	2.5	µg/L	250		103	80-120			
Thallium	242	1.0	µg/L	250		96.8	80-120			
Vanadium	256	25	µg/L	250		102	80-120			
Zinc	259	50	µg/L	250		104	80-120			
LCS Dup (B178244-BSD1)				Prepared: 06/01/17 Analyzed: 06/02/17						
Arsenic	253	2.0	µg/L	250		101	80-120	2.98	20	
Barium	249	50	µg/L	250		99.7	80-120	4.09	20	
Beryllium	246	2.0	µg/L	250		98.3	80-120	3.59	20	
Cadmium	249	2.5	µg/L	250		99.7	80-120	3.68	20	
Chromium	245	5.0	µg/L	250		98.1	80-120	3.94	20	
Copper	250	25	µg/L	250		100	80-120	3.87	20	
Lead	253	5.0	µg/L	250		101	80-120	3.27	20	
Nickel	247	25	µg/L	250		98.8	80-120	3.82	20	
Selenium	250	25	µg/L	250		100	80-120	2.62	20	
Silver	245	2.5	µg/L	250		98.0	80-120	4.89	20	
Thallium	237	1.0	µg/L	250		94.8	80-120	2.02	20	
Vanadium	248	25	µg/L	250		99.4	80-120	3.01	20	
Zinc	249	50	µg/L	250		99.8	80-120	3.96	20	

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B178244 - SW-846 3005A											
Duplicate (B178244-DUP1)	**Source: 17F0044-03**			Prepared: 06/01/17 Analyzed: 06/02/17							
Arsenic	ND	2.0	µg/L		ND				NC	20	
Barium	142	50	µg/L		137				3.25	20	
Beryllium	ND	2.0	µg/L		ND				NC	20	
Cadmium	ND	2.5	µg/L		ND				NC	20	
Chromium	ND	5.0	µg/L		ND				NC	20	
Copper	ND	25	µg/L		ND				NC	20	
Lead	ND	5.0	µg/L		ND				NC	20	
Nickel	ND	25	µg/L		ND				NC	20	
Selenium	ND	25	µg/L		ND				NC	20	
Silver	ND	2.5	µg/L		ND				NC	20	
Thallium	ND	1.0	µg/L		ND				NC	20	
Vanadium	ND	25	µg/L		ND				NC	20	
Zinc	ND	50	µg/L		ND				NC	20	
Matrix Spike (B178244-MS1)	**Source: 17F0044-03**			Prepared: 06/01/17 Analyzed: 06/02/17							
Arsenic	266	2.0	µg/L	250	ND	106		75-125			
Barium	395	50	µg/L	250	137	103		75-125			
Beryllium	242	2.0	µg/L	250	ND	96.8		75-125			
Cadmium	245	2.5	µg/L	250	ND	98.1		75-125			
Chromium	260	5.0	µg/L	250	ND	104		75-125			
Copper	247	25	µg/L	250	ND	98.7		75-125			
Lead	271	5.0	µg/L	250	ND	108		75-125			
Nickel	253	25	µg/L	250	ND	101		75-125			
Selenium	253	25	µg/L	250	ND	101		75-125			
Silver	180	2.5	µg/L	250	ND	**72.1**	*	75-125			MS-22
Thallium	258	1.0	µg/L	250	ND	103		75-125			
Vanadium	272	25	µg/L	250	ND	109		75-125			
Zinc	234	50	µg/L	250	ND	93.6		75-125			
Matrix Spike Dup (B178244-MSD1)	**Source: 17F0044-03**			Prepared: 06/01/17 Analyzed: 06/02/17							
Arsenic	267	2.0	µg/L	250	ND	107		75-125	0.297	20	
Barium	399	50	µg/L	250	137	105		75-125	1.04	20	
Beryllium	240	2.0	µg/L	250	ND	95.8		75-125	1.04	20	
Cadmium	245	2.5	µg/L	250	ND	98.2		75-125	0.0603	20	
Chromium	258	5.0	µg/L	250	ND	103		75-125	0.602	20	
Copper	247	25	µg/L	250	ND	98.9		75-125	0.201	20	
Lead	270	5.0	µg/L	250	ND	108		75-125	0.447	20	
Nickel	253	25	µg/L	250	ND	101		75-125	0.146	20	
Selenium	251	25	µg/L	250	ND	100		75-125	0.954	20	
Silver	189	2.5	µg/L	250	ND	75.8		75-125	4.99	20	
Thallium	259	1.0	µg/L	250	ND	103		75-125	0.165	20	
Vanadium	271	25	µg/L	250	ND	108		75-125	0.304	20	
Zinc	234	50	µg/L	250	ND	93.8		75-125	0.157	20	

