September 4, 2019

Ms. Shauna Little
U.S. Environmental Protection Agency
Office of Ecosystem Protection
EPA/OEP RGP Applications Coordinator
5 Post Office Square - Suite 100 (OEP06-01)
Boston, MA 02109-3912

Notice of Intent for Application of a Remediation General Permit
Cumberland Farms, Inc. Property #MA1058
1455-1479 Fall River Avenue
Seekonk, MA 02771

To Whom It May Concern:

Kleinfelder, on behalf of Cumberland Farms, Inc. (CFI), has prepared the enclosed Notice of Intent (NOI) for application of Remediation General Permit (RGP) for upcoming activities at Cumberland Farms, Inc. Property #MA1078, located at 1455-1479 Fall River Avenue, in Seekonk, Massachusetts. This NOI is for the discharge anticipated to be generated during temporary groundwater dewatering activities associated with the installation of two 20,000 gallon and one 10,000-gallon compartmentalized (gasoline/diesel) underground storage tanks (USTs), as well as the excavation required for the foundation of a 5,275 square foot building and installation of a fuel dispenser area with a canopy structure.

Groundwater Characterization
Depth to water at the site was gauged at depths ranging from approximately 7 to 8 feet below ground surface. In preparation for groundwater dewatering activities, a representative groundwater sample was collected on August 8, 2019. The sample was submitted to Con-Test Analytical Laboratory of East Longmeadow, MA for analysis of volatile organic compounds (VOCs) via EPA Methods 624, polynuclear aromatic hydrocarbons (PAHs) and phenols via EPA Method 625 SIM, total PCBs via EPA Method 608.3, total metals via EPA Method 200.7, 200.8 and 3500, Oil and Grease via EPA Method 1664A, chloride via EPA Method 300.0, total residual chlorine by EPA Method 4500, ammonia via EPA Method 4500-NH3, cyanide via EPA Method 4500-CN, and total suspended solids via Standard Method 2540D. Groundwater temperature (74.8 degrees F / 23.8 degrees C) and pH (5.9) were recorded in the field.

The groundwater sample collected during this sampling event indicated concentrations of total residual chlorine above the calculated WQBEL. Other analytes detected include chloride, total suspended solids and dissolved copper at concentrations below the Appendix III permissible discharge limits.

Laboratory analytical reports are included in Attachment C.

Receiving Water Characterization

Treated effluent will be discharged via a catch basin located on Warren Avenue. Discharge from the catch basin will occur through existing municipal storm sewer system into an unnamed wetland southwest of the site, located to the west of Warren Avenue. This area of wetland eventually discharges to Runnins River, farther to the west.

The owner of the public storm sewer system is being notified of the planned discharge. Permission is expected to be granted within approximately 2 weeks of the submittal of this application.

This area of wetland was sampled on August 8, 2019. The surface water sample was submitted to Con-Test Analytical Laboratory of East Longmeadow, MA for analysis of total metals and hardness via EPA Method 200.7, 200.8 and 3500, ammonia via EPA Method 4500-NH3. Receiving water analytical results are included as Attachment C. Temperature (58 degrees F / 14.44 degrees C) and pH (6.8) of the water in the wetland area were collected in the field.

Runnins River is listed on the Massachusetts 303(d) list under Category 5 Waters – "Waters requiring a TMDL." Impairment is listed for the following: Aquatic Macroinvertebrate Bioassessments, Escherichia coli, Fecal Coliform, Mercury in Fish Tissue, Nutrient / Eutrophication Biological Indicators, Dissolved Oxygen.

Proposed Treatment System

A Design Flow treatment system discharge rate of 150 gallons per minute (gpm) was used to evaluate the applicable RGP discharge standards. Extracted water from the excavation activities will be initially pumped into up to two 20,000-gallon fractionation tanks.

Following settling, extracted groundwater will be treated by passage through (at minimum) 50-micron particle filters, and through liquid-phase reactive carbon vessels. Flow will be measured using an in-line flowmeter and totalizer prior to the discharge into a catch basin and/or manhole connecting to the stormwater system on Warren Avenue.

Kleinfelder anticipates that the dewatering system will operate intermittently from approximately September, 2019 through July 2020. A Work Plan for the groundwater extraction and treatment systems satisfying the requirements of Section 2.5 of the RGP will be available at the Site prior to initiating dewatering activities. See Attachment B, Figure 4 for a Treatment System Schematic.

Notice of Intent

Preparation of this NOI has included a review of the literature pertaining to Areas of Critical Environmental Concern, (ACECs), the Endangered Species Act, and the National Historic Preservation Act:

- Review of the Massachusetts Geographic Information Systems MassDEP Priority Resources Map (Figure 5) in Attachment B shows the Site is not within an ACEC.
- An "informal consultation" with the Fish and Wildlife Service resulted in a consistency letter stating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the applicable regulations, the permit eligibility therefore meets "Criterion B". See Attachment E for a copy of the Fish and Wildlife Consistency Letter.

- This work will not affect historical properties that are listed by the United States Park Service or Massachusetts Cultural Resources. The Massachusetts Historical Commission's Massachusetts Cultural Resource Information System (MACRIS) listed 47 historic sites in Seekonk in the vicinity of Fall River Avenue and Warren Avenue. The closest is behind nearby property at 1495 Fall River Avenue, which is noted as an historic burial ground. Based on the nature of dewatering activity, it is unlikely that the discharge will affect this or any other federal or state-listed historical sites.

The proposed treatment system has been designed to reduce contaminants of concern below the applicable effluent limits. Effluent compliance monitoring will be conducted in compliance with the RGP. Additionally, the flow rate, pH, and temperature of the effluent will be monitoring in the field and recorded.

We appreciate your assistance in processing this Notice of Intent.

Should you have any questions regarding this correspondence, please do not hesitate to contact the undersigned at (617)497-7800.

Sincerely,
KLEINFELDER

Madeline Soule
Staff Professional II

Emily M. Straley
Project Manager

cc: Mr. Matthew Young, Cumberland Farms, Inc. (file)
cc: Mr. David Cabral, Seekonk Department of Public Works (electronic)
cc: Cathy Vakalopoulos, Massachusetts Department of Environmental Protection, Surface Water Discharge Permit Program, One Winter Street, 5th Floor, Boston, MA 02108

Attachment A – RGP NOI Form
Attachment B – Figures
Figure 1 – Subject Property Location Map
Figure 2 – Site Plan and Proposed Construction
Figure 3 – NOI Figure
Figure 4 – Treatment System Schematic
Figure 5 – MassDEP Priority Resource Map
Attachment C – Laboratory Analytical Data
Attachment D – Fish and Wildlife Consistency Letter
Attachment E – Massachusetts Cultural Resources in Vicinity of Site

ATTACHMENT A

RGP NOI Form

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:
Cumberland Farms #MA1058</td><td colspan="3">Site address: 1455-1479 Fall River Avenue
Street:</td></tr>
<tr><td colspan="2">City: Seekonk</td><td>State: MA</td><td>Zip: 02771</td></tr>
<tr><td colspan="3">Contact Person: Matt Young(Cumberland Farms)</td></tr>
<tr><td colspan="2">Telephone: 508-270-4477</td><td>Email: myoung@cumberlandfarms.com</td></tr>
<tr><td rowspan="4">2. Site owner
Cumberland Farms Inc

Owner is (check one): ☐ Federal ☐ State/Tribal ■ Private
☐ Other; if so, specify:</td><td colspan="3">Mailing address: 165 Flanders Road
Street:</td></tr>
<tr><td colspan="2">City: Westborough</td><td>State: MA</td><td>Zip: 01581</td></tr>
<tr><td colspan="3">Contact Person:</td></tr>
<tr><td colspan="2">Telephone:</td><td>Email:</td></tr>
<tr><td rowspan="3">3. Site operator, if different than owner</td><td colspan="3">Mailing address:
Street:</td></tr>
<tr><td colspan="2">City:</td><td>State:</td><td>Zip:</td></tr>
<tr><td colspan="4"></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="4">5. Other regulatory program(s) that apply to the site (check all that apply):
☐ MA Chapter 21e; list RTN(s): 4-13374
☐ 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):
Runnins River	MA53-01	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: Receiving water includes a wetland

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. Impairments:Aquatic Macroinvertebrate,Bioassessments,Escherichia coli,Fecal Coliform,Mercury in Fish Tissue,Nutrient/Eutrophication,Biological

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.	NA no dilution
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.	No dilution

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:

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: Inorganics	
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	0.025 mg/L Total residual chlorine detected. Water is groundwater and has not been chlorinated

D. Discharge information

1.The discharge(s) is a(n) (check any that apply): ■ Existing discharge ☐ New discharge ☐ New source	
Outfall(s): Outfall on Marnoch Drive	Outfall location(s): (Latitude, Longitude) 41.779953, -71.318046

Discharges enter the receiving water(s) via (check any that apply): ☐ Direct discharge to the receiving water ■ Indirect discharge, if so, specify:

Discharge to a catch basin located at Fall River Ave

☐ 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: Expected concurrent with EPA authorization

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): September 2019- July 2020

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	4500	0.075		<0.075	Report mg/L	---
Chloride		✔	1	EPA 300.0	5.0		110	Report µg/l	---
Total Residual Chlorine		✔	1	SM21-22	0.020 mg/L		0.026 mg/L	0.2 mg/L	0.011 mg/L
Total Suspended Solids		✔	1	SM21-22	0.67		2.9 mg/L	30 mg/L	---
Antimony	✔		1	EPA 200.8	1.0		<1.0	206 µg/L	640
Arsenic	✔		1	EPA 200.8	0.80		<0.80	104 µg/L	10
Cadmium	✔		1	EPA 200.8	0.20		<0.20	10.2 µg/L	0.0969
Chromium III	✔		1	Calculated	NA		0.0	323 µg/L	27.7
Chromium VI	✔		1	SM21-22	4		<4	323 µg/L	11.4
Copper		✔	1	EPA 200.8	1.0		1.4	242 µg/L	2.9
Iron	✔		1	EPA 200.7	50.0		<50.0	5,000 µg/L	1000
Lead	✔		1	EPA 200.8	0.50		<0.50	160 µg/L	0.54
Mercury	✔		1	EPA 245.1	0.10		<0.10	0.739 µg/L	0.91
Nickel	✔		1	EPA 200.8	5.0		<5.0	1,450 µg/L	16.1
Selenium	✔		1	EPA 200.8	5.0		<5.0	235.8 µg/L	5.0
Silver	✔		1	EPA 200.8	0.20		<0.20	35.1 µg/L	0.3
Zinc	✔		1	EPA 200.8	10		<10	420 µg/L	37.0
Cyanide	✔		1	4500	0.005		<0.005	178 mg/L	5.2
B. Non-Halogenated VOCs									
Total BTEX	✔		1	624.1	8.00		<8.00	100 µg/L	---
Benzene	✔		1	624.1	1.00		<1.00	5.0 µg/L	---
1,4 Dioxane	✔		1	SW-846	0.19		<0.19	200 µg/L	---
Acetone	✔							7.97 mg/L	---
Phenol	✔							1,080 µg/L	300

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	2.00		<2.00	4.4 µg/L	1.6
1,2 Dichlorobenzene	✔		1	624.1	2.00		<2.00	600 µg/L	---
1,3 Dichlorobenzene	✔		1	624.1	2.00		<2.00	320 µg/L	---
1,4 Dichlorobenzene	✔		1	624.1	2.00		<2.00	5.0 µg/L	---
Total dichlorobenzene	✔		1	624.1	6.00		<6.00	763 µg/L in NH	---
1,1 Dichloroethane	✔		1	624.1	2.00		<2.00	70 µg/L	---
1,2 Dichloroethane	✔		1	624.1	2.00		<2.00	5.0 µg/L	---
1,1 Dichloroethylene	✔		1	624.1	2.00		<2.00	3.2 µg/L	---
Ethylene Dibromide	✔		1					0.05 µg/L	---
Methylene Chloride	✔		1	624.1	5.00		<5.00	4.6 µg/L	---
1,1,1 Trichloroethane	✔		1	624.1	2.00		<2.00	200 µg/L	---
1,1,2 Trichloroethane	✔		1	624.1	2.00		<2.00	5.0 µg/L	---
Trichloroethylene	✔		1	624.1	2.00		<2.00	5.0 µg/L	---
Tetrachloroethylene	✔		1	624.1	2.00		<2.00	5.0 µg/L	3.3
cis-1,2 Dichloroethylene	✔		1		2.00		<2.00	70 µg/L	---
Vinyl Chloride	✔		1	624.1	2.00		<2.00	2.0 µg/L	---
D. Non-Halogenated SVOCs									
Total Phthalates	✔		1	625.1	9.71		<58.26	190 µg/L	----
Diethylhexyl phthalate	✔		1	625.1	9.71		<9.71	101 µg/L	2.2
Total Group I PAHs	✔		1	625.1	0.19		<19.77	1.0 µg/L	---
Benzo(a)anthracene	✔		1	625.1SIM	0.049		<0.049	As Total PAHs	0.0038
Benzo(a)pyrene	✔		1	625.1SIM	0.097		<0.097		0.0038
Benzo(b)fluoranthene	✔		1	625.1SIM	0.049		<0.049		0.0038
Benzo(k)fluoranthene	✔		1	625.1SIM	0.19		<0.19		0.0038
Chrysene	✔		1	625.1SIM	0.19		<0.19		0.0038
Dibenzo(a,h)anthracene	✔		1	625.1SIM	0.19		<0.19		0.0038
Indeno(1,2,3-cd)pyrene	✔		1	625.1SIM	0.19		<0.19		0.0038

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	4.85		<43.65	100 µg/L	---
Naphthalene	✔		1	625.1	4.85		<4.85	20 µg/L	---
E. Halogenated SVOCs									
Total PCBs	✔		1	608.3	0.0971		<0.6797	0.000064 µg/L	---
Pentachlorophenol	✔		1	625.1SIM	0.97		<0.97	1.0 µg/L	---
F. Fuels Parameters									
Total Petroleum Hydrocarbons	✔		1	EPA1664	1.6		<1.6	5.0 mg/L	---
Ethanol	✔		1	624.1	0.050 mg/L		<0.050 mg/L	Report mg/L	---
Methyl-tert-Butyl Ether	✔		1	624.1	2.00		<2.00	70 µg/L	20
tert-Butyl Alcohol	✔							120 µg/L in MA 40 µg/L in NH	---
tert-Amyl Methyl Ether	✔							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	YSI			5.9		
Temperature			1	YSI			23.8		

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.
Onsite treatment using a fractionation tank, sediment filters, and granular activated carbon if needed, prior to discharge to a catch basin.

