March 22, 2022

Ms. Shauna Little
United States Environmental Protection Agency – Region 1
5 Post Office Square
Suite 100/OEP06-1
Boston, Massachusetts 02109-3912

Re: **Submittal of Notice of Intent for Coverage Under the Remediation General Permit**
Construction Dewatering
46 Mallard Cove
Cheshire, Massachusetts

Dear Ms. Little:

On behalf of Massachusetts Electric Company (MEC) dba National Grid (Owner) and Clean Harbors Environmental Services (Operator), Tighe & Bond is submitting this Notice of Intent (NOI) for coverage under the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) for discharge of treated groundwater from construction activities at 46 Mallard Cove in Cheshire, Massachusetts (the Site). Dewatering activities are necessary to facilitate excavation of contaminated soils at the Site. It is anticipated that dewatering activities at the Site will occur in May 2022 and will take less than one week.

Dewatered groundwater from within excavation areas is proposed to be treated on-Site and will be discharged directly to the Cheshire Reservoir, North Basin. Permission will be obtained from the Town of Cheshire prior to discharging into the Cheshire Reservoir. The RGP NOI Fillable Form is included as Attachment A, with Site Figures in Attachment B.

Owner and Operator

The Site owner and Site operator will be co-permittees for this NPDES RGP application.

Owner
Massachusetts Electric Company
d/b/a National Grid
Joanne Lupa
939 Southbridge Street
Worcester, MA 01610

Operator
Clean Harbors Environmental Services
Eric Nelson
1195 Montgomery Street
Chicopee, MA 01075

Project Description

Excavation of contaminated soil was conducted at the Site in response to detections of pentachlorophenol (PCP) above reportable concentrations in soil and groundwater. Due to the high transmissivity of the site soils and lack of physical space for tanks of groundwater and equipment, remedial objectives could not be reached. Dewatering of the excavation will be required to facilitate the removal of PCP-contaminated soil below the groundwater table. Additionally, dewatering will also aid in the decrease of PCP concentrations in groundwater at the Site.

Site Regulatory Background

On September 17, 2020, a utility pole (UP No. 7-1) was replaced in the vicinity of the 46 Mallard Cove, Cheshire residence. Subsequently, drinking water at the Site exhibited a

chemical odor (PCP), similar to the utility pole. A drinking water sample was collected directly from the shallow potable well at the property on November 18, 2020. Analytical results indicated that PCP was detected at 9,330 micrograms per liter (ug/L), exceeding the RCGW-1 value of 1 ug/L.

MassDEP was notified of the RCGW-1 exceedance on December 4, 2020 by Ms. Wood. On December 14, 2020, MassDEP issued a Notice of Responsibility (NOR) to MEC and assigned Release Tracking Number (RTN) 1-21226. The approved Immediate Response Actions (IRA) consisted of continuing operation of the point of entry treatment (POET) system, excavation of up to 50 cubic yards of soil from around the pole, extraction of impacted groundwater, and additional assessment to determine the extent of contamination. The pressure-treated pole was also replaced with a fiberglass utility pole on December 22, 2020.

IRAs conducted at the Site to date have included, the installation of a POET system, excavation of contaminated soil, installation of groundwater monitoring wells, extraction of contaminated groundwater and collection of soil, groundwater and drinking water samples.

Receiving Water Information

Treated groundwater will be discharged directly to the Cheshire Reservoir, North Basin. The Cheshire Reservoir, North Basin is identified as Segment ID MA11002, is classified as Class B and is listed as a Category 5 in the Massachusetts Year 2016 Integrated List of Waters. The reservoir is not a drinking water source.

A surface water sample (SW-2) was collected from the Cheshire Reservoir, North Basin on January 13, 2022. The surface water sample was submitted to Pace Analytical of East Longmeadow, Massachusetts for ammonia, hardness, and RGP metals analyses. Temperature and pH were also recorded in the field at the time of sample collection. Surface water analytical data is summarized in Table 2 of Attachment C, with a complete copy of the laboratory report included in Attachment G.

As outlined in *Appendix V: Dilution Factor and Effluent Limitation Calculations for Massachusetts* of the NPDES RGP, a dilution factor was calculated and approved for usage by the MassDEP. The dilution factor was calculated using the United States Geological Survey (USGS) StreamStats 7Q10 (low-flow statistics) value for the Cheshire Reservoir, North Basin, and the proposed discharge rate of up to 100-gallons per minute (GPM). The applicable dilution factor is 7.2. Supporting documentation, including the MassDEP confirmation, dated March 11, 2022 is included in Attachment D.

Source Water Information

Source water for discharging will be dewatered and treated groundwater encountered during excavation activities. Groundwater characterization samples were collected from a groundwater monitoring well "Sump" on January 13, 2022. The groundwater monitoring well "sump" was selected for sampling based on its location in the source area and known worst-case conditions for groundwater treatment requirements, as shown on Figure 2 in Attachment B.

The groundwater sample was collected and submitted to Con-Test for laboratory analysis of RGP parameters. Laboratory analytical results are summarized in Table 1 of Attachment C, with a complete copy of the laboratory analytical report in Attachment G. Historical groundwater analytical data collected by Tighe & Bond is summarized in Table 3 in Attachment C for reference.

Laboratory analytical results are compared with the RGP Technology Based Effluent Limitations (TBELs) and have been entered into the NOI Water Quality Based Effluent Limitation (WQBEL) excel spreadsheet for calculation. TBELs and WQBELs are presented on Table 1 in Attachment C.

Potential Contaminants of Concern in Source Water

Based on previous releases identified at the Site, and the RGP groundwater sampling program conducted in January 2022, the following parameters have been identified as Site groundwater contaminants of concern (COCs): Total suspended solids, antimony, iron, lead, acetone and pentachlorophenol.

Although some of the laboratory analytical results do not meet the requirements set in Table 1 (Parameters, Required Minimum Levels (MLs), and Common Test Methods), it is the opinion of Tighe & Bond that data collected meets the Existing Data Substitution, as specified in the RGP Part 4, Section 5. COCs with reporting limits above the applicable effluent limits are total residual chlorine, polychlorinated biphenyls (PCBs) and total petroleum hydrocarbons (TPH); Tighe & Bond would like to elect imposing numeric limits in the authorization for these parameters.

Discharge Information

Dewatered groundwater will be pumped from on-Site excavations into a treatment system as detailed below. Following treatment, effluent will be discharged directly into the Cheshire Reservoir. Prior to commencing the discharge, permission will be obtained from the Town of Cheshire.

Treatment System

The proposed treatment system will operate at a maximum flow of 100 GPM and consist of the treatment trains in the following order; one 8,400 gallon open-top fractionation tank with an over weir, dual bag filter system with 25µm and 5 or 1 µm bag filters, two granulated activated carbon media vessels and a second 8,400 gallon open-top fractionation tank. Water from the excavation will be pumped via dewatering sumps into the first fractionation tank. The treatment system Process Flow Diagram is included as Figure 4 in Attachment B.

Best Management Practices Plan

Clean Harbors Environmental, as the system operator, will develop a Best Management Practices Plan (BMPP) for the groundwater extraction and treatment system for this Site. The BMPP will be developed in accordance with the RGP and will be implemented upon initiation of discharge.

Endangered Species Act Eligibility

Review of the Massachusetts Geographic Information Systems (MassGIS) Priority Resource Map, Figure 2 of Attachment B, shows the Site is not within an Area of Critical Environmental Concern (ACEC). A Natural Heritage and Endangered Species Program (NHESP) Potential Vernal Pool is located to the south west; no other NHESP resources are located within ½ mile of the Site.

According to the United States Fish & Wildlife Services (USFWS) Information, Planning and Conservation (IPaC) tool, the following species exist within the geographic extent of the activity area; Northern Long-eared Bat (Threatened) and Monarch Butterfly (candidate). Based on this information, and the construction activities involving below grade excavations, the Site qualifies for Criterion A: No endangered or threatened species or critical habitat are in proximity to the discharge or related activities or come in contact with the "action area."

A Copy of the USFWS IPaC consultation letter is included in Attachment E.

National Marine Fisheries Services Review

Tighe & Bond has completed a review of federally threatened or endangered listed species and critical habitat under the jurisdiction of the National Marine Fisheries Services (NMFS). There are no threatened or endangered species or critical habitat within the geographical extent of the activity area. Based on this information, Tighe & Bond affirms the determination made by EPA that the proposed discharges and discharge-related activities are not likely to adversely affect any federally threatened or endangered species under NMFS jurisdiction.

A copy of the Essential Fish Habitat (EFH) mapper for the action area is provided in Appendix E.

National Historic Preservation Act Eligibility Determination

An electronic review of the Massachusetts Cultural Resource Information System database (Attachment F), made available through the Massachusetts Cultural Resource Information System (MACRIS) shows there are no historic properties located at the Site. In addition, according to the National Register of Historic Places, the Farnams Village Historic District is located in the vicinity of the Site but is located upstream of it. A screen shot of the historic mapping is provided in Appendix F. It is the opinion of Tighe & Bond that discharges and discharge-related activities will not affect historic properties as any nearby historic properties are located upstream from the discharge location. Therefore, permit eligibility meets "Criterion A."

Conclusion

The proposed treatment system has been designed to reduce the levels of associated COCs to below the applicable effluent limitations. Treated effluent will be sampled at startup and in accordance with permit requirements and submitted for analyses specified in the authorization letter. Additionally, the flowrate, pH and turbidity levels will be monitored in the field and recorded in accordance with RGP requirements.

If you need any additional information or assistance on this submittal, please do not hesitate to contact Amanda Cantara at acantara@tighebond.com.

Very truly yours,

TIGHE & BOND, INC.

Amanda P. Cantara
Project Manager

Jeffrey L. Arps, LSP
Vice President

Enclosures

Attachment A: Notice of Intent Fillable Form
Attachment B: Figures
- Figure 1: Site Plan
- Figure 2: Priority Resource Map
- Figure 3: Process Flow Diagram

Attachment C: Tables
- Table 1: Source Water Analytical Results
- Table 2: Receiving Water Analytical Results
- Table 3: Historic Analytical Results

Attachment D: StreamStats Report and Dilution Factor Approval
Attachment E: Endangered Species Act and Essential Fish Supporting Documents
Attachment F: National Historic Preservation Act Supporting Documents
Attachment G: Laboratory Analytical Reports

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Tighe&Bond

ATTACHMENT A

II. Suggested Format for the Remediation General Permit Notice of Intent (NOI)

A. General site information:

<table>
<tr><td rowspan="4">1. Name of site:
46 Mallard Cove</td><td colspan="3">Site address: 46 Mallard Cove
Street:</td></tr>
<tr><td>City: Cheshire</td><td>State: MA</td><td>Zip: 01225</td></tr>
<tr><td rowspan="4">2. Site owner
Massachusetts Electric Company dba National Grid

Owner is (check one): ☐ Federal ☐ State/Tribal ☐ Private
■ Other; if so, specify: Public Utility</td><td colspan="3">Contact Person: Joanne Lupa</td></tr>
<tr><td colspan="2">Telephone: 508-860-6484</td><td>Email: joanne.lupa@nationalgrid.com</td></tr>
<tr><td colspan="3">Mailing address: 939 Southbridge Street
Street:</td></tr>
<tr><td>City: Worcester</td><td>State: MA</td><td>Zip: 01610</td></tr>
<tr><td rowspan="4">3. Site operator, if different than owner
Clean Harbors Environmental Services</td><td colspan="3">Contact Person: Eric Nelson</td></tr>
<tr><td colspan="2">Telephone: 4132336537</td><td>Email: nelson.eric@cleanharbors.com</td></tr>
<tr><td colspan="3">Mailing address:
Street: 1195 Montgomery Street</td></tr>
<tr><td>City: Chicopee</td><td>State: MA</td><td>Zip: 01075</td></tr>
<tr><td>4. NPDES permit number assigned by EPA:

NPDES permit is (check all that apply: ☐ RGP ☐ DGP ☐ CGP
☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:</td><td colspan="3">5. Other regulatory program(s) that apply to the site (check all that apply):
■ MA Chapter 21e; list RTN(s): 1-21226
☐ NH Groundwater Management Permit or Groundwater Release Detection Permit:
☐ CERCLA
☐ UIC Program
☐ POTW Pretreatment
☐ CWA Section 404</td></tr>
</table>

B. Receiving water information:

1. Name of receiving water(s):	Waterbody identification of receiving water(s):	Classification of receiving water(s):
Cheshire Reservoir, North Basin	MA11002	B

Receiving water is (check any that apply): ☐ Outstanding Resource Water ☐ Ocean Sanctuary ☐ territorial sea ☐ Wild and Scenic River

2. Has the operator attached a location map in accordance with the instructions in B, above? (check one): ■ Yes ☐ No

Are sensitive receptors present near the site? (check one): ■ Yes ☐ No
If yes, specify: Wetland resources areas along Cheshire Reservoir

3. Indicate if the receiving water(s) is listed in the State's Integrated List of Waters (i.e., CWA Section 303(d)). Include which designated uses are impaired, and any pollutants indicated. Also, indicate if a final TMDL is available for any of the indicated pollutants. For more information, contact the appropriate State as noted in Part 4.6 of the RGP. (Eurasian Water Milfoil, Myriophyllum Spicatum*) (Non-Native Aquatic Plants*) Nutrient/Eutrophication Biological Indicators, TMDL not available

4. Indicate the seven day-ten-year low flow (7Q10) of the receiving water determined in accordance with the instructions in Appendix V for sites located in Massachusetts and Appendix VI for sites located in New Hampshire.	1.38 cfs
5. Indicate the requested dilution factor for the calculation of water quality-based effluent limitations (WQBELs) determined in accordance with the instructions in Appendix V for sites in Massachusetts and Appendix VI for sites in New Hampshire.	7.2

6. Has the operator received confirmation from the appropriate State for the 7Q10and dilution factor indicated? (check one): ■ Yes ☐ No
If yes, indicate date confirmation received: February 17, 2022 see Attachment D

7. Has the operator attached a summary of receiving water sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ■ Yes ☐ No

C. Source water information:

1. Source water(s) is (check any that apply):

■ Contaminated groundwater Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ■ Yes ☐ No	☐ Contaminated surface water Has the operator attached a summary of influent sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix VIII? (check one): ☐ Yes ☐ No	☐ The receiving water ☐ A surface water other than the receiving water; if so, indicate waterbody:	☐ Potable water; if so, indicate municipality or origin: ☐ Other; if so, specify:

2. Source water contaminants: Total suspended solids, antimony, iron, lead, acetone and pentachlorophenol	
a. For source waters that are contaminated groundwater or contaminated surface water, indicate are any contaminants present that are not included in the RGP? (check one): ☐ Yes ■ No If yes, indicate the contaminant(s) and the maximum concentration present in accordance with the instructions in Appendix VIII.	b. For a source water that is a surface water other than the receiving water, potable water or other, indicate any contaminants present at the maximum concentration in accordance with the instructions in Appendix VIII? (check one): ☐ Yes ☐ No
3. Has the source water been previously chlorinated or otherwise contains residual chlorine? (check one): ☐ Yes ■ No	

D. Discharge information

1.The discharge(s) is a(n) (check any that apply): ☐ Existing discharge ■ New discharge ☐ New source	
Outfall(s):	Outfall location(s): (Latitude, Longitude)
Discharges enter the receiving water(s) via (check any that apply): ■ Direct discharge to the receiving water ☐ Indirect discharge, if so, specify: ☐ A private storm sewer system ☐ A municipal storm sewer system If the discharge enters the receiving water via a private or municipal storm sewer system: Has notification been provided to the owner of this system? (check one): ☐ Yes ■ No Has the operator has received permission from the owner to use such system for discharges? (check one): ☐ Yes ☐ No, if so, explain, with an estimated timeframe for obtaining permission: Has the operator attached a summary of any additional requirements the owner of this system has specified? (check one): ☐ Yes ☐ No	
Provide the expected start and end dates of discharge(s) (month/year): April 2022 - May 2022 Indicate if the discharge is expected to occur over a duration of: ■ less than 12 months ☐ 12 months or more ☐ is an emergency discharge	
Has the operator attached a site plan in accordance with the instructions in D, above? (check one): ■ Yes ☐ No	

<table>
<tr><td>2. Activity Category: (check all that apply)</td><td colspan="2">3. Contamination Type Category: (check all that apply)</td></tr>
<tr><td rowspan="4">☐ I – Petroleum-Related Site Remediation
☐ II – Non-Petroleum-Related Site Remediation
■ III – Contaminated Site Dewatering
☐ IV – Dewatering of Pipelines and Tanks
☐ V – Aquifer Pump Testing
☐ VI – Well Development/Rehabilitation
☐ VII – Collection Structure Dewatering/Remediation
☐ VIII – Dredge-Related Dewatering</td><td colspan="2">a. If Activity Category I or II: (check all that apply)

☐ A. Inorganics
☐ B. Non-Halogenated Volatile Organic Compounds
☐ C. Halogenated Volatile Organic Compounds
☐ D. Non-Halogenated Semi-Volatile Organic Compounds
☐ E. Halogenated Semi-Volatile Organic Compounds
☐ F. Fuels Parameters</td></tr>
<tr><td colspan="2">b. If Activity Category III, IV, V, VI, VII or VIII: (check either G or H)</td></tr>
<tr><td>■ G. Sites with Known Contamination</td><td>☐ H. Sites with Unknown Contamination</td></tr>
<tr><td>c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply)

■ A. Inorganics
■ B. Non-Halogenated Volatile Organic Compounds
☐ C. Halogenated Volatile Organic Compounds
■ D. Non-Halogenated Semi-Volatile Organic Compounds
■ E. Halogenated Semi-Volatile Organic Compounds
■ F. Fuels Parameters</td><td>d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply</td></tr>
</table>

4. Influent and Effluent Characteristics

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
A. Inorganics									
Ammonia		✔	1	350.1	0.10 mg/L	0.18 mg/L	0.18 mg/L	Report mg/L	---
Chloride		✔	1	300.0	100	48000	48000	Report µg/l	---
Total Residual Chlorine	✔		1	SM 21-23	200	<200	200	0.2 mg/L	79
Total Suspended Solids		✔	1	SM21-23	5.0 mg/L	220 mg/L	220 mg/L	30 mg/L	---
Antimony		✔	1	200.8	1000	1100	1100	206 µg/L	4596
Arsenic	✔		1	200.7	10	<10	0	104 µg/L	72
Cadmium	✔		1	200.7	4	<4	0	10.2 µg/L	2.2784
Chromium III		✔	1	Tri	10	22	22	323 µg/L	737.8
Chromium VI	✔		1	SM21-23	4	<4	4	323 µg/L	82.1
Copper		✔	1	200.7	10	69	69	242 µg/L	80.5
Iron		✔	1	200.7	50	49000	49000	5,000 µg/L	6717
Lead		✔	1	200.7	10	39	39	160 µg/L	30.03
Mercury	✔		1	245.1	0.1	<0.1	0	0.739 µg/L	6.5
Nickel		✔	1	200.7	10	72	72	1,450 µg/L	449.2
Selenium	✔		1	200.7	50	<50	50	235.8 µg/L	35.9
Silver	✔		1	200.7	10	<10	0	35.1 µg/L	39.3
Zinc		✔	1	200.7	10	180	180	420 µg/L	1032
Cyanide	✔		1	121,4500C	0.001	<0.001	0	178 mg/L	37.3
B. Non-Halogenated VOCs									
Total BTEX	✔		1	624.1	6.00	<6.00	6.00	100 µg/L	---
Benzene	✔		1	624.1	0.260	<0.260	0	5.0 µg/L	---
1,4 Dioxane	✔		1	624.1	43.0	<43.0	43.0	200 µg/L	---
Acetone		✔	1	624.1	4.70	9.02	9.02	7.97 mg/L	---
Phenol		✔	1	420.1	50	200	200	1,080 µg/L	2154

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride	✔		1	624.1	0.340	<0.340	0	4.4 µg/L	11.5
1,2 Dichlorobenzene	✔		1	624.1	0.200	<0.200	0	600 µg/L	---
1,3 Dichlorobenzene	✔		1	624.1	0.180	<0.180	0	320 µg/L	---
1,4 Dichlorobenzene	✔		1	624.1	0.220	<0.220	0	5.0 µg/L	---
Total dichlorobenzene	✔		1	624.1	0.220	<0.220	0	763 µg/L in NH	---
1,1 Dichloroethane			1	624.1	0.320	<0.320	0	70 µg/L	---
1,2 Dichloroethane	✔		1	624.1	0.640	<0.640	0	5.0 µg/L	---
1,1 Dichloroethylene	✔		1	624.1	0.320	<0.320	0	3.2 µg/L	---
Ethylene Dibromide	✔		1	504.1	0.020	<0.020	0.020	0.05 µg/L	---
Methylene Chloride	✔		1	624.1	0.600	<0.600	0	4.6 µg/L	---
1,1,1 Trichloroethane	✔		1	624.1	0.340	<0.340	0	200 µg/L	---
1,1,2 Trichloroethane	✔		1	624.1	0.300	<0.300	0	5.0 µg/L	---
Trichloroethylene	✔		1	624.1	0.360	<0.360	0	5.0 µg/L	---
Tetrachloroethylene	✔		1	624.1	0.400	<0.400	0	5.0 µg/L	23.7
cis-1,2 Dichloroethylene	✔		1	624.1	0.300	<0.300	0	70 µg/L	---
Vinyl Chloride	✔		1	624.1	0.400	<0.400	0	2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates			1	625.1	5.60	<5.60	5.60	190 µg/L	---
Diethylhexyl phthalate	✔		1	625.1	0.924	<0.924	0	101 µg/L	15.8
Total Group I PAHs	✔		1	625.1 SIM	0.1	<0.1	0	1.0 µg/L	---
Benzo(a)anthracene			1	625.1 SIM	0.1	<0.1	0	As Total PAHs	0.0273
Benzo(a)pyrene				625.1 SIM	0.1	<0.1	0		0.0273
Benzo(b)fluoranthene				625.1 SIM	0.1	<0.1	0		0.0273
Benzo(k)fluoranthene				625.1 SIM	0.1	<0.1	0		0.0273
Chrysene				625.1 SIM	0.1	<0.1	0		0.0273
Dibenzo(a,h)anthracene				625.1 SIM	0.1	<0.1	0		0.0273
Indeno(1,2,3-cd)pyrene				625.1 SIM	0.1	<0.1	0		0.0273

Parameter	Known or believed absent	Known or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
						Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
Total Group II PAHs		✔	1	625.1	0.64	2.99	2.99	100 µg/L	---
Naphthalene		✔	1	625.1	0.296	2.99	2.99	20 µg/L	---
E. Halogenated SVOCs									
Total PCBs	✔		1	608.3	0.183	<0.183	0	0.000064 µg/L	---
Pentachlorophenol		✔	1	625.1	374	6340	6340	1.0 µg/L	---
F. Fuels Parameters									
Total Petroleum Hydrocarbons		✔	1	1664B	14	<14	14	5.0 mg/L	---
Ethanol	✔		1	624.1	0.0684	<0.0684	0.0684	Report mg/L	---
Methyl-tert-Butyl Ether	✔		1	624.1	0.340	<0.340	0.340	70 µg/L	144
tert-Butyl Alcohol	✔		1	624.1	10.7	<10.7	10.7	120 µg/L in MA 40 µg/L in NH	---
tert-Amyl Methyl Ether	✔		1	624.1	<0.300	<0.300	0	90 µg/L in MA 140 µg/L in NH	---
Other (i.e., pH, temperature, hardness, salinity, LC_{50}, additional pollutants present); if so, specify:									
pH			1	Field			6.95		
Temperature (C)			1	Field			5.6		
Hardness			1	200.7	1.4	340	340		

E. Treatment system information

1. Indicate the type(s) of treatment that will be applied to effluent prior to discharge: (check all that apply)

☐ Adsorption/Absorption ☐ Advanced Oxidation Processes ☐ Air Stripping ■ Granulated Activated Carbon ("GAC")/Liquid Phase Carbon Adsorption
☐ Ion Exchange ☐ Precipitation/Coagulation/Flocculation ■ Separation/Filtration ☐ Other; if so, specify:

2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge.

Influent will be pumped from excavation into fractionation tank with an over weir. Influent will then flow into a dual bag filter system with 20um and 5 or 1 um bag filters. Influent will then flow into two (in series) 1,000 HPV media vessels with granulated activated carbon (GAC). Effluent will then be stored in a fractionation tank prior to being discharged directly to the Cheshire Reservoir.

Identify each major treatment component (check any that apply):

■ Fractionation tanks☐ Equalization tank ☐ Oil/water separator ☐ Mechanical filter ☐ Media filter
☐ Chemical feed tank ☐ Air stripping unit ■ Bag filter ■ Other; if so, specify: two GAC media vessels

Indicate if either of the following will occur (check any that apply):

☐ Chlorination ☐ De-chlorination

3. Provide the **design flow capacity** in gallons per minute (gpm) of the most limiting component. Indicate the most limiting component: The most limiting component is the GAC media vessels to allow adequate contact time. Is use of a flow meter feasible? (check one): ■ Yes ☐ No, if so, provide justification:	100
Provide the proposed maximum effluent flow in gpm.	100
Provide the average effluent flow in gpm.	100
If Activity Category IV applies, indicate the estimated total volume of water that will be discharged:	

4. Has the operator attached a schematic of flow in accordance with the instructions in E, above? (check one): ■ Yes ☐ No

F. Chemical and additive information

1. Indicate the type(s) of chemical or additive that will be applied to effluent prior to discharge or that may otherwise be present in the discharge(s): (check all that apply)

☐ Algaecides/biocides ☐ Antifoams ☐ Coagulants ☐ Corrosion/scale inhibitors ☐ Disinfectants ☐ Flocculants ☐ Neutralizing agents ☐ Oxidants ☐ Oxygen ☐ scavengers ☐ pH conditioners ☐ Bioremedial agents, including microbes ☐ Chlorine or chemicals containing chlorine ☐ Other; if so, specify:
NA

2. Provide the following information for each chemical/additive, using attachments, if necessary:
NA
a. Product name, chemical formula, and manufacturer of the chemical/additive;
b. Purpose or use of the chemical/additive or remedial agent;
c. Material Safety Data Sheet (MSDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive;
d. The frequency (hourly, daily, etc.), duration (hours, days), quantity (maximum and average), and method of application for the chemical/additive;
e. Any material compatibility risks for storage and/or use including the control measures used to minimize such risks; and
f. If available, the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).

3. Has the operator attached an explanation which demonstrates that the addition of such chemicals/additives may be authorized under this general permit in accordance with the instructions in F, above? (check one): ☐ Yes ☐ No; if no, has the operator attached data that demonstrates each of the 126 priority pollutants in CWA Section 307(a) and 40 CFR Part 423.15(j)(1) are non-detect in discharges with the addition of the proposed chemical/additive?
(check one): ☐ Yes ☐ No

G. Endangered Species Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

■ **FWS Criterion A**: No endangered or threatened species or critical habitat are in proximity to the discharges or related activities or come in contact with the "action area".

☐ **FWS Criterion B**: Formal or informal consultation with the FWS under section 7 of the ESA resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by FWS on a finding that the discharges and related activities are "not likely to adversely affect" listed species or critical habitat (informal consultation). Has the operator completed consultation with FWS? (check one): ☐ Yes ☐ No; if no, is consultation underway? (check one): ☐ Yes ☐ No

☐ **FWS Criterion C**: Using the best scientific and commercial data available, the effect of the discharges and related activities on listed species and critical habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the operator and affirmed by EPA, that the discharges and related activities will have "no effect" on any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of the FWS. This determination was made by: (check one) ☐ the operator ☐ EPA ☐ Other; if so, specify:

■ **NMFS Criterion**: A determination made by EPA is affirmed by the operator that the discharges and related activities will have "no effect" or are "not likely to adversely affect" any federally threatened or endangered listed species or critical habitat under the jurisdiction of NMFS and will not result in any take of listed species. Has the operator previously completed consultation with NMFS? (check one): ■ Yes ☐ No

2. Has the operator attached supporting documentation of ESA eligibility in accordance with the instructions in Appendix I, and G, above? (check one): ■ Yes ☐ No

Does the supporting documentation include any written concurrence or finding provided by the Services? (check one): ☐ Yes ■ No; if yes, attach.

H. National Historic Preservation Act eligibility determination

1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:

■ **Criterion A**: No historic properties are present. The discharges and discharge-related activities (e.g., BMPs) do not have the potential to cause effects on historic properties.

☐ **Criterion B**: Historic properties are present. Discharges and discharge related activities do not have the potential to cause effects on historic properties.

☐ **Criterion C**: Historic properties are present. The discharges and discharge-related activities have the potential to have an effect or will have an adverse effect on historic properties.

2. Has the operator attached supporting documentation of NHPA eligibility in accordance with the instructions in H, above? (check one): ■ Yes ☐ No

Does the supporting documentation include any written agreement with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (TPHO), or other tribal representative that outlines measures the operator will carry out to mitigate or prevent any adverse effects on historic properties? (check one): ☐ Yes ■ No

I. Supplemental information

Describe any supplemental information being provided with the NOI. Include attachments if required or otherwise necessary.

Cover letter and attachments included.

Has the operator attached data, including any laboratory case narrative and chain of custody used to support the application? (check one): ■ Yes ☐ No

Has the operator attached the certification requirement for the Best Management Practices Plan (BMPP)? (check one): ■ Yes ☐ No

J. Certification requirement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

BMPP certification statement:	Massachusetts Electric Company will ensure that the system operator will develop a Best Management Practices Plan (BMPP) in accordance with the RGP and will be implemented upon initiation of discharge
Notification provided to the appropriate State, including a copy of this NOI, if required.	Check one: Yes ■ No ☐
Notification provided to the municipality in which the discharge is located, including a copy of this NOI, if requested.	Check one: Yes ■ No ☐
Notification provided to the owner of a private or municipal storm sewer system, if such system is used for site discharges, including a copy of this NOI, if requested.	Check one: Yes ☐ No ☐ NA ■
Permission obtained from the owner of a private or municipal storm sewer system, if such system is used for site discharges. If yes, attach additional conditions. If no, attach explanation and timeframe for obtaining permission.	Check one: Yes ☐ No ☐ NA ■
Notification provided to the owner/operator of the area associated with activities covered by an additional discharge permit(s). Additional discharge permit is (check one): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:	Check one: Yes ☐ No ☐ NA ■
Signature: Joanne Lupa	Date: 03/21/22
Print Name and Title: Joanne Lupa, Principal Environmental Scientist	

J. Certification requirement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

BMPP certification statement: Clean Harbors Environmental Services as the system operator will develop a Best Management Practices Plan (BMPP) in accordance with the RGP and will be implemented upon initiation of discharge.	
Notification provided to the appropriate State, including a copy of this NOI, if required.	Check one: Yes ■ No ☐
Notification provided to the municipality in which the discharge is located, including a copy of this NOI, if requested.	Check one: Yes ■ No ☐
Notification provided to the owner of a private or municipal storm sewer system, if such system is used for site discharges, including a copy of this NOI, if requested.	Check one: Yes ☐ No ☐ NA ■
Permission obtained from the owner of a private or municipal storm sewer system, if such system is used for site discharges. If yes, attach additional conditions. If no, attach explanation and timeframe for obtaining permission.	Check one: Yes ☐ No ☐ NA ■
Notification provided to the owner/operator of the area associated with activities covered by an additional discharge permit(s). Additional discharge permit is (check one): ☐ RGP ☐ DGP ☐ CGP ☐ MSGP ☐ Individual NPDES permit ☐ Other; if so, specify:	Check one: Yes ☐ No ☐ NA ■
Signature: Eric D Nelson	Date: 3/21/22
Print Name and Title: Eric Nelson	

Tighe&Bond

ATTAC M NT

File Location: V:\Projects\N\N5067\46MallardCove_CheshireMA\APRX\46MallardCove_CheshireMA_SitePlan\46MallardCove_CheshireMA_SitePlan.aprx
Date Saved: 2/15/2022 11:38 AM

N

1:300

0 10 20
Feet

GROUNDWATER MANAGEMENT PLAN

Site Plan

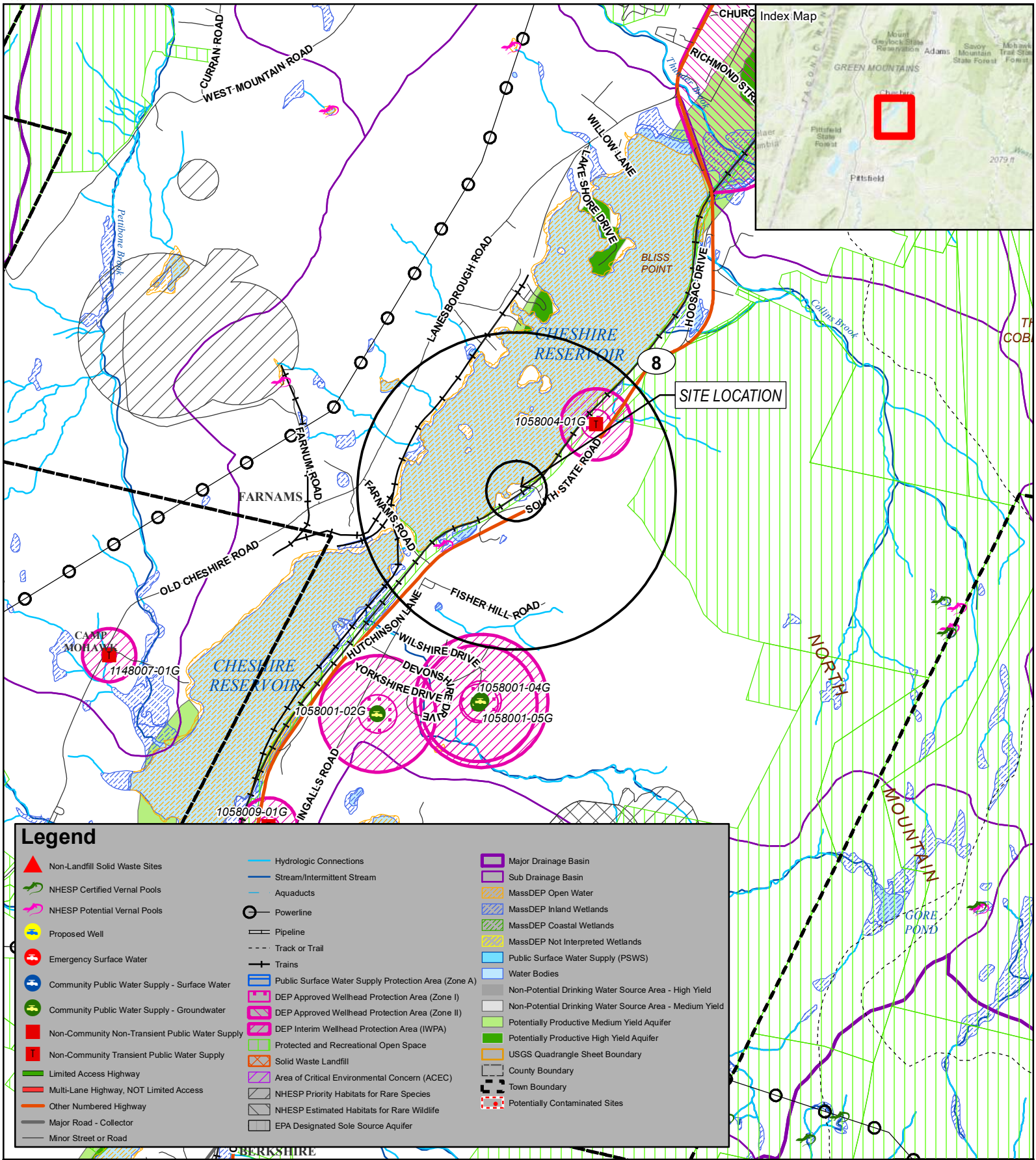
46 Mallard Cove, Cheshire, MA
Figure 1

Based on MassGIS Color Orthophotography (2021).