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178327 - SW-846 3005A										
Blank (B178327-BLK1)				Prepared: 06/02/17 Analyzed: 06/06/17						
Antimony	ND	5.0	µg/L							
LCS (B178327-BS1)				Prepared: 06/02/17 Analyzed: 06/06/17						
Antimony	281	5.0	µg/L	250		112	80-120			
LCS Dup (B178327-BSD1)				Prepared: 06/02/17 Analyzed: 06/06/17						
Antimony	272	5.0	µg/L	250		109	80-120	3.22	20	
Duplicate (B178327-DUP1)		**Source: 17F0044-03RE1**		Prepared: 06/02/17 Analyzed: 06/06/17						
Antimony	ND	5.0	µg/L		ND			NC	20	
Matrix Spike (B178327-MS1)		**Source: 17F0044-03RE1**		Prepared: 06/02/17 Analyzed: 06/06/17						
Antimony	286	5.0	µg/L	250	ND	114	75-125			
Matrix Spike Dup (B178327-MSD1)		**Source: 17F0044-03RE1**		Prepared: 06/02/17 Analyzed: 06/06/17						
Antimony	275	5.0	µg/L	250	ND	110	75-125	3.98	20	
Batch B178565 - SW-846 7470A Prep										
Blank (B178565-BLK1)				Prepared: 06/07/17 Analyzed: 06/08/17						
Mercury	ND	0.00010	mg/L							
LCS (B178565-BS1)				Prepared: 06/07/17 Analyzed: 06/08/17						
Mercury	0.00187	0.00010	mg/L	0.00200		93.6	80-120			
LCS Dup (B178565-BSD1)				Prepared: 06/07/17 Analyzed: 06/08/17						
Mercury	0.00196	0.00010	mg/L	0.00200		98.2	80-120	4.73	20	
Duplicate (B178565-DUP1)		**Source: 17F0044-03**		Prepared: 06/07/17 Analyzed: 06/08/17						
Mercury	ND	0.00010	mg/L		ND			NC	20	
Matrix Spike (B178565-MS1)		**Source: 17F0044-03**		Prepared: 06/07/17 Analyzed: 06/08/17						
Mercury	0.00185	0.00010	mg/L	0.00200	0.0000616	89.4	75-125			
Matrix Spike Dup (B178565-MSD1)		**Source: 17F0044-03**		Prepared: 06/07/17 Analyzed: 06/08/17						
Mercury	0.00191	0.00010	mg/L	0.00200	0.0000616	92.6	75-125	3.41	20	

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

QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178574 - SW-846 3005A Dissolved										
Blank (B178574-BLK1)				Prepared: 06/06/17 Analyzed: 06/07/17						
Zinc	ND	50	µg/L							
LCS (B178574-BS1)				Prepared: 06/06/17 Analyzed: 06/07/17						
Zinc	279	50	µg/L	250		112	80-120			
LCS Dup (B178574-BSD1)				Prepared: 06/06/17 Analyzed: 06/07/17						
Zinc	278	50	µg/L	250		111	80-120	0.340	20	
Duplicate (B178574-DUP1)	**Source: 17F0044-05**			Prepared: 06/06/17 Analyzed: 06/07/17						
Zinc	60.5	50	µg/L		63.1			4.06	20	
Matrix Spike (B178574-MS1)	**Source: 17F0044-05**			Prepared: 06/06/17 Analyzed: 06/07/17						
Zinc	318	50	µg/L	250	63.1	102	75-125			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B178270 - SM21-22 4500 H B										
LCS (B178270-BS1)				Prepared & Analyzed: 06/02/17						
pH	6.04		pH Units	6.00		101	98.3-110			
LCS (B178270-BS2)				Prepared & Analyzed: 06/02/17						
pH	6.03		pH Units	6.00		100	98.3-110			
Batch B178755 - SM21-22 2320B										
Blank (B178755-BLK1)				Prepared & Analyzed: 06/08/17						
Alkalinity	ND	1.0	mg/L							
LCS (B178755-BS1)				Prepared & Analyzed: 06/08/17						
Alkalinity	28		mg/L	27.8		102	90-110			
LCS Dup (B178755-BSD1)				Prepared & Analyzed: 06/08/17						
Alkalinity	29		mg/L	27.8		104	90-110	1.85	5	
Batch B178964 - SM21-22 2320B										
Blank (B178964-BLK1)				Prepared & Analyzed: 06/12/17						
Alkalinity	ND	1.0	mg/L							
LCS (B178964-BS1)				Prepared & Analyzed: 06/12/17						
Alkalinity	27		mg/L	27.8		98.2	90-110			
LCS Dup (B178964-BSD1)				Prepared & Analyzed: 06/12/17						
Alkalinity	27		mg/L	27.8		98.2	90-110	0.00	5	
Matrix Spike (B178964-MS1)	**Source: 17F0044-03**			Prepared & Analyzed: 06/12/17						
Alkalinity	300	1.0	mg/L	50.0	250	92.4	77.7-116			SM-01
Matrix Spike Dup (B178964-MSD1)	**Source: 17F0044-03**			Prepared & Analyzed: 06/12/17						
Alkalinity	300	1.0	mg/L	50.0	250	101	77.7-116	1.40	20	SM-01