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:

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: pump Is use of a flow meter feasible? (check one): ■ Yes ☐ No, if so, provide justification:	150
Provide the proposed maximum effluent flow in gpm.	150
Provide the average effluent flow in gpm.	50
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:
N/A

2. Provide the following information for each chemical/additive, using attachments, if necessary:
N/A
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 N/A

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.

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

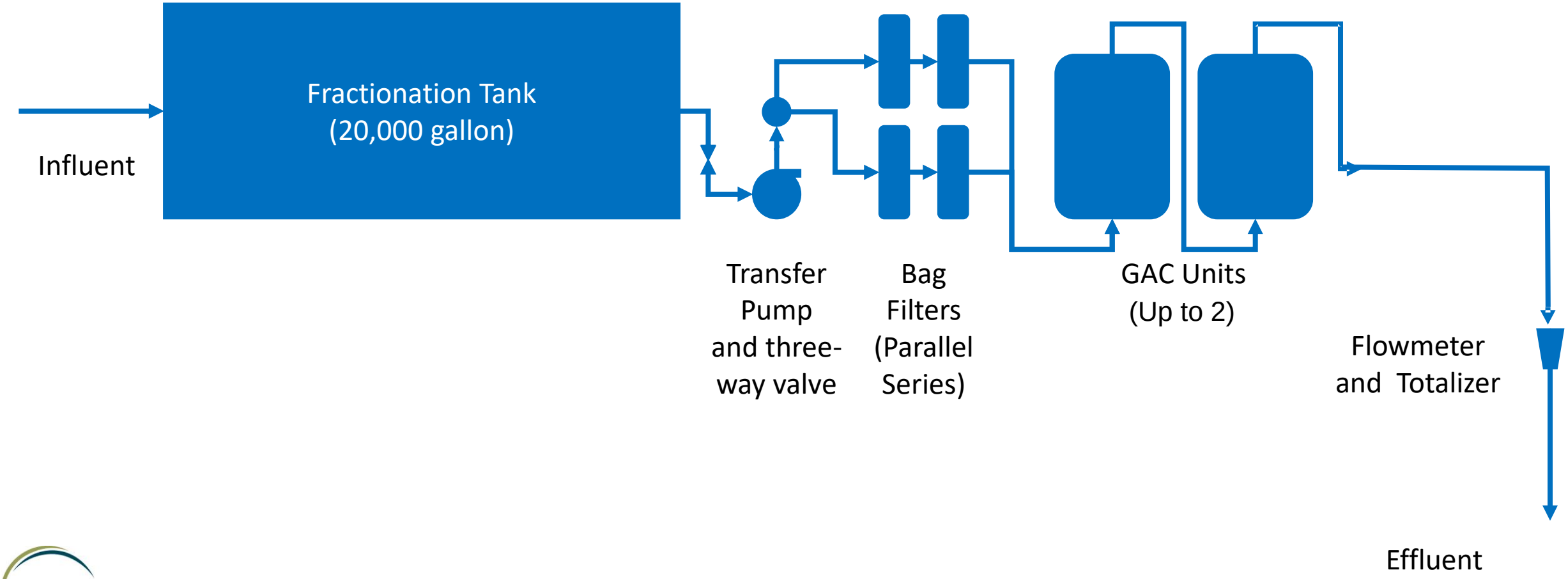
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage 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:	I certify that a BMPP meeting the requirements of this general permit will be developed and 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: Matthew D. Young	Date: 09/26/2019
Print Name and Title: Matthew D Young, Senior Environmental Project Manager	

ATTACHMENT B

Figures

Figure 4
Proposed Treatment System Schematic



KLEINFELDER
Bright People. Right Solutions.

MassDEP - Bureau of Waste Site Cleanup

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

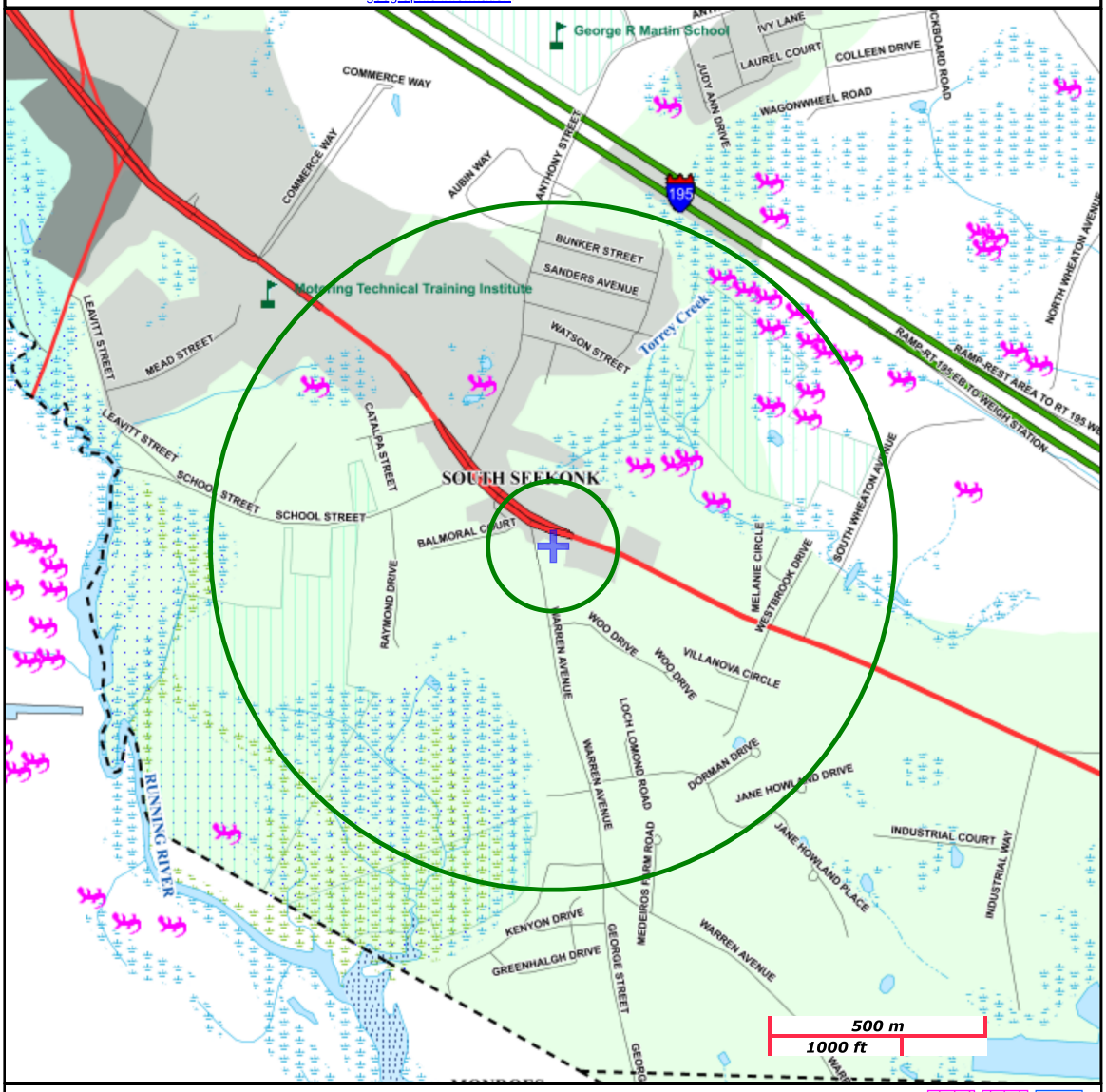
Site Information:

1455 FALL RIVER AVE SEEKONK, MA

NAD83 UTM Meters:
4628681mN , 307454mE (Zone: 19)
September 3, 2019

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: https://www.mass.gov/orgs/massgis-bureau-of-geographic-information.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major,PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source

Non Potential Drinking Water Source Area: Medium, High (Yield)

PWS Protection Areas: Zone II, IWPA, Zone A

Hydrography: Open Water, PWS Reservoir, Tidal Flat

Wetlands: Freshwater, Saltwater, Cranberry Bog

FEMA 100yr Floodplain; Protected Open Space; ACEC

Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential

Solid Waste Landfill; PWS: Com.GW,SW, Emerg.,Non-Com.

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

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www.kleinfelder.com

PROJECT NO.	MA1058
DRAWN:	JULY 2017
DRAWN BY:	ANG
CHECKED BY:	-----
FILE NAME:	MA1058_SEEKONK_LOC

SUBJECT PROPERTY LOCATION MAP

CUMBERLAND FARMS INC. #MA1058
1455-1479 FALL RIVER AVENUE
SEEKONK, MASSACHUSETTS

FIGURE
1

LEGEND		
EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		BUILDING SETBACK/ BUFFER
	6	PARKING SPACES
	2'R	CURB RADIUS
		ACCESSIBLE PAVEMENT MARKINGS
		RAMP UPSLOPE DIRECTION
		SIGN
		LIGHT
		UTILITY POLE
		FENCE
		WOODEN GUIDERAIL
		TREE LINE
		BUILDING COLUMN
		PAINTED ARROW
		DIRECTIONAL ARROW
		CONCRETE PAD/SIDEWALK
		ACCESSIBLE RAMP
		BITUMINOUS CONCRETE SIDEWALK
I.P.		IRON PIPE/IRON PIN
		WELCOME SIGNS
		SEE YOU SOON SIGNS

GENERAL ABBREVIATIONS	
ASSESSORS PARCEL	A.P.
BOTTOM OF CURB	BC
BITUMINOUS CONCRETE CURB	BCC
BITUMUNOUS CONCRETE	BIT. CONC
BOTTOM OF WALL	BW
CATCH BASIN	CB
CHAIN LINK FENCE	C.L.F.
CLEANOUT	CO
CONCRETE SURFACE	CONC
DRAIN MANHOLE	DMH
DOUBLE WALL FIBER GLASS	DWFG
DASHED WHITE LINE	DWL
DOUBLE YELLOW CENTERLINE	DYCL
EDGE OF PAVEMENT	EOP
EXTRUDED CONCRETE CURB	ECC
FINISHED FLOOR ELEVATION	FF=
FRONT YARD	FY
GRANITE CURB	GC
VERTICAL GRANITE CURB	VGC
SLOPED GRANITE CURB	SGC
GAS METER	GM
HIGH DENSITY POLYETHYLENE	HDPE
INVERT ELEVATION	I=
LINEAL FEET	LF
LANDSCAPED AREA	LA
MONOLITHIC CONCRETE CURB	MCC
MATCH EXISTING	ME
INVERT NOT AVAILABLE	N/A
NOW OR FORMERLY	N/F
ON CENTER	OC
PRECAST CONCRETE CURB	PCC
RIM ELEVATION	R=
ROOF DRAIN	RD
REMOVE	REM
REAR YARD	RY
SOLID WHITE EDGE LINE	SWEL
SOLID WHITE LINE	SWL
SIDE YARD	SY
SOLID YELLOW LINE	SYL
TOP OF CURB	TC
TOP OF WALL	TW
UTILITY POLE	UP

MUTCD REFERENCE	SIGN
R1-1 30"x30"	STOP
R3-2 24"x24"	
R5-1 24"x24"	DO NOT ENTER
R7-8 12"x18"	RESERVED PARKING
R7-8a 12"x6"	VAN ACCESSIBLE
– 12"x18"	EMPLOYEE PARKING

PARKING & LOADING INFORMATION

USE	REQUIRED	PROVIDED
PARKING: COMMERCIAL 1 SP/400 S.F. GFA; 5,275/400 = 14 SPACES (MIN) 1 SP/200 S.F. GFA; 5,275/200 = 26 SPACES (MAX)	14 SPACES (MIN) 26 SPACES (MAX)	26 SPACES
LOADING: BUILDINGS MORE THAN 5,000 S.F. 1 SP 10'W x 40'L x 14'H	1 SPACE	1 SPACE

LAND COVERAGE CALCULATIONS

TOTAL AREA: 1.49± ACRES

COVER	EXISTING	PROPOSED
BUILDING/CANOPY	0.25± ACRES	0.30± ACRES
PAVEMENT	0.99± ACRES	0.59± ACRES
GRASS/PERVIOUS	0.25± ACRES	0.60± ACRES
TOTAL	1.49± ACRES	1.49± ACRES

ZONING INFORMATION

ZONING DISTRICT : LOCAL BUSINESS (LB)

REGULATION	REQUIRED	EXISTING	PROPOSED
MIN. LOT AREA	22,500 SF	VARIES	65,288± S.F.
MIN. LOT FRONTAGE	150'	VARIES	321'± (FRA) 267'± (WA)
MIN. LOT DEPTH	NONE	N/A	N/A
MIN. FY SETBACK (BLDG)	50'	VARIES	50.1'±
MIN. SY SETBACK (BLDG)	15' (1)	VARIES	48.5'±
MIN. RY SETBACK (BLDG)	35'	N/A	N/A
MIN. FY SETBACK (CANOPY)	50'	16.8'±	31.1'± (2)
MIN. SY SETBACK (CANOPY)	15'	N/A	68.6'±
MIN. RY SETBACK (CANOPY)	35'	N/A	N/A
MAX. BUILDING HEIGHT	3 STY/40 FT	VARIES	1 STY/ 33'±
MAX LOT COVERAGE	40%	82%±	60%± (2)

(1) IF ABUTTING RESIDENTIAL, SIDE YARD SETBACK IS THE SAME AS THE RESIDENTIAL ZONE OF THE ABUTTING LOT. THEREFORE, SIDE YARD EQUALS 35 FEET FOR A 1 STORY BUILDING.
(2) VARIANCE REQUIRED; LESS NON-CONFORMING THAN EXISTING.