Treatment System, Sumps, and Discharge Direction drawn in from georeferenced plans and are approximate.

nationalgrid
Tighe&Bond

File Location: V:\Projects\N\N5067\46MallardCove_CheshireMA\46MallardCove_CheshireMA_NGrid_Resource.mxd
Date Saved: 1/25/2021 9:20:24 AM



Legend

- Non-Landfill Solid Waste Sites
- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- Proposed Well
- Emergency Surface Water
- Community Public Water Supply - Surface Water
- Community Public Water Supply - Groundwater
- Non-Community Non-Transient Public Water Supply
- Non-Community Transient Public Water Supply
- Limited Access Highway
- Multi-Lane Highway, NOT Limited Access
- Other Numbered Highway
- Major Road - Collector
- Minor Street or Road
- Hydrologic Connections
- Stream/Intermittent Stream
- Aquaducts
- Powerline
- Pipeline
- Track or Trail
- Trains
- Public Surface Water Supply Protection Area (Zone A)
- DEP Approved Wellhead Protection Area (Zone I)
- DEP Approved Wellhead Protection Area (Zone II)
- DEP Interim Wellhead Protection Area (IWPA)
- Protected and Recreational Open Space
- Solid Waste Landfill
- Area of Critical Environmental Concern (ACEC)
- NHESP Priority Habitats for Rare Species
- NHESP Estimated Habitats for Rare Wildlife
- EPA Designated Sole Source Aquifer
- Major Drainage Basin
- Sub Drainage Basin
- MassDEP Open Water
- MassDEP Inland Wetlands
- MassDEP Coastal Wetlands
- MassDEP Not Interpreted Wetlands
- Public Surface Water Supply (PSWS)
- Water Bodies
- Non-Potential Drinking Water Source Area - High Yield
- Non-Potential Drinking Water Source Area - Medium Yield
- Potentially Productive Medium Yield Aquifer
- Potentially Productive High Yield Aquifer
- USGS Quadrangle Sheet Boundary
- County Boundary
- Town Boundary
- Potentially Contaminated Sites

N

1 inch = 2,000 feet

0 1,000 2,000
Feet

PENTACHLOROPHENOL RELEASE

Priority Resources

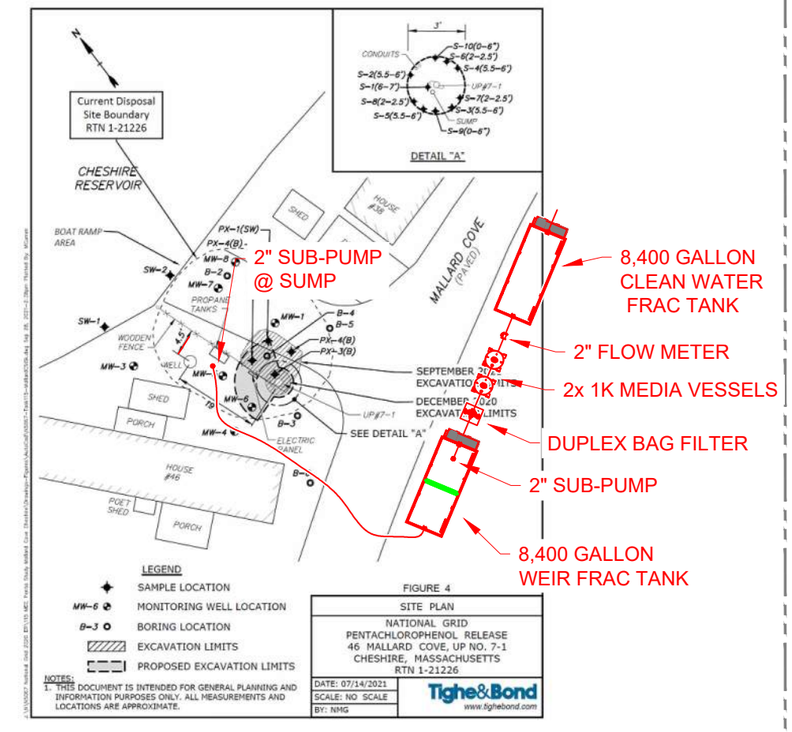
46 Mallard Cove, UP No. 7-1
Cheshire, Massachusetts
RTN 1-21226
Figure 2

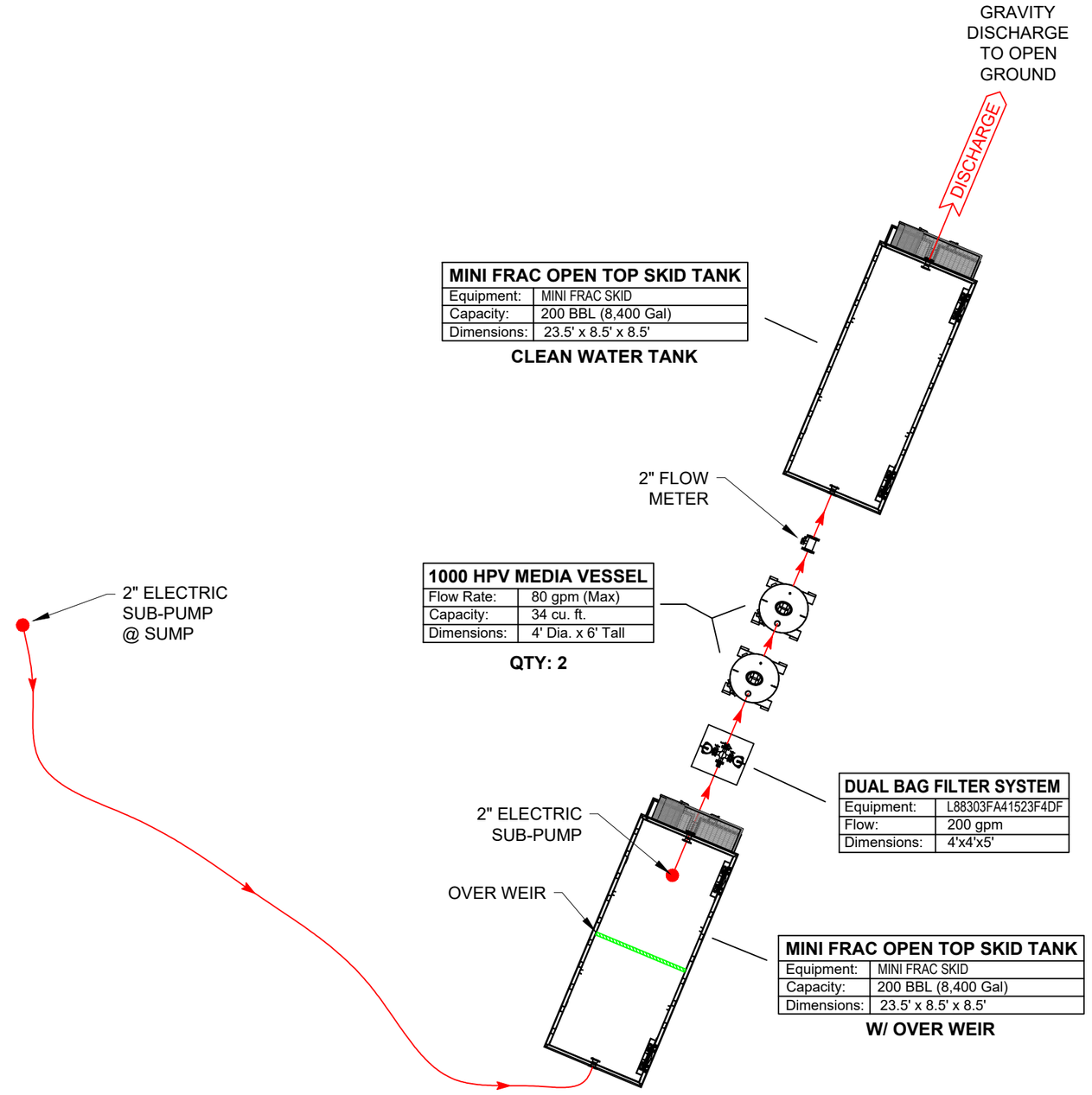
Data source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology
Circles indicate 500-foot and half-mile radii.
Data valid as of January 2021.

nationalgrid
Tighe&Bond

CONFIDENTIAL

PROPRIETARY





SHEET SIZE: B 11" x 17"	MATERIAL: / FINISH:	United Rentals Fluid Solutions	7B OAK BRANCH DRIVE GREENSBORO, NC 27404		
TITLE: NATIONAL GRID 46 MALLARD COVE - CHESHIRE, MA PROCESS FLOW DIAGRAM					
CUSTOMER: CLEAN HARBORS				BRANCH: BOS	
DWG BY: M. BROOKS	DATE: 11-17-21	SCALE: -	SHEET: 1	OF: 1	
CKD BY: M. HART	DATE: 11-17-21	DWG No: SKF7050	REV: -		

Tighe&Bond

ATTACHMENT C

TABLE 1
Source Water Analytical Results
National Grid
Mallard Cove
Cheshire, Massachusetts

			Sample ID Sample Date	Test Method	TBEL	WQBEL	Sump 1/13/2022
Field Measurement							
pH				-	6.5-8.3	---	6.95
Temperature (°C)				-	---	---	5.6
Inorganics			Ammonia (mg/L)	EPA 350.1	**Report**	---	**0.18**
			Chloride (mg/L)	EPA 300.0	**Report**	---	**48**
			Total Residual Chlorine (TRC) (µg/L)	SM21-23 4500 CL G	200	**79**	**<200**
			Total Suspended Solids (TSS) (mg/L)	SM21-23 2540D	**30**	---	**220**
	Metals		Antimony (µg/L)	EPA 200.7	**206**	4,596	<50
				EPA 200.8	**206**	4,596	**1,100**
			Arsenic (µg/L)	EPA 200.7	**104**	72	<10
			Cadmium (µg/L)	EPA 200.7	**10.2**	2.2784	<4
			Chromium III (µg/L)	Chrome Calc. via EPA 200	**323**	737.8	22
			Chromium VI (µg/L)	SM21-23 3500 Cr B	**323**	82.1	<4
			Copper (µg/L)	EPA 200.7	**242**	80.5	69
			Iron (µg/L)	EPA 200.7	**5,000**	6,717	**49,000**
			Lead (µg/L)	EPA 200.7	160	**30.03**	**39**
			Mercury (µg/L)	EPA 245.1	**0.739**	6.5	<0.1
			Nickel (µg/L)	EPA 200.7	**1450**	449.2	72
			Selenium (µg/L)	EPA 200.7	**235.8**	35.9	<50
			Silver (µg/L)	EPA 200.7	**35.1**	39.3	<10
			Zinc (µg/L)	EPA 200.7	**420**	1032	180
			Cyanide (mg/L)	121,4500CN-CE	**178**	37.3	<0.001
Non-Halogenated VOCs	BTEX		Total BTEX (µg/L)	624.1	**100**	---	6.00
			Benzene (µg/L)	624.1	**5.0**	---	<0.260
			Toluene (µg/L)	624.1	---	---	<0.220
			Ethylbenzene (µg/L)	624.1	---	---	<0.180
			Total Xylenes (µg/L)	624.1	---	---	<6.00
			1,4 Dioxane (µg/L)	624.1	**200**	---	<43.0
			Acetone (µg/L)	624.1	**7.97**	---	**9.02**
			Phenol (µg/L)	EPA 420.1	**1,080**	2,154	200
Halogenated VOCs			Carbon Tetrachloride (µg/L)	624.1	**4.4**	11.5	<0.340
	Dichlorobenzene		1,2-Dichlorobenzene (1,2-DCB) (µg/L)	624.1	**600**	---	<0.200
			1,3-Dichlorobenzene (1,3-DCB) (µg/L)	624.1	**320**	---	<0.180
			1,4-Dichlorobenzene (1,4-DCB) (µg/L)	624.1	**2.0**	---	<0.220
			Total Dichlorobenzene	624.1	---	---	<0.220
			1,1-Dichloroethane (1,1-DCA) (µg/L)	624.1	**70**	---	<0.320
			1,2-Dichloroethane (1,2-DCA) (µg/L)	624.1	**5.0**	---	<0.640
			1,1-Dichloroethylene (1,1-DCE) (µg/L)	624.1	**3.2**	---	<0.320
			Ethylene Dibromide (EDB) (µg/L)	EPA 504.1	**0.05**	---	<0.020
			Methylene Chloride (µg/L)	624.1	**4.6**	---	<0.600
			1,1,1-Trichloroethane (1,1,1-TCA) (µg/L)	624.1	**200**	---	<0.340
			1,1,2-Trichloroethane (1,1,2-TCA) (µg/L)	624.1	**5.0**	---	<0.300
			Trichloroethylene (TCE) (µg/L)	624.1	**5.0**	---	<0.360
			Tetrachloroethylene (PCE) (µg/L)	624.1	**5.0**	23.7	<0.400
			cis-1,2-Dichloroethylene (DCE) (µg/L)	624.1	**70**	---	<0.300
			Vinyl Chloride (µg/L)	624.1	**2.0**	---	<0.400
Non-Halogenated SVOCs	Phthalates		Total Phthalates (µg/L)	625.1	**190**	---	<5.60
			Diethylhexyl Phthalate (DEHP) (µg/L)	625.1	**101**	15.8	<0.924
			Benzyl Butyl Phthalate (µg/L)	625.1	---	---	<0.696
			Di-n-butly phthalate (µg/L)	625.1	---	---	<5.60
			Diethyl Phthalate (µg/L)	625.1	---	---	<0.481
			Dimethyl Phthalate (µg/L)	625.1	---	---	<0.402
			Di-n-octyl Phthalate (µg/L)	625.1	---	---	<5.60
	Group I PAHs		Total Group I PAHs (µg/L)	625.1 SIM	**1.0**	---	0
			Benzo(a)anthracene (µg/L)	625.1 SIM	**1.0**	0.0273	<0.035
			Benzo(a)pyrene (µg/L)	625.1 SIM	**1.0**	0.0273	<0.022
			Benzo(b)fluoranthene (µg/L)	625.1 SIM	**1.0**	0.0273	<0.028
			Benzo(k)fluoranthene (µg/L)	625.1 SIM	**1.0**	0.0273	<0.018
			Chrysene (µg/L)	625.1 SIM	**1.0**	0.0273	<0.022
			Dibenzo(a,h)anthracene (µg/L)	625.1 SIM	**1.0**	0.0273	<0.029
			Indeno(1,2,3-cd)pyrene (µg/L)	625.1 SIM	**1.0**	0.0273	<0.028

TABLE 1
Source Water Analytical Results
National Grid
Mallard Cove
Cheshire, Massachusetts

		Sample ID Sample Date	Test Method	TBEL	WQBEL	Sump 1/13/2022
Non-Halogenated SVOCs	Group II PAHs	Total Group II PAHs (µg/L)	625.1	100	---	2.99
		Acenaphthene (µg/L)	625.1	---	---	<0.335
		Acenaphthylene (µg/L)	625.1	---	---	<0.321
		Anthracene (µg/L)	625.1	---	---	<0.396
		Benzo(g,h,i)perylene (µg/L)	625.1	---	---	<0.640
		Fluoranthene (µg/L)	625.1	---	---	<0.370
		Fluorene (µg/L)	625.1	---	---	<0.417
		Phenanthrene (µg/L)	625.1	---	---	<0.397
		Pyrene (µg/L)	625.1	---	---	<0.473
		Naphthalene (ug/L)	625.1	20	---	2.99
Halogenated SVOCs	PCBs	Total PCBs	608.3	0.000064	---	<0.183
		1016 (µg/L)	608.3	---	---	<0.173
		1221 (µg/L)	608.3	---	---	<0.160
		1232 (µg/L)	608.3	---	---	<0.163
		1242 (µg/L)	608.3	---	---	<0.171
		1248 (µg/L)	608.3	---	---	<0.162
		1254 (µg/L)	608.3	---	---	<0.183
		1260 (µg/L)	608.3	---	---	<0.159
	Pentachlorophenol (PCP) (µg/L)		625.1	1.0	---	**6,340**
Fuel Parameters	Total Petroleum Hydrocarbons (TPH) (mg/L)		EPA 1664B	5.0	---	**<14**
	Ethanol (EtOH) (mg/L)		624.1	Report	---	<0.0684
	Methyl tert-Butyl Ether (MtBE) (µg/L)		624.1	**70**	144	<0.340
	tert-Amyl Methyl Ether (tAME) (µg/L)		624.1	90	---	<0.300
	tert-Butyl Alcohol (tBA) (µg/L)		624.1	120	---	<10.7
Other	Hardness (mg/L)		EPA 200.7	---	---	340

Notes:
Bold Text - indicates which efflulent limit applies
Bolded and Box Text - indicates analyte exceeds applicable effluent limit
ug/L = micrograms per liter
mg/L = milligram per liter
TBEL - Technology Based Effluent Limits
WQBEL - Water Quality Based Effluent Limits
"---" Indicates TBEL or WQBEL not assigned

TABLE 2
Receiving Water Analytical Results
National Grid
Mallard Cove
Cheshire, Massachusetts

Sample ID	**SW-2**
Sample Date	1/13/2022
Field Measurements	
pH	7.39
Temperature (°C)	6.4
Inorganics	
Ammonia (mg/L)	
Antimony	<50
Arsenic	<10
Cadmium	<4
Chromium	<10
Copper	<10
Iron	75
Lead	<10
Mercury	<0.1
Nickel	<10
Selenium	<50
Silver	<10
Zinc	<10
General Chemistry	
Hardness (mg/L)	89.0

Notes:
Results in ug/L unless otherwise noted
ug/L = micrograms per liter
mg/L = milligram per liter
ppt = part per trillion

TABLE 3

Historic Analytical Results

National Grid

Mallard Cove

Cheshire, Massachusetts

Sample ID / Sample Date	TBEL	Sump 1/6/21	Sump 1/22/21	Sump 5/27/21	Sump 11/11/21
Semi-Volatile Organic Compounds (SVOCs)					
Benzo(b)fluoranthene	1	<0.050	<20	<0.052	<0.50
Diethylphthalate	---	<9.9	<39	NA	NA
Isophorone	---	770	550	NA	NA
2-Methylnaphthalene	---	11	<20	3.6	<10
Naphthalene	20	14	<20	4.0	<10
Pentachlorophenol (PCP)	1	9,200	8,100	9,000	7,500
Phenanthrene	---	<0.50	<20	0.13	<0.50
Pyrene	---	0.057	<20	<1.0	<10
All Other EPA Method 8270 SVOC Analytes*	---	ND	ND	ND	ND

Results reported in µg/L

< Not detected above the laboratory reporting limit shown

TBEL - Technology Based Effluent Limits

--- indicates TBEL value not assigned

NA = Not Applicable/Not Available

ND = Non-detect, see laboratory report for details

* Only the 8270 Selective Ion Monitoring (SIM) SVOC list is reported

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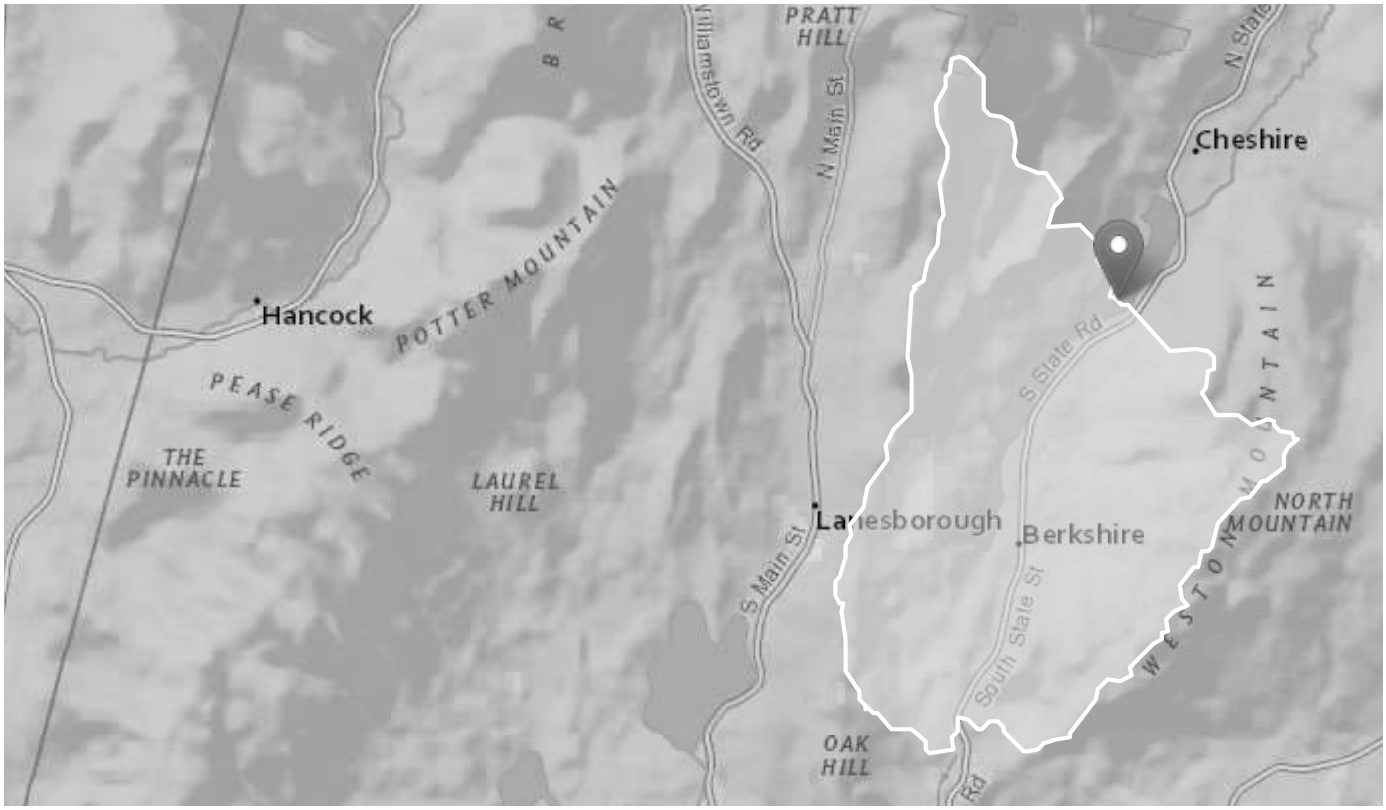
ATTACHMENT D

StreamStats Report

Region ID: MA
Workspace ID: MA20211213214241468000
Clicked Point (Latitude, Longitude): 42.54325, -73.17620
Time: 2021-12-13 16:43:02 -0500



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	12.4	square miles
BSLDEM250	Mean basin slope computed from 1:250K DEM	10.848	percent
DRFTPERSTR	Area of stratified drift per unit of stream length	0.0956	square mile per mile
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	1	dimensionless

Low-Flow Statistics Parameters [Statewide Low Flow WRIR00 4135]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	12.4	square miles	1.61	149
BSLDEM250	Mean Basin Slope from 250K DEM	10.848	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	0.0956	square mile per mile	0	1.29
MAREGION	Massachusetts Region	1	dimensionless	0	1

Low-Flow Statistics Flow Report [Statewide Low Flow WRIR00 4135]

PII: Prediction Interval-Lower, PIu: Prediction Interval-Upper, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PII	PIu	SE	ASEp
7 Day 2 Year Low Flow	2.22	ft^3/s	0.8	5.94	49.5	49.5
7 Day 10 Year Low Flow	1.38	ft^3/s	0.384	4.62	70.8	70.8

Low-Flow Statistics Citations

Ries, K.G., III,2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (http://pubs.usgs.gov/wri/wri004135/)

Application Version: 4.6.2

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2

Amanda Cantara

From: Ruan, Xiaodan (DEP) <xiaodan.ruan@state.ma.us>
Sent: Friday, March 11, 2022 4:41 PM
To: Amanda Cantara
Cc: Coniaris, Catherine (DEP)
Subject: RE: Dilution Factor Request

[Caution - External Sender]

Hi Amanda,

I can confirm that the 7Q10 flow of 1.38 cfs of the Cheshire Reservoir and the dilution factor of 7.2 for the proposed discharge with a design flow of 100 gpm from the site at 46 Mallard Cove, Cheshire are correct.

Here is water quality information assisting you in filling out the NOI:

> Waterbody and ID: Cheshire Reservoir (segment MA11002) within the Hudson-Hoosic River Basin
> Classification: B, Cold Water, High Quality Water
> Outstanding Resource Water?: no
> State's most recent Integrated List is located here: https://www.mass.gov/doc/final-massachusetts-integrated-list-of-waters-for-the-clean-water-act-20182020-reporting-cycle/download, search for "MA11002" to see the causes of impairments.
> TMDLs: there are no approved TMDLs for this segment.

Since this is an active MCP site, you do not need to apply with MassDEP.

Please let me know if you have any questions.

Thanks,
Xiaodan

Xiaodan Ruan
Environmental Engineer
Massachusetts Department of Environmental Protection
One Winter Street, Boston, MA 02108
(857)-256-4172
xiaodan.ruan@mass.gov

From: Amanda Cantara <ACantara@tighebond.com>
Sent: Friday, March 11, 2022 3:24 PM
To: Ruan, Xiaodan (DEP) <xiaodan.ruan@mass.gov>
Cc: Coniaris, Catherine (DEP) <Catherine.Coniaris@mass.gov>
Subject: RE: Dilution Factor Request

Tighe&Bond

ATTAC M NT

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Bourne (north of the Cape Cod Canal)
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Taunton
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

Updated 02/05/2016

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Gloucester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague, Warwick
	Dwarf wedgemussel	Endangered	Mill River	Whately
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hatfield, Amherst and Northampton
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

Updated 02/05/2016

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoisett
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, Wareham, Halifax, and Pembroke
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, Wareham, and Mattapoisett.
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Suffolk	Piping Plover	Threatened	Coastal Beaches	Revere, Winthrop
	Red Knot[1]	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Leominster
	Northern Long-eared Bat	Threatened Final 4(d) Rule	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

[1]Migratory only, scattered along the coast in small numbers

-Eastern cougar and gray wolf are considered extirpated in Massachusetts.
-Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.
-Critical habitat for the Northern Red-bellied Cooter is present in Plymouth County.

Updated 02/05/2016

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
http://www.fws.gov/newengland

In Reply Refer To: February 14, 2022
Project Code: 2022-0007369
Project Name: 43 Mallard Cove, Cheshire, MA

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

Project Summary

Project Code: 2022-0007369
Event Code: None
Project Name: 43 Mallard Cove, Cheshire, MA
Project Type: Spill Response
Project Description: Construction dewatering to excavation contaminated soil
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.54103925,-73.17620826208565,14z

Counties: Berkshire County, Massachusetts

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Insects

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

IPaC User Contact Information

Name: Amanda Cantara
Address: One University Avenue
City: Westwood
State: MA
Zip: 02368
Email acantara@tighebond.com
Phone: 5084153513

EFH Mapper Report

EFH Data Notice

Essential Fish Habitat (EFH) is defined by textual descriptions contained in the fishery management plans developed by the regional fishery management councils. In most cases mapping data can not fully represent the complexity of the habitats that make up EFH. This report should be used for general interest queries only and should not be interpreted as a definitive evaluation of EFH at this location. A location-specific evaluation of EFH for any official purposes must be performed by a regional expert. Please refer to the following links for the appropriate regional resources.

Greater Atlantic Regional Office
Atlantic Highly Migratory Species Management Division

Query Results

Degrees, Minutes, Seconds: Latitude = 42º 32' 28" N, Longitude = 74º 49' 26" W
Decimal Degrees: Latitude = 42.541, Longitude = -73.176

The query location intersects with spatial data representing EFH and/or HAPCs for the following species/management units.

***** W A R N I N G *****

Please note under "Life Stage(s) Found at Location" the category "ALL" indicates that all life stages of that species share the same map and are designated at the queried location.

EFH

No Essential Fish Habitats (EFH) were identified at the report location.

Salmon EFH

No Pacific Salmon Essential Fish Habitat (EFH) were identified at the report location.

HAPCs

No Habitat Areas of Particular Concern (HAPC) were identified at the report location.

EFH Areas Protected from Fishing

No EFH Areas Protected from Fishing (EFHA) were identified at the report location.

Spatial data does not currently exist for all the managed species in this area. The following is a list of species or management units for which there is no spatial data.
****For links to all EFH text descriptions see the complete data inventory: open data inventory -->**

Spatial data does not currently exist for all the managed species in this area. The following is a list of species or management units for which there is no spatial data.
****For links to all EFH text descriptions see the complete data inventory: open data inventory -->**

All spatial data is currently available for the Mid-Atlantic and New England councils,
Secretarial EFH,
Bigeye Sand Tiger Shark,
Bigeye Sixgill Shark,
Caribbean Sharpnose Shark,
Galapagos Shark,
Narrowtooth Shark,
Sevengill Shark,
Sixgill Shark,
Smooth Hammerhead Shark,
Smalltail Shark

Tighe&Bond

ATTAC M NT

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Date: 2/14/2022
Search Criteria: Town(s): Cheshire;

Inv. No.	Property Name	Street	Town	Year	Designations
CHS.A	Cheshire Town Center		Cheshire		
CHS.B	Farnams Village Historic District		Cheshire		NRDIS;
CHS.C	Mount Greylock State Reservation		Cheshire		
CHS.D	Old Church-yard Cemetery		Cheshire		NRIND;
CHS.E	Cheshire Town Hall Complex		Cheshire		NRDIS;
CHS.59	Capen - Ross - Curtiss House	Church St	Cheshire		
CHS.901	Cheshire Cheese Monument	Church St	Cheshire	1940	
CHS.958	Cheshire Honor Roll	Church St	Cheshire	1998	NRDIS;
CHS.959	Cheshire Town Hall Flag Pole	Church St	Cheshire	R 1980	NRDIS;
CHS.960	Cheshire Town Hall Granite Benches	Church St	Cheshire	2011	NRDIS;
CHS.961	Cheshire Town Hall Photovoltaic Panel	Church St	Cheshire	2011	NRDIS;
CHS.920	Cheshire World War I Memorial	Church St	Cheshire	1921	NRDIS;
CHS.921	Memorial Revolutionary War Watering Trough	Church St	Cheshire	1914	NRDIS;
CHS.78	Tanner - Chapman - Brown House	22 Church St	Cheshire	C 1858	
CHS.79	Cheshire Old Baptist Parsonage	27 Church St	Cheshire	C 1849	
CHS.76	Martin, George House	28-30 Church St	Cheshire	1885	
CHS.77	Reed, Moses - Cole, Dr. L. J. House	41 Church St	Cheshire	1815	
CHS.75	Wolcott Store	52-54 Church St	Cheshire	C 1844	
CHS.73		77 Church St	Cheshire		
CHS.74	Cheshire Town Hall	80 Church St	Cheshire	1898	NRDIS;
CHS.109	Cheshire Trolley Station - Ticket Office	82 Church St	Cheshire	1906	NRDIS;
CHS.110	Cheshire Trolley Power Plant	84 Church St	Cheshire	1906	NRDIS;
CHS.72	Brown, Henry House	93 Church St	Cheshire	1843	
CHS.69	Foster, E. D. Store	100-106 Church St	Cheshire	C 1845	
CHS.68	Dean, J. B. House	108 Church St	Cheshire		
CHS.67	Mechanics Hall	116-120 Church St	Cheshire	C 1850	
CHS.70	Wood - Harkness - Martin House	123-125 Church St	Cheshire	C 1843	
CHS.66	Fairfield, Paul Blacksmith Shop	136-140 Church St	Cheshire	C 1840	
CHS.63	Rider House	142 Church St	Cheshire		
CHS.65	Chapman - Wood House	175-177 Church St	Cheshire	C 1858	
CHS.58	Jenks House	180 Church St	Cheshire	C 1858	
CHS.64	Bliss - Jenks - Chapman House	185 Church St	Cheshire	C 1858	
CHS.62	Cheshire United Methodist Church	197 Church St	Cheshire	1848	
CHS.61	Methodist Church Parsonage	203 Church St	Cheshire	C 1848	
CHS.60	Foster, Capt. Edmund House	221 Church St	Cheshire	C 1858	
CHS.104	Farnam-Cheshire Limestone Company Worker Housing	54 Crusher Rd	Cheshire	C 1910	NRDIS;
CHS.101	Farnam-Cheshire Limestone Company Worker Housing	70 Crusher Rd	Cheshire	C 1910	NRDIS;
CHS.43	Bulfinch - Reynolds House	43 Dean St	Cheshire	1858	

Inv. No.	Property Name	Street	Town	Year	Designations
CHS.42	Stowell House	50-52 Dean St	Cheshire		
CHS.41	Bryant - Fish House	64-66 Dean St	Cheshire		
CHS.40	Brown - Leonard House	99 Dean St	Cheshire		
CHS.52	Jenks - Archibald House	42 Depot St	Cheshire	C 1858	
CHS.51	Brown - Mason - Harner House	52 Depot St	Cheshire	C 1858	
CHS.50	Brown, Werden House	66 Depot St	Cheshire	C 1876	
CHS.54	U. S. Post Office - Old Cheshire Branch	67-69 Depot St	Cheshire	C 1845	
CHS.53	Northrup House	75-79 Depot St	Cheshire	C 1858	
CHS.49	Bennet - Ingalls House	78-84 Depot St	Cheshire	C 1858	
CHS.48	Bliss - Martin House	98-100 Depot St	Cheshire		
CHS.47	Tomkins - Nickerson House	105 Depot St	Cheshire	C 1845	
CHS.45	Pristol - Olin - Haskins House	113 Depot St	Cheshire	C 1858	
CHS.46	Brown - Trotier House	114 Depot St	Cheshire	C 1858	
CHS.8	Campbell House	127 Depot St	Cheshire	C 1863	
CHS.17	Buffington - Jenks - Harrington House	247 East Harbor Rd	Cheshire	C 1858	
CHS.907	East Main Street Bridge over South Brook	East Main St	Cheshire	1939	
CHS.806	Fales Road - Sand Mill Road Cemetery	Fales Rd	Cheshire	C 1799	
CHS.36	Smith, Capt. Daniel House	306 Fales Rd	Cheshire	1805	
CHS.912	Berkshire Street Railway Railroad Bed and Trestle	Farnams Rd	Cheshire	C 1900	NRDIS;
CHS.911	Cheshire Reservoir	Farnams Rd	Cheshire	C 1866	NRDIS;
CHS.910	Farnams Road Causeway	Farnams Rd	Cheshire	C 1858	NRDIS;
CHS.10	Cole, Dexter Farm	Fred Mason Rd	Cheshire	C 1830	
CHS.33	Mason House	265 Fred Mason Rd	Cheshire	C 1858	
CHS.34	Browning - Brown House	456 Fred Mason Rd	Cheshire	C 1858	
CHS.16	Edmonds - Edmunds House	Harbor Rd	Cheshire	C 1858	
CHS.15	Wells - Richmond - Briggs House	273-275 Harbor Rd	Cheshire	C 1858	
CHS.808	Ingalls Road Cemetery	Ingalls Rd	Cheshire	C 1813	
CHS.23	Coman, Daniel - Bennett, Joseph House	Jenks Rd	Cheshire	C 1768	
CHS.803	Old Church-yard Cemetery	Jenks Rd	Cheshire	1785	NRIND;
CHS.945	Old Church-yard Cemetery - Briggs, Nancy B. Stone	Jenks Rd	Cheshire	1818	NRIND;
CHS.947	Old Church-yard Cemetery - Brown, Allan Stone	Jenks Rd	Cheshire	1820	NRIND;
CHS.935	Old Church-yard Cemetery - Brown, Benjamin Stone	Jenks Rd	Cheshire	1809	NRIND;
CHS.932	Old Church-yard Cemetery - Brown, Joseph Stone	Jenks Rd	Cheshire	1807	NRIND;
CHS.928	Old Church-yard Cemetery - Brown, Lucey Stone	Jenks Rd	Cheshire	1794	NRIND;
CHS.924	Old Church-yard Cemetery - Carpenter, Amey Stone	Jenks Rd	Cheshire	1785	NRIND;
CHS.941	Old Church-yard Cemetery - Carpenter, S. Stone	Jenks Rd	Cheshire	1815	NRIND;
CHS.951	Old Church-yard Cemetery - Converse, Capt. C. Stne	Jenks Rd	Cheshire	1830	NRIND;
CHS.953	Old Church-yard Cemetery - Converse, Rebecca Stone	Jenks Rd	Cheshire	1835	NRIND;