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
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-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-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.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
SM-01	Sample container does not satisfy method specifications.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99. Reduced precision and accuracy may be associated with reported result.

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Water	
CT ETPH	CT
SM21-22 2320B in Water	
Alkalinity	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 6020A-B 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
Zinc	CT,NH,NY,NC,ME,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NY
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
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 Water	
Aniline	CT,NY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
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-Nitrosodiphenylamine	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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
2,4,5-Trichlorophenol	CT,NY,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	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2017
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017

17F0044

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

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: EverSource - Wethersfield
Project Location: 176 Cumberland Ave, Wethersfield
Project Number: 6089-015
Project Manager: Donna Kask
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Michael Ladny

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

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

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	VOCs 8260	ETPH	SVOCs	Total RSR metals + mercury	Carbon Dioxide	Dissolved 2 ions								
								H	I	I	N	I	V								
								V	A	A	P	P	P								
1	TB20170531	5/31/17	6:30			O	C	X													
2	AP-6R	5/31/17	8:25		X	GW	U	X	X	X	X	X									
3	AP-11R MS/MSD	5/31/17	10:10		X	GW	U	X	X	X	X	X									
4	AP-4R	5/31/17	12:45		X	GW	U	X	X	X	X	X									
5	AP-12R	5/31/17	1:30		X	GW	U	X	X	X	X	X	X								

ANALYSIS REQUESTED

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☑ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 5/31/17 3:00	
Received by: (signature)	Date/Time: 5/31/17 3:00	
Relinquished by: (signature)	Date/Time: 6/1/17 11:55	
Received by: (signature)	Date/Time: 6/1/17 11:56	
Relinquished by: (signature)	Date/Time: 6-1-17 1:28pm	
Received by: (signature)	Date/Time: 1328	

Detection Limit Requirements
MA:
CT: CT RSR GA, SWPC, RVC and I/C VC
Other:

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

con-test ANALYTICAL LABORATORY www.contestlabs.com
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

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Page 1 of 2

Sample Receipt Checklist

CLIENT NAME: Apex RECEIVED BY: JM DATE: 6/1/17

1) Was the chain(s) of custody relinquished and signed? Yes ✓ No ✓ No COC Incl.

2) Does the chain agree with the samples? Yes ✓ No ✓
If not, explain: See Comments

3) Are all the samples in good condition? Yes ✓ No
If not, explain:

4) How were the samples received:
On Ice ✓ Direct from Sampling ____ Ambient ____ In Cooler(s) ✓ (2 coolers)

Were the samples received in Temperature Compliance of (2-6°C)? Yes ✓ No ____ N/A ____

Temperature °C by Temp blank ____ # ____ Temperature °C by Temp gun 5.6°C/5.4°C # 2

5) Are there Dissolved samples for the lab to filter? Yes ____ No ✓
Who was notified ____ Date ____ Time ____

6) Are there any RUSH or ~~SHORT HOLDING TIME~~ samples? Yes ✓ No ✓ FM
Who was notified David Date 6/1/17 Time 1400

7) Location where samples are stored: Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) Do all samples have the proper Acid pH: Yes ✓ No ____ N/A ____

9) Do all samples have the proper Base pH: Yes ____ No ____ N/A ✓

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes ____ N/A ✓

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	17	16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic	11	Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below	20	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

No unpreserved container recieved for samples AP-4R & AP-12R, needed for Carbon Dioxide (Group).

40 mL vials:	# HCl 20	# Methanol		Time and Date Frozen:
Doc# 277	# Bisulfate	# DI Water		
Rev. 4 August 2013	# Thiosulfate	Unpreserved		

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	F	See comments
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** JM **Date/Time:** 6/1/17 1328

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Apex Companies, LLC - South Windsor, (

Project Location: 176 Cumberland Ave., Wethersfield, CT

Project Number: 17F0044

Laboratory Sample ID(s):

17F0044-01 thru 17F0044-05

Sample Date(s):

05/31/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6020A-B, 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.

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

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

Printed Name: Lisa A. Worthington **Date:** 06/12/17

Name of Laboratory: Con-Test Analytical Laboratory

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