SITE LAYOUT NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND EXTERIOR FEATURES INCLUDING UTILITY METERS, BOLLARDS, DOORS, PILASTERS, RAMPS, ETC.
2. ALL LIMITS OF PAVEMENT SHALL BE CURBED, UNLESS OTHERWISE NOTED.
3. ALL ONSITE CURB SHALL BE SLOPED GRANITE AND VERTICAL GRANITE AND OFFSITE CURB SHALL BE VERTICAL GRANITE, UNLESS OTHERWISE SPECIFIED. SLOPED GRANITE CURB SHALL MEET VERTICAL GRANITE CURB VIA A TRANSITIONAL CURB STONE INSTALLED FULLY WITHIN BITUMINOUS PAVEMENT LIMITS.
4. NON-ACCESSIBLE PARKING SPACE DIMENSIONS AS SHOWN ON THE PLAN ARE 10' WIDE x 20' LONG.
5. NON-ACCESSIBLE PAVEMENT MARKINGS AND STRIPING SHALL BE PAINTED WITH 2 COATS OF PAINT (WHITE OR YELLOW, SEE PLAN) PER FEDERAL SPECIFICATION TI-P-115 TYPE 1: ALKYD.
6. ON-SITE PAVEMENT LETTERS SHALL BE 2' WIDE X 2' LONG.
7. STOP BARS SHALL BE 12" WIDE AND SOLID/DASHED LINES SHALL BE 4" IN WIDTH (SEE SITE PLAN FOR LENGTH & COLOR).
8. ACCESSIBLE PARKING SPACES SHALL CONFORM TO THE LATEST EDITION OF THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) AND STATE SPECIFIC REQUIREMENTS AS SHOWN ON THE SITE LAYOUT PLAN.
9. DIAGONAL STRIPING SHALL CONSIST OF SOLID LINES ORIENTED AT A 45 DEGREE ANGLE AND SPACED 3' ON CENTER. ACCESSIBLE PARKING AISLE STRIPING SHALL BE AZURE BLUE AND OTHER DIAGONAL STRIPING SHALL BE THE COLOR NOTED ON THE PLANS.
10. DIRECTIONAL AND ACCESSIBLE SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR COLOR AND SIZE.
11. ACCESSIBLE RAMP LENGTHS MAY VARY. REFER TO SITE PLAN FOR ACTUAL DIMENSIONS.
12. ALL FLAT WORK WITHIN THE RIGHT OF WAY SHALL CONFORM TO MUNICIPAL/STATE STANDARDS.
13. SNOW SHALL NOT BE STORED IN ANY LANDSCAPED AREAS, EXCEPT FOR DESIGNATED SNOW STORAGE AREAS, AND SHALL NOT BE STORED IN ANY MANNER WHICH AFFECTS VISIBILITY FOR PEDESTRIANS AND VEHICLES. THE CLEARING OF SNOW MUST COMMENCE WHEN STOCKPILED SNOW EITHER IMPEDES THE SIDEWALK OR PARKING SPACE ACCESS, AT WHICH TIME, THE APPLICANT WOULD BE EXPECTED TO REMOVE THE SNOW.
14. REPLACEMENT PAVEMENT AS A RESULT OF UTILITY AND DRAINAGE TRENCHING WITHIN THE RIGHT-OF-WAY SHALL MATCH EXISTING PAVEMENT THICKNESS.
15. SITE LIGHTS SHALL BE INSTALLED PER DETAIL. CONTRACTOR SHALL NOTIFY THE ENGINEER IF THIS DISTANCE CANNOT BE ACHIEVED DUE TO DRAINAGE OR UTILITY CONFLICTS. REFER TO DETAILS FOR SITE LIGHT POLE BASE DETAILS AND SPECIFICATIONS.

GENERAL NOTES

1. ZONING INFORMATION OBTAINED FROM THE TOWN OF SEEKONK ZONING BY-LAWS.
2. THE PROJECT SITE INCLUDES ASSESSOR'S PARCELS 101 & 108 ON MAP 1, TOTALING 65,288± SF (1.49± ACRES).
3. THE PROJECT LIES WITHIN THE LOCAL BUSINESS DISTRICT AND DOES NOT APPEAR TO LIE WITHIN AN OVERLAY DISTRICT. ZONING INFORMATION CONTAINED HEREON IS FOR THE LOCAL BUSINESS DISTRICT.
4. MODIFICATIONS TO THIS PLAN MAY OCCUR AS UNFORESEEN CONDITIONS ARISE. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.
5. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, SITE ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION.
6. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS, AND PLANT SPECIFICATIONS TO THE OWNER AND SITE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
7. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF THE CONSTRUCTION.

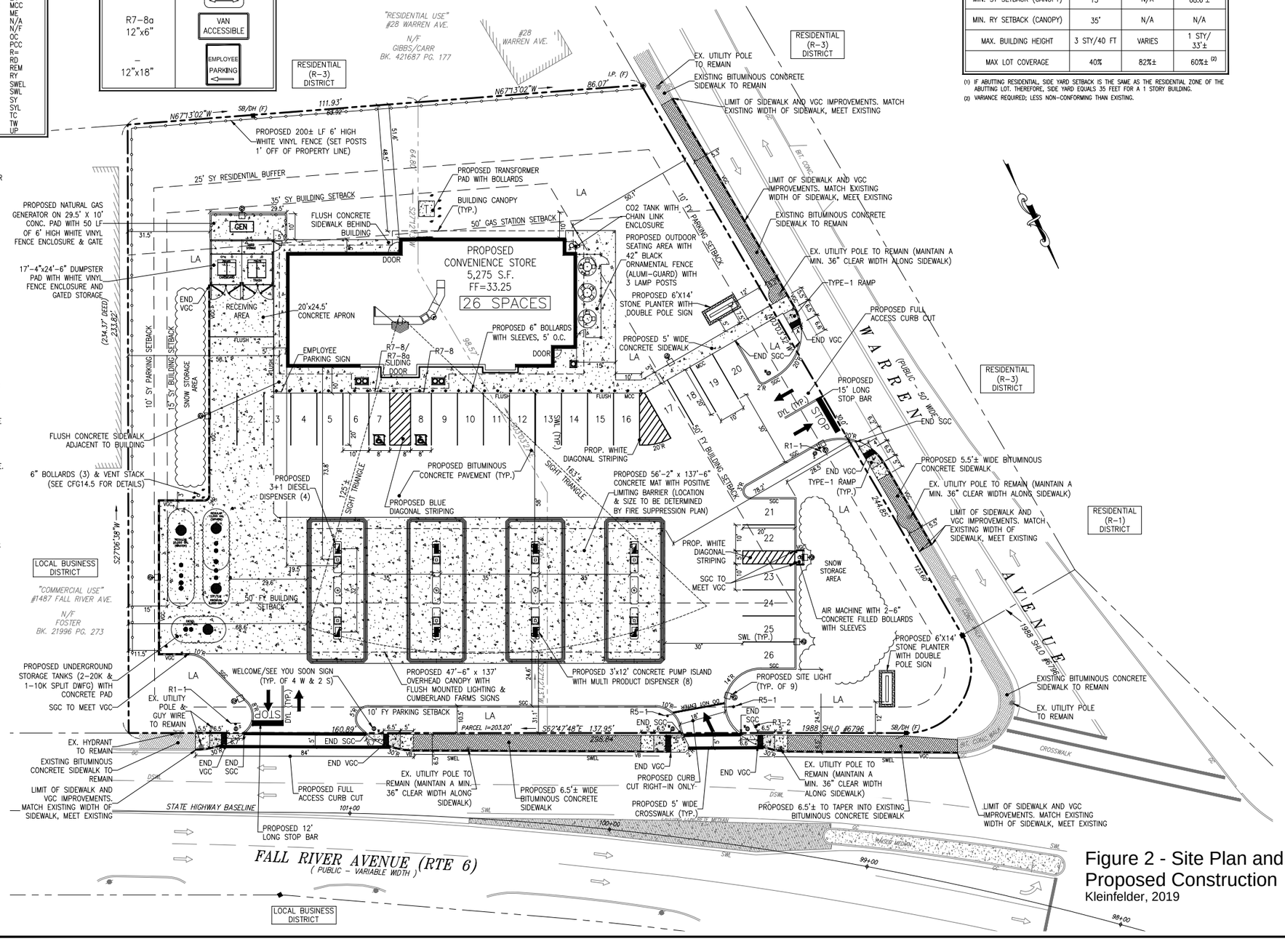


Figure 2 - Site Plan and Proposed Construction
Kleinfelder, 2019

CONSTRUCTION PLANS

REVISIONS:

REV	DATE	COMMENT
1	03/12/18	REV PER CLIENT COMMENTS
2	05/17/18	REV PER PEER REVIEW COMMENTS
3	09/05/18	ISSUED 90% PLANS
4	10/12/18	ISSUED 100% PLANS
5	10/16/18	REV PER DOT COMMENTS
6	02/08/19	REV PER DOT COMMENTS

SCALE:
20 0 10 20 40
GRAPHIC SCALE IN FEET

DESIGNED BY: JDW
CHECK BY: PRH

SEAL:
COMMONWEALTH OF MASSACHUSETTS
PHILIP R. HENRY CIVIL No. 48547 REGISTERED PROFESSIONAL ENGINEER
PHILIP R. HENRY, P.E.

PREPARED FOR:
T.M. CROWLEY & ASSOCIATES
501 PENNSYLVANIA PKWY, SUITE 160
INDIANAPOLIS, IN 46280
Cumberland FARMS
165 FLANDERS ROAD
WESTBOROUGH, MA 01581

PROJECT:
1455 & 1479 FALL RIVER AVENUE
SEEKONK, MA 02771

RAZE/REBUILD & ADD LAND
STORE # 0199 VSH # V1058
ORACLE # MA1058

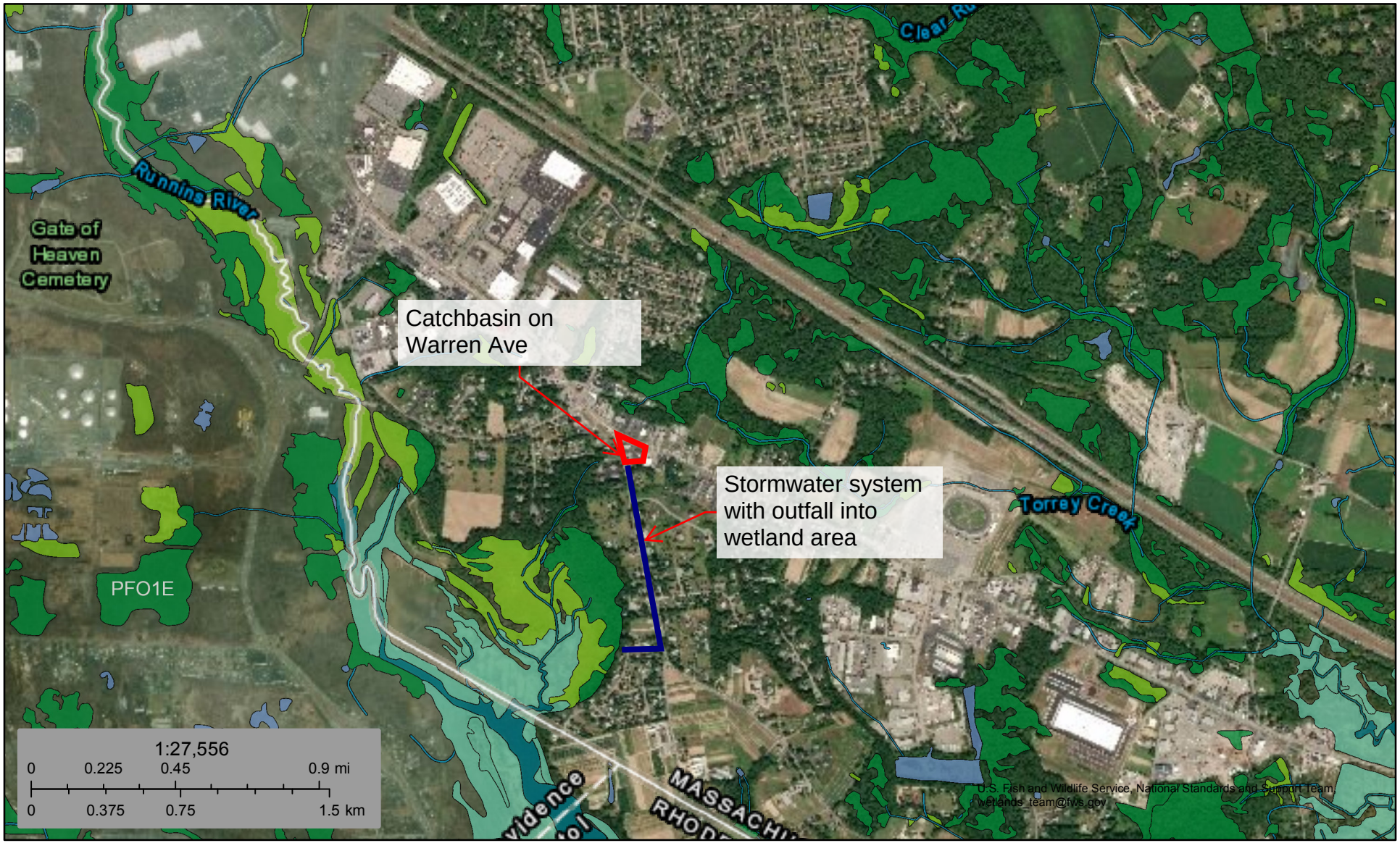
PREPARED BY:
CIVIL DESIGN GROUP, LLC
21 HIGH STREET, SUITE 207
NORTH ANDOVER, MA 01845
www.cdgengineering.com
p: 978-794-5400 f: 978-965-3971