Inv. No.	Property Name	Street	Town	Year	Designations
CHS.940	Old Church-yard Cemetery - Cushing, Dr. D. Stone	Jenks Rd	Cheshire	1814	NRIND;
CHS.954	Old Church-yard Cemetery - Cushing, Freelove Stone	Jenks Rd	Cheshire	1843	NRIND;
CHS.950	Old Church-yard Cemetery - Cushing, Julia Stone	Jenks Rd	Cheshire	1829	NRIND;
CHS.942	Old Church-yard Cemetery - Dexter, Hopestill Stone	Jenks Rd	Cheshire	1815	NRIND;
CHS.933	Old Church-yard Cemetery - Fisk, Lydia Stone	Jenks Rd	Cheshire	1807	NRIND;
CHS.946	Old Church-yard Cemetery - Fisk, Lydia Stone	Jenks Rd	Cheshire	1819	NRIND;
CHS.930	Old Church-yard Cemetery - Flack, Melindy Stone	Jenks Rd	Cheshire	1796	NRIND;
CHS.936	Old Church-yard Cemetery - Goff, Elijah Stone	Jenks Rd	Cheshire	1812	NRIND;
CHS.931	Old Church-yard Cemetery - Hathaway, Isaac Stone	Jenks Rd	Cheshire	1798	NRIND;
CHS.925	Old Church-yard Cemetery - Hathaway, Phoebe Stone	Jenks Rd	Cheshire	1785	NRIND;
CHS.927	Old Church-yard Cemetery - Hoskins, Hannah Stone	Jenks Rd	Cheshire	1792	NRIND;
CHS.929	Old Church-yard Cemetery - Jenks, Dr. W. Stone	Jenks Rd	Cheshire	1794	NRIND;
CHS.949	Old Church-yard Cemetery - Luther, Rebecca Stone	Jenks Rd	Cheshire	1822	NRIND;
CHS.948	Old Church-yard Cemetery - Manchester, J. Stone	Jenks Rd	Cheshire	1821	NRIND;
CHS.939	Old Church-yard Cemetery - Mason, Capt. P. Stone	Jenks Rd	Cheshire	1813	NRIND;
CHS.937	Old Church-yard Cemetery - Mason, Chloe Stone	Jenks Rd	Cheshire	1812	NRIND;
CHS.952	Old Church-yard Cemetery - Mason, Lt. T. Stone	Jenks Rd	Cheshire	1832	NRIND;
CHS.943	Old Church-yard Cemetery - Read, Betsy Stone	Jenks Rd	Cheshire	1815	NRIND;
CHS.955	Old Church-yard Cemetery - Wells, Capt. S. Stone	Jenks Rd	Cheshire	1848	NRIND;
CHS.944	Old Church-yard Cemetery - Werden, Capt. P. Stone	Jenks Rd	Cheshire	1816	NRIND;
CHS.934	Old Church-yard Cemetery - Werden, Rev. P. Stone	Jenks Rd	Cheshire	1808	NRIND;
CHS.926	Old Church-yard Cemetery - Willmarth, E. Stone	Jenks Rd	Cheshire	1785	NRIND;
CHS.938	Old Church-yard Cemetery - Wilmarth, C. Stone	Jenks Rd	Cheshire	1812	NRIND;
CHS.922	Old Church-yard Cemetery Perimeter Stone Wall	Jenks Rd	Cheshire	1913	NRIND;
CHS.923	Old Church-yard Cemetery Wood Sign	Jenks Rd	Cheshire	R 1970	NRIND;
CHS.20	Brown, Nicholas House	411 Jenks Rd	Cheshire	C 1770	
CHS.21	Low, Capt. Samuel House	800 Jenks Rd	Cheshire	C 1768	
CHS.809	Bucklin, Jerusha Grave	801 Jenks Rd	Cheshire	1776	
CHS.99	Carney, H. - Curtis, Seth Barn	Lanesborough Rd	Cheshire	C 1870	NRDIS;
CHS.914	Farnams-Cheshire Limestone Company Railroad Tunnel	Lanesborough Rd	Cheshire	1916	NRDIS;
CHS.909	Farnams-Cheshire Limestone Company Tramway Bed	Lanesborough Rd	Cheshire	1909	NRDIS;
CHS.102	Farnam-Cheshire Limestone Company Worker Housing	668 Lanesborough Rd	Cheshire	C 1920	NRDIS;
CHS.103	Farnam-Cheshire Limestone Company Worker Housing	678 Lanesborough Rd	Cheshire	C 1920	NRDIS;
CHS.93	Farnams-Cheshire Limestone Company Worker Housing	708 Lanesborough Rd	Cheshire	C 1910	NRDIS;
CHS.96	Farnams-Cheshire Limestone Company Worker Housing	766 Lanesborough Rd	Cheshire	C 1910	NRDIS;
CHS.91	Curtis, Henry H. House	778 Lanesborough Rd	Cheshire	C 1865	NRDIS;
CHS.97	Bliss, Orrin House	790 Lanesborough Rd	Cheshire	C 1850	NRDIS;
CHS.98	Farnam Village Fire Station	790 Lanesborough Rd	Cheshire	C 1900	NRDIS;

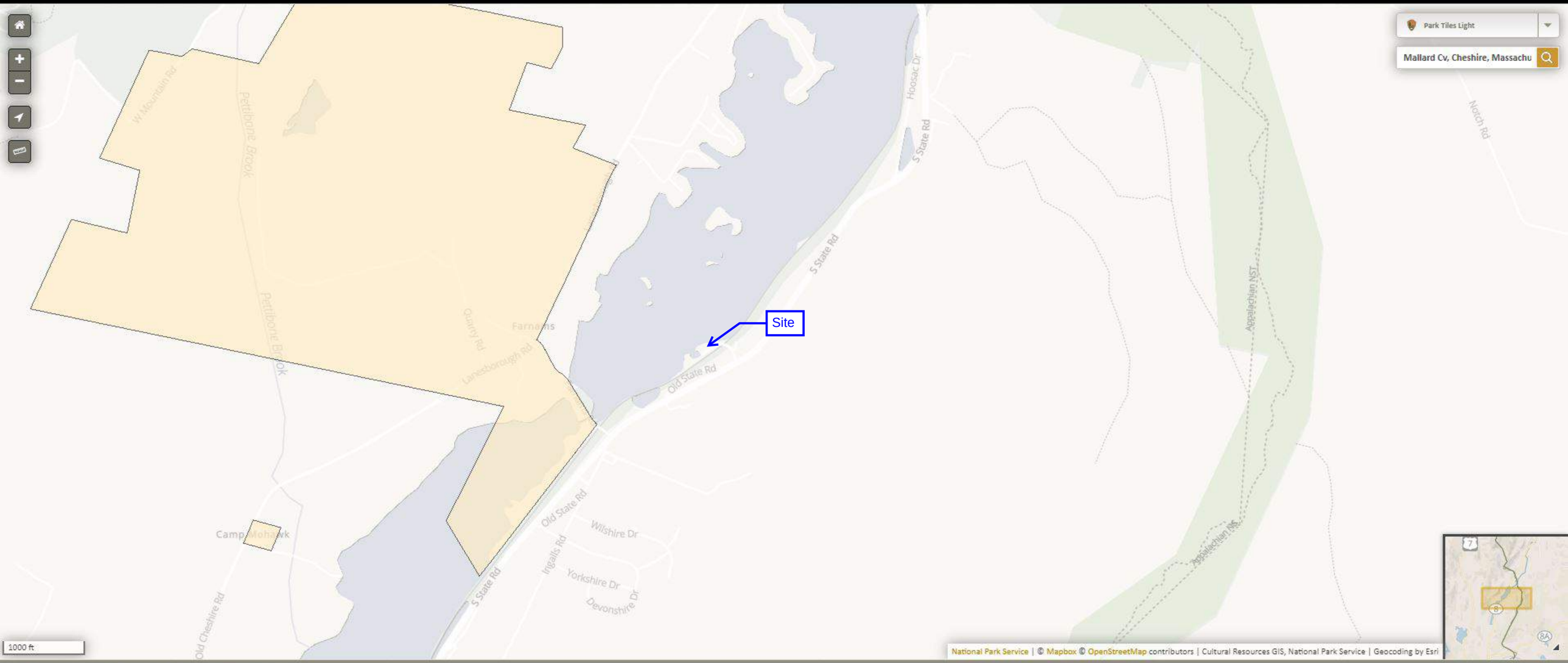
Inv. No.	Property Name	Street	Town	Year	Designations
CHS.100	Farnam-Cheshire Lime Company Processing Mill	805-839 Lanesborough Rd	Cheshire	R 1915	NRDIS;
CHS.107	Farnam-Cheshire Limestone Company Paymaster Office	805-839 Lanesborough Rd	Cheshire	1921	NRDIS;
CHS.94	Farnams-Cheshire Limestone Company Carpentry Shop	805-839 Lanesborough Rd	Cheshire	C 1920	NRDIS;
CHS.92	Farnams-Cheshire Limestone Company Power House	805-839 Lanesborough Rd	Cheshire	C 1915	NRDIS;
CHS.90	Farnum Brothers Lime Company Stock Room	805-839 Lanesborough Rd	Cheshire	C 1880	NRDIS;
CHS.105	Farnam-Cheshire Limestone Company Worker Housing	858 Lanesborough Rd	Cheshire	C 1910	NRDIS;
CHS.108	Jenks, Frank J. House	931 Lanesborough Rd	Cheshire	C 1880	NRDIS;
CHS.956	Main Street Bridge over Hoosic River	Main St	Cheshire		
CHS.71	Brown - Martin House	137-139 Main St	Cheshire		
CHS.900	Berkshire Volunteer Monument	North St	Cheshire	1932	
CHS.802	North Street Cemetery	North St	Cheshire	1775	
CHS.4	Cole Brother's Store	11 North St	Cheshire	1808	
CHS.5	Hall's Tavern	31 North St	Cheshire	1804	NRIND;
CHS.84	First Baptist Church	32 North St	Cheshire	1849	
CHS.82	Morgan, Roxey House	43 North St	Cheshire	C 1920	
CHS.83	Lockwood House	61 North St	Cheshire	R 1904	
CHS.89	Brown, Werden House	64 North St	Cheshire	C 1870	
CHS.85	Brown - Wood House	68 North St	Cheshire	C 1876	
CHS.86	Slade - Brown - Foster House	78 North St	Cheshire		
CHS.87	Dean, Alanson P. House	120 North St	Cheshire	1853	
CHS.88	Jarvis - Dean House	121-123 North St	Cheshire	C 1858	
CHS.6	Bradford - Cole House	North State Rd	Cheshire	1790	
CHS.11	Cushing - Martin House	North State Rd	Cheshire	1791	
CHS.7	Richardson House	725 North State Rd	Cheshire	C 1792	
CHS.9	Jenks, Elisha Cotton Mill	1490 North State Rd	Cheshire	R 1825	
CHS.37	Brown, William - Stafford, Richard House	867 Notch Rd	Cheshire	C 1792	
CHS.12	Miller - Card House	54 Pleasant View Dr	Cheshire		
CHS.917	Farnams Limestone Quarry	Quarry Rd	Cheshire	C 1874	NRDIS;
CHS.916	Farnum, A. S. Lime Kilns Dyamite Shed Ruins	Quarry Rd	Cheshire	C 1840	NRDIS;
CHS.903	Farnum, A. S. Lime Kilns Quarrying Equipment	Quarry Rd	Cheshire	R 1895	NRDIS;
CHS.915	Northup, Stephen Small Limestone Quarry	Quarry Rd	Cheshire	C 1840	NRDIS;
CHS.913	Quarry Road	Quarry Rd	Cheshire	R 1850	NRDIS;
CHS.95	Farnams-Cheshire Limestone Company Worker Housing	84 Quarry Rd	Cheshire	C 1910	NRDIS;
CHS.106	Farnam-Cheshire Limestone Company Worker Housing	103-109 Quarry Rd	Cheshire	C 1910	NRDIS;
CHS.44	Cheshire Railroad Station	6 Railroad St	Cheshire	1849	
CHS.957	Cheshire Harbor Trolley Bridge	Reservoir Rd	Cheshire	R 1896	
CHS.55	Bowen, H. C. House	Richardson St	Cheshire	C 1860	
CHS.38	Burt - Farnum House	27-29 Richmond St	Cheshire	C 1860	

Inv. No.	Property Name	Street	Town	Year	Designations
CHS.39	Saunders House	36 Richmond St	Cheshire	C 1845	
CHS.805	Burt Cemetery	Rt 116	Cheshire	C 1817	
CHS.906	Choquettas Bridge	Rt 116	Cheshire	1940	
CHS.905	Pumpkin Hook Bridge - Hook Arch Bridge	Rt 116	Cheshire	1929	
CHS.35	Lincoln, S. L. House	920 Sand Mill Rd	Cheshire		
CHS.57	Cheshire Old Grange Hall	56-64 School St	Cheshire	R 1920	
CHS.56	Wheelock, Jerome M. House	200 School St	Cheshire	R 1880	
CHS.3	Barker, Ezra Farm	South St	Cheshire	C 1785	
CHS.904	South Street Bridge	South St	Cheshire	1901	
CHS.2	Beechwood Rest Home	12 South St	Cheshire	1795	
CHS.1	Tiffany Green	38 South St	Cheshire	1790	
CHS.81	Turtle, Owen House	57 South St	Cheshire	C 1876	
CHS.80	Brown, Luther House	81-101 South St	Cheshire	C 1858	
CHS.902	Stafford Hill Memorial	Stafford Hill Rd	Cheshire	1927	NRIND;
CHS.18	Bowen, Valentine House	10 Stafford Hill Rd	Cheshire	C 1776	
CHS.19	Richardson - Brayton House	184 Stafford Hill Rd	Cheshire	C 1775	
CHS.804	Jenks - Wells Road Cemetery	Wells Rd	Cheshire	1841	
CHS.24	Jenks, Jesse Farm	761 Wells Rd	Cheshire	C 1791	
CHS.22	Jenks, Jabes House	1524 Wells Rd	Cheshire	C 1825	
CHS.800	Cheshire Cemetery	West Mountain Rd	Cheshire	1859	
CHS.919	Dumont Memorial	West Mountain Rd	Cheshire	1897	
CHS.918	Jenks Family Memorial	West Mountain Rd	Cheshire		
CHS.25	Cole, R. M. House	18 West Mountain Rd	Cheshire	1820	
CHS.26	Mason - Tanner - Cropper House	195 West Mountain Rd	Cheshire	1815	
CHS.27	Whitmarsh, Toleman House	198 West Mountain Rd	Cheshire	C 1780	
CHS.29	Mason - Coles - Lamb House	231-233 West Mountain Rd	Cheshire		
CHS.28	Whitmarsh, Toleman Forge	232 West Mountain Rd	Cheshire	C 1800	
CHS.30	Weskit - Cole House	478 West Mountain Rd	Cheshire	C 1770	
CHS.31	Northrop, Stephen Jr. House	550 West Mountain Rd	Cheshire	C 1858	
CHS.32	Wood - Lamb House	612 West Mountain Rd	Cheshire	C 1858	
CHS.807	Wells - The Notch Cemetery	Windsor Rd	Cheshire	C 1773	
CHS.13	Nestle Down	77 Windsor Rd	Cheshire	C 1858	
CHS.14	Bloody Brook Tavern	1015 Windsor Rd	Cheshire		

National Register of Historic Places

Public, non-restricted data depicting National Register spatial data processed by the Cultural Resources GIS facility. Last minor update, September 2020.

National Park Service
U.S. Department of the Interior



Tighe&Bond

ATTAC M NT

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

February 21, 2022

Ellen Dufraine
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Project Location: Chesire, MA
Client Job Number:
Project Number: N5067-115
Laboratory Work Order Number: 22A0637

Enclosed are results of analyses for samples as received by the laboratory on January 13, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

Table of Contents

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

Tighe & Bond
53 Southampton Road
Westfield, MA 01085
ATTN: Ellen Dufraine

REPORT DATE: 2/21/2022

PURCHASE ORDER NUMBER:

PROJECT NUMBER: N5067-115

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22A0637

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

PROJECT LOCATION: Chesire, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Sump	22A0637-01	Ground Water		121,4500CN-CE	MA M-MA-086/CT PH-0574/NY11148
				608.3	
				624.1	
				625.1	
				EPA 1664B	
				EPA 200.7	
				EPA 200.8	
				EPA 245.1	
				EPA 300.0	
				EPA 350.1	
				EPA 420.1	
				EPA 504.1	
				SM21-23 2540D	
				SM21-23 3500 Cr B	
				SM21-23 4500 CL G	
				SM21-23 4500 CN E	MA M-MA-086/CT PH-0574/NY11148
				Tri Chrome Calc.	
SW-2	22A0637-02	Ground Water		EPA 200.7	
				EPA 245.1	
				EPA 350.1	

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CASE NARRATIVE SUMMARY

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

REVISON: 2/17/22 add Cr to sample -02 and compound 1,2-Dichloroethane and Benzyl Butyl Phthalate

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608.3

Qualifications:

MS-07

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

Analyte & Samples(s) Qualified:

Aroclor-1016
22A0637-01[Sump], B298971-MS1, B298971-MSD1

Aroclor-1016 [2C]
22A0637-01[Sump], B298971-MS1, B298971-MSD1

624.1

Qualifications:

DL-01

Elevated reporting limits for all volatile compounds due to foaming sample matrix.

Analyte & Samples(s) Qualified:

22A0637-01[Sump]

PR-08

pH of sample (pH 5) is outside of method specified preservation criteria.

Analyte & Samples(s) Qualified:

22A0637-01[Sump]

625.1

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
22A0637-01RE1[Sump]

2-Fluorobiphenyl
22A0637-01RE1[Sump]

2-Fluorophenol
22A0637-01RE1[Sump]

Nitrobenzene-d5
22A0637-01RE1[Sump]

Phenol-d6
22A0637-01RE1[Sump]

p-Terphenyl-d14
22A0637-01RE1[Sump]

S-07

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

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
22A0637-01[Sump]

V-05

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

Analyte & Samples(s) Qualified:

Benzidine
S067549-CCV1

Hexachlorocyclopentadiene
S067549-CCV1

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V-06

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

Analyte & Samples(s) Qualified:

Bis(2-ethylhexyl)phthalate (SIM)
S067525-CCV1

V-35

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

Analyte & Samples(s) Qualified:

Benzidine
S067549-CCV1

SM21-23 4500 CL G

Qualifications:

W-06

Elevated method reporting limit due to intense color of sample

Analyte & Samples(s) Qualified:

Chlorine, Residual
22A0637-01[Sump]

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

Lisa A. Worthington
Technical Representative

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

Project Location: Chesire, MA | Sample Description: | Work Order: 22A0637

Date Received: 1/13/2022

Field Sample #: Sump | Sampled: 1/13/2022 13:00

Sample ID: 22A0637-01

Sample Matrix: Ground Water

Sample Flags: DL-01, PR-08

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	9.02	100	4.70	µg/L	2	J	624.1	1/14/22	1/15/22 4:43	EEH
tert-Amyl Methyl Ether (TAME)	<0.300	1.00	0.300	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
Benzene	<0.260	2.00	0.260	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
tert-Butyl Alcohol (TBA)	<10.7	40.0	10.7	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
Carbon Tetrachloride	<0.340	4.00	0.340	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
1,2-Dichlorobenzene	<0.200	4.00	0.200	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
1,3-Dichlorobenzene	<0.180	4.00	0.180	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
1,4-Dichlorobenzene	<0.220	4.00	0.220	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
1,2-Dichloroethane	<0.640	4.00	0.640	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
cis-1,2-Dichloroethylene	<0.300	2.00	0.300	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
1,1-Dichloroethane	<0.320	4.00	0.320	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
1,1-Dichloroethylene	<0.320	4.00	0.320	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
1,4-Dioxane	<43.0	100	43.0	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
Ethanol	<68.4	100	68.4	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
Ethylbenzene	<0.180	4.00	0.180	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
Methyl tert-Butyl Ether (MTBE)	<0.340	4.00	0.340	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
Methylene Chloride	<0.600	10.0	0.600	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
Tetrachloroethylene	<0.400	4.00	0.400	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
Toluene	<0.220	2.00	0.220	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
1,1,1-Trichloroethane	<0.340	4.00	0.340	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
1,1,2-Trichloroethane	<0.300	4.00	0.300	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
Trichloroethylene	<0.360	4.00	0.360	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
Xylenes (total)	<	6.00		µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH
Vinyl Chloride	<0.400	4.00	0.400	µg/L	2		624.1	1/14/22	1/15/22 4:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		1/15/22 4:43
Toluene-d8	100	70-130		1/15/22 4:43
4-Bromofluorobenzene	100	70-130		1/15/22 4:43

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Project Location: Chesire, MA | Sample Description: | Work Order: 22A0637

Date Received: 1/13/2022

Field Sample #: Sump | Sampled: 1/13/2022 13:00

Sample ID: 22A0637-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene (SIM)	<0.035	0.050	0.035	µg/L	1		625.1	1/19/22	1/20/22 15:35	IMR
Benzo(a)pyrene (SIM)	<0.022	0.10	0.022	µg/L	1		625.1	1/19/22	1/20/22 15:35	IMR
Benzo(b)fluoranthene (SIM)	<0.028	0.050	0.028	µg/L	1		625.1	1/19/22	1/20/22 15:35	IMR
Benzo(k)fluoranthene (SIM)	<0.018	0.20	0.018	µg/L	1		625.1	1/19/22	1/20/22 15:35	IMR
Chrysene (SIM)	<0.022	0.20	0.022	µg/L	1		625.1	1/19/22	1/20/22 15:35	IMR
Dibenz(a,h)anthracene (SIM)	<0.029	0.10	0.029	µg/L	1		625.1	1/19/22	1/20/22 15:35	IMR
Indeno(1,2,3-cd)pyrene (SIM)	<0.028	0.10	0.028	µg/L	1		625.1	1/19/22	1/20/22 15:35	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	42.7	15-110		1/20/22 15:35
Phenol-d6 (SIM)	38.2	15-110		1/20/22 15:35
Nitrobenzene-d5	79.1	30-130		1/20/22 15:35
2-Fluorobiphenyl	53.1	30-130		1/20/22 15:35
2,4,6-Tribromophenol (SIM)	81.9	15-110		1/20/22 15:35
p-Terphenyl-d14	105	30-130		1/20/22 15:35

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

Project Location: Chesire, MA | Sample Description: | Work Order: 22A0637

Date Received: 1/13/2022

Field Sample #: Sump | Sampled: 1/13/2022 13:00

Sample ID: 22A0637-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	<0.335	5.00	0.335	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Acenaphthylene	<0.321	5.00	0.321	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Anthracene	<0.396	5.00	0.396	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Benzo(g,h,i)perylene	<0.640	5.00	0.640	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Butylbenzylphthalate	<0.696	10.0	0.696	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Di-n-butylphthalate	<0.497	10.0	0.497	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Diethylphthalate	<0.481	10.0	0.481	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Dimethylphthalate	<0.402	10.0	0.402	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Di-n-octylphthalate	<5.60	10.0	5.60	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Bis(2-Ethylhexyl)phthalate	<0.924	10.0	0.924	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Fluoranthene	<0.370	5.00	0.370	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Fluorene	<0.417	5.00	0.417	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Naphthalene	2.99	5.00	0.296	µg/L	1	J	625.1	1/19/22	1/20/22 21:44	IMR
Pentachlorophenol	6340	1000	374	µg/L	100		625.1	1/19/22	1/20/22 22:31	IMR
Phenanthrene	<0.397	5.00	0.397	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR
Pyrene	<0.473	5.00	0.473	µg/L	1		625.1	1/19/22	1/20/22 21:44	IMR

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	47.1		15-110		1/20/22 21:44
2-Fluorophenol		*	15-110	S-01	1/20/22 22:31
Phenol-d6	33.6		15-110		1/20/22 21:44
Phenol-d6		*	15-110	S-01	1/20/22 22:31
Nitrobenzene-d5	75.0		30-130		1/20/22 21:44
Nitrobenzene-d5		*	30-130	S-01	1/20/22 22:31
2-Fluorobiphenyl	91.2		30-130		1/20/22 21:44
2-Fluorobiphenyl		*	30-130	S-01	1/20/22 22:31
2,4,6-Tribromophenol	**112**	*	15-110	S-07	1/20/22 21:44
2,4,6-Tribromophenol		*	15-110	S-01	1/20/22 22:31
p-Terphenyl-d14	95.7		30-130		1/20/22 21:44
p-Terphenyl-d14		*	30-130	S-01	1/20/22 22:31

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Project Location: Chesire, MA | Sample Description: | Work Order: 22A0637

Date Received: 1/13/2022

Field Sample #: Sump | Sampled: 1/13/2022 13:00

Sample ID: 22A0637-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	<0.173	0.194	0.173	µg/L	1	MS-07	608.3	1/14/22	1/22/22 23:56	JMB
Aroclor-1221 [1]	<0.160	0.194	0.160	µg/L	1		608.3	1/14/22	1/22/22 23:56	JMB
Aroclor-1232 [1]	<0.163	0.194	0.163	µg/L	1		608.3	1/14/22	1/22/22 23:56	JMB
Aroclor-1242 [1]	<0.171	0.194	0.171	µg/L	1		608.3	1/14/22	1/22/22 23:56	JMB
Aroclor-1248 [1]	<0.162	0.194	0.162	µg/L	1		608.3	1/14/22	1/22/22 23:56	JMB
Aroclor-1254 [1]	<0.183	0.194	0.183	µg/L	1		608.3	1/14/22	1/22/22 23:56	JMB
Aroclor-1260 [1]	<0.159	0.194	0.159	µg/L	1		608.3	1/14/22	1/22/22 23:56	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.9	30-150		1/22/22 23:56
Decachlorobiphenyl [2]	54.5	30-150		1/22/22 23:56
Tetrachloro-m-xylene [1]	51.3	30-150		1/22/22 23:56
Tetrachloro-m-xylene [2]	48.5	30-150		1/22/22 23:56

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

Project Location: Chesire, MA | Sample Description: | Work Order: 22A0637

Date Received: 1/13/2022

Field Sample #: Sump | Sampled: 1/13/2022 13:00

Sample ID: 22A0637-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	0.050	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:18	QNW
Antimony	1.1	1.0	µg/L	1		EPA 200.8	1/17/22	1/18/22 16:35	QNW
Arsenic	ND	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:18	QNW
Cadmium	ND	0.0040	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:18	QNW
Chromium	0.022	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:18	QNW
Chromium, Trivalent	0.022		mg/L	1		Tri Chrome Calc.	1/14/22	1/17/22 20:18	QNW
Copper	0.069	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:18	QNW
Iron	49	0.050	mg/L	1		EPA 200.7	1/14/22	1/17/22 18:50	QNW
Lead	0.039	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 18:50	QNW
Mercury	ND	0.00010	mg/L	1		EPA 245.1	1/15/22	1/20/22 11:58	ICP
Nickel	0.072	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:18	QNW
Selenium	ND	0.050	mg/L	1		EPA 200.7	1/14/22	1/17/22 18:50	QNW
Silver	ND	0.010	mg/L	1		EPA 200.7	1/19/22	1/21/22 15:57	MJH
Zinc	0.18	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:18	QNW
Hardness	340	1.4	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:18	QNW

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Project Location: Chesire, MA | Sample Description: | Work Order: 22A0637

Date Received: 1/13/2022

Field Sample #: Sump | Sampled: 1/13/2022 13:00

Sample ID: 22A0637-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	0.18	0.10		mg/L	1		EPA 350.1	1/20/22	1/20/22 15:03	EC
Chloride	48	10		mg/L	10		EPA 300.0	1/21/22	1/21/22 22:08	MMH
Chlorine, Residual	ND	0.20		mg/L	10	W-06	SM21-23 4500 CL G	1/13/22	1/13/22 20:20	IS
Hexavalent Chromium	ND	0.0040		mg/L	1		SM21-23 3500 Cr B	1/13/22	1/13/22 20:15	CB2
Phenol	0.20	0.050		mg/L	1		EPA 420.1	1/18/22	1/19/22 11:20	LL
Total Suspended Solids	220	5.0		mg/L	1		SM21-23 2540D	1/14/22	1/14/22 13:40	LL
Silica Gel Treated HEM (SGT-HEM)	ND	14		mg/L	1		EPA 1664B	1/20/22	1/20/22 10:32	LL

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Project Location: Chesire, MA | Sample Description: | Work Order: 22A0637

Date Received: 1/13/2022

Field Sample #: Sump | Sampled: 1/13/2022 13:00

Sample ID: 22A0637-01

Sample Matrix: Ground Water

Drinking Water Organics EPA 504.1

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2-Dibromoethane (EDB) (1)	ND	0.020	µg/L	1		EPA 504.1	1/25/22	1/25/22 20:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,3-Dibromopropane (1)	97.3	70-130					1/25/22 20:30

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Project Location: Chesire, MA | Sample Description: | Work Order: 22A0637

Date Received: 1/13/2022

Field Sample #: Sump | Sampled: 1/13/2022 13:00

Sample ID: 22A0637-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.005	0.001	mg/L	1		121,4500CN-CE	1/20/22	1/21/22 8:58	AAL

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Project Location: Chesire, MA | Sample Description: | Work Order: 22A0637

Date Received: 1/13/2022

Field Sample #: SW-2 | Sampled: 1/13/2022 11:50

Sample ID: 22A0637-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	0.050	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:24	QNW
Arsenic	ND	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:24	QNW
Cadmium	ND	0.0040	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:24	QNW
Chromium	ND	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:24	QNW
Copper	ND	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:24	QNW
Iron	0.075	0.050	mg/L	1		EPA 200.7	1/14/22	1/17/22 18:58	QNW
Lead	ND	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 18:58	QNW
Mercury	ND	0.00010	mg/L	1		EPA 245.1	1/15/22	1/20/22 12:00	ICP
Nickel	ND	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:24	QNW
Selenium	ND	0.050	mg/L	1		EPA 200.7	1/14/22	1/17/22 18:58	QNW
Silver	ND	0.010	mg/L	1		EPA 200.7	1/19/22	1/21/22 15:45	MJH
Zinc	ND	0.010	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:24	QNW
Hardness	89	1.4	mg/L	1		EPA 200.7	1/14/22	1/17/22 20:24	QNW

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Project Location: Chesire, MA | Sample Description: | Work Order: 22A0637

Date Received: 1/13/2022

Field Sample #: SW-2 | Sampled: 1/13/2022 11:50

Sample ID: 22A0637-02

Sample Matrix: Ground Water

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

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.10		mg/L	1		EPA 350.1	1/20/22	1/20/22 15:04	EC

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Sample Extraction Data

Prep Method: SW-846 3510C **Analytical Method: 608.3**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B298971	1030	10.0	01/14/22

Prep Method: SW-846 5030B **Analytical Method: 624.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B298949	2.5	5.00	01/14/22

Prep Method: SW-846 3510C **Analytical Method: 625.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B299212	1000	1.00	01/19/22
22A0637-01RE1 [Sump]	B299212	1000	1.00	01/19/22

Prep Method: SW-846 3510C **Analytical Method: 625.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B299340	1000	1.00	01/19/22

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
22A0637-01 [Sump]	B299297	100	01/20/22

Prep Method: EPA 200.7 **Analytical Method: EPA 200.7**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B298981	50.0	50.0	01/14/22
22A0637-01 [Sump]	B298981	50.0		01/14/22
22A0637-02 [SW-2]	B298981	50.0	50.0	01/14/22
22A0637-02 [SW-2]	B298981	50.0		01/14/22

Prep Method: EPA 200.7 **Analytical Method: EPA 200.7**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01RE1 [Sump]	B299271	50.0	50.0	01/19/22
22A0637-02RE1 [SW-2]	B299271	50.0	50.0	01/19/22

Prep Method: EPA 200.8 **Analytical Method: EPA 200.8**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B299090	50.0	50.0	01/17/22

Prep Method: EPA 245.1 **Analytical Method: EPA 245.1**

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

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Sample Extraction Data

Prep Method: EPA 245.1 **Analytical Method: EPA 245.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B299012	10.0	10.0	01/15/22
22A0637-02 [SW-2]	B299012	10.0	10.0	01/15/22

Prep Method: EPA 300.0 **Analytical Method: EPA 300.0**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B299457	10.0	10.0	01/21/22

EPA 350.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B299319	100	100	01/20/22
22A0637-02 [SW-2]	B299319	100	100	01/20/22

EPA 420.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B299123	50.0	50.0	01/18/22

Prep Method: EPA 504 water **Analytical Method: EPA 504.1**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B299652	35.7	35.0	01/25/22

SM21-23 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
22A0637-01 [Sump]	B298932	100	01/14/22

SM21-23 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B298917	50.0	50.0	01/13/22

SM21-23 4500 CL G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22A0637-01 [Sump]	B298920	100	100	01/13/22

Prep Method: EPA 200.7 **Analytical Method: Tri Chrome Calc.**

Lab Number [Field ID]	Batch	Initial [mL]	Date
22A0637-01 [Sump]	B298981	50.0	01/14/22

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B298949 - SW-846 5030B										
Blank (B298949-BLK1)				Prepared: 01/14/22 Analyzed: 01/15/22						
Acetone	ND	50.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.500	µg/L							
Benzene	ND	1.00	µg/L							
tert-Butyl Alcohol (TBA)	ND	20.0	µg/L							
Carbon Tetrachloride	ND	2.00	µg/L							
1,2-Dichlorobenzene	ND	2.00	µg/L							
1,3-Dichlorobenzene	ND	2.00	µg/L							
1,4-Dichlorobenzene	ND	2.00	µg/L							
1,2-Dichloroethane	ND	2.00	µg/L							
cis-1,2-Dichloroethylene	ND	1.00	µg/L							
1,1-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethylene	ND	2.00	µg/L							
1,4-Dioxane	ND	50.0	µg/L							
Ethanol	ND	50.0	µg/L							
Ethylbenzene	ND	2.00	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L							
Methylene Chloride	ND	5.00	µg/L							
Tetrachloroethylene	ND	2.00	µg/L							
Toluene	ND	1.00	µg/L							
1,1,1-Trichloroethane	ND	2.00	µg/L							
1,1,2-Trichloroethane	ND	2.00	µg/L							
Trichloroethylene	ND	2.00	µg/L							
Xylenes (total)	ND	3.00	µg/L							
Vinyl Chloride	ND	2.00	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	*24.5*		µg/L	25.0		97.9	70-130			
LCS (B298949-BS1)				Prepared & Analyzed: 01/14/22						
Acetone	180	50.0	µg/L	200		91.8	70-160			†
tert-Amyl Methyl Ether (TAME)	20	0.500	µg/L	20.0		101	70-130			
Benzene	20	1.00	µg/L	20.0		99.5	65-135			
tert-Butyl Alcohol (TBA)	180	20.0	µg/L	200		90.8	40-160			†
Carbon Tetrachloride	21	2.00	µg/L	20.0		104	70-130			
1,2-Dichlorobenzene	20	2.00	µg/L	20.0		102	65-135			
1,3-Dichlorobenzene	21	2.00	µg/L	20.0		104	70-130			
1,4-Dichlorobenzene	20	2.00	µg/L	20.0		99.8	65-135			
1,2-Dichloroethane	18	2.00	µg/L	20.0		91.0	70-130			
cis-1,2-Dichloroethylene	21	1.00	µg/L	20.0		104	70-130			
1,1-Dichloroethane	21	2.00	µg/L	20.0		105	70-130			
1,1-Dichloroethylene	20	2.00	µg/L	20.0		101	50-150			
1,4-Dioxane	180	50.0	µg/L	200		92.2	40-130			†
Ethanol	160	50.0	µg/L	200		82.0	40-160			
Ethylbenzene	21	2.00	µg/L	20.0		105	60-140			
Methyl tert-Butyl Ether (MTBE)	20	2.00	µg/L	20.0		99.8	70-130			
Methylene Chloride	19	5.00	µg/L	20.0		97.3	60-140			
Tetrachloroethylene	20	2.00	µg/L	20.0		98.4	70-130			
Toluene	20	1.00	µg/L	20.0		102	70-130			
1,1,1-Trichloroethane	21	2.00	µg/L	20.0		107	70-130			
1,1,2-Trichloroethane	21	2.00	µg/L	20.0		104	70-130			
Trichloroethylene	21	2.00	µg/L	20.0		103	65-135			
Vinyl Chloride	16	2.00	µg/L	20.0		77.9	5-195			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B298949 - SW-846 5030B										
LCS (B298949-BS1)				Prepared & Analyzed: 01/14/22						
Surrogate: 1,2-Dichloroethane-d4	*24.5*		µg/L	25.0		98.2	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	*24.5*		µg/L	25.0		97.8	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B299340 - SW-846 3510C										
Blank (B299340-BLK1)				Prepared: 01/19/22 Analyzed: 01/20/22						
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Pentachlorophenol (SIM)	ND	1.0	µg/L							
Surrogate: 2-Fluorophenol (SIM)	*80.5*		µg/L	200		40.3	15-110			
Surrogate: Phenol-d6 (SIM)	*72.2*		µg/L	200		36.1	15-110			
Surrogate: Nitrobenzene-d5	*68.1*		µg/L	100		68.1	30-130			
Surrogate: 2-Fluorobiphenyl	*58.0*		µg/L	100		58.0	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*170*		µg/L	200		85.0	15-110			
Surrogate: p-Terphenyl-d14	*126*		µg/L	100		126	30-130			
LCS (B299340-BS1)				Prepared: 01/19/22 Analyzed: 01/20/22						
Benzo(a)anthracene (SIM)	42.1	1.0	µg/L	50.0		84.2	33-143			
Benzo(a)pyrene (SIM)	39.1	2.0	µg/L	50.0		78.2	17-163			
Benzo(b)fluoranthene (SIM)	40.3	1.0	µg/L	50.0		80.6	24-159			
Benzo(k)fluoranthene (SIM)	41.0	4.0	µg/L	50.0		82.0	11-162			
Chrysene (SIM)	40.8	4.0	µg/L	50.0		81.6	17-168			
Dibenz(a,h)anthracene (SIM)	36.6	2.0	µg/L	50.0		73.3	10-227			
Indeno(1,2,3-cd)pyrene (SIM)	36.9	2.0	µg/L	50.0		73.8	10-171			
Pentachlorophenol (SIM)	33.6	20	µg/L	50.0		67.2	14-176			
Surrogate: 2-Fluorophenol (SIM)	*72.1*		µg/L	200		36.0	15-110			
Surrogate: Phenol-d6 (SIM)	*66.0*		µg/L	200		33.0	15-110			
Surrogate: Nitrobenzene-d5	*65.5*		µg/L	100		65.5	30-130			
Surrogate: 2-Fluorobiphenyl	*55.9*		µg/L	100		55.9	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*143*		µg/L	200		71.6	15-110			
Surrogate: p-Terphenyl-d14	*85.2*		µg/L	100		85.2	30-130			
LCS Dup (B299340-BSD1)				Prepared: 01/19/22 Analyzed: 01/20/22						
Benzo(a)anthracene (SIM)	39.6	1.0	µg/L	50.0		79.1	33-143	6.22	53	
Benzo(a)pyrene (SIM)	36.8	2.0	µg/L	50.0		73.6	17-163	6.01	72	
Benzo(b)fluoranthene (SIM)	38.4	1.0	µg/L	50.0		76.9	24-159	4.67	71	
Benzo(k)fluoranthene (SIM)	38.7	4.0	µg/L	50.0		77.3	11-162	5.83	63	
Chrysene (SIM)	38.9	4.0	µg/L	50.0		77.7	17-168	4.92	87	
Dibenz(a,h)anthracene (SIM)	35.0	2.0	µg/L	50.0		69.9	10-227	4.69	126	
Indeno(1,2,3-cd)pyrene (SIM)	34.8	2.0	µg/L	50.0		69.7	10-171	5.80	99	
Pentachlorophenol (SIM)	30.2	20	µg/L	50.0		60.3	14-176	10.8	86	
Surrogate: 2-Fluorophenol (SIM)	*69.5*		µg/L	200		34.8	15-110			
Surrogate: Phenol-d6 (SIM)	*62.4*		µg/L	200		31.2	15-110			
Surrogate: Nitrobenzene-d5	*57.3*		µg/L	100		57.3	30-130			
Surrogate: 2-Fluorobiphenyl	*54.6*		µg/L	100		54.6	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*129*		µg/L	200		64.5	15-110			
Surrogate: p-Terphenyl-d14	*85.7*		µg/L	100		85.7	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B299212 - SW-846 3510C										
Blank (B299212-BLK1)				Prepared: 01/19/22 Analyzed: 01/20/22						
Acenaphthene	ND	5.00	µg/L							
Acenaphthylene	ND	5.00	µg/L							
Anthracene	ND	5.00	µg/L							
Benzo(g,h,i)perylene	ND	5.00	µg/L							
Butylbenzylphthalate	ND	10.0	µg/L							
Di-n-butylphthalate	ND	10.0	µg/L							
Diethylphthalate	ND	10.0	µg/L							
Dimethylphthalate	ND	10.0	µg/L							
Di-n-octylphthalate	ND	10.0	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10.0	µg/L							
Fluoranthene	ND	5.00	µg/L							
Fluorene	ND	5.00	µg/L							
Naphthalene	ND	5.00	µg/L							
Phenanthrene	ND	5.00	µg/L							
Pyrene	ND	5.00	µg/L							
Surrogate: 2-Fluorophenol	*90.8*		µg/L	200		45.4	15-110			
Surrogate: Phenol-d6	*67.5*		µg/L	200		33.7	15-110			
Surrogate: Nitrobenzene-d5	*62.7*		µg/L	100		62.7	30-130			
Surrogate: 2-Fluorobiphenyl	*62.5*		µg/L	100		62.5	30-130			
Surrogate: 2,4,6-Tribromophenol	*180*		µg/L	200		90.0	15-110			
Surrogate: p-Terphenyl-d14	*86.1*		µg/L	100		86.1	30-130			
LCS (B299212-BS1)				Prepared: 01/19/22 Analyzed: 01/20/22						
Acenaphthene	29.8	5.00	µg/L	50.0		59.7	47-145			
Acenaphthylene	33.0	5.00	µg/L	50.0		66.0	33-145			
Anthracene	34.0	5.00	µg/L	50.0		68.0	27-133			
Benzo(g,h,i)perylene	35.1	5.00	µg/L	50.0		70.2	10-219			
Butylbenzylphthalate	28.5	10.0	µg/L	50.0		56.9	10-152			
Di-n-butylphthalate	32.2	10.0	µg/L	50.0		64.4	10-120			
Diethylphthalate	32.3	10.0	µg/L	50.0		64.7	10-120			
Dimethylphthalate	33.4	10.0	µg/L	50.0		66.8	10-120			
Di-n-octylphthalate	26.6	10.0	µg/L	50.0		53.2	4-146			
Bis(2-Ethylhexyl)phthalate	28.6	10.0	µg/L	50.0		57.3	8-158			
Fluoranthene	37.0	5.00	µg/L	50.0		74.0	26-137			
Fluorene	35.0	5.00	µg/L	50.0		69.9	59-121			
Naphthalene	27.9	5.00	µg/L	50.0		55.7	21-133			
Phenanthrene	33.8	5.00	µg/L	50.0		67.7	54-120			
Pyrene	32.9	5.00	µg/L	50.0		65.8	52-120			
Surrogate: 2-Fluorophenol	*82.6*		µg/L	200		41.3	15-110			
Surrogate: Phenol-d6	*62.6*		µg/L	200		31.3	15-110			
Surrogate: Nitrobenzene-d5	*57.4*		µg/L	100		57.4	30-130			
Surrogate: 2-Fluorobiphenyl	*66.6*		µg/L	100		66.6	30-130			
Surrogate: 2,4,6-Tribromophenol	*179*		µg/L	200		89.3	15-110			
Surrogate: p-Terphenyl-d14	*77.9*		µg/L	100		77.9	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B299212 - SW-846 3510C										
LCS Dup (B299212-BSD1)				Prepared: 01/19/22 Analyzed: 01/20/22						
Acenaphthene	25.9	5.00	µg/L	50.0		51.8	47-145	14.1	48	
Acenaphthylene	29.0	5.00	µg/L	50.0		57.9	33-145	13.0	74	
Anthracene	31.5	5.00	µg/L	50.0		63.0	27-133	7.63	66	
Benzo(g,h,i)perylene	33.0	5.00	µg/L	50.0		65.9	10-219	6.29	97	
Butylbenzylphthalate	27.4	10.0	µg/L	50.0		54.9	10-152	3.61	60	
Di-n-butylphthalate	30.2	10.0	µg/L	50.0		60.3	10-120	6.51	47	
Diethylphthalate	30.2	10.0	µg/L	50.0		60.3	10-120	6.91	100	
Dimethylphthalate	30.4	10.0	µg/L	50.0		60.8	10-120	9.37	183	
Di-n-octylphthalate	25.3	10.0	µg/L	50.0		50.5	4-146	5.05	69	
Bis(2-Ethylhexyl)phthalate	27.3	10.0	µg/L	50.0		54.6	8-158	4.75	82	
Fluoranthene	33.6	5.00	µg/L	50.0		67.1	26-137	9.78	66	
Fluorene	30.9	5.00	µg/L	50.0		61.9	59-121	12.2	38	
Naphthalene	24.8	5.00	µg/L	50.0		49.6	21-133	11.7	65	
Phenanthrene	31.3	5.00	µg/L	50.0		62.6	54-120	7.86	39	
Pyrene	31.2	5.00	µg/L	50.0		62.4	52-120	5.40	49	
Surrogate: 2-Fluorophenol	*76.8*		µg/L	200		38.4	15-110			
Surrogate: Phenol-d6	*57.7*		µg/L	200		28.9	15-110			
Surrogate: Nitrobenzene-d5	*51.1*		µg/L	100		51.1	30-130			
Surrogate: 2-Fluorobiphenyl	*57.7*		µg/L	100		57.7	30-130			
Surrogate: 2,4,6-Tribromophenol	*152*		µg/L	200		75.9	15-110			
Surrogate: p-Terphenyl-d14	*73.1*		µg/L	100		73.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B298971 - SW-846 3510C											
Blank (B298971-BLK1)				Prepared: 01/14/22 Analyzed: 01/20/22							
Aroclor-1016	ND	0.200	µg/L								
Aroclor-1016 [2C]	ND	0.200	µg/L								
Aroclor-1221	ND	0.200	µg/L								
Aroclor-1221 [2C]	ND	0.200	µg/L								
Aroclor-1232	ND	0.200	µg/L								
Aroclor-1232 [2C]	ND	0.200	µg/L								
Aroclor-1242	ND	0.200	µg/L								
Aroclor-1242 [2C]	ND	0.200	µg/L								
Aroclor-1248	ND	0.200	µg/L								
Aroclor-1248 [2C]	ND	0.200	µg/L								
Aroclor-1254	ND	0.200	µg/L								
Aroclor-1254 [2C]	ND	0.200	µg/L								
Aroclor-1260	ND	0.200	µg/L								
Aroclor-1260 [2C]	ND	0.200	µg/L								
Surrogate: Decachlorobiphenyl	*1.47*		µg/L	2.00		73.4		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.30*		µg/L	2.00		65.0		30-150			
Surrogate: Tetrachloro-m-xylene	*0.921*		µg/L	2.00		46.0		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.891*		µg/L	2.00		44.5		30-150			
LCS (B298971-BS1)				Prepared: 01/14/22 Analyzed: 01/20/22							
Aroclor-1016	0.288	0.200	µg/L	0.500		57.5		50-140			
Aroclor-1016 [2C]	0.292	0.200	µg/L	0.500		58.4		50-140			
Aroclor-1260	0.312	0.200	µg/L	0.500		62.3		8-140			
Aroclor-1260 [2C]	0.282	0.200	µg/L	0.500		56.4		8-140			
Surrogate: Decachlorobiphenyl	*1.42*		µg/L	2.00		71.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.24*		µg/L	2.00		61.9		30-150			
Surrogate: Tetrachloro-m-xylene	*1.03*		µg/L	2.00		51.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.986*		µg/L	2.00		49.3		30-150			
LCS Dup (B298971-BSD1)				Prepared: 01/14/22 Analyzed: 01/20/22							
Aroclor-1016	0.271	0.200	µg/L	0.500		54.3		50-140	5.84		
Aroclor-1016 [2C]	0.269	0.200	µg/L	0.500		53.8		50-140	8.20		
Aroclor-1260	0.300	0.200	µg/L	0.500		60.0		8-140	3.85		
Aroclor-1260 [2C]	0.270	0.200	µg/L	0.500		53.9		8-140	4.46		
Surrogate: Decachlorobiphenyl	*1.42*		µg/L	2.00		71.2		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.24*		µg/L	2.00		62.2		30-150			
Surrogate: Tetrachloro-m-xylene	*0.948*		µg/L	2.00		47.4		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.901*		µg/L	2.00		45.0		30-150			
Matrix Spike (B298971-MS1)	**Source: 22A0637-01**			Prepared: 01/14/22 Analyzed: 01/23/22							
Aroclor-1016	ND	0.204	µg/L	0.510	ND		*	50-140			MS-07
Aroclor-1016 [2C]	0.233	0.204	µg/L	0.510	ND	**45.7**	*	50-140			MS-07
Aroclor-1260	0.284	0.204	µg/L	0.510	ND	55.7		8-140			
Aroclor-1260 [2C]	0.243	0.204	µg/L	0.510	ND	47.6		8-140			
Surrogate: Decachlorobiphenyl	*1.08*		µg/L	2.04		53.1		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.939*		µg/L	2.04		46.0		30-150			
Surrogate: Tetrachloro-m-xylene	*1.10*		µg/L	2.04		53.7		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		µg/L	2.04		50.4		30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B298971 - SW-846 3510C											
Matrix Spike Dup (B298971-MSD1)	**Source: 22A0637-01**			Prepared: 01/14/22 Analyzed: 01/23/22							
Aroclor-1016	0.212	0.202	µg/L	0.505	ND	**42.0**	*	50-140	18.6	36	MS-07
Aroclor-1016 [2C]	0.235	0.202	µg/L	0.505	ND	**46.6**	*	50-140	1.01	36	MS-07
Aroclor-1260	0.293	0.202	µg/L	0.505	ND	58.0		8-140	3.08	38	
Aroclor-1260 [2C]	0.250	0.202	µg/L	0.505	ND	49.5		8-140	2.93	38	
Surrogate: Decachlorobiphenyl	*1.19*		µg/L	2.02		58.8		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		µg/L	2.02		50.5		30-150			
Surrogate: Tetrachloro-m-xylene	*1.12*		µg/L	2.02		55.5		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		µg/L	2.02		52.1		30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B298981 - EPA 200.7										
Blank (B298981-BLK1)				Prepared: 01/14/22 Analyzed: 01/17/22						
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Selenium	ND	0.050	mg/L							
Zinc	ND	0.010	mg/L							
Hardness	ND	1.4	mg/L							
LCS (B298981-BS1)				Prepared: 01/14/22 Analyzed: 01/17/22						
Antimony	0.510	0.050	mg/L	0.500		102	85-115			
Arsenic	0.480	0.010	mg/L	0.500		96.0	85-115			
Cadmium	0.495	0.0040	mg/L	0.500		98.9	85-115			
Chromium	0.502	0.010	mg/L	0.500		100	85-115			
Copper	0.983	0.010	mg/L	1.00		98.3	85-115			
Iron	3.93	0.050	mg/L	4.00		98.3	85-115			
Lead	0.540	0.010	mg/L	0.500		108	85-115			
Nickel	0.512	0.010	mg/L	0.500		102	85-115			
Selenium	0.532	0.050	mg/L	0.500		106	85-115			
Zinc	1.02	0.010	mg/L	1.00		102	85-115			
Hardness	27	1.4	mg/L	26.4		102	85-115			
LCS Dup (B298981-BSD1)				Prepared: 01/14/22 Analyzed: 01/17/22						
Antimony	0.500	0.050	mg/L	0.500		100	85-115	1.91	20	
Arsenic	0.468	0.010	mg/L	0.500		93.5	85-115	2.65	20	
Cadmium	0.493	0.0040	mg/L	0.500		98.5	85-115	0.412	20	
Chromium	0.500	0.010	mg/L	0.500		100	85-115	0.360	20	
Copper	0.980	0.010	mg/L	1.00		98.0	85-115	0.327	20	
Iron	3.83	0.050	mg/L	4.00		95.8	85-115	2.63	20	
Lead	0.525	0.010	mg/L	0.500		105	85-115	2.76	20	
Nickel	0.502	0.010	mg/L	0.500		100	85-115	2.06	20	
Selenium	0.512	0.050	mg/L	0.500		102	85-115	3.81	20	
Zinc	1.01	0.010	mg/L	1.00		101	85-115	0.256	20	
Hardness	27	1.4	mg/L	26.4		101	85-115	0.323	20	
Batch B299012 - EPA 245.1										
Blank (B299012-BLK1)				Prepared: 01/15/22 Analyzed: 01/20/22						
Mercury	ND	0.00010	mg/L							

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B299012 - EPA 245.1										
LCS (B299012-BS1)				Prepared: 01/15/22 Analyzed: 01/20/22						
Mercury	0.00396	0.00010	mg/L	0.00402		98.4	85-115			
LCS Dup (B299012-BSD1)				Prepared: 01/15/22 Analyzed: 01/20/22						
Mercury	0.00390	0.00010	mg/L	0.00402		97.0	85-115	1.45	20	
Batch B299090 - EPA 200.8										
Blank (B299090-BLK1)				Prepared: 01/17/22 Analyzed: 01/18/22						
Antimony	ND	1.0	µg/L							
LCS (B299090-BS1)				Prepared: 01/17/22 Analyzed: 01/18/22						
Antimony	505	10	µg/L	500		101	85-115			
LCS Dup (B299090-BSD1)				Prepared: 01/17/22 Analyzed: 01/18/22						
Antimony	505	10	µg/L	500		101	85-115	0.0188	20	
Batch B299271 - EPA 200.7										
Blank (B299271-BLK1)				Prepared: 01/19/22 Analyzed: 01/21/22						
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Silver	ND	0.010	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B299271-BS1)				Prepared: 01/19/22 Analyzed: 01/21/22						
Iron	4.30	0.050	mg/L	4.00		108	85-115			
Lead	0.555	0.010	mg/L	0.500		111	85-115			
Silver	0.436	0.010	mg/L	0.500		87.2	85-115			
Zinc	1.03	0.010	mg/L	1.00		103	85-115			
LCS Dup (B299271-BSD1)				Prepared: 01/19/22 Analyzed: 01/21/22						
Iron	4.30	0.050	mg/L	4.00		107	85-115	0.195	20	
Lead	0.519	0.010	mg/L	0.500		104	85-115	6.56	20	
Silver	0.441	0.010	mg/L	0.500		88.2	85-115	1.08	20	
Zinc	1.03	0.010	mg/L	1.00		103	85-115	0.408	20	
Duplicate (B299271-DUP1)	**Source: 22A0637-02RE1**			Prepared: 01/19/22 Analyzed: 01/21/22						
Iron	0.0527	0.050	mg/L		0.0514			2.57	20	
Silver	ND	0.010	mg/L		ND			NC	20	
Zinc	ND	0.010	mg/L		ND			NC	20	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B299271 - EPA 200.7										
Matrix Spike (B299271-MS1)		**Source: 22A0637-02RE1**		Prepared: 01/19/22 Analyzed: 01/21/22						
Iron	4.36	0.050	mg/L	4.00	0.0514	108	70-130			
Silver	0.462	0.010	mg/L	0.500	ND	92.3	70-130			
Zinc	1.00	0.010	mg/L	1.00	ND	100	70-130			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B298917 - SM21-23 3500 Cr B										
Blank (B298917-BLK1)				Prepared & Analyzed: 01/13/22						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B298917-BS1)				Prepared & Analyzed: 01/13/22						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		107	90-114			
LCS Dup (B298917-BSD1)				Prepared & Analyzed: 01/13/22						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		109	90-114	2.41	5	
Batch B298920 - SM21-23 4500 CL G										
Blank (B298920-BLK1)				Prepared & Analyzed: 01/13/22						
Chlorine, Residual	ND	0.020	mg/L							
LCS (B298920-BS1)				Prepared & Analyzed: 01/13/22						
Chlorine, Residual	0.63	0.020	mg/L	0.643		97.4	80.3-122			
LCS Dup (B298920-BSD1)				Prepared & Analyzed: 01/13/22						
Chlorine, Residual	0.67	0.020	mg/L	0.643		104	80.3-122	6.86	10.7	
Batch B298932 - SM21-23 2540D										
Blank (B298932-BLK1)				Prepared & Analyzed: 01/14/22						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B298932-BS1)				Prepared & Analyzed: 01/14/22						
Total Suspended Solids	201		mg/L	200		100	53.8-124			
Batch B299123 - EPA 420.1										
Blank (B299123-BLK1)				Prepared: 01/18/22 Analyzed: 01/19/22						
Phenol	ND	0.050	mg/L							
LCS (B299123-BS1)				Prepared: 01/18/22 Analyzed: 01/19/22						
Phenol	0.47	0.050	mg/L	0.500		94.9	73-123			
LCS Dup (B299123-BSD1)				Prepared: 01/18/22 Analyzed: 01/19/22						
Phenol	0.47	0.050	mg/L	0.500		93.3	73-123	1.62	9.13	
Duplicate (B299123-DUP1)	**Source: 22A0637-01**			Prepared: 01/18/22 Analyzed: 01/19/22						
Phenol	ND	0.050	mg/L		0.20			NC	31.6	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B299123 - EPA 420.1										
MRL Check (B299123-MRL1)				Prepared: 01/18/22 Analyzed: 01/19/22						
Phenol	ND	0.050	mg/L	0.0500			0-200			
Matrix Spike (B299123-MS1)		**Source: 22A0637-01**		Prepared: 01/18/22 Analyzed: 01/19/22						
Phenol	0.52	0.050	mg/L	0.500	0.20	64.0	29.7-144			
Batch B299297 - EPA 1664B										
Blank (B299297-BLK1)				Prepared & Analyzed: 01/20/22						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							
Blank (B299297-BLK2)				Prepared & Analyzed: 01/20/22						
Silica Gel Treated HEM (SGT-HEM)	ND	14	mg/L							
LCS (B299297-BS1)				Prepared & Analyzed: 01/20/22						
Silica Gel Treated HEM (SGT-HEM)	9.9	1.4	mg/L	10.0		99.0	64-132			
LCS (B299297-BS2)				Prepared & Analyzed: 01/20/22						
Silica Gel Treated HEM (SGT-HEM)	89	14	mg/L	100		89.0	64-132			
Batch B299319 - EPA 350.1										
Blank (B299319-BLK1)				Prepared & Analyzed: 01/20/22						
Ammonia as N	ND	0.10	mg/L							
LCS (B299319-BS1)				Prepared & Analyzed: 01/20/22						
Ammonia as N	2.2	0.10	mg/L	2.00		108	90-110			
LCS Dup (B299319-BSD1)				Prepared & Analyzed: 01/20/22						
Ammonia as N	2.0	0.10	mg/L	2.00		102	90-110	5.30	20	
Duplicate (B299319-DUP1)		**Source: 22A0637-02**		Prepared & Analyzed: 01/20/22						
Ammonia as N	ND	0.10	mg/L		ND			NC	20	
Batch B299457 - EPA 300.0										
Blank (B299457-BLK1)				Prepared & Analyzed: 01/21/22						
Chloride	ND	1.0	mg/L							
LCS (B299457-BS1)				Prepared & Analyzed: 01/21/22						
Chloride	9.9	1.0	mg/L	10.0		98.5	90-110			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B299457 - EPA 300.0										
LCS Dup (B299457-BSD1)				Prepared & Analyzed: 01/21/22						
Chloride	9.9	1.0	mg/L	10.0		99.0	90-110	0.488	20	

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QUALITY CONTROL

Drinking Water Organics EPA 504.1 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B299652 - EPA 504 water										
Blank (B299652-BLK1)				Prepared & Analyzed: 01/25/22						
1,2-Dibromoethane (EDB)	ND	0.021	µg/L							
Surrogate: 1,3-Dibromopropane	*0.960*		µg/L	1.04		92.2	70-130			
LCS (B299652-BS1)				Prepared & Analyzed: 01/25/22						
1,2-Dibromoethane (EDB)	0.237	0.021	µg/L	0.260		91.2	70-130			
Surrogate: 1,3-Dibromopropane	*1.05*		µg/L	1.04		101	70-130			
LCS Dup (B299652-BSD1)				Prepared & Analyzed: 01/25/22						
1,2-Dibromoethane (EDB)	0.237	0.021	µg/L	0.261		90.8	70-130	0.186		
Surrogate: 1,3-Dibromopropane	*1.07*		µg/L	1.05		102	70-130			
MRL Check (B299652-MRL1)				Prepared & Analyzed: 01/25/22						
1,2-Dibromoethane (EDB)	0.0179	0.021	µg/L	0.0210		85.0	0-200			
1,2-Dibromoethane (EDB) [2C]	0.0189	0.021	µg/L	0.0210		90.0	0-200			
Surrogate: 1,3-Dibromopropane	*0.964*		µg/L	1.05		91.7	70-130			
Surrogate: 1,3-Dibromopropane [2C]	*0.990*		µg/L	1.05		94.2	70-130			
MRL Check (B299652-MRL2)				Prepared & Analyzed: 01/25/22						
1,2-Dibromoethane (EDB)	0.0251	0.021	µg/L	0.0210		120	0-200			
1,2-Dibromoethane (EDB) [2C]	0.0272	0.021	µg/L	0.0210		130	0-200			
Surrogate: 1,3-Dibromopropane	*1.03*		µg/L	1.05		98.4	70-130			
Surrogate: 1,3-Dibromopropane [2C]	*1.04*		µg/L	1.05		99.7	70-130			
Matrix Spike (B299652-MS1)	**Source: 22A0637-01**			Prepared & Analyzed: 01/25/22						
1,2-Dibromoethane (EDB)	0.221	0.021	µg/L	0.262	ND	84.4	65-135			
Surrogate: 1,3-Dibromopropane	*1.01*		µg/L	1.05		96.2	70-130			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

608.3

LCS

Lab Sample ID: B298971-BS1

Date(s) Analyzed: 01/20/2022 01/20/2022

Instrument ID (1): ECD3

Instrument ID (2): ECD3

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.288	
	2	0.000	0.000	0.000	0.292	0.7
Aroclor-1260	1	0.000	0.000	0.000	0.312	
	2	0.000	0.000	0.000	0.282	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

608.3

LCS Dup

Lab Sample ID: B298971-BSD1 Date(s) Analyzed: 01/20/2022 01/20/2022

Instrument ID (1): ECD3 Instrument ID (2): ECD3

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.271	
	2	0.000	0.000	0.000	0.269	0.4
Aroclor-1260	1	0.000	0.000	0.000	0.300	
	2	0.000	0.000	0.000	0.270	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

608.3

Matrix Spike

Lab Sample ID: B298971-MS1 Date(s) Analyzed: 01/23/2022 01/23/2022

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.284	
	2	0.000	0.000	0.000	0.243	14.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

608.3

Matrix Spike Dup

Lab Sample ID: B298971-MSD1 Date(s) Analyzed: 01/23/2022 01/23/2022

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.212	
	2	0.000	0.000	0.000	0.235	11.2
Aroclor-1260	1	0.000	0.000	0.000	0.293	
	2	0.000	0.000	0.000	0.250	14.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 504.1

LCS

Lab Sample ID: B299652-BS1 Date(s) Analyzed: 01/25/2022 01/25/2022

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
1,2-Dibromoethane (EDB)	1	3.503	0.000	0.000	0.237	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 504.1

LCS Dup

Lab Sample ID: B299652-BSD1 Date(s) Analyzed: 01/25/2022 01/25/2022

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
1,2-Dibromoethane (EDB)	1	3.504	0.000	0.000	0.237	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 504.1

Matrix Spike

Lab Sample ID: B299652-MS1 Date(s) Analyzed: 01/25/2022 01/25/2022

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
1,2-Dibromoethane (EDB)	1	3.504	0.000	0.000	0.221	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
PR-08	pH of sample (pH 5) is outside of method specified preservation criteria.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
W-06	Elevated method reporting limit due to intense color of sample

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
624.1 in Water	
Acetone	CT,NY,MA,NH
tert-Amyl Methyl Ether (TAME)	MA
Benzene	CT,NY,MA,NH,RI,NC,ME,VA
tert-Butyl Alcohol (TBA)	NY,MA
Carbon Tetrachloride	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,3-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,4-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
cis-1,2-Dichloroethylene	NY,MA
1,1-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
1,4-Dioxane	MA
Ethanol	NY,MA,NH
Ethylbenzene	CT,NY,MA,NH,RI,NC,ME,VA
Methyl tert-Butyl Ether (MTBE)	NY,MA,NH,NC
Methylene Chloride	CT,NY,MA,NH,RI,NC,ME,VA
Naphthalene	NY,MA,NC
Tetrachloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Toluene	CT,NY,MA,NH,RI,NC,ME,VA
1,1,1-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Trichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Xylenes (total)	NY,MA,NH,VA
Vinyl Chloride	CT,NY,MA,NH,RI,NC,ME,VA
625.1 in Water	
Acenaphthene	CT,MA,NH,NY,NC,RI,ME,VA
Acenaphthylene	CT,MA,NH,NY,NC,RI,ME,VA
Anthracene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(g,h,i)perylene	CT,MA,NH,NY,NC,RI,ME,VA
Butylbenzylphthalate	CT,MA,NH,NY,NC,RI,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
625.1 in Water	
Di-n-butylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
1,3-Dichlorobenzene	MA,NC
1,4-Dichlorobenzene	MA,NC
1,2-Dichlorobenzene	MA,NC
Diethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
Dimethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
Di-n-octylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
Bis(2-Ethylhexyl)phthalate	CT,MA,NH,NY,NC,RI,ME,VA
Fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA
Fluorene	CT,MA,NH,NY,NC,RI,ME,VA
Naphthalene	CT,MA,NH,NY,NC,RI,ME,VA
Pentachlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
Phenanthrene	CT,MA,NH,NY,NC,RI,ME,VA
Phenol	CT,MA,NH,NY,NC,RI,ME,VA
Pyrene	CT,MA,NH,NY,NC,RI,ME,VA
2-Fluorophenol	NC
2-Fluorophenol	NC,VA
Phenol-d6	VA
Nitrobenzene-d5	VA
EPA 200.7 in Water	
Antimony	CT,MA,NH,NY,RI,NC,ME,VA
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA
Cadmium	CT,MA,NH,NY,RI,NC,ME,VA
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Copper	CT,MA,NH,NY,RI,NC,ME,VA
Iron	CT,MA,NH,NY,RI,NC,ME,VA
Lead	CT,MA,NH,NY,RI,NC,ME,VA
Nickel	CT,MA,NH,NY,RI,NC,ME,VA
Selenium	CT,MA,NH,NY,RI,NC,ME,VA
Silver	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
Hardness	CT,MA,NH,NY,RI,VA
EPA 200.8 in Drinking Water	
Antimony	NY,NH,MA,CT,RI,ME,VA
EPA 245.1 in Water	
Mercury	CT,MA,NH,RI,NY,NC,ME,VA
EPA 300.0 in Water	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
EPA 350.1 in Water	
Ammonia as N	NC,NY,MA,NH,RI,ME,VA
EPA 420.1 in Water	
Phenol	CT,MA,NH,NY,RI,NC,ME,VA
SM21-23 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-23 3500 Cr B in Water	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NC
SM21-23 4500 CL G in Water	
Chlorine, Residual	CT,MA,RI,ME
SM21-23 4500 CN E in Water	
Cyanide	CT,MA,NH,NY,RI,NC,ME,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

Pace Analytical

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1800 Elm Street SE
Minneapolis, MN 55414

Doc # 381 Rev 2_06262019

22A0637

CHAIN OF CUSTODY RECORD

Page ___1_ of __1___

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: Tighe & Bond
Address: 53 Southampton Road, West
Phone:
Project Name: Mallard Cove
Project Location: Cheshire, MA
Project Number: N5067-115
Project Manager:
Pace Analytical Quote Name/Number
Invoice Recipient:
Sampled By: FOD

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

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

Data Delivery
Format: PDF ☑ EXCEL ☐
Other: ENVIRODATA
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

2 Preservation Code

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	1/N RGP Metals * 200.7, 200.8 and 245.1	1/U Hardness ~~SM 2340~~ 200.7	2V/U Ethanol by 624.1	1/U Chloride EPA 300.0	1/X Total cyanide SM 4500-CN	2L/S TPH 1664	1/U Total Residual Chlorine SM 4500	1/S Ammonia 350.1	1/N Hexavalent Chromium	1/U Trivalent Chromium	2/H VOC 624	2L/A 1,4 Dioxane by 624.1	2V/T 504 EDB	2L/U SVOC 625	2L/U SVOC 625 low level for Group I PAHs and pcb	2L/U 608 PCB	1L/U Total Suspended Solis SM 2540D	500A/S Phenols 420.1
1	Sump	1/13/22	1300	G	GW		6	10	7			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2	SW-2	↓	1150	G	FW				2			x	x						x										

Relinquished by: (signature) — Date/Time: 1/13/22 15:53
Received by: (signature) 4.9 C — Date/Time: 1/13/22 1553
Relinquished by: (signature) — Date/Time:
Received by: (signature) — Date/Time:
Relinquished by: (signature) — Date/Time:
Received by: (signature) — Date/Time:
Relinquished by: (signature) — Date/Time:
Received by: (signature) — Date/Time:

Client Comments: * (RGP metals - antimony, arsenic, cadmium, chromium, copper, iron, lead, mercury, nickel, selenium, silver, zinc)
Hardness via 200.7
Jessica Hoffman sent analyte list.