SHEET:
SITE PLAN
CFG04.0

CDG PROJECT #: 17038
DATE: 12/22/2017

U.S. Fish and Wildlife Service
National Wetlands Inventory

Figure 3 - NOI Figure



September 3, 2019

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

ATTACHMENT C

Laboratory Analytical Data

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

August 20, 2019

Madeline Soule
Kleinfelder - Cambridge, MA
1 Beacon Street, Suite 8100
Boston, MA 02108

Project Location: 1479 Fall River Ave., Seekonk, MA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 19H0483

Enclosed are results of analyses for samples received by the laboratory on August 8, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

Table of Contents (continued)

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

Kleinfelder - Cambridge, MA
1 Beacon Street, Suite 8100
Boston, MA 02108
ATTN: Madeline Soule

REPORT DATE: 8/20/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19H0483

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

PROJECT LOCATION: 1479 Fall River Ave., Seekonk, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-301	19H0483-01	Ground Water		121,4500CN-CE	MA M-MA-086/CT PH-0574/NY11148
				121,4500NH3-BH	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	
				SM19-22 4500 NH3 C	MA M-MA-086/CT PH-0574/NY11148
				SM21-22 2540D	
				SM21-22 3500 Cr B	
				SM21-22 4500 CL G	
				SM21-22 4500 CN E	MA M-MA-086/CT PH-0574/NY11148
				SW-846 8270D	
				Tri Chrome Calc.	

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

CASE NARRATIVE SUMMARY

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

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

625.1

Qualifications:

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.

Analyte & Samples(s) Qualified:

Benzidine
S039171-CCV1

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
S039171-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:

Pentachlorophenol (SIM)
B238008-BLK1, B238008-BS1, B238008-BSD1, S039369-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
S039171-CCV1

Z-01a

This compound was calibrated using non-linear calibration.

Analyte & Samples(s) Qualified:

Pentachlorophenol (SIM)
19H0483-01[MW-301], B238008-BLK1, B238008-BS1, B238008-BSD1, S039323-CCV1, S039369-CCV1

EPA 200.8

Qualifications:

L-07

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

Analyte & Samples(s) Qualified:

Silver
B237683-BS1

R-04

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

Copper
19H0483-01[MW-301], B238151-DUP1

EPA 300.0

Qualifications:

MS-19

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

Analyte & Samples(s) Qualified:

Chloride
19H0483-01[MW-301], B237695-MS1

SM21-22 4500 CL G

Qualifications:

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

Z-01

SM 4500 test had calibration points outside of acceptable back-calculated recoveries. Reanalysis yielded similar results.

Analyte & Samples(s) Qualified:

Chlorine, Residual

19H0483-01[MW-301], B237631-BLK1, B237631-BS1, B237631-BSD1

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

Lisa A. Worthington
Technical Representative

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

Project Location: 1479 Fall River Ave., Seekonk, M Sample Description: Work Order: 19H0483

Date Received: 8/8/2019

Field Sample #: MW-301 Sampled: 8/8/2019 14:20

Sample ID: 19H0483-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<1.00	1.00	0.180	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Bromodichloromethane	<2.00	2.00	0.160	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Bromoform	<2.00	2.00	0.460	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Bromomethane	<2.00	2.00	0.780	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Carbon Tetrachloride	<2.00	2.00	0.110	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Chlorobenzene	<2.00	2.00	0.150	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Chlorodibromomethane	<2.00	2.00	0.210	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Chloroethane	<2.00	2.00	0.350	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Chloroform	<2.00	2.00	0.170	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Chloromethane	<2.00	2.00	0.450	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
1,2-Dichlorobenzene	<2.00	2.00	0.160	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
1,3-Dichlorobenzene	<2.00	2.00	0.120	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
1,4-Dichlorobenzene	<2.00	2.00	0.130	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
1,2-Dichloroethane	<2.00	2.00	0.410	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
1,1-Dichloroethane	<2.00	2.00	0.160	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
1,1-Dichloroethylene	<2.00	2.00	0.320	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
trans-1,2-Dichloroethylene	<2.00	2.00	0.310	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
1,2-Dichloropropane	<2.00	2.00	0.200	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
cis-1,3-Dichloropropene	<2.00	2.00	0.130	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
trans-1,3-Dichloropropene	<2.00	2.00	0.230	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Ethanol	<50.0	50.0	27.9	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Ethylbenzene	<2.00	2.00	0.130	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Methyl tert-Butyl Ether (MTBE)	<2.00	2.00	0.250	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Methylene Chloride	<5.00	5.00	0.340	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
1,1,2,2-Tetrachloroethane	<2.00	2.00	0.220	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Tetrachloroethylene	<2.00	2.00	0.180	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Toluene	<1.00	1.00	0.140	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
1,1,1-Trichloroethane	<2.00	2.00	0.200	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
1,1,2-Trichloroethane	<2.00	2.00	0.160	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Trichloroethylene	<2.00	2.00	0.240	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Trichlorofluoromethane (Freon 11)	<2.00	2.00	0.330	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
Vinyl Chloride	<2.00	2.00	0.450	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
m+p Xylene	<2.00	2.00	0.300	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF
o-Xylene	<2.00	2.00	0.170	µg/L	1		624.1	8/9/19	8/9/19 9:57	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		8/9/19 9:57
Toluene-d8	98.8	70-130		8/9/19 9:57
4-Bromofluorobenzene	94.6	70-130		8/9/19 9:57

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Project Location: 1479 Fall River Ave., Seekonk, M Sample Description: Work Order: 19H0483

Date Received: 8/8/2019

Field Sample #: MW-301 Sampled: 8/8/2019 14:20

Sample ID: 19H0483-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo(a)anthracene (SIM)	<0.049	0.049	µg/L	1		625.1	8/13/19	8/19/19 11:48	CLA
Benzo(a)pyrene (SIM)	<0.097	0.097	µg/L	1		625.1	8/13/19	8/19/19 11:48	CLA
Benzo(b)fluoranthene (SIM)	<0.049	0.049	µg/L	1		625.1	8/13/19	8/19/19 11:48	CLA
Benzo(k)fluoranthene (SIM)	<0.19	0.19	µg/L	1		625.1	8/13/19	8/19/19 11:48	CLA
Bis(2-ethylhexyl)phthalate (SIM)	<0.97	0.97	µg/L	1		625.1	8/13/19	8/19/19 11:48	CLA
Chrysene (SIM)	<0.19	0.19	µg/L	1		625.1	8/13/19	8/19/19 11:48	CLA
Dibenz(a,h)anthracene (SIM)	<0.19	0.19	µg/L	1		625.1	8/13/19	8/19/19 11:48	CLA
Indeno(1,2,3-cd)pyrene (SIM)	<0.19	0.19	µg/L	1		625.1	8/13/19	8/19/19 11:48	CLA
Pentachlorophenol (SIM)	<0.97	0.97	µg/L	1	Z-01a	625.1	8/13/19	8/19/19 11:48	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol (SIM)	58.0	15-110		8/19/19 11:48
Phenol-d6 (SIM)	44.3	15-110		8/19/19 11:48
Nitrobenzene-d5 (SIM)	102	30-130		8/19/19 11:48
2-Fluorobiphenyl (SIM)	69.9	30-130		8/19/19 11:48
2,4,6-Tribromophenol (SIM)	106	15-110		8/19/19 11:48
p-Terphenyl-d14 (SIM)	80.3	30-130		8/19/19 11:48

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Project Location: 1479 Fall River Ave., Seekonk, M Sample Description: Work Order: 19H0483

Date Received: 8/8/2019

Field Sample #: MW-301 Sampled: 8/8/2019 14:20

Sample ID: 19H0483-01

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	<4.85	4.85	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Acenaphthylene	<4.85	4.85	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Anthracene	<4.85	4.85	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Benzo(g,h,i)perylene	<4.85	4.85	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Butylbenzylphthalate	<9.71	9.71	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Di-n-butylphthalate	<9.71	9.71	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Diethylphthalate	<9.71	9.71	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Dimethylphthalate	<9.71	9.71	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Di-n-octylphthalate	<9.71	9.71	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Bis(2-Ethylhexyl)phthalate	<9.71	9.71	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Fluoranthene	<4.85	4.85	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Fluorene	<4.85	4.85	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Naphthalene	<4.85	4.85	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Phenanthrene	<4.85	4.85	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL
Pyrene	<4.85	4.85	µg/L	1		625.1	8/13/19	8/16/19 14:26	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	46.7	15-110		8/16/19 14:26
Phenol-d6	33.8	15-110		8/16/19 14:26
Nitrobenzene-d5	71.0	30-130		8/16/19 14:26
2-Fluorobiphenyl	75.8	30-130		8/16/19 14:26
2,4,6-Tribromophenol	78.5	15-110		8/16/19 14:26
p-Terphenyl-d14	81.7	30-130		8/16/19 14:26

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Project Location: 1479 Fall River Ave., Seekonk, M Sample Description: Work Order: 19H0483

Date Received: 8/8/2019

Field Sample #: MW-301 Sampled: 8/8/2019 14:20

Sample ID: 19H0483-01

Sample Matrix: Ground Water

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.19	µg/L	1		SW-846 8270D	8/13/19	8/16/19 14:15	CLA

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	24.1	15-110					8/16/19 14:15

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Date Received: 8/8/2019

Field Sample #: MW-301 Sampled: 8/8/2019 14:20

Sample ID: 19H0483-01

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]	<0.0971	0.0971	0.0893	µg/L	1		608.3	8/14/19	8/20/19 8:21	TG
Aroclor-1221 [1]	<0.0971	0.0971	0.0782	µg/L	1		608.3	8/14/19	8/20/19 8:21	TG
Aroclor-1232 [1]	<0.0971	0.0971	0.0966	µg/L	1		608.3	8/14/19	8/20/19 8:21	TG
Aroclor-1242 [1]	<0.0971	0.0971	0.0840	µg/L	1		608.3	8/14/19	8/20/19 8:21	TG
Aroclor-1248 [1]	<0.0971	0.0971	0.0922	µg/L	1		608.3	8/14/19	8/20/19 8:21	TG
Aroclor-1254 [1]	<0.0971	0.0971	0.0510	µg/L	1		608.3	8/14/19	8/20/19 8:21	TG
Aroclor-1260 [1]	<0.0971	0.0971	0.0951	µg/L	1		608.3	8/14/19	8/20/19 8:21	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.7	30-150		8/20/19 8:21
Decachlorobiphenyl [2]	87.5	30-150		8/20/19 8:21
Tetrachloro-m-xylene [1]	64.6	30-150		8/20/19 8:21
Tetrachloro-m-xylene [2]	68.5	30-150		8/20/19 8:21

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Project Location: 1479 Fall River Ave., Seekonk, M Sample Description: Work Order: 19H0483

Date Received: 8/8/2019

Field Sample #: MW-301 Sampled: 8/8/2019 14:20

Sample ID: 19H0483-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:35	MJH
Arsenic	ND	0.80		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:35	MJH
Cadmium	ND	0.20		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:35	MJH
Chromium	ND	1.0		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:35	MJH
Chromium, Trivalent	0.0			mg/L	1		Tri Chrome Calc.	8/9/19	8/12/19 13:10	MJH
Copper	ND	1.0		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:35	MJH
Iron	ND	0.050		mg/L	1		EPA 200.7	8/10/19	8/12/19 15:48	MJH
Lead	ND	0.50		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:35	MJH
Mercury	ND	0.00010		mg/L	1		EPA 245.1	8/9/19	8/9/19 12:48	AJL
Nickel	ND	5.0		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:35	MJH
Selenium	ND	5.0	1.6	µg/L	1		EPA 200.8	8/9/19	8/12/19 12:35	MJH
Silver	ND	0.20		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:35	MJH
Zinc	ND	10		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:35	MJH
Hardness	25			mg/L	1		EPA 200.7	8/10/19	8/12/19 15:48	MJH

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Project Location: 1479 Fall River Ave., Seekonk, M Sample Description: Work Order: 19H0483

Date Received: 8/8/2019

Field Sample #: MW-301 Sampled: 8/8/2019 14:20

Sample ID: 19H0483-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0		µg/L	1		EPA 200.8	8/15/19	8/16/19 11:54	QNW
Arsenic	ND	0.80		µg/L	1		EPA 200.8	8/15/19	8/16/19 11:54	QNW
Cadmium	ND	0.20		µg/L	1		EPA 200.8	8/15/19	8/16/19 11:54	QNW
Chromium	ND	1.0		µg/L	1		EPA 200.8	8/15/19	8/16/19 11:54	QNW
Chromium, Trivalent	0.0			mg/L	1		Tri Chrome Calc.	8/15/19	8/16/19 11:54	QNW
Copper	1.4	1.0		µg/L	1	R-04	EPA 200.8	8/15/19	8/16/19 11:54	QNW
Iron	ND	0.050		mg/L	1		EPA 200.7	8/14/19	8/15/19 20:34	MJH
Lead	ND	0.50		µg/L	1		EPA 200.8	8/15/19	8/16/19 11:54	QNW
Mercury	ND	0.00010		mg/L	1		EPA 245.1	8/16/19	8/17/19 13:35	AJL
Nickel	ND	5.0		µg/L	1		EPA 200.8	8/15/19	8/16/19 11:54	QNW
Selenium	ND	5.0	1.6	µg/L	1		EPA 200.8	8/15/19	8/16/19 11:54	QNW
Silver	ND	0.20		µg/L	1		EPA 200.8	8/15/19	8/16/19 11:54	QNW
Zinc	ND	10		µg/L	1		EPA 200.8	8/15/19	8/16/19 11:54	QNW

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Project Location: 1479 Fall River Ave., Seekonk, M Sample Description: Work Order: 19H0483

Date Received: 8/8/2019

Field Sample #: MW-301 Sampled: 8/8/2019 14:20

Sample ID: 19H0483-01

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
Chloride	110	5.0		mg/L	5	MS-19	EPA 300.0	8/9/19	8/10/19 21:49	MMH
Chlorine, Residual	0.026	0.020		mg/L	1	Z-01	SM21-22 4500 CL G	8/8/19	8/8/19 22:35	MJG
Hexavalent Chromium	ND	0.0040		mg/L	1		SM21-22 3500 Cr B	8/8/19	8/8/19 22:50	MJG
Total Suspended Solids	2.9	0.67		mg/L	1		SM21-22 2540D	8/12/19	8/12/19 12:30	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.6		mg/L	1		EPA 1664B	8/12/19	8/12/19 10:30	LL

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Date Received: 8/8/2019

Field Sample #: MW-301 Sampled: 8/8/2019 14:20

Sample ID: 19H0483-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.0040	mg/L	1		SM21-22 3500 Cr B	8/8/19	8/8/19 22:50	MJG

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Date Received: 8/8/2019

Field Sample #: MW-301 Sampled: 8/8/2019 14:20

Sample ID: 19H0483-01

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	ND	0.075	0.024	mg/L	1		121,4500NH3-BH		8/12/19 22:13	SAL
Cyanide	ND	0.005	0.001	mg/L	1		121,4500CN-CE		8/12/19 10:44	SAL

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Sample Extraction Data

Prep Method: SW-846 3510C-608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B238003	1030	5.00	08/14/19

Prep Method: SW-846 5030B-624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B237607	5	5.00	08/09/19

Prep Method: SW-846 3510C-625.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B237908	1030	1.00	08/13/19

Prep Method: SW-846 3510C-625.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B238008	1030	1.00	08/13/19

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B237765	900		08/12/19

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B237743	50.0	50.0	08/10/19
19H0483-01 [MW-301]	B237743	50.0		08/10/19

Prep Method: EPA 200.7 Dissolved-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B238061	5.00	5.00	08/14/19

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B237683	50.0	50.0	08/09/19

Prep Method: EPA 200.8 Dissolved-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B238151	50.0	50.0	08/15/19

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Sample Extraction Data

Prep Method: EPA 245.1-EPA 245.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B237636	6.00	6.00	08/09/19

Prep Method: EPA 245.1 Dissolved-EPA 245.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B238265	6.00	6.00	08/16/19

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B237695	10.0	10.0	08/09/19

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
19H0483-01 [MW-301]	B237771	750	08/12/19

SM21-22 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B237632	50.0	50.0	08/08/19

SM21-22 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B237633	50.0	50.0	08/08/19

SM21-22 4500 CL G

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B237631	100	100	08/08/19

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0483-01 [MW-301]	B237852	1040	1.00	08/13/19

Prep Method: EPA 200.8-Tri Chrome Calc.

Lab Number [Field ID]	Batch	Initial [mL]	Date
19H0483-01 [MW-301]	B237683	50.0	08/09/19

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Sample Extraction Data

Prep Method: EPA 200.8 Dissolved-Tri Chrome Calc.

Lab Number [Field ID]	Batch	Initial [mL]	Date
19H0483-01 [MW-301]	B238151	50.0	08/15/19

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B237607 - SW-846 5030B										
Blank (B237607-BLK1)				Prepared & Analyzed: 08/09/19						
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							
Vinyl Chloride	ND	2.00	µg/L							
m+p Xylene	ND	2.00	µg/L							
o-Xylene	ND	2.00	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*26.1*		µg/L	25.0		104	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	*24.0*		µg/L	25.0		95.9	70-130			
LCS (B237607-BS1)				Prepared & Analyzed: 08/09/19						
Acetone	220	50.0	µg/L	200		108	70-160			†
tert-Amyl Methyl Ether (TAME)	21	0.500	µg/L	20.0		103	70-130			
Benzene	22	1.00	µg/L	20.0		109	65-135			
tert-Butyl Alcohol (TBA)	190	20.0	µg/L	200		95.7	40-160			†
Carbon Tetrachloride	20	2.00	µg/L	20.0		101	70-130			
1,2-Dichlorobenzene	21	2.00	µg/L	20.0		107	65-135			
1,3-Dichlorobenzene	22	2.00	µg/L	20.0		108	70-130			
1,4-Dichlorobenzene	21	2.00	µg/L	20.0		105	65-135			
1,2-Dichloroethane	22	2.00	µg/L	20.0		108	70-130			
cis-1,2-Dichloroethylene	22	1.00	µg/L	20.0		112	70-130			
1,1-Dichloroethane	21	2.00	µg/L	20.0		107	70-130			
1,1-Dichloroethylene	22	2.00	µg/L	20.0		111	50-150			
1,4-Dioxane	210	50.0	µg/L	200		106	40-130			†
Ethanol	220	50.0	µg/L	200		109	40-160			
Ethylbenzene	21	2.00	µg/L	20.0		106	60-140			
Methyl tert-Butyl Ether (MTBE)	21	2.00	µg/L	20.0		107	70-130			
Methylene Chloride	22	5.00	µg/L	20.0		111	60-140			
Tetrachloroethylene	22	2.00	µg/L	20.0		109	70-130			
Toluene	22	1.00	µg/L	20.0		108	70-130			
1,1,1-Trichloroethane	21	2.00	µg/L	20.0		106	70-130			
1,1,2-Trichloroethane	23	2.00	µg/L	20.0		113	70-130			
Trichloroethylene	22	2.00	µg/L	20.0		111	65-135			

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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 B237607 - SW-846 5030B										
LCS (B237607-BS1)				Prepared & Analyzed: 08/09/19						
Vinyl Chloride	19	2.00	µg/L	20.0		95.2	5-195			
m+p Xylene	43	2.00	µg/L	40.0		108	70-130			
o-Xylene	22	2.00	µg/L	20.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.7	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 B238008 - SW-846 3510C										
Blank (B238008-BLK1)				Prepared: 08/13/19 Analyzed: 08/20/19						
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							
Bis(2-ethylhexyl)phthalate (SIM)	ND	1.0	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
Pentachlorophenol (SIM)	ND	1.0	µg/L							V-06, Z-01a
Surrogate: 2-Fluorophenol (SIM)	*124*		µg/L	200		61.8	15-110			
Surrogate: Phenol-d6 (SIM)	*97.2*		µg/L	200		48.6	15-110			
Surrogate: Nitrobenzene-d5 (SIM)	*105*		µg/L	100		105	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*70.0*		µg/L	100		70.0	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*189*		µg/L	200		94.6	15-110			
Surrogate: p-Terphenyl-d14 (SIM)	*75.8*		µg/L	100		75.8	30-130			
LCS (B238008-BS1)				Prepared: 08/13/19 Analyzed: 08/20/19						
Benzo(a)anthracene (SIM)	51.1	1.0	µg/L	50.0		102	33-143			
Benzo(a)pyrene (SIM)	56.5	2.0	µg/L	50.0		113	17-163			
Benzo(b)fluoranthene (SIM)	55.5	1.0	µg/L	50.0		111	24-159			
Benzo(k)fluoranthene (SIM)	54.6	4.0	µg/L	50.0		109	11-162			
Bis(2-ethylhexyl)phthalate (SIM)	56.5	20	µg/L	50.0		113	8-158			
Chrysene (SIM)	51.1	4.0	µg/L	50.0		102	17-168			
Dibenz(a,h)anthracene (SIM)	54.5	4.0	µg/L	50.0		109	10-227			
Indeno(1,2,3-cd)pyrene (SIM)	55.8	4.0	µg/L	50.0		112	10-171			
Pentachlorophenol (SIM)	65.9	20	µg/L	50.0		132	14-176			V-06, Z-01a
Surrogate: 2-Fluorophenol (SIM)	*101*		µg/L	200		50.6	15-110			
Surrogate: Phenol-d6 (SIM)	*79.8*		µg/L	200		39.9	15-110			
Surrogate: Nitrobenzene-d5 (SIM)	*94.4*		µg/L	100		94.4	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*81.1*		µg/L	100		81.1	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*199*		µg/L	200		99.5	15-110			
Surrogate: p-Terphenyl-d14 (SIM)	*80.0*		µg/L	100		80.0	30-130			
LCS Dup (B238008-BSD1)				Prepared: 08/13/19 Analyzed: 08/20/19						
Benzo(a)anthracene (SIM)	48.0	1.0	µg/L	50.0		96.0	33-143	6.14	53	
Benzo(a)pyrene (SIM)	52.8	2.0	µg/L	50.0		106	17-163	6.73	72	
Benzo(b)fluoranthene (SIM)	52.3	1.0	µg/L	50.0		105	24-159	5.93	71	
Benzo(k)fluoranthene (SIM)	51.8	4.0	µg/L	50.0		104	11-162	5.26	63	
Bis(2-ethylhexyl)phthalate (SIM)	52.9	20	µg/L	50.0		106	8-158	6.55	82	
Chrysene (SIM)	48.2	4.0	µg/L	50.0		96.5	17-168	5.76	87	
Dibenz(a,h)anthracene (SIM)	50.9	4.0	µg/L	50.0		102	10-227	6.79	126	
Indeno(1,2,3-cd)pyrene (SIM)	52.3	4.0	µg/L	50.0		105	10-171	6.48	99	‡
Pentachlorophenol (SIM)	64.2	20	µg/L	50.0		128	14-176	2.71	86	V-06, Z-01a
Surrogate: 2-Fluorophenol (SIM)	*106*		µg/L	200		52.8	15-110			
Surrogate: Phenol-d6 (SIM)	*81.5*		µg/L	200		40.7	15-110			
Surrogate: Nitrobenzene-d5 (SIM)	*91.0*		µg/L	100		91.0	30-130			
Surrogate: 2-Fluorobiphenyl (SIM)	*77.6*		µg/L	100		77.6	30-130			
Surrogate: 2,4,6-Tribromophenol (SIM)	*193*		µg/L	200		96.5	15-110			
Surrogate: p-Terphenyl-d14 (SIM)	*76.4*		µg/L	100		76.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B237908 - SW-846 3510C										
Blank (B237908-BLK1)				Prepared: 08/13/19 Analyzed: 08/14/19						
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	*119*		µg/L	200		59.7	15-110			
Surrogate: Phenol-d6	*87.3*		µg/L	200		43.6	15-110			
Surrogate: Nitrobenzene-d5	*84.6*		µg/L	100		84.6	30-130			
Surrogate: 2-Fluorobiphenyl	*89.6*		µg/L	100		89.6	30-130			
Surrogate: 2,4,6-Tribromophenol	*187*		µg/L	200		93.5	15-110			
Surrogate: p-Terphenyl-d14	*97.9*		µg/L	100		97.9	30-130			
LCS (B237908-BS1)				Prepared: 08/13/19 Analyzed: 08/14/19						
Acenaphthene	37.6	5.00	µg/L	50.0		75.1	47-145			
Acenaphthylene	37.1	5.00	µg/L	50.0		74.2	33-145			
Anthracene	39.6	5.00	µg/L	50.0		79.2	27-133			
Benzo(g,h,i)perylene	41.9	5.00	µg/L	50.0		83.9	10-219			
Butylbenzylphthalate	39.3	10.0	µg/L	50.0		78.6	10-152			
Di-n-butylphthalate	40.1	10.0	µg/L	50.0		80.3	10-120			
Diethylphthalate	38.8	10.0	µg/L	50.0		77.6	10-120			
Dimethylphthalate	38.5	10.0	µg/L	50.0		77.0	10-120			
Di-n-octylphthalate	40.5	10.0	µg/L	50.0		81.1	4-146			
Bis(2-Ethylhexyl)phthalate	39.3	10.0	µg/L	50.0		78.7	8-158			
Fluoranthene	40.4	5.00	µg/L	50.0		80.9	26-137			
Fluorene	39.3	5.00	µg/L	50.0		78.5	59-121			
Naphthalene	34.7	5.00	µg/L	50.0		69.4	21-133			
Phenanthrene	38.7	5.00	µg/L	50.0		77.4	54-120			
Pyrene	37.6	5.00	µg/L	50.0		75.2	52-120			
Surrogate: 2-Fluorophenol	*112*		µg/L	200		56.0	15-110			
Surrogate: Phenol-d6	*83.2*		µg/L	200		41.6	15-110			
Surrogate: Nitrobenzene-d5	*78.9*		µg/L	100		78.9	30-130			
Surrogate: 2-Fluorobiphenyl	*82.5*		µg/L	100		82.5	30-130			
Surrogate: 2,4,6-Tribromophenol	*174*		µg/L	200		86.9	15-110			
Surrogate: p-Terphenyl-d14	*83.4*		µg/L	100		83.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B237908 - SW-846 3510C										
LCS Dup (B237908-BSD1)				Prepared: 08/13/19 Analyzed: 08/14/19						
Acenaphthene	37.7	5.00	µg/L	50.0		75.3	47-145	0.319	48	
Acenaphthylene	37.6	5.00	µg/L	50.0		75.3	33-145	1.39	74	
Anthracene	39.1	5.00	µg/L	50.0		78.1	27-133	1.35	66	
Benzo(g,h,i)perylene	42.2	5.00	µg/L	50.0		84.3	10-219	0.523	97	
Butylbenzylphthalate	39.2	10.0	µg/L	50.0		78.4	10-152	0.229	60	
Di-n-butylphthalate	39.1	10.0	µg/L	50.0		78.2	10-120	2.65	47	
Diethylphthalate	39.8	10.0	µg/L	50.0		79.7	10-120	2.62	100	
Dimethylphthalate	38.9	10.0	µg/L	50.0		77.8	10-120	1.11	183	
Di-n-octylphthalate	40.5	10.0	µg/L	50.0		81.0	4-146	0.0740	69	
Bis(2-Ethylhexyl)phthalate	39.0	10.0	µg/L	50.0		78.1	8-158	0.766	82	
Fluoranthene	40.5	5.00	µg/L	50.0		81.1	26-137	0.272	66	
Fluorene	40.2	5.00	µg/L	50.0		80.5	59-121	2.47	38	
Naphthalene	34.8	5.00	µg/L	50.0		69.7	21-133	0.374	65	
Phenanthrene	38.9	5.00	µg/L	50.0		77.7	54-120	0.490	39	
Pyrene	39.2	5.00	µg/L	50.0		78.3	52-120	4.09	49	
Surrogate: 2-Fluorophenol	*108*		µg/L	200		53.9	15-110			
Surrogate: Phenol-d6	*78.8*		µg/L	200		39.4	15-110			
Surrogate: Nitrobenzene-d5	*76.6*		µg/L	100		76.6	30-130			
Surrogate: 2-Fluorobiphenyl	*81.8*		µg/L	100		81.8	30-130			
Surrogate: 2,4,6-Tribromophenol	*180*		µg/L	200		90.0	15-110			
Surrogate: p-Terphenyl-d14	*85.5*		µg/L	100		85.5	30-130			