Detection Limit Requirements
MA: RCGW-1
CT:
Other:

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

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

Matrix Codes
GW= Ground Water
WW = Waste Water
DW = Drinking Water
A = Air S = Soil
SL = Sludge
SOL = Solid
O = Other ____

Preservation Codes
I = Iced
H = HCL
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
M = Methanol
DI = DI Water
O = Other ____

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

NELAC and AIHA-LAP, LLC Accredited

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:

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

Confirm Receipt
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N

*Pace Analytical is not responsible for missing samples from prepacked coolers

Pace Analytical

Table of Contents

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Tighe & Bond

Received By _____ Date 1/18/22 Time 1553

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

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 4.9 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a

Was COC Relinquished ? T Does Chain Agree With Samples? T

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Cassie

Is there enough Volume? T

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

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

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid T Base T

Vials	#	Containers:	#		#		#
Unp-	2	1 Liter Amb.	8	1 Liter Plastic	1	16 oz Amb.	
HCL-	2	500 mL Amb.	2	500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	7	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-	2	SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

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November 19, 2021

Matt Abraham
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Project Location: Cheshire, MA
Client Job Number:
Project Number: N-5067-115
Laboratory Work Order Number: 21K0824

Enclosed are results of analyses for samples as received by the laboratory on November 12, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

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Tighe & Bond
53 Southampton Road
Westfield, MA 01085
ATTN: Matt Abraham

REPORT DATE: 11/19/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: N-5067-115

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21K0824

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

PROJECT LOCATION: Cheshire, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-9	21K0824-01	Ground Water		SW-846 8270E	
MW-10	21K0824-02	Ground Water		SW-846 8270E	
MW-2	21K0824-03	Ground Water		SW-846 8270E	
MW-3	21K0824-04	Ground Water		SW-846 8270E	
MW-4	21K0824-05	Ground Water		SW-846 8270E	
MW-8	21K0824-06	Ground Water		SW-846 8270E	
MW-5	21K0824-07	Ground Water		SW-846 8270E	
MW-6	21K0824-08	Ground Water		SW-846 8270E	
Well	21K0824-09	Ground Water		SW-846 8270E	
MW-7	21K0824-10	Ground Water		SW-846 8270E	
MW-1	21K0824-11	Ground Water		SW-846 8270E	
Influent	21K0824-12	Ground Water		SW-846 8270E	
Midfluent	21K0824-13	Ground Water		SW-846 8270E	
Effluent	21K0824-14	Ground Water		SW-846 8270E	
Sump	21K0824-15	Ground Water		SW-846 8270E	

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CASE NARRATIVE SUMMARY

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

SW-846 8270E

Qualifications:

RL-08

Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

21K0824-07[MW-5], 21K0824-08[MW-6], 21K0824-15[Sump]

S-07

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

Analyte & Samples(s) Qualified:

2-Fluorophenol (SIM)
21K0824-09RE1[Well]

Nitrobenzene-d5
21K0824-09[Well], 21K0824-09RE1[Well]

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

Lisa A. Worthington
Technical Representative

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: MW-9 | Sampled: 11/11/2021 10:00

Sample ID: 21K0824-01

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 (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Acenaphthylene (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Benzo(a)anthracene (SIM)	ND	0.049	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Benzo(a)pyrene (SIM)	ND	0.098	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Benzo(b)fluoranthene (SIM)	ND	0.049	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.49	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Fluoranthene (SIM)	ND	0.49	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Fluorene (SIM)	ND	0.98	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
2-Methylnaphthalene (SIM)	ND	0.98	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Naphthalene (SIM)	ND	0.98	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Pentachlorophenol (SIM)	ND	0.98	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Phenanthrene (SIM)	ND	0.049	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR
Pyrene (SIM)	ND	0.98	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:08	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	36.7	15-110		11/18/21 15:08
Phenol-d6 (SIM)	30.6	15-110		11/18/21 15:08
Nitrobenzene-d5	58.9	30-130		11/18/21 15:08
2-Fluorobiphenyl	48.2	30-130		11/18/21 15:08
2,4,6-Tribromophenol (SIM)	87.4	15-110		11/18/21 15:08
p-Terphenyl-d14	86.5	30-130		11/18/21 15:08

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: MW-10 | Sampled: 11/11/2021 10:00

Sample ID: 21K0824-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Acenaphthylene (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Benzo(a)anthracene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Benzo(a)pyrene (SIM)	ND	0.096	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Benzo(b)fluoranthene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Fluoranthene (SIM)	ND	0.48	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Fluorene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
2-Methylnaphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Naphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Pentachlorophenol (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Phenanthrene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR
Pyrene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/18/21 15:31	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	35.6	15-110		11/18/21 15:31
Phenol-d6 (SIM)	29.6	15-110		11/18/21 15:31
Nitrobenzene-d5	56.5	30-130		11/18/21 15:31
2-Fluorobiphenyl	46.5	30-130		11/18/21 15:31
2,4,6-Tribromophenol (SIM)	78.0	15-110		11/18/21 15:31
p-Terphenyl-d14	79.5	30-130		11/18/21 15:31

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: MW-2 | Sampled: 11/11/2021 11:30

Sample ID: 21K0824-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Acenaphthylene (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Benzo(a)anthracene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Benzo(a)pyrene (SIM)	ND	0.096	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Benzo(b)fluoranthene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Fluoranthene (SIM)	ND	0.48	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Fluorene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
2-Methylnaphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Naphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Pentachlorophenol (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Phenanthrene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR
Pyrene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:22	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	38.6	15-110		11/19/21 9:22
Phenol-d6 (SIM)	31.1	15-110		11/19/21 9:22
Nitrobenzene-d5	57.4	30-130		11/19/21 9:22
2-Fluorobiphenyl	54.7	30-130		11/19/21 9:22
2,4,6-Tribromophenol (SIM)	90.0	15-110		11/19/21 9:22
p-Terphenyl-d14	90.7	30-130		11/19/21 9:22

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: MW-3 | Sampled: 11/11/2021 11:10

Sample ID: 21K0824-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Pentachlorophenol (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 9:44	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol (SIM)	30.1	15-110		11/19/21	9:44
Phenol-d6 (SIM)	24.3	15-110		11/19/21	9:44
Nitrobenzene-d5	46.6	30-130		11/19/21	9:44
2-Fluorobiphenyl	43.9	30-130		11/19/21	9:44
2,4,6-Tribromophenol (SIM)	75.3	15-110		11/19/21	9:44
p-Terphenyl-d14	83.0	30-130		11/19/21	9:44

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: MW-4 | Sampled: 11/11/2021 11:40

Sample ID: 21K0824-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Acenaphthylene (SIM)	ND	0.31	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Benzo(a)anthracene (SIM)	ND	0.052	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Benzo(b)fluoranthene (SIM)	ND	0.052	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.52	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Benzo(k)fluoranthene (SIM)	ND	0.21	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Chrysene (SIM)	ND	0.21	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Fluoranthene (SIM)	ND	0.52	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.21	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Pentachlorophenol (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Phenanthrene (SIM)	ND	0.052	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:07	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	37.3	15-110		11/19/21 10:07
Phenol-d6 (SIM)	31.1	15-110		11/19/21 10:07
Nitrobenzene-d5	50.6	30-130		11/19/21 10:07
2-Fluorobiphenyl	46.6	30-130		11/19/21 10:07
2,4,6-Tribromophenol (SIM)	76.2	15-110		11/19/21 10:07
p-Terphenyl-d14	84.8	30-130		11/19/21 10:07

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: MW-8 | Sampled: 11/11/2021 12:00

Sample ID: 21K0824-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.28	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Acenaphthylene (SIM)	ND	0.28	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Benzo(a)anthracene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Benzo(a)pyrene (SIM)	ND	0.094	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Benzo(b)fluoranthene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.47	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Fluoranthene (SIM)	ND	0.47	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Fluorene (SIM)	ND	0.94	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
2-Methylnaphthalene (SIM)	ND	0.94	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Naphthalene (SIM)	ND	0.94	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Pentachlorophenol (SIM)	ND	0.94	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Phenanthrene (SIM)	ND	0.047	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR
Pyrene (SIM)	ND	0.94	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:30	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol (SIM)	35.7	15-110		11/19/21 10:30	
Phenol-d6 (SIM)	28.7	15-110		11/19/21 10:30	
Nitrobenzene-d5	47.4	30-130		11/19/21 10:30	
2-Fluorobiphenyl	43.0	30-130		11/19/21 10:30	
2,4,6-Tribromophenol (SIM)	77.0	15-110		11/19/21 10:30	
p-Terphenyl-d14	89.6	30-130		11/19/21 10:30	

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: MW-5 | Sampled: 11/11/2021 12:07

Sample ID: 21K0824-07

Sample Matrix: Ground Water

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	1.5	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Acenaphthylene (SIM)	ND	1.5	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Anthracene (SIM)	ND	1.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Benzo(a)anthracene (SIM)	ND	0.25	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Benzo(a)pyrene (SIM)	ND	0.50	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Benzo(b)fluoranthene (SIM)	ND	0.25	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Benzo(g,h,i)perylene (SIM)	ND	2.5	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Benzo(k)fluoranthene (SIM)	ND	1.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Chrysene (SIM)	ND	1.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Dibenz(a,h)anthracene (SIM)	ND	1.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Fluoranthene (SIM)	ND	2.5	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Fluorene (SIM)	ND	5.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	1.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
2-Methylnaphthalene (SIM)	ND	5.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Naphthalene (SIM)	ND	5.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Pentachlorophenol (SIM)	240	5.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Phenanthrene (SIM)	ND	0.25	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR
Pyrene (SIM)	ND	5.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:11	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	34.4	15-110		11/18/21 21:11
Phenol-d6 (SIM)	28.6	15-110		11/18/21 21:11
Nitrobenzene-d5	43.4	30-130		11/18/21 21:11
2-Fluorobiphenyl	43.6	30-130		11/18/21 21:11
2,4,6-Tribromophenol (SIM)	68.7	15-110		11/18/21 21:11
p-Terphenyl-d14	79.7	30-130		11/18/21 21:11

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: MW-6 | Sampled: 11/11/2021 12:35

Sample ID: 21K0824-08

Sample Matrix: Ground Water

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	1.5	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Acenaphthylene (SIM)	ND	1.5	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Anthracene (SIM)	ND	1.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Benzo(a)anthracene (SIM)	ND	0.25	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Benzo(a)pyrene (SIM)	ND	0.50	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Benzo(b)fluoranthene (SIM)	ND	0.25	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Benzo(g,h,i)perylene (SIM)	ND	2.5	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Benzo(k)fluoranthene (SIM)	ND	1.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Chrysene (SIM)	ND	1.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Dibenz(a,h)anthracene (SIM)	ND	1.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Fluoranthene (SIM)	ND	2.5	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Fluorene (SIM)	ND	5.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	1.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
2-Methylnaphthalene (SIM)	ND	5.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Naphthalene (SIM)	ND	5.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Pentachlorophenol (SIM)	310	5.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Phenanthrene (SIM)	ND	0.25	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR
Pyrene (SIM)	ND	5.0	µg/L	5		SW-846 8270E	11/17/21	11/18/21 21:34	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	32.7	15-110		11/18/21 21:34
Phenol-d6 (SIM)	27.3	15-110		11/18/21 21:34
Nitrobenzene-d5	42.2	30-130		11/18/21 21:34
2-Fluorobiphenyl	41.1	30-130		11/18/21 21:34
2,4,6-Tribromophenol (SIM)	68.2	15-110		11/18/21 21:34
p-Terphenyl-d14	85.9	30-130		11/18/21 21:34

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: Well | Sampled: 11/11/2021 13:00

Sample ID: 21K0824-09

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Acenaphthylene (SIM)	ND	0.31	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Benzo(a)anthracene (SIM)	ND	0.051	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Benzo(b)fluoranthene (SIM)	ND	0.051	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.51	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Fluoranthene (SIM)	ND	0.51	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Pentachlorophenol (SIM)	110	10	µg/L	10		SW-846 8270E	11/17/21	11/19/21 12:45	IMR
Phenanthrene (SIM)	ND	0.051	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:52	IMR

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	18.3		15-110		11/19/21 10:52
2-Fluorophenol (SIM)	**14.4**	*	15-110	S-07	11/19/21 12:45
Phenol-d6 (SIM)	21.2		15-110		11/19/21 10:52
Phenol-d6 (SIM)	16.4		15-110		11/19/21 12:45
Nitrobenzene-d5	**28.8**	*	30-130	S-07	11/19/21 10:52
Nitrobenzene-d5	**21.8**	*	30-130	S-07	11/19/21 12:45
2-Fluorobiphenyl	36.7		30-130		11/19/21 10:52
2-Fluorobiphenyl	30.1		30-130		11/19/21 12:45
2,4,6-Tribromophenol (SIM)	81.1		15-110		11/19/21 10:52
2,4,6-Tribromophenol (SIM)	60.8		15-110		11/19/21 12:45
p-Terphenyl-d14	89.0		30-130		11/19/21 10:52
p-Terphenyl-d14	70.3		30-130		11/19/21 12:45

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: MW-7 | Sampled: 11/11/2021 12:45

Sample ID: 21K0824-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Acenaphthylene (SIM)	ND	0.31	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Benzo(a)anthracene (SIM)	0.056	0.051	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Benzo(b)fluoranthene (SIM)	0.067	0.051	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.51	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Benzo(k)fluoranthene (SIM)	ND	0.21	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Chrysene (SIM)	ND	0.21	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Fluoranthene (SIM)	ND	0.51	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.21	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Pentachlorophenol (SIM)	41	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Phenanthrene (SIM)	ND	0.051	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:15	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	28.0	15-110		11/19/21 11:15
Phenol-d6 (SIM)	23.5	15-110		11/19/21 11:15
Nitrobenzene-d5	31.5	30-130		11/19/21 11:15
2-Fluorobiphenyl	33.4	30-130		11/19/21 11:15
2,4,6-Tribromophenol (SIM)	63.1	15-110		11/19/21 11:15
p-Terphenyl-d14	69.2	30-130		11/19/21 11:15

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: MW-1 | Sampled: 11/11/2021 13:45

Sample ID: 21K0824-11

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Acenaphthylene (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Benzo(a)anthracene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Benzo(a)pyrene (SIM)	ND	0.096	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Benzo(b)fluoranthene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Fluoranthene (SIM)	ND	0.48	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Fluorene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
2-Methylnaphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Naphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Pentachlorophenol (SIM)	210	9.6	µg/L	10		SW-846 8270E	11/17/21	11/19/21 13:08	IMR
Phenanthrene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR
Pyrene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 11:38	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	31.2	15-110		11/19/21 11:38
2-Fluorophenol (SIM)	34.4	15-110		11/19/21 13:08
Phenol-d6 (SIM)	25.5	15-110		11/19/21 11:38
Phenol-d6 (SIM)	27.9	15-110		11/19/21 13:08
Nitrobenzene-d5	39.5	30-130		11/19/21 11:38
Nitrobenzene-d5	45.0	30-130		11/19/21 13:08
2-Fluorobiphenyl	37.9	30-130		11/19/21 11:38
2-Fluorobiphenyl	42.0	30-130		11/19/21 13:08
2,4,6-Tribromophenol (SIM)	70.7	15-110		11/19/21 11:38
2,4,6-Tribromophenol (SIM)	76.3	15-110		11/19/21 13:08
p-Terphenyl-d14	73.3	30-130		11/19/21 11:38
p-Terphenyl-d14	86.5	30-130		11/19/21 13:08

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: Influent | Sampled: 11/11/2021 14:25

Sample ID: 21K0824-12

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Benzo(a)anthracene (SIM)	ND	0.051	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Benzo(b)fluoranthene (SIM)	ND	0.051	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.51	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Fluoranthene (SIM)	ND	0.51	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Pentachlorophenol (SIM)	95	10	µg/L	10		SW-846 8270E	11/17/21	11/19/21 13:31	IMR
Phenanthrene (SIM)	ND	0.051	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:00	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	28.4	15-110		11/19/21 12:00
2-Fluorophenol (SIM)	27.8	15-110		11/19/21 13:31
Phenol-d6 (SIM)	23.1	15-110		11/19/21 12:00
Phenol-d6 (SIM)	22.3	15-110		11/19/21 13:31
Nitrobenzene-d5	40.8	30-130		11/19/21 12:00
Nitrobenzene-d5	40.0	30-130		11/19/21 13:31
2-Fluorobiphenyl	39.4	30-130		11/19/21 12:00
2-Fluorobiphenyl	40.6	30-130		11/19/21 13:31
2,4,6-Tribromophenol (SIM)	66.4	15-110		11/19/21 12:00
2,4,6-Tribromophenol (SIM)	60.3	15-110		11/19/21 13:31
p-Terphenyl-d14	72.4	30-130		11/19/21 12:00
p-Terphenyl-d14	70.5	30-130		11/19/21 13:31

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: Midfluent | Sampled: 11/11/2021 14:22

Sample ID: 21K0824-13

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Acenaphthylene (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Benzo(a)anthracene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Benzo(a)pyrene (SIM)	ND	0.096	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Benzo(b)fluoranthene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Fluoranthene (SIM)	ND	0.48	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Fluorene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
2-Methylnaphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Naphthalene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Pentachlorophenol (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Phenanthrene (SIM)	ND	0.048	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR
Pyrene (SIM)	ND	0.96	µg/L	1		SW-846 8270E	11/17/21	11/19/21 12:23	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	30.4	15-110		11/19/21 12:23
Phenol-d6 (SIM)	23.9	15-110		11/19/21 12:23
Nitrobenzene-d5	43.8	30-130		11/19/21 12:23
2-Fluorobiphenyl	42.3	30-130		11/19/21 12:23
2,4,6-Tribromophenol (SIM)	73.3	15-110		11/19/21 12:23
p-Terphenyl-d14	76.8	30-130		11/19/21 12:23

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: Effluent | Sampled: 11/11/2021 14:20

Sample ID: 21K0824-14

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Acenaphthylene (SIM)	ND	0.29	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Benzo(a)anthracene (SIM)	ND	0.049	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Benzo(a)pyrene (SIM)	ND	0.097	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Benzo(b)fluoranthene (SIM)	ND	0.049	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.49	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Fluoranthene (SIM)	ND	0.49	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Fluorene (SIM)	ND	0.97	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.19	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
2-Methylnaphthalene (SIM)	ND	0.97	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Naphthalene (SIM)	ND	0.97	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Pentachlorophenol (SIM)	ND	0.97	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Phenanthrene (SIM)	ND	0.049	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR
Pyrene (SIM)	ND	0.97	µg/L	1		SW-846 8270E	11/17/21	11/19/21 10:28	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2-Fluorophenol (SIM)	34.9	15-110		11/19/21 10:28	
Phenol-d6 (SIM)	29.3	15-110		11/19/21 10:28	
Nitrobenzene-d5	58.6	30-130		11/19/21 10:28	
2-Fluorobiphenyl	56.7	30-130		11/19/21 10:28	
2,4,6-Tribromophenol (SIM)	79.2	15-110		11/19/21 10:28	
p-Terphenyl-d14	92.5	30-130		11/19/21 10:28	

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21K0824

Date Received: 11/12/2021

Field Sample #: Sump | Sampled: 11/11/2021 14:35

Sample ID: 21K0824-15

Sample Matrix: Ground Water

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	3.0	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Acenaphthylene (SIM)	ND	3.0	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Anthracene (SIM)	ND	2.0	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Benzo(a)anthracene (SIM)	ND	0.50	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Benzo(a)pyrene (SIM)	ND	1.0	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Benzo(b)fluoranthene (SIM)	ND	0.50	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Benzo(g,h,i)perylene (SIM)	ND	5.0	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Benzo(k)fluoranthene (SIM)	ND	2.0	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Chrysene (SIM)	ND	2.0	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Dibenz(a,h)anthracene (SIM)	ND	2.0	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Fluoranthene (SIM)	ND	5.0	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Fluorene (SIM)	ND	10	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	2.0	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
2-Methylnaphthalene (SIM)	ND	10	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Naphthalene (SIM)	ND	10	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Pentachlorophenol (SIM)	7500	100	µg/L	100		SW-846 8270E	11/17/21	11/19/21 12:39	IMR
Phenanthrene (SIM)	ND	0.50	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR
Pyrene (SIM)	ND	10	µg/L	10		SW-846 8270E	11/17/21	11/19/21 11:30	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	34.3	15-110		11/19/21 11:30
2-Fluorophenol (SIM)	30.6	15-110		11/19/21 12:39
Phenol-d6 (SIM)	30.5	15-110		11/19/21 11:30
Phenol-d6 (SIM)	26.6	15-110		11/19/21 12:39
Nitrobenzene-d5	52.6	30-130		11/19/21 11:30
Nitrobenzene-d5	49.9	30-130		11/19/21 12:39
2-Fluorobiphenyl	51.8	30-130		11/19/21 11:30
2-Fluorobiphenyl	50.6	30-130		11/19/21 12:39
2,4,6-Tribromophenol (SIM)	80.8	15-110		11/19/21 11:30
2,4,6-Tribromophenol (SIM)	71.2	15-110		11/19/21 12:39
p-Terphenyl-d14	77.1	30-130		11/19/21 11:30
p-Terphenyl-d14	73.9	30-130		11/19/21 12:39

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Sample Extraction Data

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21K0824-01 [MW-9]	B294880	1020	1.00	11/17/21
21K0824-02 [MW-10]	B294880	1040	1.00	11/17/21
21K0824-03 [MW-2]	B294880	1040	1.00	11/17/21
21K0824-04 [MW-3]	B294880	995	1.00	11/17/21
21K0824-05 [MW-4]	B294880	960	1.00	11/17/21
21K0824-06 [MW-8]	B294880	1060	1.00	11/17/21
21K0824-07 [MW-5]	B294880	1000	1.00	11/17/21
21K0824-08 [MW-6]	B294880	995	1.00	11/17/21
21K0824-09 [Well]	B294880	980	1.00	11/17/21
21K0824-09RE1 [Well]	B294880	980	1.00	11/17/21
21K0824-10 [MW-7]	B294880	975	1.00	11/17/21
21K0824-11 [MW-1]	B294880	1040	1.00	11/17/21
21K0824-11RE1 [MW-1]	B294880	1040	1.00	11/17/21
21K0824-12 [Influent]	B294880	990	1.00	11/17/21
21K0824-12RE1 [Influent]	B294880	990	1.00	11/17/21
21K0824-13 [Midfluent]	B294880	1040	1.00	11/17/21
21K0824-14 [Effluent]	B294880	1030	1.00	11/17/21
21K0824-15 [Sump]	B294880	1000	1.00	11/17/21
21K0824-15RE1 [Sump]	B294880	1000	1.00	11/17/21

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B294880 - SW-846 3510C										
Blank (B294880-BLK1)				Prepared: 11/17/21 Analyzed: 11/18/21						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Pentachlorophenol (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: 2-Fluorophenol (SIM)	*66.6*		µg/L	200		33.3	15-110			
Surrogate: Phenol-d6 (SIM)	*54.4*		µg/L	200		27.2	15-110			
Surrogate: Nitrobenzene-d5	*49.3*		µg/L	100		49.3	30-130			
Surrogate: 2-Fluorobiphenyl	*48.6*		µg/L	100		48.6	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*160*		µg/L	200		80.2	15-110			
Surrogate: p-Terphenyl-d14	*90.6*		µg/L	100		90.6	30-130			
LCS (B294880-BS1)				Prepared: 11/17/21 Analyzed: 11/18/21						
Acenaphthene (SIM)	25.5	6.0	µg/L	50.0		51.0	40-140			
Acenaphthylene (SIM)	28.4	6.0	µg/L	50.0		56.8	40-140			
Anthracene (SIM)	35.6	4.0	µg/L	50.0		71.2	40-140			
Benzo(a)anthracene (SIM)	37.0	1.0	µg/L	50.0		73.9	40-140			
Benzo(a)pyrene (SIM)	35.2	2.0	µg/L	50.0		70.4	40-140			
Benzo(b)fluoranthene (SIM)	36.5	1.0	µg/L	50.0		73.0	40-140			
Benzo(g,h,i)perylene (SIM)	31.7	10	µg/L	50.0		63.4	40-140			
Benzo(k)fluoranthene (SIM)	37.3	4.0	µg/L	50.0		74.6	40-140			
Chrysene (SIM)	37.2	4.0	µg/L	50.0		74.5	40-140			
Dibenz(a,h)anthracene (SIM)	33.9	4.0	µg/L	50.0		67.8	40-140			
Fluoranthene (SIM)	32.7	10	µg/L	50.0		65.4	40-140			
Fluorene (SIM)	28.7	20	µg/L	50.0		57.5	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	35.1	4.0	µg/L	50.0		70.1	40-140			
2-Methylnaphthalene (SIM)	28.9	20	µg/L	50.0		57.8	40-140			
Naphthalene (SIM)	23.6	20	µg/L	50.0		47.3	40-140			
Pentachlorophenol (SIM)	35.6	20	µg/L	50.0		71.2	40-140			
Phenanthrene (SIM)	33.2	1.0	µg/L	50.0		66.3	40-140			
Pyrene (SIM)	33.6	20	µg/L	50.0		67.1	40-140			
Surrogate: 2-Fluorophenol (SIM)	*65.4*		µg/L	200		32.7	15-110			
Surrogate: Phenol-d6 (SIM)	*56.5*		µg/L	200		28.2	15-110			
Surrogate: Nitrobenzene-d5	*49.0*		µg/L	100		49.0	30-130			
Surrogate: 2-Fluorobiphenyl	*50.0*		µg/L	100		50.0	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*147*		µg/L	200		73.6	15-110			
Surrogate: p-Terphenyl-d14	*82.2*		µg/L	100		82.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B294880 - SW-846 3510C										
LCS Dup (B294880-BSD1)				Prepared: 11/17/21 Analyzed: 11/18/21						
Acenaphthene (SIM)	27.6	6.0	µg/L	50.0		55.2	40-140	8.06	20	
Acenaphthylene (SIM)	30.5	6.0	µg/L	50.0		61.1	40-140	7.19	20	
Anthracene (SIM)	36.8	4.0	µg/L	50.0		73.7	40-140	3.37	20	
Benzo(a)anthracene (SIM)	38.8	1.0	µg/L	50.0		77.5	40-140	4.75	20	
Benzo(a)pyrene (SIM)	36.8	2.0	µg/L	50.0		73.6	40-140	4.50	20	
Benzo(b)fluoranthene (SIM)	37.7	1.0	µg/L	50.0		75.4	40-140	3.18	20	
Benzo(g,h,i)perylene (SIM)	35.2	10	µg/L	50.0		70.4	40-140	10.5	20	
Benzo(k)fluoranthene (SIM)	39.2	4.0	µg/L	50.0		78.4	40-140	5.02	20	
Chrysene (SIM)	39.0	4.0	µg/L	50.0		78.1	40-140	4.72	20	
Dibenz(a,h)anthracene (SIM)	36.8	4.0	µg/L	50.0		73.6	40-140	8.09	20	
Fluoranthene (SIM)	34.7	10	µg/L	50.0		69.4	40-140	5.94	20	
Fluorene (SIM)	30.5	20	µg/L	50.0		61.1	40-140	6.07	20	
Indeno(1,2,3-cd)pyrene (SIM)	38.1	4.0	µg/L	50.0		76.2	40-140	8.26	20	‡
2-Methylnaphthalene (SIM)	32.8	20	µg/L	50.0		65.6	40-140	12.7	20	
Naphthalene (SIM)	27.5	20	µg/L	50.0		54.9	40-140	15.0	20	
Pentachlorophenol (SIM)	36.7	20	µg/L	50.0		73.5	40-140	3.21	20	
Phenanthrene (SIM)	34.6	1.0	µg/L	50.0		69.1	40-140	4.13	20	
Pyrene (SIM)	34.7	20	µg/L	50.0		69.3	40-140	3.22	20	
Surrogate: 2-Fluorophenol (SIM)	*70.8*		µg/L	200		35.4	15-110			
Surrogate: Phenol-d6 (SIM)	*60.9*		µg/L	200		30.4	15-110			
Surrogate: Nitrobenzene-d5	*50.5*		µg/L	100		50.5	30-130			
Surrogate: 2-Fluorobiphenyl	*50.9*		µg/L	100		50.9	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*156*		µg/L	200		78.0	15-110			
Surrogate: p-Terphenyl-d14	*86.0*		µg/L	100		86.0	30-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
RL-08	Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

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 8270E in Water	
Nitrobenzene-d5	VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

21K0824

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 5_07/13/2021

Page 1 of 2

Company Name:	Tighe & Bond
Address:	53 Southampton Rd
Phone:	413-562-1600
Project Name:	Mallard Cove
Project Location:	Cheshire, MA
Project Number:	NT5067-115
Project Manager:	Matt Abraham
Pace Quote Name/Number:	See National Grid
Invoice Recipient:	T+B
Sampled By:	Nick Guidi, Peter Topor

Requested Turnaround Time
7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date: 11/19

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

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	8270-SIM PCP*
1	MW-9	11/11/21	1000	G	GW	L		2				✓
2	MW-10	11/11/21	1000	G		L		2				✓
3	MW-2	11/11/21	1130	G		L		2				✓
4	MW-3	11/11/21	1110	G		L		2				✓
5	MW-4	11/11/21	1140	G		L		2				✓
6	MW-8	11/11/21	1200	G		L		2				✓
7	MW-5	11/11/21	1207	G		M		2				✓
8	MW-6	11/11/21	1235	G		M		2				✓
9	Well	11/11/21	1300	G		M		2				✓
10	MW-7	11/11/21	1245	G	↓	M		2				✓

[2] Preservation Code

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

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

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

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

Relinquished by: (signature)	Date/Time:
	11/12/21 0945
Received by: (signature)	Date/Time:
	11/12/21 945
Relinquished by: (signature)	Date/Time:
	11/12 1345
Received by: (signature)	Date/Time:
	11/12/21 1345
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:
*Achieve GW-1 RLs for Pentachlorophenol (PCP) using 8270/SIM
Use National Grid rates

Detection Limit Requirements
MA: GW-1
GW:
Other:

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

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

NELAC and AIHA-LAP, LLC Accredited

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

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Comments:

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

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21K0824

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 5_07/13/2021

Company Name:
Address:
Phone:
Project Name:
Project Location: See P.1
Project Number:
Project Manager:
Pace Quote Name/Number:
Invoice Recipient:
Sampled By:

Requested Turnaround Time
7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date: 11/19

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: Nick Guidi
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	I	8270/SIM - PCP *
11	MW-1	11/11/21	1345	G	GW	M/H		2					✓
12	Influent	11/11/21	1425	G		M		2					✓
13	Midfluent	11/11/21	1422	G		L		2					✓
14	Effluent	11/11/21	1420	G		L		2					✓
15	Sump	11/11/21	1435	G	V	H		2					✓

Relinquished by: (signature) — Date/Time: 11/12/21 0845
Received by: (signature) — Date/Time: 11/12/21 845
Relinquished by: (signature) — Date/Time: 11/12 1345
Received by: (signature) — Date/Time: 2.0 11/12/21 1345
Relinquished by: (signature) — Date/Time:
Received by: (signature) — Date/Time:
Relinquished by: (signature) — Date/Time:
Received by: (signature) — Date/Time:

Client Comments:
* See P.1 - Use National Grid rates
- Decant "Sump" Sample

Detection Limit Requirements
MA: GW-1
GW1:
Other:

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

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

NELAC and AIHA-LAP, LLC Accredited

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

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Comments:

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

[2] Preservation Code
Courier Use Only
Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

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

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

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I = Iced
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S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Tighe + Bond

Received By _____ Date 11/12/21 Time 1345

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

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp -2.0 By Blank # _____ Actual Temp -

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a

Was COC Relinquished ? T Does Chain Agree With Samples? T

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? n/a MS/MSD? F

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

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid n/a Base n/a

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

Unused Media

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

Comments:

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A Pace Analytical® Laboratory

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June 7, 2021

Matt Abraham
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Project Location: Cheshire, MA
Client Job Number:
Project Number: N-5067-115-04
Laboratory Work Order Number: 21E1672

Enclosed are results of analyses for samples received by the laboratory on May 27, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

Table of Contents

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

Tighe & Bond
53 Southampton Road
Westfield, MA 01085
ATTN: Matt Abraham

REPORT DATE: 6/7/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: N-5067-115-04

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21E1672

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

PROJECT LOCATION: Cheshire, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-2	21E1672-01	Ground Water		SW-846 8270D-E	
MW-10	21E1672-02	Ground Water		SW-846 8270D-E	
MW-9	21E1672-03	Ground Water		SW-846 8270D-E	
MW-8	21E1672-04	Ground Water		SW-846 8270D-E	
MW-7	21E1672-05	Ground Water		SW-846 8270D-E	
Well	21E1672-06	Ground Water		SW-846 8270D-E	
MW-3	21E1672-07	Ground Water		SW-846 8270D-E	
MW-4	21E1672-08	Ground Water		SW-846 8270D-E	
MW-5	21E1672-09	Ground Water		SW-846 8270D-E	
MW-6	21E1672-10	Ground Water		SW-846 8270D-E	
Sump	21E1672-11	Ground Water		SW-846 8270D-E	
MW-1	21E1672-12	Ground Water		SW-846 8270D-E	

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CASE NARRATIVE SUMMARY

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

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

Lisa A. Worthington
Technical Representative

con-test® A Pace Analytical® Laboratory

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

Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: MW-2 | Sampled: 5/27/2021 10:30

Sample ID: 21E1672-01

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 (SIM)	ND	0.30	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Pentachlorophenol (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:08	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	35.6	15-110		6/4/21 16:08
Phenol-d6 (SIM)	34.7	15-110		6/4/21 16:08
Nitrobenzene-d5	60.0	30-130		6/4/21 16:08
2-Fluorobiphenyl	54.5	30-130		6/4/21 16:08
2,4,6-Tribromophenol (SIM)	73.9	15-110		6/4/21 16:08
p-Terphenyl-d14	66.1	30-130		6/4/21 16:08

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: MW-10 | Sampled: 5/27/2021 11:30

Sample ID: 21E1672-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Acenaphthylene (SIM)	ND	0.29	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Benzo(a)anthracene (SIM)	ND	0.048	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Benzo(a)pyrene (SIM)	ND	0.097	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Benzo(b)fluoranthene (SIM)	ND	0.048	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Benzo(k)fluoranthene (SIM)	ND	0.19	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Chrysene (SIM)	ND	0.19	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.19	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Fluoranthene (SIM)	ND	0.48	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Fluorene (SIM)	ND	0.97	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.19	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
2-Methylnaphthalene (SIM)	ND	0.97	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Naphthalene (SIM)	ND	0.97	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Pentachlorophenol (SIM)	ND	0.97	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Phenanthrene (SIM)	ND	0.048	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR
Pyrene (SIM)	ND	0.97	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:31	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	32.8	15-110		6/4/21 16:31
Phenol-d6 (SIM)	30.7	15-110		6/4/21 16:31
Nitrobenzene-d5	59.2	30-130		6/4/21 16:31
2-Fluorobiphenyl	48.1	30-130		6/4/21 16:31
2,4,6-Tribromophenol (SIM)	71.6	15-110		6/4/21 16:31
p-Terphenyl-d14	58.3	30-130		6/4/21 16:31

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

Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: MW-9 | Sampled: 5/27/2021 12:20

Sample ID: 21E1672-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Acenaphthylene (SIM)	ND	0.29	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Benzo(a)anthracene (SIM)	ND	0.049	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Benzo(a)pyrene (SIM)	ND	0.098	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Benzo(b)fluoranthene (SIM)	ND	0.049	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.49	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Fluoranthene (SIM)	ND	0.49	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Fluorene (SIM)	ND	0.98	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
2-Methylnaphthalene (SIM)	ND	0.98	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Naphthalene (SIM)	ND	0.98	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Pentachlorophenol (SIM)	ND	0.98	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Phenanthrene (SIM)	ND	0.049	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR
Pyrene (SIM)	ND	0.98	µg/L	1		SW-846 8270D-E	6/3/21	6/4/21 16:54	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	38.5	15-110		6/4/21 16:54
Phenol-d6 (SIM)	35.7	15-110		6/4/21 16:54
Nitrobenzene-d5	62.4	30-130		6/4/21 16:54
2-Fluorobiphenyl	55.7	30-130		6/4/21 16:54
2,4,6-Tribromophenol (SIM)	74.3	15-110		6/4/21 16:54
p-Terphenyl-d14	61.3	30-130		6/4/21 16:54

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: MW-8 | Sampled: 5/27/2021 13:15

Sample ID: 21E1672-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Benzo(a)anthracene (SIM)	ND	0.049	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Benzo(a)pyrene (SIM)	ND	0.099	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Benzo(b)fluoranthene (SIM)	ND	0.049	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Benzo(g,h,i)perylene (SIM)	ND	0.49	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Fluoranthene (SIM)	ND	0.49	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Fluorene (SIM)	ND	0.99	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
2-Methylnaphthalene (SIM)	ND	0.99	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Naphthalene (SIM)	ND	0.99	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Pentachlorophenol (SIM)	3.2	0.99	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Phenanthrene (SIM)	ND	0.049	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM
Pyrene (SIM)	ND	0.99	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 10:50	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	37.2	15-110		6/5/21 10:50
Phenol-d6 (SIM)	34.3	15-110		6/5/21 10:50
Nitrobenzene-d5	64.5	30-130		6/5/21 10:50
2-Fluorobiphenyl	56.6	30-130		6/5/21 10:50
2,4,6-Tribromophenol (SIM)	78.0	15-110		6/5/21 10:50
p-Terphenyl-d14	68.6	30-130		6/5/21 10:50