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B237852 - SW-846 3510C										
Blank (B237852-BLK1)				Prepared: 08/13/19 Analyzed: 08/16/19						
1,4-Dioxane	ND	0.20	µg/L							
Surrogate: 1,4-Dioxane-d8	*2.45*		µg/L	10.0		24.5	15-110			
LCS (B237852-BS1)				Prepared: 08/13/19 Analyzed: 08/16/19						
1,4-Dioxane	9.75	0.20	µg/L	10.0		97.5	40-140			
Surrogate: 1,4-Dioxane-d8	*2.95*		µg/L	10.0		29.5	15-110			
LCS Dup (B237852-BSD1)				Prepared: 08/13/19 Analyzed: 08/16/19						
1,4-Dioxane	10.2	0.20	µg/L	10.0		102	40-140	4.16	30	
Surrogate: 1,4-Dioxane-d8	*2.76*		µg/L	10.0		27.6	15-110			

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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 B238003 - SW-846 3510C										
Blank (B238003-BLK1)				Prepared: 08/14/19 Analyzed: 08/20/19						
Aroclor-1016	ND	0.0400	µg/L							
Aroclor-1016 [2C]	ND	0.0400	µg/L							
Aroclor-1221	ND	0.0400	µg/L							
Aroclor-1221 [2C]	ND	0.0400	µg/L							
Aroclor-1232	ND	0.0400	µg/L							
Aroclor-1232 [2C]	ND	0.0400	µg/L							
Aroclor-1242	ND	0.0400	µg/L							
Aroclor-1242 [2C]	ND	0.0400	µg/L							
Aroclor-1248	ND	0.0400	µg/L							
Aroclor-1248 [2C]	ND	0.0400	µg/L							
Aroclor-1254	ND	0.0400	µg/L							
Aroclor-1254 [2C]	ND	0.0400	µg/L							
Aroclor-1260	ND	0.0400	µg/L							
Aroclor-1260 [2C]	ND	0.0400	µg/L							
Surrogate: Decachlorobiphenyl	*0.168*		µg/L	0.200		84.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.198*		µg/L	0.200		98.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.142*		µg/L	0.200		71.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.153*		µg/L	0.200		76.6	30-150			
LCS (B238003-BS1)				Prepared: 08/14/19 Analyzed: 08/20/19						
Aroclor-1016	0.398	0.200	µg/L	0.500		79.5	50-140			
Aroclor-1016 [2C]	0.426	0.200	µg/L	0.500		85.2	50-140			
Aroclor-1260	0.374	0.200	µg/L	0.500		74.7	8-140			
Aroclor-1260 [2C]	0.393	0.200	µg/L	0.500		78.7	8-140			
Surrogate: Decachlorobiphenyl	*1.52*		µg/L	2.00		75.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.75*		µg/L	2.00		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.26*		µg/L	2.00		63.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.34*		µg/L	2.00		66.8	30-150			
LCS Dup (B238003-BSD1)				Prepared: 08/14/19 Analyzed: 08/20/19						
Aroclor-1016	0.404	0.200	µg/L	0.500		80.7	50-140	1.49		
Aroclor-1016 [2C]	0.399	0.200	µg/L	0.500		79.7	50-140	6.60		
Aroclor-1260	0.405	0.200	µg/L	0.500		81.0	8-140	8.01		
Aroclor-1260 [2C]	0.424	0.200	µg/L	0.500		84.9	8-140	7.61		
Surrogate: Decachlorobiphenyl	*1.64*		µg/L	2.00		82.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.87*		µg/L	2.00		93.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.36*		µg/L	2.00		67.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.40*		µg/L	2.00		70.2	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 B237636 - EPA 245.1											
Blank (B237636-BLK1)				Prepared & Analyzed: 08/09/19							
Mercury	ND	0.00010	mg/L								
LCS (B237636-BS1)				Prepared & Analyzed: 08/09/19							
Mercury	0.00379	0.00010	mg/L	0.00400		94.8		85-115			
LCS Dup (B237636-BSD1)				Prepared & Analyzed: 08/09/19							
Mercury	0.00383	0.00010	mg/L	0.00400		95.8		85-115	1.06	20	
Duplicate (B237636-DUP1)		**Source: 19H0483-01**		Prepared & Analyzed: 08/09/19							
Mercury	ND	0.00010	mg/L		ND				NC	30	
Matrix Spike (B237636-MS1)		**Source: 19H0483-01**		Prepared & Analyzed: 08/09/19							
Mercury	0.00368	0.00010	mg/L	0.00400	ND	92.0		75-125			
Batch B237683 - EPA 200.8											
Blank (B237683-BLK1)				Prepared: 08/09/19 Analyzed: 08/12/19							
Antimony	ND	1.0	µg/L								
Arsenic	ND	0.80	µg/L								
Cadmium	ND	0.20	µg/L								
Chromium	ND	1.0	µg/L								
Copper	ND	1.0	µg/L								
Lead	ND	0.50	µg/L								
Nickel	ND	5.0	µg/L								
Selenium	ND	5.0	µg/L								
Silver	ND	0.20	µg/L								
Zinc	ND	10	µg/L								
LCS (B237683-BS1)				Prepared: 08/09/19 Analyzed: 08/12/19							
Antimony	529	10	µg/L	500		106		85-115			
Arsenic	537	8.0	µg/L	500		107		85-115			
Cadmium	524	2.0	µg/L	500		105		85-115			
Chromium	516	10	µg/L	500		103		85-115			
Copper	1030	10	µg/L	1000		103		85-115			
Lead	525	5.0	µg/L	500		105		85-115			
Nickel	524	50	µg/L	500		105		85-115			
Selenium	554	50	µg/L	500		111		85-115			
Silver	423	2.0	µg/L	500		**84.5**	*	85-115			L-07
Zinc	1090	100	µg/L	1000		109		85-115			
LCS Dup (B237683-BSD1)				Prepared: 08/09/19 Analyzed: 08/12/19							
Antimony	537	10	µg/L	500		107		85-115	1.65	20	
Arsenic	542	8.0	µg/L	500		108		85-115	0.996	20	
Cadmium	534	2.0	µg/L	500		107		85-115	1.90	20	
Chromium	517	10	µg/L	500		103		85-115	0.223	20	
Copper	1040	10	µg/L	1000		104		85-115	0.571	20	
Lead	535	5.0	µg/L	500		107		85-115	1.90	20	
Nickel	522	50	µg/L	500		104		85-115	0.412	20	
Selenium	556	50	µg/L	500		111		85-115	0.261	20	
Silver	493	2.0	µg/L	500		98.6		85-115	15.3	20	
Zinc	1100	100	µg/L	1000		110		85-115	0.839	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 B237743 - EPA 200.7										
Blank (B237743-BLK1)				Prepared: 08/10/19 Analyzed: 08/12/19						
Iron	ND	0.050	mg/L							
LCS (B237743-BS1)				Prepared: 08/10/19 Analyzed: 08/12/19						
Iron	4.23	0.050	mg/L	4.00		106	85-115			
LCS Dup (B237743-BSD1)				Prepared: 08/10/19 Analyzed: 08/12/19						
Iron	4.11	0.050	mg/L	4.00		103	85-115	2.94	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B238061 - EPA 200.7 Dissolved										
Blank (B238061-BLK1)				Prepared: 08/14/19 Analyzed: 08/15/19						
Iron	ND	0.050	mg/L							
LCS (B238061-BS1)				Prepared: 08/14/19 Analyzed: 08/15/19						
Iron	3.95	0.050	mg/L	4.00		98.9	85-115			
Duplicate (B238061-DUP1)	**Source: 19H0483-01**			Prepared: 08/14/19 Analyzed: 08/15/19						
Iron	ND	0.050	mg/L		ND			NC	20	
Matrix Spike (B238061-MS1)	**Source: 19H0483-01**			Prepared: 08/14/19 Analyzed: 08/15/19						
Iron	17.7	0.051	mg/L	16.3	ND	109	70-130			
Batch B238151 - EPA 200.8 Dissolved										
Blank (B238151-BLK1)				Prepared: 08/15/19 Analyzed: 08/16/19						
Antimony	ND	1.0	µg/L							
Arsenic	ND	0.80	µg/L							
Cadmium	ND	0.20	µg/L							
Chromium	ND	1.0	µg/L							
Copper	ND	1.0	µg/L							
Lead	ND	0.50	µg/L							
Nickel	ND	5.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.20	µg/L							
Zinc	ND	10	µg/L							
LCS (B238151-BS1)				Prepared: 08/15/19 Analyzed: 08/16/19						
Antimony	506	10	µg/L	500		101	85-115			
Arsenic	520	8.0	µg/L	500		104	85-115			
Cadmium	509	2.0	µg/L	500		102	85-115			
Chromium	508	10	µg/L	500		102	85-115			
Copper	1010	10	µg/L	1000		101	85-115			
Lead	509	5.0	µg/L	500		102	85-115			
Nickel	510	50	µg/L	500		102	85-115			
Selenium	530	50	µg/L	500		106	85-115			
Silver	500	2.0	µg/L	500		100	85-115			
Zinc	1060	100	µg/L	1000		106	85-115			
LCS Dup (B238151-BSD1)				Prepared: 08/15/19 Analyzed: 08/16/19						
Antimony	508	10	µg/L	500		102	85-115	0.288	20	
Arsenic	520	8.0	µg/L	500		104	85-115	0.0686	20	
Cadmium	510	2.0	µg/L	500		102	85-115	0.278	20	
Chromium	508	10	µg/L	500		102	85-115	0.117	20	
Copper	1010	10	µg/L	1000		101	85-115	0.456	20	
Lead	507	5.0	µg/L	500		101	85-115	0.286	20	
Nickel	507	50	µg/L	500		101	85-115	0.738	20	
Selenium	531	50	µg/L	500		106	85-115	0.113	20	
Silver	502	2.0	µg/L	500		100	85-115	0.515	20	
Zinc	1060	100	µg/L	1000		106	85-115	0.350	20	