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: MW-7 | Sampled: 5/27/2021 14:10

Sample ID: 21E1672-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Acenaphthylene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Benzo(a)anthracene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Benzo(b)fluoranthene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Benzo(g,h,i)perylene (SIM)	ND	0.52	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Benzo(k)fluoranthene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Chrysene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Dibenz(a,h)anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Fluoranthene (SIM)	ND	0.52	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Pentachlorophenol (SIM)	230	21	µg/L	20		SW-846 8270D-E	6/3/21	6/5/21 15:45	SFM
Phenanthrene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:13	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	30.8	15-110		6/5/21 11:13
2-Fluorophenol (SIM)	31.3	15-110		6/5/21 15:45
Phenol-d6 (SIM)	29.0	15-110		6/5/21 11:13
Phenol-d6 (SIM)	29.0	15-110		6/5/21 15:45
Nitrobenzene-d5	63.8	30-130		6/5/21 11:13
Nitrobenzene-d5	67.8	30-130		6/5/21 15:45
2-Fluorobiphenyl	63.4	30-130		6/5/21 11:13
2-Fluorobiphenyl	67.4	30-130		6/5/21 15:45
2,4,6-Tribromophenol (SIM)	86.1	15-110		6/5/21 11:13
2,4,6-Tribromophenol (SIM)	80.0	15-110		6/5/21 15:45
p-Terphenyl-d14	74.8	30-130		6/5/21 11:13
p-Terphenyl-d14	69.8	30-130		6/5/21 15:45

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: Well | Sampled: 5/27/2021 14:20

Sample ID: 21E1672-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Benzo(a)anthracene (SIM)	ND	0.049	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Benzo(a)pyrene (SIM)	ND	0.099	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Benzo(b)fluoranthene (SIM)	ND	0.049	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Benzo(g,h,i)perylene (SIM)	ND	0.49	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Fluoranthene (SIM)	ND	0.49	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Fluorene (SIM)	ND	0.99	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
2-Methylnaphthalene (SIM)	ND	0.99	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Naphthalene (SIM)	ND	0.99	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Pentachlorophenol (SIM)	7.7	0.99	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Phenanthrene (SIM)	ND	0.049	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM
Pyrene (SIM)	ND	0.99	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:36	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	27.6	15-110		6/5/21 11:36
Phenol-d6 (SIM)	25.6	15-110		6/5/21 11:36
Nitrobenzene-d5	55.6	30-130		6/5/21 11:36
2-Fluorobiphenyl	55.8	30-130		6/5/21 11:36
2,4,6-Tribromophenol (SIM)	80.4	15-110		6/5/21 11:36
p-Terphenyl-d14	70.7	30-130		6/5/21 11:36

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: MW-3 | Sampled: 5/27/2021 10:35

Sample ID: 21E1672-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Acenaphthylene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Benzo(a)anthracene (SIM)	ND	0.051	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Benzo(b)fluoranthene (SIM)	ND	0.051	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Benzo(g,h,i)perylene (SIM)	ND	0.51	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Fluoranthene (SIM)	ND	0.51	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Pentachlorophenol (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Phenanthrene (SIM)	ND	0.051	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 11:58	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	44.0	15-110		6/5/21 11:58
Phenol-d6 (SIM)	39.5	15-110		6/5/21 11:58
Nitrobenzene-d5	88.3	30-130		6/5/21 11:58
2-Fluorobiphenyl	75.1	30-130		6/5/21 11:58
2,4,6-Tribromophenol (SIM)	105	15-110		6/5/21 11:58
p-Terphenyl-d14	94.9	30-130		6/5/21 11:58

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: MW-4 | Sampled: 5/27/2021 11:18

Sample ID: 21E1672-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Benzo(a)anthracene (SIM)	ND	0.051	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Benzo(b)fluoranthene (SIM)	ND	0.051	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Benzo(g,h,i)perylene (SIM)	ND	0.51	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Fluoranthene (SIM)	ND	0.51	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Pentachlorophenol (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Phenanthrene (SIM)	ND	0.051	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:21	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	31.6	15-110		6/5/21 12:21
Phenol-d6 (SIM)	28.8	15-110		6/5/21 12:21
Nitrobenzene-d5	63.5	30-130		6/5/21 12:21
2-Fluorobiphenyl	61.8	30-130		6/5/21 12:21
2,4,6-Tribromophenol (SIM)	82.5	15-110		6/5/21 12:21
p-Terphenyl-d14	77.8	30-130		6/5/21 12:21

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: MW-5 | Sampled: 5/27/2021 12:17

Sample ID: 21E1672-09

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Acenaphthylene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Benzo(a)anthracene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Benzo(b)fluoranthene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Benzo(g,h,i)perylene (SIM)	ND	0.52	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Benzo(k)fluoranthene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Chrysene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Dibenz(a,h)anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Fluoranthene (SIM)	ND	0.52	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Pentachlorophenol (SIM)	190	21	µg/L	20		SW-846 8270D-E	6/3/21	6/5/21 16:08	SFM
Phenanthrene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 12:44	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	33.5	15-110		6/5/21 12:44
2-Fluorophenol (SIM)	26.8	15-110		6/5/21 16:08
Phenol-d6 (SIM)	30.9	15-110		6/5/21 12:44
Phenol-d6 (SIM)	24.5	15-110		6/5/21 16:08
Nitrobenzene-d5	65.5	30-130		6/5/21 12:44
Nitrobenzene-d5	55.5	30-130		6/5/21 16:08
2-Fluorobiphenyl	56.8	30-130		6/5/21 12:44
2-Fluorobiphenyl	55.0	30-130		6/5/21 16:08
2,4,6-Tribromophenol (SIM)	78.4	15-110		6/5/21 12:44
2,4,6-Tribromophenol (SIM)	58.3	15-110		6/5/21 16:08
p-Terphenyl-d14	69.6	30-130		6/5/21 12:44
p-Terphenyl-d14	55.4	30-130		6/5/21 16:08

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

Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: MW-6 | Sampled: 5/27/2021 13:09

Sample ID: 21E1672-10

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Acenaphthylene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Benzo(a)anthracene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Benzo(b)fluoranthene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Benzo(g,h,i)perylene (SIM)	ND	0.52	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Benzo(k)fluoranthene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Chrysene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Dibenz(a,h)anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Fluoranthene (SIM)	ND	0.52	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Pentachlorophenol (SIM)	110	10	µg/L	10		SW-846 8270D-E	6/3/21	6/5/21 16:30	SFM
Phenanthrene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:06	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	29.2	15-110		6/5/21 13:06
2-Fluorophenol (SIM)	24.4	15-110		6/5/21 16:30
Phenol-d6 (SIM)	28.1	15-110		6/5/21 13:06
Phenol-d6 (SIM)	23.6	15-110		6/5/21 16:30
Nitrobenzene-d5	59.5	30-130		6/5/21 13:06
Nitrobenzene-d5	52.9	30-130		6/5/21 16:30
2-Fluorobiphenyl	57.5	30-130		6/5/21 13:06
2-Fluorobiphenyl	56.5	30-130		6/5/21 16:30
2,4,6-Tribromophenol (SIM)	75.9	15-110		6/5/21 13:06
2,4,6-Tribromophenol (SIM)	63.4	15-110		6/5/21 16:30
p-Terphenyl-d14	71.5	30-130		6/5/21 13:06
p-Terphenyl-d14	58.3	30-130		6/5/21 16:30

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

Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: Sump | Sampled: 5/27/2021 13:58

Sample ID: 21E1672-11

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Acenaphthylene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Benzo(a)anthracene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Benzo(b)fluoranthene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.52	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Benzo(k)fluoranthene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Chrysene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Fluoranthene (SIM)	ND	0.52	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
2-Methylnaphthalene (SIM)	3.6	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Naphthalene (SIM)	4.0	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Pentachlorophenol (SIM)	9000	210	µg/L	200		SW-846 8270D-E	6/3/21	6/5/21 16:53	SFM
Phenanthrene (SIM)	0.13	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:29	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	38.4	15-110		6/5/21 13:29
2-Fluorophenol (SIM)	33.5	15-110		6/5/21 16:53
Phenol-d6 (SIM)	37.8	15-110		6/5/21 13:29
Phenol-d6 (SIM)	31.8	15-110		6/5/21 16:53
Nitrobenzene-d5	71.8	30-130		6/5/21 13:29
Nitrobenzene-d5	74.4	30-130		6/5/21 16:53
2-Fluorobiphenyl	41.8	30-130		6/5/21 13:29
2-Fluorobiphenyl	68.4	30-130		6/5/21 16:53
2,4,6-Tribromophenol (SIM)	66.9	15-110		6/5/21 13:29
2,4,6-Tribromophenol (SIM)	77.0	15-110		6/5/21 16:53
p-Terphenyl-d14	74.3	30-130		6/5/21 13:29
p-Terphenyl-d14	85.0	30-130		6/5/21 16:53

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21E1672

Date Received: 5/27/2021

Field Sample #: MW-1 | Sampled: 5/27/2021 00:00

Sample ID: 21E1672-12

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Acenaphthylene (SIM)	ND	0.31	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Benzo(a)anthracene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Benzo(b)fluoranthene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.52	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Benzo(k)fluoranthene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Chrysene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Fluoranthene (SIM)	ND	0.52	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.21	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
2-Methylnaphthalene (SIM)	3.9	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Naphthalene (SIM)	4.9	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Pentachlorophenol (SIM)	2300	210	µg/L	200		SW-846 8270D-E	6/3/21	6/5/21 17:16	SFM
Phenanthrene (SIM)	ND	0.052	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D-E	6/3/21	6/5/21 13:52	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	38.2	15-110		6/5/21 13:52
2-Fluorophenol (SIM)	31.4	15-110		6/5/21 17:16
Phenol-d6 (SIM)	35.6	15-110		6/5/21 13:52
Phenol-d6 (SIM)	29.0	15-110		6/5/21 17:16
Nitrobenzene-d5	69.2	30-130		6/5/21 13:52
Nitrobenzene-d5	60.8	30-130		6/5/21 17:16
2-Fluorobiphenyl	54.0	30-130		6/5/21 13:52
2-Fluorobiphenyl	63.4	30-130		6/5/21 17:16
2,4,6-Tribromophenol (SIM)	76.9	15-110		6/5/21 13:52
2,4,6-Tribromophenol (SIM)	64.0	15-110		6/5/21 17:16
p-Terphenyl-d14	67.3	30-130		6/5/21 13:52
p-Terphenyl-d14	65.2	30-130		6/5/21 17:16

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Sample Extraction Data

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270D-E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21E1672-01 [MW-2]	B283324	1000	1.00	06/03/21
21E1672-02 [MW-10]	B283324	1040	1.00	06/03/21
21E1672-03 [MW-9]	B283324	1020	1.00	06/03/21
21E1672-04 [MW-8]	B283324	1020	1.00	06/03/21
21E1672-05 [MW-7]	B283324	960	1.00	06/03/21
21E1672-05RE1 [MW-7]	B283324	960	1.00	06/03/21
21E1672-06 [Well]	B283324	1020	1.00	06/03/21
21E1672-07 [MW-3]	B283324	980	1.00	06/03/21
21E1672-08 [MW-4]	B283324	990	1.00	06/03/21
21E1672-09 [MW-5]	B283324	960	1.00	06/03/21
21E1672-09RE1 [MW-5]	B283324	960	1.00	06/03/21
21E1672-10 [MW-6]	B283324	970	1.00	06/03/21
21E1672-10RE1 [MW-6]	B283324	970	1.00	06/03/21
21E1672-11 [Sump]	B283324	960	1.00	06/03/21
21E1672-11RE1 [Sump]	B283324	960	1.00	06/03/21
21E1672-12 [MW-1]	B283324	970	1.00	06/03/21
21E1672-12RE1 [MW-1]	B283324	970	1.00	06/03/21

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B283324 - SW-846 3510C										
Blank (B283324-BLK1)				Prepared & Analyzed: 06/03/21						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Pentachlorophenol (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: 2-Fluorophenol (SIM)	*77.5*		µg/L	200		38.8	15-110			
Surrogate: Phenol-d6 (SIM)	*71.6*		µg/L	200		35.8	15-110			
Surrogate: Nitrobenzene-d5	*60.3*		µg/L	100		60.3	30-130			
Surrogate: 2-Fluorobiphenyl	*54.2*		µg/L	100		54.2	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*148*		µg/L	200		74.0	15-110			
Surrogate: p-Terphenyl-d14	*65.7*		µg/L	100		65.7	30-130			
LCS (B283324-BS1)				Prepared & Analyzed: 06/03/21						
Acenaphthene (SIM)	21.0	6.0	µg/L	50.0		41.9	40-140			
Acenaphthylene (SIM)	20.7	6.0	µg/L	50.0		41.4	40-140			
Anthracene (SIM)	24.9	4.0	µg/L	50.0		49.8	40-140			
Benzo(a)anthracene (SIM)	26.8	1.0	µg/L	50.0		53.6	40-140			
Benzo(a)pyrene (SIM)	22.7	2.0	µg/L	50.0		45.4	40-140			
Benzo(b)fluoranthene (SIM)	26.1	1.0	µg/L	50.0		52.3	40-140			
Benzo(g,h,i)perylene (SIM)	23.4	10	µg/L	50.0		46.9	40-140			
Benzo(k)fluoranthene (SIM)	25.8	4.0	µg/L	50.0		51.6	40-140			
Chrysene (SIM)	25.8	4.0	µg/L	50.0		51.7	40-140			
Dibenz(a,h)anthracene (SIM)	23.5	4.0	µg/L	50.0		47.0	40-140			
Fluoranthene (SIM)	23.7	10	µg/L	50.0		47.3	40-140			
Fluorene (SIM)	21.5	20	µg/L	50.0		43.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	24.7	4.0	µg/L	50.0		49.4	40-140			
2-Methylnaphthalene (SIM)	24.4	20	µg/L	50.0		48.8	40-140			
Naphthalene (SIM)	21.3	20	µg/L	50.0		42.6	40-140			
Pentachlorophenol (SIM)	26.1	20	µg/L	50.0		52.2	40-140			
Phenanthrene (SIM)	24.4	1.0	µg/L	50.0		48.7	40-140			
Pyrene (SIM)	24.8	20	µg/L	50.0		49.5	40-140			
Surrogate: 2-Fluorophenol (SIM)	*58.7*		µg/L	200		29.4	15-110			
Surrogate: Phenol-d6 (SIM)	*55.2*		µg/L	200		27.6	15-110			
Surrogate: Nitrobenzene-d5	*49.7*		µg/L	100		49.7	30-130			
Surrogate: 2-Fluorobiphenyl	*46.9*		µg/L	100		46.9	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*101*		µg/L	200		50.5	15-110			
Surrogate: p-Terphenyl-d14	*43.0*		µg/L	100		43.0	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B283324 - SW-846 3510C										
LCS Dup (B283324-BSD1)				Prepared & Analyzed: 06/03/21						
Acenaphthene (SIM)	21.4	6.0	µg/L	50.0		42.8	40-140	2.17	20	
Acenaphthylene (SIM)	21.6	6.0	µg/L	50.0		43.2	40-140	4.35	20	
Anthracene (SIM)	24.9	4.0	µg/L	50.0		49.8	40-140	0.0804	20	
Benzo(a)anthracene (SIM)	27.0	1.0	µg/L	50.0		54.0	40-140	0.744	20	
Benzo(a)pyrene (SIM)	22.7	2.0	µg/L	50.0		45.4	40-140	0.00	20	
Benzo(b)fluoranthene (SIM)	25.8	1.0	µg/L	50.0		51.7	40-140	1.15	20	
Benzo(g,h,i)perylene (SIM)	23.9	10	µg/L	50.0		47.7	40-140	1.78	20	
Benzo(k)fluoranthene (SIM)	26.1	4.0	µg/L	50.0		52.3	40-140	1.23	20	
Chrysene (SIM)	26.9	4.0	µg/L	50.0		53.8	40-140	4.02	20	
Dibenz(a,h)anthracene (SIM)	23.8	4.0	µg/L	50.0		47.5	40-140	1.10	20	
Fluoranthene (SIM)	23.4	10	µg/L	50.0		46.8	40-140	1.19	20	
Fluorene (SIM)	21.8	20	µg/L	50.0		43.6	40-140	1.38	20	
Indeno(1,2,3-cd)pyrene (SIM)	24.6	4.0	µg/L	50.0		49.3	40-140	0.243	20	‡
2-Methylnaphthalene (SIM)	25.6	20	µg/L	50.0		51.2	40-140	4.80	20	
Naphthalene (SIM)	22.4	20	µg/L	50.0		44.9	40-140	5.31	20	
Pentachlorophenol (SIM)	24.9	20	µg/L	50.0		49.9	40-140	4.47	20	
Phenanthrene (SIM)	24.3	1.0	µg/L	50.0		48.6	40-140	0.329	20	
Pyrene (SIM)	25.3	20	µg/L	50.0		50.5	40-140	2.00	20	
Surrogate: 2-Fluorophenol (SIM)	*60.0*		µg/L	200		30.0	15-110			
Surrogate: Phenol-d6 (SIM)	*57.6*		µg/L	200		28.8	15-110			
Surrogate: Nitrobenzene-d5	*50.1*		µg/L	100		50.1	30-130			
Surrogate: 2-Fluorobiphenyl	*45.6*		µg/L	100		45.6	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*98.5*		µg/L	200		49.3	15-110			
Surrogate: p-Terphenyl-d14	*42.5*		µg/L	100		42.5	30-130			

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 is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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-E in Water	
Nitrobenzene-d5	VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

21E1672

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
http://www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 2_06262019

Page 1 of 2

Company Name:	Tighe & Bond
Address:	53 Southampton Rd
Phone:	413-562-1600
Project Name:	Mallard Cove
Project Location:	Cheshire, MA
Project Number:	N-5067-115-04
Project Manager:	Matt Abraham
Con-Test Quote Name/Number:	National Grid Rates
Invoice Recipient:	T&B
Sampled By:	Nick Guidi

Requested Turnaround Time: 7-Day ☐ 10-Day ☐ PFAS 10-Day (std) ☐ Due Date: 6/7

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

Dissolved Metals Samples: ○ Field Filtered ○ Lab to Filter

Orthophosphate Samples: ○ Field Filtered ○ Lab to Filter

Data Delivery: Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: Nick Guidi, Jeff Arps, Matt Abraham
Fax To #:

ANALYSIS REQUESTED

Preservation Code: I
Analysis: 8270-SIM/PCP*

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	8270-SIM/PCP*
1	MW-2	5/27/21	1030	G	GW	L		2				✓
2	MW-10	↓	1130	↓	↓	U		2				✓
3	MW-9	↓	1220	↓	↓	U		2				✓
4	MW-8	↓	1315	↓	↓	U		2				✓
5	MW-7	↓	1410	↓	↓	H		2				✓
6	Well	↓	1420	↓	↓	L		2				✓
7	MW-3	↓	1035	↓	↓	L		2				✓
8	MW-4	↓	1118	↓	↓	L		2				✓
9	MW-5	↓	1217	↓	↓	M		2				✓
10	MW-6	↓	1309	↓	↓	H		2				✓

Signature	Date/Time
Relinquished by: (signature) [signature]	5/27/21 1613
Received by: (signature) [signature]	5/27/21 1613
Relinquished by: (signature) [signature]	5/27/21 1755
Received by: (signature) [signature] 2.6, 4.5	5/27/21 1755
Relinquished by: (signature)	
Received by: (signature)	
Relinquished by: (signature)	
Received by: (signature)	

Client Comments:
* Meet 1 ug/L reporting limits for pentachlorophenol (PCP)
- Use National Grid Rates

Detection Limit Requirements
MA: 1 ug/L PCP
GW-1 for SVOCs
CT:
Other:

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

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

NELAC and AIHA-LAP, LLC Accredited

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

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Courier Use Only
Total Number Of:
VIALS____
GLASS____
PLASTIC____
BACTERIA____
ENCORE____

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

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

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

Comments:

21E1672

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Company Name:
Address:
Phone:
Project Name:
Project Location: See p.1
Project Number:
Project Manager:
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By:

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

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

Dissolved Metals Samples: ○ Field Filtered ○ Lab to Filter

Orthophosphate Samples: ○ Field Filtered ○ Lab to Filter

Data Delivery: Format: PDF ☐ EXCEL ☐ Other: CLP Like Data Pkg Required: ☐ Email To: Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	8270-SIM/PCP*
11	Sump	5/27/21	1358	G	GW	H		1				✓
12	MW-1	5/27/21		G	GW	H		1				✓

[2] Preservation Code

Courier Use Only
Total Number Of:
VIALS___
GLASS___
PLASTIC___
BACTERIA___
ENCORE___

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

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

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

Signature	Date/Time
Relinquished by: (signature) [signature]	5/27/21 1613
Received by: (signature) [signature]	5/27/21 1613
Relinquished by: (signature) [signature]	5/27/21 1755
Received by: (signature) [signature] 2.8, 4.3	5/27/21 1755
Relinquished by: (signature)	
Received by: (signature)	
Relinquished by: (signature)	
Received by: (signature)	

Client Comments: * See p.1

Detection Limit Requirements
MA: 1 µg/L - PCP
GW-1 for SVOCs
CT:
Other:

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

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

NELAC and AIHA-LAP, LLC Accredited

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

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Comments:

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Tighe & Bond

Received By CL Date 5/27/21 Time 1755

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

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 2.8, 4.3

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

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

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

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? E

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

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	24	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test, a Pace Analytical Laboratory	Project #: 21E1672
Project Location: Cheshire, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

21E1672-01 thru 21E1672-12

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP VPH CAM IV C ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	MassDEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

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

Signature: Lisa Worthington Position: Technical Representative

Printed Name: Lisa A. Worthington Date: 06/07/21

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

January 27, 2021

Matt Abraham
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Project Location: Cheshire, MA
Client Job Number:
Project Number: N-5067-115
Laboratory Work Order Number: 21A1017

Enclosed are results of analyses for samples received by the laboratory on January 22, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

Table of Contents

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

Tighe & Bond
53 Southampton Road
Westfield, MA 01085
ATTN: Matt Abraham

REPORT DATE: 1/27/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: N-5067-115

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21A1017

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

PROJECT LOCATION: Cheshire, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Sump	21A1017-01	Ground Water		SW-846 8270D-E	

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.

SW-846 8270D-E

Qualifications:

RL-08

Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

21A1017-01[Sump]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
21A1017-01RE2[Sump]

2-Fluorobiphenyl
21A1017-01RE2[Sump]

2-Fluorophenol
21A1017-01RE2[Sump]

Nitrobenzene-d5
21A1017-01RE2[Sump]

Phenol-d6
21A1017-01RE2[Sump]

p-Terphenyl-d14
21A1017-01RE2[Sump]

V-06

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
21A1017-01[Sump], B275219-BLK1, B275219-BS1, B275219-BSD1, S056516-CCV1

2-Nitrophenol
21A1017-01[Sump], B275219-BLK1, B275219-BS1, B275219-BSD1, S056516-CCV1

V-34

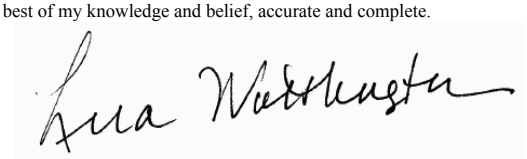
Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

4-Chloroaniline
21A1017-01[Sump], B275219-BLK1, B275219-BS1, B275219-BSD1, S056516-CCV1

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

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



Lisa A. Worthington
Technical Representative

con-test®
A Pace Analytical® Laboratory

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

Project Location: Cheshire, MA | Sample Description: | Work Order: 21A1017

Date Received: 1/22/2021

Field Sample #: Sump | Sampled: 1/22/2021 10:00

Sample ID: 21A1017-01

Sample Matrix: Ground Water

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Acenaphthylene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Acetophenone	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Aniline	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Anthracene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Benzo(a)anthracene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Benzo(a)pyrene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Benzo(b)fluoranthene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Benzo(g,h,i)perylene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Benzo(k)fluoranthene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Bis(2-chloroethoxy)methane	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Bis(2-chloroethyl)ether	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Bis(2-chloroisopropyl)ether	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Bis(2-Ethylhexyl)phthalate	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
4-Bromophenylphenylether	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Butylbenzylphthalate	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
4-Chloroaniline	ND	39	µg/L	4	V-34	SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
2-Chloronaphthalene	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
2-Chlorophenol	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Chrysene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Dibenz(a,h)anthracene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Dibenzofuran	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Di-n-butylphthalate	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
1,2-Dichlorobenzene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
1,3-Dichlorobenzene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
1,4-Dichlorobenzene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
3,3-Dichlorobenzidine	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
2,4-Dichlorophenol	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Diethylphthalate	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
2,4-Dimethylphenol	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Dimethylphthalate	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
2,4-Dinitrophenol	ND	39	µg/L	4	V-06	SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
2,4-Dinitrotoluene	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
2,6-Dinitrotoluene	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Di-n-octylphthalate	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
1,2-Diphenylhydrazine/Azobenzene	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Fluoranthene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Fluorene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Hexachlorobenzene	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Hexachlorobutadiene	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Hexachloroethane	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Indeno(1,2,3-cd)pyrene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Isophorone	550	78	µg/L	8		SW-846 8270D-E	1/25/21	1/26/21 15:19	BGL
2-Methylnaphthalene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL

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Project Location: Cheshire, MA | Sample Description: | Work Order: 21A1017

Date Received: 1/22/2021

Field Sample #: Sump | Sampled: 1/22/2021 10:00

Sample ID: 21A1017-01

Sample Matrix: Ground Water

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
3/4-Methylphenol	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Naphthalene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Nitrobenzene	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
2-Nitrophenol	ND	39	µg/L	4	V-06	SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
4-Nitrophenol	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Pentachlorophenol	8100	2000	µg/L	200		SW-846 8270D-E	1/25/21	1/26/21 15:42	BGL
Phenanthrene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Phenol	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Pyrene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
Pyridine	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
1,2,4-Trichlorobenzene	ND	20	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
2,4,5-Trichlorophenol	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL
2,4,6-Trichlorophenol	ND	39	µg/L	4		SW-846 8270D-E	1/25/21	1/26/21 14:11	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol		*	15-110	S-01	1/26/21 15:42
2-Fluorophenol	43.4		15-110		1/26/21 14:11
2-Fluorophenol	39.8		15-110		1/26/21 15:19
Phenol-d6		*	15-110	S-01	1/26/21 15:42
Phenol-d6	36.4		15-110		1/26/21 14:11
Phenol-d6	32.8		15-110		1/26/21 15:19
Nitrobenzene-d5		*	30-130	S-01	1/26/21 15:42
Nitrobenzene-d5	80.0		30-130		1/26/21 14:11
Nitrobenzene-d5	81.4		30-130		1/26/21 15:19
2-Fluorobiphenyl		*	30-130	S-01	1/26/21 15:42
2-Fluorobiphenyl	84.7		30-130		1/26/21 14:11
2-Fluorobiphenyl	90.8		30-130		1/26/21 15:19
2,4,6-Tribromophenol		*	15-110	S-01	1/26/21 15:42
2,4,6-Tribromophenol	83.6		15-110		1/26/21 14:11
2,4,6-Tribromophenol	75.1		15-110		1/26/21 15:19
p-Terphenyl-d14		*	30-130	S-01	1/26/21 15:42
p-Terphenyl-d14	92.0		30-130		1/26/21 14:11
p-Terphenyl-d14	92.5		30-130		1/26/21 15:19

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Sample Extraction Data

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270D-E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A1017-01 [Sump]	B275219	1020	1.00	01/25/21
21A1017-01RE1 [Sump]	B275219	1020	1.00	01/25/21
21A1017-01RE2 [Sump]	B275219	1020	1.00	01/25/21

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B275219 - SW-846 3510C										
Blank (B275219-BLK1)				Prepared: 01/25/21 Analyzed: 01/26/21						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-06
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							V-06
4-Nitrophenol	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B275219 - SW-846 3510C											
Blank (B275219-BLK1)				Prepared: 01/25/21 Analyzed: 01/26/21							
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	5.0	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	*89.3*		µg/L	200		44.6	15-110				
Surrogate: Phenol-d6	*69.0*		µg/L	200		34.5	15-110				
Surrogate: Nitrobenzene-d5	*71.5*		µg/L	100		71.5	30-130				
Surrogate: 2-Fluorobiphenyl	*77.2*		µg/L	100		77.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*94.6*		µg/L	100		94.6	15-110				
Surrogate: p-Terphenyl-d14	*87.7*		µg/L	100		87.7	30-130				
LCS (B275219-BS1)				Prepared: 01/25/21 Analyzed: 01/26/21							
Acenaphthene	38.8	5.0	µg/L	50.0		77.7	40-140				
Acenaphthylene	38.2	5.0	µg/L	50.0		76.3	40-140				
Acetophenone	35.6	10	µg/L	50.0		71.2	40-140				
Aniline	33.6	5.0	µg/L	50.0		67.2	40-140				
Anthracene	41.4	5.0	µg/L	50.0		82.9	40-140				
Benzo(a)anthracene	40.8	5.0	µg/L	50.0		81.5	40-140				
Benzo(a)pyrene	38.8	5.0	µg/L	50.0		77.5	40-140				
Benzo(b)fluoranthene	38.8	5.0	µg/L	50.0		77.6	40-140				
Benzo(g,h,i)perylene	44.8	5.0	µg/L	50.0		89.5	40-140				
Benzo(k)fluoranthene	38.9	5.0	µg/L	50.0		77.8	40-140				
Bis(2-chloroethoxy)methane	35.4	10	µg/L	50.0		70.7	40-140				
Bis(2-chloroethyl)ether	29.8	10	µg/L	50.0		59.6	40-140				
Bis(2-chloroisopropyl)ether	32.9	10	µg/L	50.0		65.9	40-140				
Bis(2-Ethylhexyl)phthalate	43.2	10	µg/L	50.0		86.4	40-140				
4-Bromophenylphenylether	37.1	10	µg/L	50.0		74.1	40-140				
Butylbenzylphthalate	43.4	10	µg/L	50.0		86.7	40-140				
4-Chloroaniline	35.9	10	µg/L	50.0		71.7	15-140			V-34	†
2-Chloronaphthalene	32.4	10	µg/L	50.0		64.7	40-140				
2-Chlorophenol	30.3	10	µg/L	50.0		60.6	30-130				
Chrysene	40.6	5.0	µg/L	50.0		81.2	40-140				
Dibenz(a,h)anthracene	42.4	5.0	µg/L	50.0		84.9	40-140				
Dibenzofuran	38.7	5.0	µg/L	50.0		77.4	40-140				
Di-n-butylphthalate	40.6	10	µg/L	50.0		81.2	40-140				
1,2-Dichlorobenzene	26.4	5.0	µg/L	50.0		52.8	40-140				
1,3-Dichlorobenzene	24.6	5.0	µg/L	50.0		49.1	40-140				
1,4-Dichlorobenzene	25.6	5.0	µg/L	50.0		51.2	40-140				
3,3-Dichlorobenzidine	44.7	10	µg/L	50.0		89.4	40-140				
2,4-Dichlorophenol	38.6	10	µg/L	50.0		77.3	30-130				
Diethylphthalate	39.4	10	µg/L	50.0		78.8	40-140				
2,4-Dimethylphenol	35.2	10	µg/L	50.0		70.3	30-130				
Dimethylphthalate	38.1	10	µg/L	50.0		76.1	40-140				
2,4-Dinitrophenol	49.0	10	µg/L	50.0		98.0	15-140			V-06	†
2,4-Dinitrotoluene	43.2	10	µg/L	50.0		86.4	40-140				
2,6-Dinitrotoluene	43.0	10	µg/L	50.0		85.9	40-140				
Di-n-octylphthalate	43.2	10	µg/L	50.0		86.3	40-140				
1,2-Diphenylhydrazine/Azobenzene	36.3	10	µg/L	50.0		72.6	40-140				
Fluoranthene	42.0	5.0	µg/L	50.0		83.9	40-140				
Fluorene	40.4	5.0	µg/L	50.0		80.9	40-140				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B275219 - SW-846 3510C											
LCS (B275219-BS1)				Prepared: 01/25/21 Analyzed: 01/26/21							
Hexachlorobenzene	39.5	10	µg/L	50.0		79.0	40-140				
Hexachlorobutadiene	29.0	10	µg/L	50.0		58.1	40-140				
Hexachloroethane	25.4	10	µg/L	50.0		50.9	40-140				
Indeno(1,2,3-cd)pyrene	45.2	5.0	µg/L	50.0		90.5	40-140				
Isophorone	39.7	10	µg/L	50.0		79.3	40-140				
2-Methylnaphthalene	39.6	5.0	µg/L	50.0		79.2	40-140				
2-Methylphenol	31.8	10	µg/L	50.0		63.5	30-130				
3/4-Methylphenol	30.5	10	µg/L	50.0		61.1	30-130				
Naphthalene	32.1	5.0	µg/L	50.0		64.1	40-140				
Nitrobenzene	31.8	10	µg/L	50.0		63.6	40-140				
2-Nitrophenol	41.5	10	µg/L	50.0		83.0	30-130			V-06	
4-Nitrophenol	21.0	10	µg/L	50.0		42.1	15-140				†
Pentachlorophenol	33.5	10	µg/L	50.0		67.1	30-130				
Phenanthrene	41.3	5.0	µg/L	50.0		82.5	40-140				
Phenol	14.8	10	µg/L	50.0		29.6	15-140				†
Pyrene	41.6	5.0	µg/L	50.0		83.3	40-140				
Pyridine	14.8	5.0	µg/L	50.0		29.6	10-140				†
1,2,4-Trichlorobenzene	29.8	5.0	µg/L	50.0		59.5	40-140				
2,4,5-Trichlorophenol	41.2	10	µg/L	50.0		82.5	30-130				
2,4,6-Trichlorophenol	40.2	10	µg/L	50.0		80.4	30-130				
Surrogate: 2-Fluorophenol	*79.3*		µg/L	200		39.7	15-110				
Surrogate: Phenol-d6	*67.5*		µg/L	200		33.8	15-110				
Surrogate: Nitrobenzene-d5	*67.4*		µg/L	100		67.4	30-130				
Surrogate: 2-Fluorobiphenyl	*78.6*		µg/L	100		78.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*94.4*		µg/L	100		94.4	15-110				
Surrogate: p-Terphenyl-d14	*87.6*		µg/L	100		87.6	30-130				
LCS Dup (B275219-BSD1)				Prepared: 01/25/21 Analyzed: 01/26/21							
Acenaphthene	40.2	5.0	µg/L	50.0		80.5	40-140	3.57	20		
Acenaphthylene	38.8	5.0	µg/L	50.0		77.5	40-140	1.61	20		
Acetophenone	38.4	10	µg/L	50.0		76.8	40-140	7.62	20		
Aniline	31.0	5.0	µg/L	50.0		61.9	40-140	8.12	20		
Anthracene	41.7	5.0	µg/L	50.0		83.5	40-140	0.697	20		
Benzo(a)anthracene	40.8	5.0	µg/L	50.0		81.7	40-140	0.245	20		
Benzo(a)pyrene	38.7	5.0	µg/L	50.0		77.3	40-140	0.207	20		
Benzo(b)fluoranthene	39.4	5.0	µg/L	50.0		78.8	40-140	1.59	20		
Benzo(g,h,i)perylene	44.7	5.0	µg/L	50.0		89.4	40-140	0.179	20		
Benzo(k)fluoranthene	39.1	5.0	µg/L	50.0		78.3	40-140	0.641	20		
Bis(2-chloroethoxy)methane	36.1	10	µg/L	50.0		72.2	40-140	2.04	20		
Bis(2-chloroethyl)ether	32.0	10	µg/L	50.0		64.0	40-140	7.15	20		
Bis(2-chloroisopropyl)ether	35.0	10	µg/L	50.0		69.9	40-140	5.98	20		
Bis(2-Ethylhexyl)phthalate	45.2	10	µg/L	50.0		90.4	40-140	4.57	20		
4-Bromophenylphenylether	37.8	10	µg/L	50.0		75.5	40-140	1.87	20		
Butylbenzylphthalate	44.0	10	µg/L	50.0		88.0	40-140	1.40	20		
4-Chloroaniline	32.4	10	µg/L	50.0		64.8	15-140	10.1	20	V-34	†
2-Chloronaphthalene	30.3	10	µg/L	50.0		60.7	40-140	6.41	20		
2-Chlorophenol	33.5	10	µg/L	50.0		67.0	30-130	10.1	20		
Chrysene	40.6	5.0	µg/L	50.0		81.3	40-140	0.0985	20		
Dibenz(a,h)anthracene	43.0	5.0	µg/L	50.0		86.0	40-140	1.26	20		
Dibenzofuran	39.2	5.0	µg/L	50.0		78.5	40-140	1.33	20		
Di-n-butylphthalate	41.8	10	µg/L	50.0		83.6	40-140	2.89	20		
1,2-Dichlorobenzene	29.2	5.0	µg/L	50.0		58.3	40-140	9.90	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B275219 - SW-846 3510C											
LCS Dup (B275219-BSD1)				Prepared: 01/25/21 Analyzed: 01/26/21							
1,3-Dichlorobenzene	27.1	5.0	µg/L	50.0		54.2	40-140	9.87	20		
1,4-Dichlorobenzene	27.8	5.0	µg/L	50.0		55.7	40-140	8.38	20		
3,3-Dichlorobenzidine	40.1	10	µg/L	50.0		80.3	40-140	10.8	20		
2,4-Dichlorophenol	40.0	10	µg/L	50.0		79.9	30-130	3.36	20		
Diethylphthalate	40.3	10	µg/L	50.0		80.6	40-140	2.18	20		
2,4-Dimethylphenol	34.6	10	µg/L	50.0		69.2	30-130	1.61	20		
Dimethylphthalate	38.7	10	µg/L	50.0		77.4	40-140	1.72	20		
2,4-Dinitrophenol	51.7	10	µg/L	50.0		103	15-140	5.40	20	V-06	†
2,4-Dinitrotoluene	44.7	10	µg/L	50.0		89.4	40-140	3.46	20		
2,6-Dinitrotoluene	43.3	10	µg/L	50.0		86.7	40-140	0.858	20		
Di-n-octylphthalate	45.2	10	µg/L	50.0		90.5	40-140	4.66	20		
1,2-Diphenylhydrazine/Azobenzene	36.6	10	µg/L	50.0		73.2	40-140	0.796	20		
Fluoranthene	42.2	5.0	µg/L	50.0		84.3	40-140	0.499	20		
Fluorene	41.4	5.0	µg/L	50.0		82.7	40-140	2.27	20		
Hexachlorobenzene	39.7	10	µg/L	50.0		79.3	40-140	0.455	20		
Hexachlorobutadiene	30.5	10	µg/L	50.0		61.0	40-140	4.87	20		
Hexachloroethane	27.5	10	µg/L	50.0		55.1	40-140	7.89	20		
Indeno(1,2,3-cd)pyrene	45.4	5.0	µg/L	50.0		90.7	40-140	0.265	20		
Isophorone	40.5	10	µg/L	50.0		81.0	40-140	2.12	20		
2-Methylnaphthalene	41.1	5.0	µg/L	50.0		82.2	40-140	3.79	20		
2-Methylphenol	34.2	10	µg/L	50.0		68.5	30-130	7.58	20		
3/4-Methylphenol	32.7	10	µg/L	50.0		65.4	30-130	6.77	20		
Naphthalene	34.0	5.0	µg/L	50.0		68.0	40-140	5.81	20		
Nitrobenzene	33.6	10	µg/L	50.0		67.1	40-140	5.42	20		
2-Nitrophenol	43.3	10	µg/L	50.0		86.5	30-130	4.18	20	V-06	
4-Nitrophenol	21.8	10	µg/L	50.0		43.6	15-140	3.50	20		†
Pentachlorophenol	34.7	10	µg/L	50.0		69.4	30-130	3.43	20		
Phenanthrene	41.5	5.0	µg/L	50.0		83.0	40-140	0.580	20		
Phenol	16.0	10	µg/L	50.0		32.0	15-140	7.79	20		†
Pyrene	42.3	5.0	µg/L	50.0		84.6	40-140	1.55	20		
Pyridine	15.8	5.0	µg/L	50.0		31.6	10-140	6.73	50		† ‡
1,2,4-Trichlorobenzene	31.6	5.0	µg/L	50.0		63.3	40-140	6.12	20		
2,4,5-Trichlorophenol	42.7	10	µg/L	50.0		85.4	30-130	3.46	20		
2,4,6-Trichlorophenol	41.1	10	µg/L	50.0		82.3	30-130	2.26	20		
Surrogate: 2-Fluorophenol	*87.9*		µg/L	200		43.9	15-110				
Surrogate: Phenol-d6	*74.1*		µg/L	200		37.0	15-110				
Surrogate: Nitrobenzene-d5	*71.5*		µg/L	100		71.5	30-130				
Surrogate: 2-Fluorobiphenyl	*80.3*		µg/L	100		80.3	30-130				
Surrogate: 2,4,6-Tribromophenol	*98.4*		µg/L	100		98.4	15-110				
Surrogate: p-Terphenyl-d14	*90.7*		µg/L	100		90.7	30-130				

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
RL-08	Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	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-E in Water	
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
2-Fluorophenol	NC,VA
Phenol-d6	VA
Nitrobenzene-d5	VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2021
ME	State of Maine	MA00100	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

21A1017

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page 1 of 1

Company Name:	Trahan Bond
Address:	53 Southampton Rd
Phone:	413-562-1600
Project Name:	Mallard Cove
Project Location:	Cheshire, MA
Project Number:	E-5067-115
Project Manager:	Matt Abraham
Con-Test Quote Name/Number:	National Grid
Invoice Recipient:	T+B
Sampled By:	Nick Guidi

Requested Turnaround Time

7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date:

Rush - Approval Required

1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Dissolved Metals Samples

○ Field Filtered
○ Lab to Filter

Orthophosphate Samples

○ Field Filtered
○ Lab to Filter

Data Delivery

Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: Matt A, Nick G, Jeff A.
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1] Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	8270 - Stonelevel	515.3
01	Sump	1/22/21	1000	G	GW	H/M		2				✓	
	Spigot-OC		1230		DW	M/L		1					✓
	Faucet		1155		DW	M/L		1					✓
	Faucet-RO	↓	1150	↓	DW	M/L		1					✓

[2] Preservation Code

Courier Use Only

Total Number Of:

VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

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

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

Relinquished by: (signature)	Date/Time: 1/22/21 1600
Received by: (signature)	Date/Time: 1/22/21 1600
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:
- Melt GW-1 Standard (1 µg/L) for Pentachlorophenol RLs via Method 515.3
- Use National Grid Rates
- Rush Method 515 Samples

Detection Limit Requirements

MA: GW-1 (MCP)
CT:
Other:

Special Requirements

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

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

NELAC and AIHA-LAP, LLC Accredited

Project Entity

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

Other

☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY

☐ Soxhlet
☐ Non Soxhlet

Lab Comments:

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

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Tighe & Bond

Received By RLF Date 11/22/21 Time 1600

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

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 2.1°C By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

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

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

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid NA Base NA

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

Unused Media

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

Comments:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test, a Pace Analytical Laboratory	Project #: 21A1017
Project Location: Cheshire, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

21A1017-01

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP VPH CAM IV C ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	MassDEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

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

Signature: Lisa Worthington Position: Technical Representative

Printed Name: Lisa A. Worthington Date: 01/27/21

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

January 13, 2021

Matt Abraham
Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Project Location: Cheshire
Client Job Number:
Project Number: N-5067-115
Laboratory Work Order Number: 21A0177

Enclosed are results of analyses for samples received by the laboratory on January 6, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

Table of Contents

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

Tighe & Bond
53 Southampton Road
Westfield, MA 01085
ATTN: Matt Abraham

REPORT DATE: 1/13/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: N-5067-115

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21A0177

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

PROJECT LOCATION: Cheshire

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Spigot - OC	21A0177-01	Drinking Water		-	MA M-CT007/CT PH-0618/NY11301
				EPA 515.3	MA M-CT007/CT PH-0618/NY11301
Faucet	21A0177-02	Drinking Water		-	MA M-CT007/CT PH-0618/NY11301
				EPA 515.3	MA M-CT007/CT PH-0618/NY11301
Faucet - RO	21A0177-03	Drinking Water		-	MA M-CT007/CT PH-0618/NY11301
				EPA 515.3	MA M-CT007/CT PH-0618/NY11301
Sump	21A0177-04	Ground Water		SW-846 8270D-E	
Well	21A0177-05	Ground Water		SW-846 8270D-E	

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CASE NARRATIVE SUMMARY

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

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

SW-846 8270D-E

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

Dibenz(a,h)anthracene (SIM)
B274163-BS1, B274163-BSD1

Indeno(1,2,3-cd)pyrene (SIM)
B274163-BS1, B274163-BSD1

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

Dibenz(a,h)anthracene (SIM)
B274163-BLK1

Indeno(1,2,3-cd)pyrene (SIM)
B274163-BLK1

I-02

Result not attainable due to sample matrix interferences (a chemical or physical interference which could not be eliminated).

Analyte & Samples(s) Qualified:

Acenaphthene-d10
21A0177-04[Sump]

Acenaphthene-d10 (SIM)
21A0177-04[Sump]

Naphthalene-d8
21A0177-04[Sump]

Naphthalene-d8 (SIM)
21A0177-04[Sump]

Phenanthrene-d10 (SIM)
21A0177-04[Sump]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
21A0177-04RE2[Sump], 21A0177-05RE2[Well]

2-Fluorobiphenyl
21A0177-04RE2[Sump], 21A0177-05RE2[Well]

2-Fluorophenol
21A0177-04RE2[Sump], 21A0177-05RE2[Well]

Nitrobenzene-d5
21A0177-04RE2[Sump], 21A0177-05RE2[Well]

Phenol-d6
21A0177-04RE2[Sump], 21A0177-05RE2[Well]

p-Terphenyl-d14
21A0177-04RE2[Sump]

S-02

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl
21A0177-04[Sump]

Nitrobenzene-d5
21A0177-04[Sump]

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

V-05

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

Analyte & Samples(s) Qualified:

Pentachlorophenol
B274015-BLK1, B274015-BS1, B274015-BSD1, S055995-CCV1

V-06

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

Analyte & Samples(s) Qualified:

3/4-Methylphenol
S056028-CCV1

Acetophenone
S056028-CCV1

V-31

Internal Standard is outside of control criteria for this sample. The analytes being reported for this analytical run are not affected by this I.S. being outside of control criteria. Data validation is not affected.

Analyte & Samples(s) Qualified:

4-Chloroaniline
S056028-CCV1

V-34

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

Analyte & Samples(s) Qualified:

4-Chloroaniline
21A0177-04[Sump], 21A0177-05[Well], B274015-BLK1, B274015-BS1, B274015-BSD1, S055995-CCV1

V-35

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

Analyte & Samples(s) Qualified:

Bis(2-chloroisopropyl)ether
21A0177-04[Sump], 21A0177-05[Well], B274015-BLK1, B274015-BS1, B274015-BSD1, S055995-CCV1

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

Lisa A. Worthington
Technical Representative

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

Project Location: Cheshire | Sample Description: | Work Order: 21A0177

Date Received: 1/6/2021

Field Sample #: Spigot - OC | Sampled: 1/6/2021 10:10

Sample ID: 21A0177-01

Sample Matrix: Drinking Water

Drinking Water Organics EPA 515.3

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	0.1	70	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
Dalapon	ND	1	200	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
Dicamba	ND	0.08		µg/L	1		EPA 515.3		1/12/21 0:00	PEL
Dinoseb	ND	0.2	7	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
# Pentachlorophenol	91	0.8	1	µg/L	20		EPA 515.3		1/12/21 0:00	PEL
Picloram	ND	0.1	500	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
2,4,5-TP (Silvex)	ND	0.5	50	µg/L	1		EPA 515.3		1/12/21 0:00	PEL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid	120	70-130		1/12/21 0:00

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

Project Location: Cheshire | Sample Description: | Work Order: 21A0177

Date Received: 1/6/2021

Field Sample #: Spigot - OC | Sampled: 1/6/2021 10:10

Sample ID: 21A0177-01

Sample Matrix: Drinking Water

Miscellaneous Test

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	see attached			N/A	1		-		1/13/21 0:00	PEL

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Project Location: Cheshire | Sample Description: | Work Order: 21A0177

Date Received: 1/6/2021

Field Sample #: Faucet | Sampled: 1/6/2021 10:05

Sample ID: 21A0177-02

Sample Matrix: Drinking Water

Drinking Water Organics EPA 515.3

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	0.1	70	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
Dalapon	ND	1	200	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
Dicamba	ND	0.08		µg/L	1		EPA 515.3		1/12/21 0:00	PEL
Dinoseb	ND	0.2	7	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
# Pentachlorophenol	29	0.4	1	µg/L	10		EPA 515.3		1/12/21 0:00	PEL
Picloram	ND	0.1	500	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
2,4,5-TP (Silvex)	ND	0.5	50	µg/L	1		EPA 515.3		1/12/21 0:00	PEL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid	122	70-130		1/12/21 0:00

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Project Location: Cheshire | Sample Description: | Work Order: 21A0177

Date Received: 1/6/2021

Field Sample #: Faucet | Sampled: 1/6/2021 10:05

Sample ID: 21A0177-02

Sample Matrix: Drinking Water

Miscellaneous Test

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	see attached			N/A	1		-		1/13/21 0:00	PEL

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

Project Location: Cheshire | Sample Description: | Work Order: 21A0177

Date Received: 1/6/2021

Field Sample #: Faucet - RO | Sampled: 1/6/2021 10:00

Sample ID: 21A0177-03

Sample Matrix: Drinking Water

Drinking Water Organics EPA 515.3

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	0.1	70	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
Dalapon	ND	1	200	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
Dicamba	ND	0.08		µg/L	1		EPA 515.3		1/12/21 0:00	PEL
Dinoseb	ND	0.2	7	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
Pentachlorophenol	ND	0.088	1	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
Picloram	ND	0.1	500	µg/L	1		EPA 515.3		1/12/21 0:00	PEL
2,4,5-TP (Silvex)	ND	0.2	50	µg/L	1		EPA 515.3		1/12/21 0:00	PEL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid	113	70-130		1/12/21 0:00

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Project Location: Cheshire | Sample Description: | Work Order: 21A0177

Date Received: 1/6/2021

Field Sample #: Faucet - RO | Sampled: 1/6/2021 10:00

Sample ID: 21A0177-03

Sample Matrix: Drinking Water

Miscellaneous Test

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
See Attached Report Pages	see attached			N/A	1		-		1/13/21 0:00	PEL

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Project Location: Cheshire | Sample Description: | Work Order: 21A0177

Date Received: 1/6/2021

Field Sample #: Sump | Sampled: 1/6/2021 13:45

Sample ID: 21A0177-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	3.0	0.33	µg/L	10		SW-846 8270D-E	1/7/21	1/8/21 8:40	CLA
Acenaphthylene (SIM)	ND	2.0	0.35	µg/L	10		SW-846 8270D-E	1/7/21	1/8/21 8:40	CLA
Acetophenone	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Aniline	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Anthracene (SIM)	ND	2.0	0.32	µg/L	10		SW-846 8270D-E	1/7/21	1/8/21 8:40	CLA
Benzo(a)anthracene (SIM)	ND	0.050	0.016	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:21	CLA
Benzo(a)pyrene (SIM)	ND	0.099	0.012	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:21	CLA
Benzo(b)fluoranthene (SIM)	ND	0.050	0.015	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:21	CLA
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.018	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:21	CLA
Benzo(k)fluoranthene (SIM)	ND	0.20	0.012	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:21	CLA
Bis(2-chloroethoxy)methane	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Bis(2-chloroethyl)ether	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Bis(2-chloroisopropyl)ether	ND	9.9		µg/L	1	V-35	SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Bis(2-Ethylhexyl)phthalate	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
4-Bromophenylphenylether	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Butylbenzylphthalate	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
4-Chloroaniline	ND	9.9		µg/L	1	V-34	SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
2-Chloronaphthalene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
2-Chlorophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Chrysene (SIM)	ND	0.20	0.015	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:21	CLA
Dibenz(a,h)anthracene (SIM)	ND	0.099	0.017	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:21	CLA
Dibenzofuran	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Di-n-butylphthalate	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
1,2-Dichlorobenzene	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
1,3-Dichlorobenzene	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
1,4-Dichlorobenzene	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
3,3-Dichlorobenzidine	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
2,4-Dichlorophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Diethylphthalate	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
2,4-Dimethylphenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Dimethylphthalate	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
2,4-Dinitrophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
2,4-Dinitrotoluene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
2,6-Dinitrotoluene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Di-n-octylphthalate	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Fluoranthene (SIM)	ND	5.0	0.25	µg/L	10		SW-846 8270D-E	1/7/21	1/8/21 8:40	CLA
Fluorene (SIM)	ND	9.9	0.34	µg/L	10		SW-846 8270D-E	1/7/21	1/8/21 8:40	CLA
Hexachlorobenzene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Hexachlorobutadiene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Hexachloroethane	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.099	0.018	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:21	CLA
Isophorone	770	99		µg/L	10		SW-846 8270D-E	1/7/21	1/8/21 10:04	IMR
2-Methylnaphthalene (SIM)	11	9.9	0.61	µg/L	10		SW-846 8270D-E	1/7/21	1/8/21 8:40	CLA

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Project Location: Cheshire | Sample Description: | Work Order: 21A0177

Date Received: 1/6/2021

Field Sample #: Sump | Sampled: 1/6/2021 13:45

Sample ID: 21A0177-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
3/4-Methylphenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Naphthalene (SIM)	14	9.9	2.5	µg/L	10		SW-846 8270D-E	1/7/21	1/8/21 8:40	CLA
Nitrobenzene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
2-Nitrophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
4-Nitrophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Pentachlorophenol	9200	2000		µg/L	200		SW-846 8270D-E	1/7/21	1/8/21 10:53	IMR
Phenanthrene (SIM)	ND	0.50	0.30	µg/L	10		SW-846 8270D-E	1/7/21	1/8/21 8:40	CLA
Phenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
Pyrene (SIM)	0.057	0.99	0.023	µg/L	1	J	SW-846 8270D-E	1/7/21	1/7/21 17:21	CLA
Pyridine	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
2,4,5-Trichlorophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR
2,4,6-Trichlorophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 15:48	IMR

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	53.9		15-110		1/7/21 15:48
2-Fluorophenol	54.6		15-110		1/8/21 10:04
2-Fluorophenol		*	15-110	S-01	1/8/21 10:53
Phenol-d6	51.1		15-110		1/7/21 15:48
Phenol-d6	40.4		15-110		1/8/21 10:04
Phenol-d6		*	15-110	S-01	1/8/21 10:53
Nitrobenzene-d5	69.4		30-130		1/7/21 15:48
Nitrobenzene-d5		*	30-130	S-02	1/7/21 17:21
Nitrobenzene-d5	84.2		30-130		1/8/21 10:04
Nitrobenzene-d5	64.4		30-130		1/8/21 8:40
Nitrobenzene-d5		*	30-130	S-01	1/8/21 10:53
2-Fluorobiphenyl		*	30-130	S-02	1/7/21 17:21
2-Fluorobiphenyl	81.4		30-130		1/7/21 15:48
2-Fluorobiphenyl	59.2		30-130		1/8/21 8:40
2-Fluorobiphenyl	88.8		30-130		1/8/21 10:04
2-Fluorobiphenyl		*	30-130	S-01	1/8/21 10:53
2,4,6-Tribromophenol	89.4		15-110		1/7/21 15:48
2,4,6-Tribromophenol	93.1		15-110		1/8/21 10:04
2,4,6-Tribromophenol		*	15-110	S-01	1/8/21 10:53
p-Terphenyl-d14	93.5		30-130		1/7/21 15:48
p-Terphenyl-d14	50.8		30-130		1/7/21 17:21
p-Terphenyl-d14	59.5		30-130		1/8/21 8:40
p-Terphenyl-d14	92.7		30-130		1/8/21 10:04
p-Terphenyl-d14		*	30-130	S-01	1/8/21 10:53

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Project Location: Cheshire | Sample Description: | Work Order: 21A0177

Date Received: 1/6/2021

Field Sample #: Well | Sampled: 1/6/2021 14:30

Sample ID: 21A0177-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	0.033	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Acenaphthylene (SIM)	ND	0.20	0.035	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Acetophenone	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Aniline	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Anthracene (SIM)	ND	0.20	0.032	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Benzo(a)anthracene (SIM)	ND	0.050	0.016	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Benzo(a)pyrene (SIM)	ND	0.099	0.012	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Benzo(b)fluoranthene (SIM)	ND	0.050	0.015	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.018	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Benzo(k)fluoranthene (SIM)	ND	0.20	0.012	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Bis(2-chloroethoxy)methane	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Bis(2-chloroethyl)ether	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Bis(2-chloroisopropyl)ether	ND	9.9		µg/L	1	V-35	SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Bis(2-Ethylhexyl)phthalate	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
4-Bromophenylphenylether	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Butylbenzylphthalate	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
4-Chloroaniline	ND	9.9		µg/L	1	V-34	SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
2-Chloronaphthalene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
2-Chlorophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Chrysene (SIM)	ND	0.20	0.015	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Dibenz(a,h)anthracene (SIM)	ND	0.099	0.017	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Dibenzofuran	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Di-n-butylphthalate	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
1,2-Dichlorobenzene	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
1,3-Dichlorobenzene	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
1,4-Dichlorobenzene	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
3,3-Dichlorobenzidine	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
2,4-Dichlorophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Diethylphthalate	190	99		µg/L	10		SW-846 8270D-E	1/7/21	1/8/21 9:40	IMR
2,4-Dimethylphenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Dimethylphthalate	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
2,4-Dinitrophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
2,4-Dinitrotoluene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
2,6-Dinitrotoluene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Di-n-octylphthalate	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Fluoranthene (SIM)	ND	0.50	0.025	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Fluorene (SIM)	ND	0.99	0.034	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Hexachlorobenzene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Hexachlorobutadiene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Hexachloroethane	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.099	0.018	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Isophorone	70	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
2-Methylnaphthalene (SIM)	0.87	0.99	0.061	µg/L	1	J	SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA

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Project Location: Cheshire | Sample Description: | Work Order: 21A0177

Date Received: 1/6/2021

Field Sample #: Well | Sampled: 1/6/2021 14:30

Sample ID: 21A0177-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
3/4-Methylphenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Naphthalene (SIM)	1.7	0.99	0.25	µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Nitrobenzene	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
2-Nitrophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
4-Nitrophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Pentachlorophenol	1800	500		µg/L	50		SW-846 8270D-E	1/7/21	1/8/21 10:29	IMR
Phenanthrene (SIM)	0.041	0.050	0.030	µg/L	1	J	SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Phenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
Pyrene (SIM)	0.037	0.99	0.023	µg/L	1	J	SW-846 8270D-E	1/7/21	1/7/21 17:49	CLA
Pyridine	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
2,4,5-Trichlorophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR
2,4,6-Trichlorophenol	ND	9.9		µg/L	1		SW-846 8270D-E	1/7/21	1/7/21 16:14	IMR

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	46.1		15-110		1/7/21 16:14
2-Fluorophenol	54.1		15-110		1/8/21 9:40
2-Fluorophenol		*	15-110	S-01	1/8/21 10:29
Phenol-d6	35.5		15-110		1/7/21 16:14
Phenol-d6	42.2		15-110		1/8/21 9:40
Phenol-d6		*	15-110	S-01	1/8/21 10:29
Nitrobenzene-d5	55.6		30-130		1/7/21 17:49
Nitrobenzene-d5	65.6		30-130		1/7/21 16:14
Nitrobenzene-d5	77.7		30-130		1/8/21 9:40
Nitrobenzene-d5		*	30-130	S-01	1/8/21 10:29
2-Fluorobiphenyl	49.1		30-130		1/7/21 17:49
2-Fluorobiphenyl	69.2		30-130		1/7/21 16:14
2-Fluorobiphenyl	77.0		30-130		1/8/21 9:40
2-Fluorobiphenyl		*	30-130	S-01	1/8/21 10:29
2,4,6-Tribromophenol	83.7		15-110		1/7/21 16:14
2,4,6-Tribromophenol	95.4		15-110		1/8/21 9:40
2,4,6-Tribromophenol		*	15-110	S-01	1/8/21 10:29
p-Terphenyl-d14	58.1		30-130		1/7/21 17:49
p-Terphenyl-d14	83.0		30-130		1/7/21 16:14
p-Terphenyl-d14	91.1		30-130		1/8/21 9:40
p-Terphenyl-d14	83.5		30-130		1/8/21 10:29

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Sample Extraction Data

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270D-E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A0177-04 [Sump]	B274015	1010	1.00	01/07/21
21A0177-04RE1 [Sump]	B274015	1010	1.00	01/07/21
21A0177-04RE2 [Sump]	B274015	1010	1.00	01/07/21
21A0177-05 [Well]	B274015	1010	1.00	01/07/21
21A0177-05RE1 [Well]	B274015	1010	1.00	01/07/21
21A0177-05RE2 [Well]	B274015	1010	1.00	01/07/21

Prep Method: SW-846 3510C **Analytical Method: SW-846 8270D-E**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21A0177-04 [Sump]	B274163	1010	1.00	01/07/21
21A0177-04RE1 [Sump]	B274163	1010	1.00	01/07/21
21A0177-05 [Well]	B274163	1010	1.00	01/07/21

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274015 - SW-846 3510C										
Blank (B274015-BLK1)				Prepared & Analyzed: 01/07/21						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							V-35
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							V-34
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine/Azobenzene	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							V-05
Phenanthrene	ND	5.0	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B274015 - SW-846 3510C											
Blank (B274015-BLK1)				Prepared & Analyzed: 01/07/21							
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
Pyridine	ND	5.0	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	*94.8*		µg/L	200		47.4	15-110				
Surrogate: Phenol-d6	*72.3*		µg/L	200		36.2	15-110				
Surrogate: Nitrobenzene-d5	*65.4*		µg/L	100		65.4	30-130				
Surrogate: 2-Fluorobiphenyl	*73.3*		µg/L	100		73.3	30-130				
Surrogate: 2,4,6-Tribromophenol	*118*		µg/L	140		84.3	15-110				
Surrogate: p-Terphenyl-d14	*90.5*		µg/L	100		90.5	30-130				
LCS (B274015-BS1)				Prepared & Analyzed: 01/07/21							
Acenaphthene	35.8	5.0	µg/L	50.0		71.6	40-140				
Acenaphthylene	38.4	5.0	µg/L	50.0		76.8	40-140				
Acetophenone	38.3	10	µg/L	50.0		76.6	40-140				
Aniline	42.5	5.0	µg/L	50.0		84.9	40-140				
Anthracene	40.6	5.0	µg/L	50.0		81.2	40-140				
Benzo(a)anthracene	38.9	5.0	µg/L	50.0		77.9	40-140				
Benzo(a)pyrene	37.7	5.0	µg/L	50.0		75.4	40-140				
Benzo(b)fluoranthene	38.6	5.0	µg/L	50.0		77.2	40-140				
Benzo(g,h,i)perylene	41.1	5.0	µg/L	50.0		82.2	40-140				
Benzo(k)fluoranthene	38.8	5.0	µg/L	50.0		77.6	40-140				
Bis(2-chloroethoxy)methane	37.1	10	µg/L	50.0		74.2	40-140				
Bis(2-chloroethyl)ether	39.0	10	µg/L	50.0		78.1	40-140				
Bis(2-chloroisopropyl)ether	48.2	10	µg/L	50.0		96.3	40-140			V-35	
Bis(2-Ethylhexyl)phthalate	38.5	10	µg/L	50.0		77.0	40-140				
4-Bromophenylphenylether	36.5	10	µg/L	50.0		73.0	40-140				
Butylbenzylphthalate	40.5	10	µg/L	50.0		81.0	40-140				
4-Chloroaniline	37.3	10	µg/L	50.0		74.6	15-140			V-34	†
2-Chloronaphthalene	33.0	10	µg/L	50.0		66.1	40-140				
2-Chlorophenol	33.3	10	µg/L	50.0		66.7	30-130				
Chrysene	37.8	5.0	µg/L	50.0		75.6	40-140				
Dibenz(a,h)anthracene	40.4	5.0	µg/L	50.0		80.7	40-140				
Dibenzofuran	38.4	5.0	µg/L	50.0		76.8	40-140				
Di-n-butylphthalate	38.4	10	µg/L	50.0		76.8	40-140				
1,2-Dichlorobenzene	28.2	5.0	µg/L	50.0		56.4	40-140				
1,3-Dichlorobenzene	26.6	5.0	µg/L	50.0		53.2	40-140				
1,4-Dichlorobenzene	27.0	5.0	µg/L	50.0		54.0	40-140				
3,3-Dichlorobenzidine	41.4	10	µg/L	50.0		82.8	40-140				
2,4-Dichlorophenol	35.1	10	µg/L	50.0		70.2	30-130				
Diethylphthalate	38.7	10	µg/L	50.0		77.4	40-140				
2,4-Dimethylphenol	33.5	10	µg/L	50.0		67.0	30-130				
Dimethylphthalate	38.6	10	µg/L	50.0		77.1	40-140				
2,4-Dinitrophenol	34.3	10	µg/L	50.0		68.6	15-140				†
2,4-Dinitrotoluene	41.2	10	µg/L	50.0		82.4	40-140				
2,6-Dinitrotoluene	41.9	10	µg/L	50.0		83.8	40-140				
Di-n-octylphthalate	39.4	10	µg/L	50.0		78.7	40-140				
1,2-Diphenylhydrazine/Azobenzene	40.8	10	µg/L	50.0		81.5	40-140				
Fluoranthene	38.5	5.0	µg/L	50.0		77.1	40-140				
Fluorene	38.5	5.0	µg/L	50.0		77.1	40-140				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B274015 - SW-846 3510C											
LCS (B274015-BS1)				Prepared & Analyzed: 01/07/21							
Hexachlorobenzene	37.4	10	µg/L	50.0		74.8	40-140				
Hexachlorobutadiene	28.0	10	µg/L	50.0		56.0	40-140				
Hexachloroethane	26.0	10	µg/L	50.0		51.9	40-140				
Indeno(1,2,3-cd)pyrene	40.4	5.0	µg/L	50.0		80.7	40-140				
Isophorone	41.0	10	µg/L	50.0		82.0	40-140				
2-Methylnaphthalene	38.1	5.0	µg/L	50.0		76.1	40-140				
2-Methylphenol	33.7	10	µg/L	50.0		67.5	30-130				
3/4-Methylphenol	33.3	10	µg/L	50.0		66.6	30-130				
Naphthalene	33.0	5.0	µg/L	50.0		66.1	40-140				
Nitrobenzene	34.8	10	µg/L	50.0		69.7	40-140				
2-Nitrophenol	35.5	10	µg/L	50.0		70.9	30-130				
4-Nitrophenol	23.8	10	µg/L	50.0		47.5	15-140				†
Pentachlorophenol	26.4	10	µg/L	50.0		52.9	30-130			V-05	
Phenanthrene	39.9	5.0	µg/L	50.0		79.7	40-140				
Phenol	16.9	10	µg/L	50.0		33.8	15-140				†
Pyrene	41.0	5.0	µg/L	50.0		82.0	40-140				
Pyridine	17.1	5.0	µg/L	50.0		34.2	10-140				†
1,2,4-Trichlorobenzene	29.3	5.0	µg/L	50.0		58.6	40-140				
2,4,5-Trichlorophenol	37.2	10	µg/L	50.0		74.3	30-130				
2,4,6-Trichlorophenol	36.6	10	µg/L	50.0		73.2	30-130				
Surrogate: 2-Fluorophenol	*101*		µg/L	200		50.7	15-110				
Surrogate: Phenol-d6	*79.3*		µg/L	200		39.7	15-110				
Surrogate: Nitrobenzene-d5	*71.9*		µg/L	100		71.9	30-130				
Surrogate: 2-Fluorobiphenyl	*81.8*		µg/L	100		81.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*129*		µg/L	140		92.2	15-110				
Surrogate: p-Terphenyl-d14	*95.4*		µg/L	100		95.4	30-130				
LCS Dup (B274015-BSD1)				Prepared & Analyzed: 01/07/21							
Acenaphthene	35.4	5.0	µg/L	50.0		70.7	40-140	1.18	20		
Acenaphthylene	37.0	5.0	µg/L	50.0		74.0	40-140	3.69	20		
Acetophenone	38.0	10	µg/L	50.0		75.9	40-140	0.918	20		
Aniline	38.0	5.0	µg/L	50.0		76.0	40-140	11.2	20		
Anthracene	39.9	5.0	µg/L	50.0		79.7	40-140	1.84	20		
Benzo(a)anthracene	38.6	5.0	µg/L	50.0		77.1	40-140	0.929	20		
Benzo(a)pyrene	36.5	5.0	µg/L	50.0		73.0	40-140	3.18	20		
Benzo(b)fluoranthene	37.9	5.0	µg/L	50.0		75.7	40-140	1.88	20		
Benzo(g,h,i)perylene	40.1	5.0	µg/L	50.0		80.3	40-140	2.44	20		
Benzo(k)fluoranthene	38.2	5.0	µg/L	50.0		76.5	40-140	1.40	20		
Bis(2-chloroethoxy)methane	37.6	10	µg/L	50.0		75.1	40-140	1.29	20		
Bis(2-chloroethyl)ether	38.0	10	µg/L	50.0		75.9	40-140	2.86	20		
Bis(2-chloroisopropyl)ether	47.7	10	µg/L	50.0		95.5	40-140	0.876	20	V-35	
Bis(2-Ethylhexyl)phthalate	36.8	10	µg/L	50.0		73.6	40-140	4.57	20		
4-Bromophenylphenylether	35.6	10	µg/L	50.0		71.2	40-140	2.55	20		
Butylbenzylphthalate	40.2	10	µg/L	50.0		80.5	40-140	0.595	20		
4-Chloroaniline	35.0	10	µg/L	50.0		70.0	15-140	6.36	20	V-34	†
2-Chloronaphthalene	32.8	10	µg/L	50.0		65.6	40-140	0.760	20		
2-Chlorophenol	33.1	10	µg/L	50.0		66.1	30-130	0.783	20		
Chrysene	38.0	5.0	µg/L	50.0		76.1	40-140	0.686	20		
Dibenz(a,h)anthracene	39.9	5.0	µg/L	50.0		79.7	40-140	1.20	20		
Dibenzofuran	37.6	5.0	µg/L	50.0		75.1	40-140	2.24	20		
Di-n-butylphthalate	37.8	10	µg/L	50.0		75.5	40-140	1.65	20		
1,2-Dichlorobenzene	27.8	5.0	µg/L	50.0		55.6	40-140	1.43	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B274015 - SW-846 3510C											
LCS Dup (B274015-BSD1)				Prepared & Analyzed: 01/07/21							
1,3-Dichlorobenzene	26.0	5.0	µg/L	50.0		51.9	40-140	2.51	20		
1,4-Dichlorobenzene	26.9	5.0	µg/L	50.0		53.8	40-140	0.260	20		
3,3-Dichlorobenzidine	40.8	10	µg/L	50.0		81.7	40-140	1.36	20		
2,4-Dichlorophenol	35.1	10	µg/L	50.0		70.2	30-130	0.0570	20		
Diethylphthalate	37.7	10	µg/L	50.0		75.5	40-140	2.54	20		
2,4-Dimethylphenol	33.9	10	µg/L	50.0		67.7	30-130	1.13	20		
Dimethylphthalate	37.3	10	µg/L	50.0		74.6	40-140	3.30	20		
2,4-Dinitrophenol	34.2	10	µg/L	50.0		68.5	15-140	0.117	20		†
2,4-Dinitrotoluene	40.3	10	µg/L	50.0		80.6	40-140	2.21	20		
2,6-Dinitrotoluene	41.3	10	µg/L	50.0		82.6	40-140	1.49	20		
Di-n-octylphthalate	37.1	10	µg/L	50.0		74.2	40-140	5.94	20		
1,2-Diphenylhydrazine/Azobenzene	39.1	10	µg/L	50.0		78.2	40-140	4.16	20		
Fluoranthene	38.5	5.0	µg/L	50.0		76.9	40-140	0.182	20		
Fluorene	37.2	5.0	µg/L	50.0		74.4	40-140	3.46	20		
Hexachlorobenzene	37.0	10	µg/L	50.0		74.1	40-140	0.913	20		
Hexachlorobutadiene	28.5	10	µg/L	50.0		56.9	40-140	1.66	20		
Hexachloroethane	26.3	10	µg/L	50.0		52.6	40-140	1.42	20		
Indeno(1,2,3-cd)pyrene	39.2	5.0	µg/L	50.0		78.4	40-140	2.99	20		
Isophorone	41.0	10	µg/L	50.0		82.1	40-140	0.0487	20		
2-Methylnaphthalene	38.0	5.0	µg/L	50.0		76.0	40-140	0.131	20		
2-Methylphenol	33.0	10	µg/L	50.0		65.9	30-130	2.34	20		
3/4-Methylphenol	32.0	10	µg/L	50.0		64.1	30-130	3.83	20		
Naphthalene	33.7	5.0	µg/L	50.0		67.4	40-140	2.07	20		
Nitrobenzene	35.2	10	µg/L	50.0		70.4	40-140	1.06	20		
2-Nitrophenol	34.9	10	µg/L	50.0		69.9	30-130	1.53	20		
4-Nitrophenol	22.9	10	µg/L	50.0		45.8	15-140	3.56	20		†
Pentachlorophenol	26.8	10	µg/L	50.0		53.5	30-130	1.13	20	V-05	
Phenanthrene	39.0	5.0	µg/L	50.0		78.0	40-140	2.15	20		
Phenol	16.3	10	µg/L	50.0		32.6	15-140	3.56	20		†
Pyrene	40.8	5.0	µg/L	50.0		81.7	40-140	0.342	20		
Pyridine	16.1	5.0	µg/L	50.0		32.3	10-140	5.90	50		† ‡
1,2,4-Trichlorobenzene	29.4	5.0	µg/L	50.0		58.9	40-140	0.579	20		
2,4,5-Trichlorophenol	37.5	10	µg/L	50.0		75.0	30-130	0.884	20		
2,4,6-Trichlorophenol	35.9	10	µg/L	50.0		71.9	30-130	1.79	20		
Surrogate: 2-Fluorophenol	*98.5*		µg/L	200		49.2	15-110				
Surrogate: Phenol-d6	*77.0*		µg/L	200		38.5	15-110				
Surrogate: Nitrobenzene-d5	*71.0*		µg/L	100		71.0	30-130				
Surrogate: 2-Fluorobiphenyl	*77.1*		µg/L	100		77.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*120*		µg/L	140		86.0	15-110				
Surrogate: p-Terphenyl-d14	*92.2*		µg/L	100		92.2	30-130				
Batch B274163 - SW-846 3510C											
Blank (B274163-BLK1)				Prepared & Analyzed: 01/07/21							
Acenaphthene (SIM)	ND	0.30	µg/L								
Acenaphthylene (SIM)	ND	0.20	µg/L								
Anthracene (SIM)	ND	0.20	µg/L								
Benzo(a)anthracene (SIM)	ND	0.050	µg/L								
Benzo(a)pyrene (SIM)	0.033	0.10	µg/L							J	
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L								
Benzo(g,h,i)perylene (SIM)	0.17	0.50	µg/L							J	
Benzo(k)fluoranthene (SIM)	0.021	0.20	µg/L							J	
Chrysene (SIM)	ND	0.20	µg/L								