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B238151 - EPA 200.8 Dissolved											
Duplicate (B238151-DUP1)	**Source: 19H0483-01**			Prepared: 08/15/19 Analyzed: 08/16/19							
Antimony	ND	1.0	µg/L		ND			NC		20	
Arsenic	ND	0.80	µg/L		ND			NC		20	
Cadmium	ND	0.20	µg/L		ND			NC		20	
Chromium	ND	1.0	µg/L		ND			NC		20	
Copper	1.06	1.0	µg/L		1.40			**28.0**	*	20	R-04
Lead	ND	0.50	µg/L		ND			NC		20	
Nickel	ND	5.0	µg/L		ND			NC		20	
Selenium	ND	5.0	µg/L		ND			NC		20	
Silver	ND	0.20	µg/L		ND			NC		20	
Zinc	ND	10	µg/L		ND			NC		20	
Matrix Spike (B238151-MS1)	**Source: 19H0483-01**			Prepared: 08/15/19 Analyzed: 08/16/19							
Antimony	524	10	µg/L	500	ND	105	70-130				
Arsenic	539	8.0	µg/L	500	ND	108	70-130				
Cadmium	520	2.0	µg/L	500	ND	104	70-130				
Chromium	515	10	µg/L	500	ND	103	70-130				
Copper	1030	10	µg/L	1000	ND	103	70-130				
Lead	521	5.0	µg/L	500	ND	104	70-130				
Nickel	515	50	µg/L	500	ND	103	70-130				
Selenium	546	50	µg/L	500	ND	109	70-130				
Silver	511	2.0	µg/L	500	ND	102	70-130				
Zinc	1080	100	µg/L	1000	ND	108	70-130				
Batch B238265 - EPA 245.1 Dissolved											
Blank (B238265-BLK1)				Prepared: 08/16/19 Analyzed: 08/17/19							
Mercury	ND	0.00010	mg/L								
LCS (B238265-BS1)				Prepared: 08/16/19 Analyzed: 08/17/19							
Mercury	0.00371	0.00010	mg/L	0.00400		92.7	85-115				
LCS Dup (B238265-BSD1)				Prepared: 08/16/19 Analyzed: 08/17/19							
Mercury	0.00374	0.00010	mg/L	0.00400		93.6	85-115	0.986		20	
Duplicate (B238265-DUP1)	**Source: 19H0483-01**			Prepared: 08/16/19 Analyzed: 08/17/19							
Mercury	ND	0.00010	mg/L		ND			NC		30	
Matrix Spike (B238265-MS1)	**Source: 19H0483-01**			Prepared: 08/16/19 Analyzed: 08/17/19							
Mercury	0.00378	0.00010	mg/L	0.00400	ND	94.5	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 B237631 - SM21-22 4500 CL G										
Blank (B237631-BLK1)				Prepared & Analyzed: 08/08/19						
Chlorine, Residual	ND	0.020	mg/L							Z-01
LCS (B237631-BS1)				Prepared & Analyzed: 08/08/19						
Chlorine, Residual	1.5	0.020	mg/L	1.29		119	66.3-134			Z-01
LCS Dup (B237631-BSD1)				Prepared & Analyzed: 08/08/19						
Chlorine, Residual	1.5	0.020	mg/L	1.29		119	66.3-134	0.287	9.96	Z-01
Batch B237632 - SM21-22 3500 Cr B										
Blank (B237632-BLK1)				Prepared & Analyzed: 08/08/19						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B237632-BS1)				Prepared & Analyzed: 08/08/19						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		108	83.9-121			
LCS Dup (B237632-BSD1)				Prepared & Analyzed: 08/08/19						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		108	83.9-121	0.00	10	
Batch B237695 - EPA 300.0										
Blank (B237695-BLK1)				Prepared: 08/09/19 Analyzed: 08/10/19						
Chloride	ND	1.0	mg/L							
LCS (B237695-BS1)				Prepared: 08/09/19 Analyzed: 08/10/19						
Chloride	4.5	1.0	mg/L	5.00		90.2	90-110			
LCS Dup (B237695-BSD1)				Prepared: 08/09/19 Analyzed: 08/10/19						
Chloride	4.5	1.0	mg/L	5.00		90.2	90-110	0.0687	20	
Duplicate (B237695-DUP1)	**Source: 19H0483-01**			Prepared: 08/09/19 Analyzed: 08/10/19						
Chloride	110	5.0	mg/L		110			0.0870	20	
Matrix Spike (B237695-MS1)	**Source: 19H0483-01**			Prepared: 08/09/19 Analyzed: 08/10/19						
Chloride	190	5.0	mg/L	50.0	110	**162** *	80-120			MS-19
Batch B237765 - EPA 1664B										
Blank (B237765-BLK1)				Prepared & Analyzed: 08/12/19						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							

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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 B237765 - EPA 1664B										
LCS (B237765-BS1)				Prepared & Analyzed: 08/12/19						
Silica Gel Treated HEM (SGT-HEM)	12		mg/L	10.0		116	64-132			
MRL Check (B237765-MRL1)				Prepared & Analyzed: 08/12/19						
Silica Gel Treated HEM (SGT-HEM)	1.20	1.4	mg/L	1.40		85.6	0-200			
Matrix Spike (B237765-MS1)		**Source: 19H0483-01**		Prepared & Analyzed: 08/12/19						
Silica Gel Treated HEM (SGT-HEM)	130	14	mg/L	100	ND	132	64-132			
Batch B237771 - SM21-22 2540D										
Blank (B237771-BLK1)				Prepared & Analyzed: 08/12/19						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B237771-BS1)				Prepared & Analyzed: 08/12/19						
Total Suspended Solids	216	10	mg/L	200		108	57.6-118			

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B237633 - SM21-22 3500 Cr B										
Blank (B237633-BLK1)				Prepared & Analyzed: 08/08/19						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B237633-BS1)				Prepared & Analyzed: 08/08/19						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		108	83.9-121			
LCS Dup (B237633-BSD1)				Prepared & Analyzed: 08/08/19						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		108	83.9-121	0.00	10	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

608.3

LCS

Lab Sample ID: B238003-BS1 Date(s) Analyzed: 08/20/2019 08/20/2019

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.398	
	2	0.000	0.000	0.000	0.426	6.3
Aroclor-1260	1	0.000	0.000	0.000	0.374	
	2	0.000	0.000	0.000	0.393	6.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

608.3

LCS Dup

Lab Sample ID: B238003-BSD1 Date(s) Analyzed: 08/20/2019 08/20/2019

Instrument ID (1): ECD4 Instrument ID (2): ECD4

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.404	
	2	0.000	0.000	0.000	0.399	0.3
Aroclor-1260	1	0.000	0.000	0.000	0.405	
	2	0.000	0.000	0.000	0.424	3.4

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria. Reported result is estimated.
V-05	Continuing calibration 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.
Z-01	SM 4500 test had calibration points outside of acceptable back-calculated recoveries. Reanalysis yielded similar results.
Z-01a	This compound was calibrated using non-linear calibration.

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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	
Benzene	CT,NY,MA,NH,RI,NC,ME,VA
Bromodichloromethane	CT,NY,MA,NH,RI,NC,ME,VA
Bromoform	CT,NY,MA,NH,RI,NC,ME,VA
Bromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Carbon Tetrachloride	CT,NY,MA,NH,RI,NC,ME,VA
Chlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
Chlorodibromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroform	CT,NY,MA,NH,RI,NC,ME,VA
Chloromethane	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
1,1-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,2-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloropropane	CT,NY,MA,NH,RI,NC,ME,VA
cis-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
1,4-Dioxane	MA
trans-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
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
1,1,2,2-Tetrachloroethane	CT,NY,MA,NH,RI,NC,ME,VA
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
624.1 in Water	
Trichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NY,MA,NH,RI,NC,ME,VA
Vinyl Chloride	CT,NY,MA,NH,RI,NC,ME,VA
m+p Xylene	CT,NY,MA,NH,RI,NC
o-Xylene	CT,NY,MA,NH,RI,NC
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
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
Phenanthrene	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	
Iron	CT,MA,NH,NY,RI,NC,ME,VA
Iron	CT,MA,NH,NY,RI,NC,ME,VA
Hardness	CT,MA,NH,NY,RI,VA
EPA 200.8 in Water	
Antimony	CT,MA,NH,NY,RI,NC,ME,VA
Antimony	CT,MA,NH,NY,RI,NC,ME,VA
Arsenic	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
Cadmium	CT,MA,NH,NY,RI,NC,ME,VA
Chromium	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
Copper	CT,MA,NH,NY,RI,NC,ME,VA
Lead	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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.8 in Water	
Nickel	CT,MA,NH,NY,RI,NC,ME,VA
Selenium	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
Silver	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,RI,NY,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 245.1 in Water	
Mercury	CT,MA,NH,RI,NY,NC,ME,VA
Mercury	CT,MA,NH,RI,NY,NC,ME,VA
EPA 300.0 in Water	
Chloride	NC,NY,MA,VA,ME,NH,CT,RI
SM19-22 4500 NH3 C in Water	
Ammonia as N	NY,MA,CT,RI,VA,NC,ME
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 3500 Cr B in Water	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NC
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NC
SM21-22 4500 CL G in Water	
Chlorine, Residual	CT,MA,RI,ME
SM21-22 4500 CN E in Water	
Cyanide	CT,MA,NH,NY,RI,NC,ME,VA
SW-846 8270D in Water	
1,4-Dioxane	NY

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

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East Longmeadow, MA 01028
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

1914048 3

KAF

CHAIN OF CUSTODY RECORD

Company Name:	Kleinfelder
Address:	One Beacon St, Suite 8100, Boston, MA 02108
Phone:	617-497-7800
Project Name:	CFI Seekonk
Project Location:	1479 Fall River Ave, Seekonk, MA
Project Number:	20180921.007A
Project Manager:	Emily Straley
Con-Test Quote Name/Number:	20190730
Invoice Recipient:	Emily Straley
Sampled By:	Katie Dwyer, Andy Bayliss

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

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: msoule@kleinfelder.com; estraley
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	Ammonia via method 350.1; Hardness via 200.7	Chloride-300.0; Total Residual Chlorine-4500-Cl G and E	Total Suspended Solids via SM2540D	Total Metals via 200.7***	Dissolved Metals via 200.7***	USEPA VOCs via 624* + ethanol	PAHs & phenols via 625 SIM**	Total PCBs 608	TPH via 1664 SGT HEM	1,4-dioxane via 8270 SIM	Cyanide via 335.4
								2	1	1	2	2	3*	4	2	2	2	1
								N/S	I	I	N/I	N/I	H	I	I	S	I	S
								P	P	P	P	P	V	A	A	A	A	P
1	MW-301	8/8/19 1480	8/8/19 1420			GW	U	X	X	X	X	X	X	X	X	X	X	X

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

Dissolved Metals Samples
☒ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments: * Report full RGP list. 2 unpreserved voa vials included as TB
**Total Phthalates, Diethylhexyl phthalate, Group I and II PAHs, Napthalene, phenol, pentachlorophenol
***Sb, As, Cd, Cr3, Cr6, Cu, Fe, Pb, Hg, Ni, Se, Ag, Zn. Hg by 245.1, Cr6 via 3500

EPA NPDES remediation general permit

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

Relinquished by: (signature)	Date/Time: 8/9/19 - 1610
Received by: (signature)	Date/Time: 8-8-19 1610
Relinquished by: (signature)	Date/Time: 8-8-19 1735
Received by: (signature)	Date/Time: 8/8/19 1735
Relinquished by: (signature)	Date/Time: 8/8/19 1915
Received by: (signature) 2.6,2.9	Date/Time: 8/8/19 19:15

Detection Limit Requirements
MA
CT
Other: Rhode Island DEM

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

con-test ANALYTICAL LABORATORY
www.contestlabs.com
NELAC and AIHA-LAP, LLC Accredited

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

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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 Kleinfelder

Received By nf Date 8/8/19 Time 19:15

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

Were samples within Temperature? 2-6°C T By Gun # 4 Actual Temp - 2.6, 2.9

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

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? _____

Is there enough Volume? T Who was notified? Miranda

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 TCL Base T>12

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	8	1 Liter Plastic	3	16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	6	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass	2	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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August 20, 2019

Madeline Soule
Kleinfelder - Cambridge, MA
1 Beacon Street, Suite 8100
Boston, MA 02108

Project Location: 1479 Fall River Ave., Seekonk, MA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 19H0485

Enclosed are results of analyses for samples received by the laboratory on August 8, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano
Project Manager

Table of Contents

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

Kleinfelder - Cambridge, MA
1 Beacon Street, Suite 8100
Boston, MA 02108
ATTN: Madeline Soule

REPORT DATE: 8/20/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19H0485

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

PROJECT LOCATION: 1479 Fall River Ave., Seekonk, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Receiving_Water	19H0485-01	Surface Water		121,4500NH3-BH	MA M-MA-086/CT PH-0574/NY11148
				EPA 200.7	
				EPA 200.8	
				EPA 245.1	
				SM19-22 4500 NH3 C	MA M-MA-086/CT PH-0574/NY11148
				SM21-22 3500 Cr B	
				Tri Chrome Calc.	

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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.