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274163 - SW-846 3510C										
Blank (B274163-BLK1)				Prepared & Analyzed: 01/07/21						
Dibenz(a,h)anthracene (SIM)	0.16	0.10	µg/L							B-05
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	0.18	0.10	µg/L							B-05
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Pentachlorophenol (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*63.9*		µg/L	100		63.9	30-130			
Surrogate: Nitrobenzene-d5 (SIM)	*60.0*		µg/L	100		60.0	30-130			
Surrogate: 2-Fluorobiphenyl	*62.0*		µg/L	100		62.0	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*53.8*		µg/L	100		53.8	30-130			
Surrogate: p-Terphenyl-d14	*66.8*		µg/L	100		66.8	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	*50.3*		µg/L	100		50.3	30-130			
LCS (B274163-BS1)				Prepared & Analyzed: 01/07/21						
Acenaphthene (SIM)	37.0	6.0	µg/L	50.0		74.0	40-140			
Acenaphthylene (SIM)	37.6	4.0	µg/L	50.0		75.2	40-140			
Anthracene (SIM)	41.4	4.0	µg/L	50.0		82.9	40-140			
Benzo(a)anthracene (SIM)	39.7	1.0	µg/L	50.0		79.4	40-140			
Benzo(a)pyrene (SIM)	37.4	2.0	µg/L	50.0		74.8	40-140			
Benzo(b)fluoranthene (SIM)	42.6	1.0	µg/L	50.0		85.2	40-140			
Benzo(g,h,i)perylene (SIM)	38.4	10	µg/L	50.0		76.8	40-140			
Benzo(k)fluoranthene (SIM)	39.5	4.0	µg/L	50.0		79.0	40-140			
Chrysene (SIM)	39.0	4.0	µg/L	50.0		78.1	40-140			
Dibenz(a,h)anthracene (SIM)	39.9	2.0	µg/L	50.0		79.9	40-140			B
Fluoranthene (SIM)	41.0	10	µg/L	50.0		82.1	40-140			
Fluorene (SIM)	39.1	20	µg/L	50.0		78.1	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	40.5	2.0	µg/L	50.0		81.1	40-140			B
2-Methylnaphthalene (SIM)	34.1	20	µg/L	50.0		68.2	40-140			
Naphthalene (SIM)	30.7	20	µg/L	50.0		61.4	40-140			
Pentachlorophenol (SIM)	35.7	20	µg/L	50.0		71.3	40-140			
Phenanthrene (SIM)	38.5	1.0	µg/L	50.0		77.1	40-140			
Pyrene (SIM)	36.9	20	µg/L	50.0		73.8	40-140			
Surrogate: Nitrobenzene-d5	*74.1*		µg/L	100		74.1	30-130			
Surrogate: Nitrobenzene-d5 (SIM)	*72.2*		µg/L	100		72.2	30-130			
Surrogate: 2-Fluorobiphenyl	*73.8*		µg/L	100		73.8	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*76.4*		µg/L	100		76.4	30-130			
Surrogate: p-Terphenyl-d14	*65.3*		µg/L	100		65.3	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	*68.2*		µg/L	100		68.2	30-130			
LCS Dup (B274163-BSD1)				Prepared & Analyzed: 01/07/21						
Acenaphthene (SIM)	34.8	6.0	µg/L	50.0		69.6	40-140	6.13	20	
Acenaphthylene (SIM)	35.2	4.0	µg/L	50.0		70.4	40-140	6.59	20	
Anthracene (SIM)	38.3	4.0	µg/L	50.0		76.6	40-140	7.82	20	
Benzo(a)anthracene (SIM)	36.4	1.0	µg/L	50.0		72.8	40-140	8.72	20	
Benzo(a)pyrene (SIM)	34.1	2.0	µg/L	50.0		68.2	40-140	9.24	20	
Benzo(b)fluoranthene (SIM)	38.7	1.0	µg/L	50.0		77.4	40-140	9.50	20	
Benzo(g,h,i)perylene (SIM)	34.9	10	µg/L	50.0		69.8	40-140	9.60	20	
Benzo(k)fluoranthene (SIM)	36.2	4.0	µg/L	50.0		72.4	40-140	8.72	20	
Chrysene (SIM)	35.9	4.0	µg/L	50.0		71.8	40-140	8.44	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B274163 - SW-846 3510C										
LCS Dup (B274163-BSD1)				Prepared & Analyzed: 01/07/21						
Dibenz(a,h)anthracene (SIM)	36.3	2.0	µg/L	50.0		72.7	40-140	9.44	20	B
Fluoranthene (SIM)	38.0	10	µg/L	50.0		76.0	40-140	7.64	20	
Fluorene (SIM)	36.6	20	µg/L	50.0		73.2	40-140	6.56	20	
Indeno(1,2,3-cd)pyrene (SIM)	36.9	2.0	µg/L	50.0		73.9	40-140	9.29	20	B
2-Methylnaphthalene (SIM)	32.4	20	µg/L	50.0		64.9	40-140	5.05	20	
Naphthalene (SIM)	29.1	20	µg/L	50.0		58.1	40-140	5.49	20	
Pentachlorophenol (SIM)	33.1	20	µg/L	50.0		66.2	40-140	7.51	20	
Phenanthrene (SIM)	35.6	1.0	µg/L	50.0		71.2	40-140	7.87	20	
Pyrene (SIM)	33.5	20	µg/L	50.0		67.1	40-140	9.59	20	
Surrogate: Nitrobenzene-d5	*68.1*		µg/L	100		68.1	30-130			
Surrogate: Nitrobenzene-d5 (SIM)	*68.0*		µg/L	100		68.0	30-130			
Surrogate: 2-Fluorobiphenyl	*69.1*		µg/L	100		69.1	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*71.7*		µg/L	100		71.7	30-130			
Surrogate: p-Terphenyl-d14	*60.3*		µg/L	100		60.3	30-130			
Surrogate: p-Terphenyl-d14 (SIM)	*62.3*		µg/L	100		62.3	30-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
I-02	Result not attainable due to sample matrix interferences (a chemical or physical interference which could not be eliminated).
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-31	Internal Standard is outside of control criteria for this sample. The analytes being reported for this analytical run are not affected by this I.S. being outside of control criteria. Data validation is not affected.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Acetophenone	NY
Aniline	CT,NY
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenol	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2021
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2021
FL	Florida Department of Health	E871027 NELAP	06/30/2021
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2021
ME	State of Maine	MA00100	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2021
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2021
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

21A0177

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 2_06262019

Page 1 of 1

Company Name:	Tighe & Bond
Address:	53 Southampton Road
Phone:	413-562-1600
Project Name:	Mallard Cove
Project Location:	Cheshire
Project Number:	W-5067-115
Project Manager:	Matt Abraham
Con-Test Quote Name/Number:	National Guard
Invoice Recipient:	T+B
Sampled By:	Nick Guidi

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

Rush Turnaround Fee Required:
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery:
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: Matt A., Jeff Alps
Fax To #:

Dissolved Field Samples:
○ Field Filtered
○ Lab to Filter

Dissolved Lab Samples:
○ Field Filtered
○ Lab to Filter

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	B	I	EPA Method 515	8270
1	Spigot-OC	1/6/21	1010	G	DW	L		1						✓	
2	Faucet	↓	1005	↓	↓	↓		1						✓	
3	Faucet-RO	↓	1000	↓	↓	↓		1						✓	
4	Sump	1/6/21	1345	G	GW	M		2					✓		✓
5	Well	1/6/21	1430	G	GW	M		1					✓		✓

[2] Preservation Code

Courier Use Only

Total Number Of:

VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

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

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

Relinquished by: (signature)	Date/Time: 1/6/21 1723
Received by: (signature)	Date/Time: 1/6/21 1725
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:
Reporting Limit for pentachlorophenol must be ≤ 1 µg/L for DW samples
Rush turnaround for DW samples. Use National Guard rates.

Required Limits/Requirements
MA: GW-1 Reporting Limits
CT:
NY:
Other:

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

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

NELAC and AIHA-LAP, LLC Accredited

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

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Lab Comments:

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

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Trahe + Bond

Received By _____ Date 11/6/21 Time 1725

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

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 4.3 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a

Was COC Relinquished ? T Does Chain Agree With Samples? T

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Christian

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? n/a MS/MSD? F

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

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid n/a Base n/a

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

Unused Media

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

Comments:

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 13, 2021

FOR: Attn: Jessica Hoffman
Con-Test
39 Spruce Street
East Longmeadow, MA 01028

Sample Information		Custody Information		Date	Time
Matrix:	DRINKING WATER	Collected by:		01/06/21	10:10
Location Code:	CON-TEST	Received by:	SW	01/07/21	16:55
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCH42818
Phoenix ID: CH42818

Project ID: 21A0177
Client ID: 21A0177-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of DW Herbicides	Completed				01/09/21	D/D	E515
Semi-Volatile Extraction	Completed				01/12/21	AT/AT	SW3520C
Herbicides							
2,4,5-T	ND	0.50	ug/L	1	01/12/21	CG	E515.3
2,4,5-TP	ND	0.20	ug/L	1	01/12/21	CG	E515.3
2,4-D	ND	0.10	ug/L	1	01/12/21	CG	E515.3
Dalapon	ND	1.0	ug/L	1	01/12/21	CG	E515.3
Dicamba	ND	0.080	ug/L	1	01/12/21	CG	E515.3
Dichloroprop	ND	0.50	ug/L	1	01/12/21	CG	E515.3
Dinoseb	ND	0.20	ug/L	1	01/12/21	CG	E515.3
Pentachlorophenol	91	0.80	ug/L	20	01/12/21	CG	E515.3
Picloram	ND	0.10	ug/L	1	01/12/21	CG	E515.3
QA/QC Surrogates							
% DCAA	120		%	20	01/12/21	CG	70 - 130 %
% DCAA (Confirmation)	122		%	20	01/12/21	CG	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	3.4	ug/L	1	01/13/21	WB	SW8270D
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	01/13/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
2,4-Dichlorophenol	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
2,4-Dimethylphenol	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
2,4-Dinitrophenol	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
2,4-Dinitrotoluene	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
2,6-Dinitrotoluene	ND	4.9	ug/L	1	01/13/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
2-Chlorophenol	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
2-Nitroaniline	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
2-Nitrophenol	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.8	ug/L	1	01/13/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
3-Nitroaniline	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
4-Chloro-3-methylphenol	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
4-Chloroaniline	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
4-Nitroaniline	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
4-Nitrophenol	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
Acetophenone	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Aniline	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Benzidine	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Benzoic acid	ND	49	ug/L	1	01/13/21	WB	SW8270D
Benzyl butyl phthalate	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.6	ug/L	1	01/13/21	WB	SW8270D
Carbazole	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Dibenzofuran	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Diethyl phthalate	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Dimethylphthalate	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Di-n-butylphthalate	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Di-n-octylphthalate	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Hexachloroethane	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
Isophorone	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	01/13/21	WB	SW8270D
Pentachloronitrobenzene	ND	2.5	ug/L	1	01/13/21	WB	SW8270D
Pentachlorophenol	95	0.78	ug/L	1	01/13/21	WB	SW8270D
Phenol	ND	0.98	ug/L	1	01/13/21	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	71		%	1	01/13/21	WB	15 - 110 %
% 2-Fluorobiphenyl	53		%	1	01/13/21	WB	30 - 130 %
% 2-Fluorophenol	24		%	1	01/13/21	WB	15 - 110 %
% Nitrobenzene-d5	50		%	1	01/13/21	WB	30 - 130 %
% Phenol-d5	19		%	1	01/13/21	WB	15 - 110 %
% Terphenyl-d14	86		%	1	01/13/21	WB	30 - 130 %
Semivolatiles (SIM)							
2-Methylnaphthalene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Anthracene	ND	0.09	ug/L	1	01/13/21	WB	SW8270D (SIM)

Project ID: 21A0177
Client ID: 21A0177-01

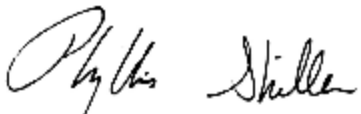
Phoenix I.D.: CH42818

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.02	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	01/13/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.02	ug/L	1	01/13/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.01	ug/L	1	01/13/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Pyrene	ND	0.07	ug/L	1	01/13/21	WB	SW8270D (SIM)
Pyridine	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	63		%	1	01/13/21	WB	15 - 110 %
% 2-Fluorobiphenyl	47		%	1	01/13/21	WB	40 - 140 %
% 2-Fluorophenol	48		%	1	01/13/21	WB	15 - 110 %
% Nitrobenzene-d5	53		%	1	01/13/21	WB	40 - 140 %
% Phenol-d5	20		%	1	01/13/21	WB	15 - 110 %
% Terphenyl-d14	68		%	1	01/13/21	WB	40 - 140 %
Sample Disposal	Completed				01/07/21		

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
January 13, 2021
Official Report Release To Follow

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 13, 2021

FOR: Attn: Jessica Hoffman
Con-Test
39 Spruce Street
East Longmeadow, MA 01028

Sample Information		Custody Information		Date	Time
Matrix:	DRINKING WATER	Collected by:		01/06/21	10:05
Location Code:	CON-TEST	Received by:	SW	01/07/21	16:55
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCH42818
Phoenix ID: CH42819

Project ID: 21A0177
Client ID: 21A0177-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of DW Herbicides	Completed				01/09/21	D/D	E515
Semi-Volatile Extraction	Completed				01/12/21	AT/AT	SW3520C
Herbicides							
2,4,5-T	ND	0.50	ug/L	1	01/12/21	CG	E515.3
2,4,5-TP	ND	0.20	ug/L	1	01/12/21	CG	E515.3
2,4-D	ND	0.10	ug/L	1	01/12/21	CG	E515.3
Dalapon	ND	1.0	ug/L	1	01/12/21	CG	E515.3
Dicamba	ND	0.080	ug/L	1	01/12/21	CG	E515.3
Dichloroprop	ND	0.50	ug/L	1	01/12/21	CG	E515.3
Dinoseb	ND	0.20	ug/L	1	01/12/21	CG	E515.3
Pentachlorophenol	29	0.40	ug/L	10	01/12/21	CG	E515.3
Picloram	ND	0.10	ug/L	1	01/12/21	CG	E515.3
QA/QC Surrogates							
% DCAA	122		%	1	01/12/21	CG	70 - 130 %
% DCAA (Confirmation)	108		%	1	01/12/21	CG	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	3.6	ug/L	1	01/13/21	WB	SW8270D
1,2-Diphenylhydrazine	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
1,3-Dichlorobenzene	ND	2.6	ug/L	1	01/13/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2,4-Dinitrotoluene	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
2,6-Dinitrotoluene	ND	5.1	ug/L	1	01/13/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Chloronaphthalene	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
2-Chlorophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2-Nitroaniline	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
2-Nitrophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	01/13/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
3-Nitroaniline	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
4-Chloroaniline	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
4-Nitroaniline	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
4-Nitrophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
Acetophenone	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Aniline	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Benzidine	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Benzoic acid	ND	51	ug/L	1	01/13/21	WB	SW8270D
Benzyl butyl phthalate	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.6	ug/L	1	01/13/21	WB	SW8270D
Carbazole	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Dibenzofuran	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Diethyl phthalate	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Dimethylphthalate	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Di-n-butylphthalate	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Di-n-octylphthalate	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Hexachloroethane	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
Isophorone	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.1	ug/L	1	01/13/21	WB	SW8270D
Pentachloronitrobenzene	ND	2.6	ug/L	1	01/13/21	WB	SW8270D
Pentachlorophenol	24	0.82	ug/L	1	01/13/21	WB	SW8270D
Phenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	60		%	1	01/13/21	WB	15 - 110 %
% 2-Fluorobiphenyl	48		%	1	01/13/21	WB	30 - 130 %
% 2-Fluorophenol	25		%	1	01/13/21	WB	15 - 110 %
% Nitrobenzene-d5	43		%	1	01/13/21	WB	30 - 130 %
% Phenol-d5	17		%	1	01/13/21	WB	15 - 110 %
% Terphenyl-d14	82		%	1	01/13/21	WB	30 - 130 %
Semivolatiles (SIM)							
2-Methylnaphthalene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Anthracene	ND	0.09	ug/L	1	01/13/21	WB	SW8270D (SIM)

Project ID: 21A0177
Client ID: 21A0177-02

Phoenix I.D.: CH42819

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.02	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	01/13/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.02	ug/L	1	01/13/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.01	ug/L	1	01/13/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
Pyrene	ND	0.07	ug/L	1	01/13/21	WB	SW8270D (SIM)
Pyridine	ND	0.49	ug/L	1	01/13/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	53		%	1	01/13/21	WB	15 - 110 %
% 2-Fluorobiphenyl	44		%	1	01/13/21	WB	40 - 140 %
% 2-Fluorophenol	57		%	1	01/13/21	WB	15 - 110 %
% Nitrobenzene-d5	48		%	1	01/13/21	WB	40 - 140 %
% Phenol-d5	17		%	1	01/13/21	WB	15 - 110 %
% Terphenyl-d14	71		%	1	01/13/21	WB	40 - 140 %
Sample Disposal	Completed				01/07/21		

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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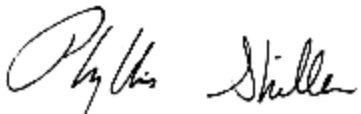

Phyllis Shiller, Laboratory Director
January 13, 2021
Official Report Release To Follow

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 13, 2021

FOR: Attn: Jessica Hoffman
Con-Test
39 Spruce Street
East Longmeadow, MA 01028

Sample Information		Custody Information		Date	Time
Matrix:	DRINKING WATER	Collected by:		01/06/21	10:00
Location Code:	CON-TEST	Received by:	SW	01/07/21	16:55
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCH42818
Phoenix ID: CH42820

Project ID: 21A0177
Client ID: 21A0177-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of DW Herbicides	Completed				01/09/21	D/D	E515
Semi-Volatile Extraction	Completed				01/12/21	AT/AT	SW3520C
Herbicides							
2,4,5-T	ND	0.50	ug/L	1	01/12/21	CG	E515.3
2,4,5-TP	ND	0.20	ug/L	1	01/12/21	CG	E515.3
2,4-D	ND	0.10	ug/L	1	01/12/21	CG	E515.3
Dalapon	ND	1.0	ug/L	1	01/12/21	CG	E515.3
Dicamba	ND	0.080	ug/L	1	01/12/21	CG	E515.3
Dichloroprop	ND	0.50	ug/L	1	01/12/21	CG	E515.3
Dinoseb	ND	0.20	ug/L	1	01/12/21	CG	E515.3
Pentachlorophenol	ND	0.040	ug/L	1	01/12/21	CG	E515.3
Picloram	ND	0.10	ug/L	1	01/12/21	CG	E515.3
QA/QC Surrogates							
% DCAA	113		%	1	01/12/21	CG	70 - 130 %
% DCAA (Confirmation)	101		%	1	01/12/21	CG	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	3.5	ug/L	1	01/13/21	WB	SW8270D
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	01/13/21	WB	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	01/13/21	WB	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	01/13/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
2-Chloronaphthalene	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
2-Chlorophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
2-Nitroaniline	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
2-Nitrophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	01/13/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
3-Nitroaniline	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
4-Nitroaniline	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
4-Nitrophenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
Acetophenone	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Aniline	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Benzidine	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Benzoic acid	ND	50	ug/L	1	01/13/21	WB	SW8270D
Benzyl butyl phthalate	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
Carbazole	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Dibenzofuran	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Diethyl phthalate	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Dimethylphthalate	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Di-n-butylphthalate	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Di-n-octylphthalate	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Hexachloroethane	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
Isophorone	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	01/13/21	WB	SW8270D
Pentachloronitrobenzene	ND	2.5	ug/L	1	01/13/21	WB	SW8270D
Phenol	ND	1.0	ug/L	1	01/13/21	WB	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	49		%	1	01/13/21	WB	15 - 110 %
% 2-Fluorobiphenyl	44		%	1	01/13/21	WB	30 - 130 %
% 2-Fluorophenol	22		%	1	01/13/21	WB	15 - 110 %
% Nitrobenzene-d5	40		%	1	01/13/21	WB	30 - 130 %
% Phenol-d5	16		%	1	01/13/21	WB	15 - 110 %
% Terphenyl-d14	84		%	1	01/13/21	WB	30 - 130 %

Semivolatiles (SIM)

2-Methylnaphthalene	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)

Project ID: 21A0177
Client ID: 21A0177-03

Phoenix I.D.: CH42820

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Anthracene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.02	ug/L	1	01/13/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	01/13/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.02	ug/L	1	01/13/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Hexachlorobenzene	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	01/13/21	WB	SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)
Nitrobenzene	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)
N-Nitrosodimethylamine	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)
Pentachlorophenol	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)
Pyrene	ND	0.07	ug/L	1	01/13/21	WB	SW8270D (SIM)
Pyridine	ND	0.50	ug/L	1	01/13/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	49		%	1	01/13/21	WB	15 - 110 %
% 2-Fluorobiphenyl	41		%	1	01/13/21	WB	40 - 140 %
% 2-Fluorophenol	47		%	1	01/13/21	WB	15 - 110 %
% Nitrobenzene-d5	42		%	1	01/13/21	WB	40 - 140 %
% Phenol-d5	15		%	1	01/13/21	WB	15 - 110 %
% Terphenyl-d14	67		%	1	01/13/21	WB	40 - 140 %
Sample Disposal	Completed				01/07/21		

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
January 13, 2021
Official Report Release To Follow

Sample Criteria Exceedances Report

GCH42818 - CON-TEST

Criteria: MA: CAM, DW, GW1

State: MA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CH42818	$515-MA1	Pentachlorophenol	EPA / 40 CFR 141 DW / 141.61 Organic MCLs	91	0.80	1	0.04	ug/L
CH42818	$515-MA1	Pentachlorophenol	MA / 310 CMR 22.00 / MMCL Inorg/Org	91	0.80	1	0.04	ug/L
CH42818	$515-MA1	Pentachlorophenol	MA / CMR 310.40.1600 / GW-1 (mg/l)	91	0.80	1	1	ug/L
CH42818	$515-MA1	Pentachlorophenol	MA / GROUNDWATER STANDARDS / GW-1	91	0.80	1	1	ug/L
CH42818	$8270-SIMFSR	1,3-Dichlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CH42818	$8270-SIMFSR	Benzoic acid	MA / CAM Protocol / SVOA AQ RL	ND	49		10	ug/L
CH42818	$8270-SIMFSR	Pentachlorophenol	EPA / 40 CFR 141 DW / 141.61 Organic MCLs	95	0.78	1	1	ug/L
CH42818	$8270-SIMFSR	Pentachlorophenol	MA / 310 CMR 22.00 / MMCL Inorg/Org	95	0.78	1	0.04	ug/L
CH42818	$8270-SIMFSR	Pentachlorophenol	MA / CMR 310.40.1600 / GW-1 (mg/l)	95	0.78	1	1	ug/L
CH42818	$8270-SIMFSR	Pentachlorophenol	MA / GROUNDWATER STANDARDS / GW-1	95	0.78	1	1	ug/L
CH42819	$515-MA1	Pentachlorophenol	EPA / 40 CFR 141 DW / 141.61 Organic MCLs	29	0.40	1	0.04	ug/L
CH42819	$515-MA1	Pentachlorophenol	MA / 310 CMR 22.00 / MMCL Inorg/Org	29	0.40	1	0.04	ug/L
CH42819	$515-MA1	Pentachlorophenol	MA / CMR 310.40.1600 / GW-1 (mg/l)	29	0.40	1	1	ug/L
CH42819	$515-MA1	Pentachlorophenol	MA / GROUNDWATER STANDARDS / GW-1	29	0.40	1	1	ug/L
CH42819	$8270-SIMFSR	1,3-Dichlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	2.6		2	ug/L
CH42819	$8270-SIMFSR	Benzoic acid	MA / CAM Protocol / SVOA AQ RL	ND	51		10	ug/L
CH42819	$8270-SIMFSR	Pentachlorophenol	EPA / 40 CFR 141 DW / 141.61 Organic MCLs	24	0.82	1	1	ug/L
CH42819	$8270-SIMFSR	Pentachlorophenol	MA / 310 CMR 22.00 / MMCL Inorg/Org	24	0.82	1	0.04	ug/L
CH42819	$8270-SIMFSR	Pentachlorophenol	MA / CMR 310.40.1600 / GW-1 (mg/l)	24	0.82	1	1	ug/L
CH42819	$8270-SIMFSR	Pentachlorophenol	MA / GROUNDWATER STANDARDS / GW-1	24	0.82	1	1	ug/L
CH42820	$8270-SIMFSR	Bis(2-ethylhexyl)phthalate	EPA / 40 CFR 141 DW / 141.61 Organic MCLs	ND	1.0	6	0.6	ug/L
CH42820	$8270-SIMFSR	Bis(2-ethylhexyl)phthalate	MA / 310 CMR 22.00 / MMCL Inorg/Org	ND	1.0	6	0.6	ug/L
CH42820	$8270-SIMFSR	1,4-Dichlorobenzene	MA / 310 CMR 22.00 / MMCL Inorg/Org	ND	2.5	5	0.5	ug/L
CH42820	$8270-SIMFSR	1,2-Dichlorobenzene	MA / 310 CMR 22.00 / MMCL Inorg/Org	ND	2.5	600	0.5	ug/L
CH42820	$8270-SIMFSR	1,2,4-Trichlorobenzene	MA / 310 CMR 22.00 / MMCL Inorg/Org	ND	5.0	70	0.5	ug/L
CH42820	$8270-SIMFSR	Benzoic acid	MA / CAM Protocol / SVOA AQ RL	ND	50		10	ug/L
CH42820	$8270-SIMFSR	1,4-Dichlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CH42820	$8270-SIMFSR	1,3-Dichlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CH42820	$8270-SIMFSR	1,2-Dichlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	2.5		2	ug/L
CH42820	$8270-SIMFSR	1,2,4-Trichlorobenzene	MA / CAM Protocol / VOA AQ RL	ND	5.0		2	ug/L
CH42820	$8270-SIMR	Hexachlorobenzene	EPA / 40 CFR 141 DW / 141.61 Organic MCLs	ND	0.50	1	0.1	ug/L
CH42820	$8270-SIMR	Hexachlorocyclopentadiene	EPA / 40 CFR 141 DW / 141.61 Organic MCLs	ND	0.50	50	0.1	ug/L
CH42820	$8270-SIMR	Benzo(a)pyrene	EPA / 40 CFR 141 DW / 141.61 Organic MCLs	ND	0.20	0.2	0.02	ug/L
CH42820	$8270-SIMR	Hexachlorobenzene	MA / 310 CMR 22.00 / MMCL Inorg/Org	ND	0.50	1	0.1	ug/L
CH42820	$8270-SIMR	Hexachlorocyclopentadiene	MA / 310 CMR 22.00 / MMCL Inorg/Org	ND	0.50	50	0.1	ug/L
CH42820	$8270-SIMR	N-Nitrosodimethylamine	MA / 310 CMR 22.00 / ORSG	ND	0.50	0.01	0.01	ug/L

SUBCONTRACT ORDER

Con-Test, a Pace Analytical Laboratory

21A0177

WCIC
5.0

SENDING LABORATORY:

Con-Test, a Pace Analytical Laboratory
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Jessica L. Hoffman

RECEIVING LABORATORY:

Phoenix Laboratory
587 Middle Turnpike East
Manchester, CT 06040
Phone :(860) 645-1102
Fax: (860) 645-0823

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 21A0177-01	**Drinking**	**Sampled:01/06/21 10:10**	[redacted] 42818	**MA MCP, GW-1**
S-515.3	01/07/21 16:30	01/13/21 10:10		reporting limit for pentachlorophonoe must be <1 ug/L
Containers Supplied: 1 L amber (A)				
Sample ID: 21A0177-02	**Drinking**	**Sampled:01/06/21 10:05**	[redacted]	**MA MCP, GW-1** 42819
S-515.3	01/07/21 16:30	01/13/21 10:05		reporting limit for pentachlorophonoe must be <1 ug/L
Containers Supplied: 1 L amber (A)				
Sample ID: 21A0177-03	**Drinking**	**Sampled:01/06/21 10:00**	[redacted]	**MA MCP, GW-1** 42820
S-515.3	01/07/21 16:30	01/13/21 10:00		reporting limit for pentachlorophonoe must be <1 ug/L
Containers Supplied: 1 L amber (A)				

Released By	Date	Received By	Date
Allan Pienkowski	1/7/21 16:47		1/7/21 1655

GCH 42818

Shannon Wilhelm

From: Bobbi Aloisa
Sent: Tuesday, January 12, 2021 10:03 AM
To: Jessica Hoffman
Cc: Shannon Wilhelm
Subject: RE: 515 Question

Jessica
We checked today and we do have sample. We can add 8270 for you.. do you need it on a rush TAT? Otherwise due date will be 1/19.

Bobbi Aloisa
Vice President | Director of Client Services
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike | Manchester, CT 06040
Direct Line: (860)-645-8728
www.phoenixlabs.com

PHOENIX
Environmental Laboratories, Inc.

From: Jessica Hoffman [mailto:jessica.hoffman@contestlabs.com]
Sent: Tuesday, January 12, 2021 8:31 AM
To: Bobbi Aloisa
Cc: Shannon Wilhelm
Subject: RE: 515 Question

Hi Bobbi,

I wanted to check in on you about this. I had not heard back.

[redacted]

Jessica Hoffman

GCH42818

Project Coordinator II

39 Spruce Street, East Longmeadow, MA 01028

o: 413.525.2332 | f: 413.525.6405 | c: 413-367-8523 | contestlabs.com

From: Jessica Hoffman <jessica.hoffman@contestlabs.com>
Sent: Friday, January 08, 2021 4:27 PM
To: 'Bobbi Aloisa' <bobbi@phoenixlabs.com>
Cc: 'Shannon Wilhelm' <shannon@phoenixlabs.com>
Subject: RE: 515 Question

They are also wondering if you can do 8270 sim on those as well if there is enough volume.

Jessica Hoffman

Project Coordinator II

39 Spruce Street, East Longmeadow, MA 01028

o: 413.525.2332 | f: 413.525.6405 | c: 413-367-8523 | contestlabs.com

From: Bobbi Aloisa <bobbi@phoenixlabs.com>
Sent: Friday, January 08, 2021 4:20 PM
To: Jessica Hoffman <jessica.hoffman@contestlabs.com>

GCH42818

Cc: Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: RE: 515 Question

Perfect thank you

Bobbi Aloisa
Vice President | Director of Client Services
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike | Manchester, CT 06040
Direct Line: (860)-645-8728
www.phoenixlabs.com

PHOENIX
Environmental Laboratories, Inc

From: Jessica Hoffman [mailto:jessica.hoffman@contestlabs.com]
Sent: Friday, January 08, 2021 4:16 PM
To: Bobbi Aloisa
Cc: Shannon Wilhelm
Subject: RE: 515 Question

Hi Bobbi,

They would like the full list for the 515 please.

Jessica Hoffman

Project Coordinator II

39 Spruce Street, East Longmeadow, MA 01028

o: 413.525.2332 | f: 413.525.6405 | c: 413-367-8523 | contestlabs.com

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A Price Analytical® Laboratory

GCH 42818

From: Bobbi Aloisa <bobbi@phoenixlabs.com>
Sent: Friday, January 08, 2021 3:56 PM
To: Jessica Hoffman <jessica.hoffman@contestlabs.com>
Cc: Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: 515 Question
Importance: High

Jessica
You only want the one compound reported on these , correct?

Bobbi Aloisa
Vice President | Director of Client Services
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike | Manchester, CT 06040
Direct Line: (860)-645-8728
www.phoenixlabs.com

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test, a Pace Analytical Laboratory	Project #: 21A0177
Project Location: Cheshire	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

21A0177-01 thru 21A0177-05

Matrices: Drinking Water Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP VPH CAM IV C ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	MassDEP EPH CAM IV B ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

<u>Data User Note:</u> Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

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

Signature: Lisa Worthington Position: Technical Representative

Printed Name: Lisa A. Worthington Date: 01/13/21