EPA 200.8

Qualifications:

L-07

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

Analyte & Samples(s) Qualified:

Silver
B237683-BS1

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

Lisa A. Worthington
Technical Representative

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

Project Location: 1479 Fall River Ave., Seekonk, M Sample Description: Work Order: 19H0485

Date Received: 8/8/2019

Field Sample #: Receiving_Water Sampled: 8/8/2019 16:00

Sample ID: 19H0485-01

Sample Matrix: Surface Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.0		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:47	MJH
Arsenic	33	0.80		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:47	MJH
Cadmium	2.3	0.20		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:47	MJH
Chromium	9.7	1.0		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:47	MJH
Chromium, Trivalent	0.0097			mg/L	1		Tri Chrome Calc.	8/9/19	8/12/19 13:10	MJH
Copper	73	1.0		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:47	MJH
Iron	590	0.050		mg/L	1		EPA 200.7	8/10/19	8/12/19 16:02	MJH
Lead	220	0.50		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:47	MJH
Mercury	0.00049	0.00010		mg/L	1		EPA 245.1	8/9/19	8/9/19 12:51	AJL
Nickel	21	5.0		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:47	MJH
Selenium	2.2	5.0	1.6	µg/L	1	J	EPA 200.8	8/9/19	8/12/19 12:47	MJH
Silver	ND	0.20		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:47	MJH
Zinc	220	10		µg/L	1		EPA 200.8	8/9/19	8/12/19 12:47	MJH
Hardness	450			mg/L	1		EPA 200.7	8/10/19	8/12/19 16:02	MJH

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Project Location: 1479 Fall River Ave., Seekonk, M Sample Description: Work Order: 19H0485

Date Received: 8/8/2019

Field Sample #: Receiving_Water Sampled: 8/8/2019 16:00

Sample ID: 19H0485-01

Sample Matrix: Surface 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
Hexavalent Chromium	ND	0.0040		mg/L	1		SM21-22 3500 Cr B	8/8/19	8/8/19 22:50	MJG

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Project Location: 1479 Fall River Ave., Seekonk, M Sample Description: Work Order: 19H0485

Date Received: 8/8/2019

Field Sample #: Receiving_Water Sampled: 8/8/2019 16:00

Sample ID: 19H0485-01

Sample Matrix: Surface 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	1.07	0.375	0.12	mg/L	5		121,4500NH3-BH		8/16/19 21:35	AAL

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Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0485-01 [Receiving_Water]	B237743	50.0	50.0	08/10/19
19H0485-01 [Receiving_Water]	B237743	50.0		08/10/19

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0485-01 [Receiving_Water]	B237683	50.0	50.0	08/09/19

Prep Method: EPA 245.1-EPA 245.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0485-01 [Receiving_Water]	B237636	6.00	6.00	08/09/19

SM21-22 3500 Cr B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0485-01 [Receiving_Water]	B237632	50.0	50.0	08/08/19

Prep Method: EPA 200.8-Tri Chrome Calc.

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19H0485-01 [Receiving_Water]	B237683	50.0		08/09/19

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B237636 - EPA 245.1											
Blank (B237636-BLK1)				Prepared & Analyzed: 08/09/19							
Mercury	ND	0.00010	mg/L								
LCS (B237636-BS1)				Prepared & Analyzed: 08/09/19							
Mercury	0.00379	0.00010	mg/L	0.00400		94.8		85-115			
LCS Dup (B237636-BSD1)				Prepared & Analyzed: 08/09/19							
Mercury	0.00383	0.00010	mg/L	0.00400		95.8		85-115	1.06	20	
Batch B237683 - EPA 200.8											
Blank (B237683-BLK1)				Prepared: 08/09/19 Analyzed: 08/12/19							
Antimony	ND	1.0	µg/L								
Arsenic	ND	0.80	µg/L								
Cadmium	ND	0.20	µg/L								
Chromium	ND	1.0	µg/L								
Copper	ND	1.0	µg/L								
Lead	ND	0.50	µg/L								
Nickel	ND	5.0	µg/L								
Selenium	ND	5.0	µg/L								
Silver	ND	0.20	µg/L								
Zinc	ND	10	µg/L								
LCS (B237683-BS1)				Prepared: 08/09/19 Analyzed: 08/12/19							
Antimony	529	10	µg/L	500		106		85-115			
Arsenic	537	8.0	µg/L	500		107		85-115			
Cadmium	524	2.0	µg/L	500		105		85-115			
Chromium	516	10	µg/L	500		103		85-115			
Copper	1030	10	µg/L	1000		103		85-115			
Lead	525	5.0	µg/L	500		105		85-115			
Nickel	524	50	µg/L	500		105		85-115			
Selenium	554	50	µg/L	500		111		85-115			
Silver	423	2.0	µg/L	500		**84.5**	*	85-115			L-07
Zinc	1090	100	µg/L	1000		109		85-115			
LCS Dup (B237683-BSD1)				Prepared: 08/09/19 Analyzed: 08/12/19							
Antimony	537	10	µg/L	500		107		85-115	1.65	20	
Arsenic	542	8.0	µg/L	500		108		85-115	0.996	20	
Cadmium	534	2.0	µg/L	500		107		85-115	1.90	20	
Chromium	517	10	µg/L	500		103		85-115	0.223	20	
Copper	1040	10	µg/L	1000		104		85-115	0.571	20	
Lead	535	5.0	µg/L	500		107		85-115	1.90	20	
Nickel	522	50	µg/L	500		104		85-115	0.412	20	
Selenium	556	50	µg/L	500		111		85-115	0.261	20	
Silver	493	2.0	µg/L	500		98.6		85-115	15.3	20	
Zinc	1100	100	µg/L	1000		110		85-115	0.839	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 B237743 - EPA 200.7										
Blank (B237743-BLK1)				Prepared: 08/10/19 Analyzed: 08/12/19						
Iron	ND	0.050	mg/L							
LCS (B237743-BS1)				Prepared: 08/10/19 Analyzed: 08/12/19						
Iron	4.23	0.050	mg/L	4.00		106	85-115			
LCS Dup (B237743-BSD1)				Prepared: 08/10/19 Analyzed: 08/12/19						
Iron	4.11	0.050	mg/L	4.00		103	85-115	2.94	20	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B237632 - SM21-22 3500 Cr B										
Blank (B237632-BLK1)				Prepared & Analyzed: 08/08/19						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B237632-BS1)				Prepared & Analyzed: 08/08/19						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		108	83.9-121			
LCS Dup (B237632-BSD1)				Prepared & Analyzed: 08/08/19						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100		108	83.9-121	0.00	10	

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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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Iron	CT,MA,NH,NY,RI,NC,ME,VA
Hardness	CT,MA,NH,NY,RI,VA
EPA 200.8 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
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
EPA 245.1 in Water	
Mercury	CT,MA,NH,RI,NY,NC,ME,VA
SM19-22 4500 NH3 C in Water	
Ammonia as N	NY,MA,CT,RI,VA,NC,ME
SM21-22 3500 Cr B in Water	
Hexavalent Chromium	NY,CT,NH,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2020
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1910485

KAF

CHAIN OF CUSTODY RECORD

Company Name:	Kleinfelder
Address:	One Beacon St, Suite 8100, Boston, MA 02108
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Project Name:	CFI Seekonk
Project Location:	1479 Fall River Ave, Seekonk, MA
Project Number:	20180921.007A
Project Manager:	Emily Straley
Con-Test Quote Name/Number:	20190730
Invoice Recipient:	Emily Straley
Sampled By:	~~Katie Dwyer, Andy Baptist~~, Lichen Wang

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

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: msoule@kleinfelder.com; estraley
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	Ammonia via method 350.1;	Hardness via 200.7	Total Metals via 200.7***										# of Containers
								1	1	2										[2] Preservation Code
								N	S	N/I										[3] Container Code
								p	P	P										
1	Receiving_Water	8/8/19 1600	8/8/19 1600			GW SW Surface water	U	X	X	X										

Comments: ***Sb, As, Cd, Cr3, Cr6, Cu, Fe, Pb, Hg, Ni, Se, Ag, Zn. Hg by 245.1, Cr6 via 3500

EPA NPDES remediation general permit

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Relinquished by: (signature)	Date/Time: 8/8/19 - 1610	
Received by: (signature)	Date/Time: 8-8-19 1610	
Relinquished by: (signature)	Date/Time: 8-8-19 1735	
Received by: (signature)	Date/Time: 8/8/19 1735	
Relinquished by: (signature)	Date/Time: 8/8/19 1915	
Received by: (signature) 4.6	Date/Time: 8/8/19 19:15	

Detection Limit Requirements
MA
CT
Other: Rhode Island DEM

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

con-test ANALYTICAL LABORATORY www.contestlabs.com
NELAC and AIHA-LAP, LLC Accredited

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

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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 Kleinfelder

Received By MP Date 8/8/19 Time 1915

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

Were samples within Temperature? 2-6°C T By Gun # 4 Actual Temp - 4.6

By Blank # _____ Actual Temp - _____

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

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

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

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

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

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

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

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? 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 TCZ Base _____

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

ATTACHMENT D

Fish and Wildlife Consistency Letter

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

IPaC Record Locator: 069-18133152 September 04, 2019

Subject: Consistency letter for the 'CFI Seekonk' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Dear Madeline Soule:

The U.S. Fish and Wildlife Service (Service) received on September 04, 2019 your effects determination for the 'CFI Seekonk' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause "take"[1] of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action's effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

---

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

CFI Seekonk

2. Description

The following description was provided for the project 'CFI Seekonk':

> Raze of onsite structures and construction of new convenience store and service station. Dewatering only covered by this project, dewatering expected from area of new underground storage tanks.

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/41.78668804266135N71.31708541617266W

Determination Key Result

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

Determination Key Description: Northern Long-eared Bat 4(d) Rule
This key was last updated in IPaC on **May 15, 2017**. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

   No

2. Will your activity purposefully **Take** northern long-eared bats?

   No

3. Is the project action area located wholly outside the White-nose Syndrome Zone?

   Automatically answered
   No

4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

   Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases is available at www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html.

   Yes

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

   No

6. Will the action involve Tree Removal?

   No

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

0

2. If known, estimated acres of forest conversion from April 1 to October 31

0

3. If known, estimated acres of forest conversion from June 1 to July 31

0

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?
0

ATTACHMENT E

Massachusetts Cultural Resources in Vicinity of Site

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Seekonk; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
SEE.8	Siravo, Martin R. Fruit Stand	Fall River Ave	Seekonk	1954
SEE.49	Seekonk Congregational Church	Fall River Ave	Seekonk	r 1923
SEE.902	Seekonk Speedway	Fall River Ave	Seekonk	1946
SEE.116		15 Fall River Ave	Seekonk	1740
SEE.113	Sweetland, C. S. House	283 Fall River Ave	Seekonk	c 1880
SEE.114		313 Fall River Ave	Seekonk	c 1880
SEE.60	Martin House	379 Fall River Ave	Seekonk	c 1840
SEE.61	Martin, C. House	380 Fall River Ave	Seekonk	c 1840
SEE.56	Bowen, J. Grist Mill	390 Fall River Ave	Seekonk	1738
SEE.58	Martin, Joseph House	391 Fall River Ave	Seekonk	1902
SEE.59	Chaffee, Dexter Blacksmith Shop	393 Fall River Ave	Seekonk	1840
SEE.62	Martin, C. Barn	394 Fall River Ave	Seekonk	c 1880
SEE.112	Smart Memorial Library	536 Fall River Ave	Seekonk	c 1920
SEE.111		544 Fall River Ave	Seekonk	c 1880
SEE.110		550 Fall River Ave	Seekonk	c 1930
SEE.54	Handy, G. R. House	591 Fall River Ave	Seekonk	c 1890
SEE.55		592 Fall River Ave	Seekonk	c 1900
SEE.53	Handy - Nickel House	595 Fall River Ave	Seekonk	c 1900
SEE.52	Handy - Nickel House	597 Fall River Ave	Seekonk	c 1900
SEE.51	Handy - Nickel House	599 Fall River Ave	Seekonk	c 1912
SEE.50		601 Fall River Ave	Seekonk	c 1910
SEE.48		602 Fall River Ave	Seekonk	c 1890
SEE.47	Short, S. House	608 Fall River Ave	Seekonk	c 1865
SEE.46	Mason, Rachel House	618 Fall River Ave	Seekonk	c 1840
SEE.40	Bowen, C. House	627 Fall River Ave	Seekonk	c 1830
SEE.39		632 Fall River Ave	Seekonk	c 1860
SEE.38	Luther, G. Store	635 Fall River Ave	Seekonk	c 1860
SEE.37	Medbury, A. N. Building	640 Fall River Ave	Seekonk	c 1860
SEE.36		651 Fall River Ave	Seekonk	c 1920
SEE.35		659 Fall River Ave	Seekonk	c 1870
SEE.34	Fuller, Levi House	660 Fall River Ave	Seekonk	c 1840
SEE.33	Pond - Peck House	663 Fall River Ave	Seekonk	c 1870
SEE.32	Armington House	671 Fall River Ave	Seekonk	c 1870
SEE.22	Hoyl House	1104 Fall River Ave	Seekonk	c 1880
SEE.17	Gregory, J. - Allen, E. House	1388 Fall River Ave	Seekonk	c 1840
SEE.801	Handy Burial Ground	1495 Fall River Ave	Seekonk	1845
SEE.16	Borden, I. House	1527 Fall River Ave	Seekonk	c 1845
SEE.15	Brown, M. E. House	1530 Fall River Ave	Seekonk	c 1860
SEE.13	Wood, Calvin House	1636 Fall River Ave	Seekonk	c 1845
SEE.12		1692 Fall River Ave	Seekonk	c 1890
SEE.11	Golden Bucket Restaurant	1735 Fall River Ave	Seekonk	r 1955
SEE.6		9 Warren Ave	Seekonk	c 1920
SEE.5	Handy, William House	74 Warren Ave	Seekonk	c 1830
SEE.4	Munroe, Capt. Jonathan House	205 Warren Ave	Seekonk	c 1730
SEE.3	Grant, Joseph House	352 Warren Ave	Seekonk	c 1845
SEE.2		363 Warren Ave	Seekonk	c 1885
SEE.1		376 Warren Ave	Seekonk	c 1860