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November 25, 2019 Project Number 12859.55

Ms. Shelley Puleo U.S. Environmental Protection Agency Office of Ecosystem Processing RGP Applications Coordinator (OEP06-1) 5 Post Office Square, Suite 100 Boston, MA 02109-3912

RE: Notice of Intent for Remediation General Permit Commercial Property Cumberland Farms Property #MA2080 3 Main Street – Route 20 Brimfield, MA 01010

Dear Ms. Puleo:

ATC Group Services LLC (ATC) is pleased to provide supporting documentation for the Notice of Intent (NOI) for the Remediation General Permit (RGP) on behalf of Cumberland Farms, Inc. (CFI), for the above-referenced property (the "Site"). This NOI is being submitted in order to obtain approval for the discharge of treated groundwater at the Site. The discharge and dewatering is necessary to allow for the installation of gasoline USTs and other subsurface structures at the Site. A Site Locus is provided as Figure 1 and a Site Plan is provided as Figure 2. A copy of the NOI form is provided as Attachment I.

Background

The Site is located at 3 Main Street in Brimfield, Hampden County, Massachusetts and is comprised of 21,095 square feet of land occupied by a gasoline dispensing station and a CFI convenience store. The convenience store is a 1,710 square foot single story building with no basement and is located on the south central portion of the Site. Two pump islands are located north of the convenience store and three underground storage tanks (USTs) for gasoline are located east of the pump islands. The central portion of the Site is paved and the perimeter of the property is landscaped. The Site is currently owned by CFI and is operated as a gasoline dispensing station and CFI convenience store. The Site was purchased by CFI on June 4, 1976 and was reconstructed in 1977. The reconstruction included the demolition of a former building, the construction of the existing convenience store, the removal of former USTs, and the installation of three 8,000-gallon steel gasoline USTs. Before 1977, the Site was operated as a Texaco gasoline dispensing and automotive repair station. The site is located within the boundaries of an Interim Wellhead Protection Area and there are non-community public drinking water supplies within 500 feet of the site. The site and the area surrounding the site have private drinking water wells. The site is served by a private drinking water well located south of the convenience store. An on-site septic tank and leaching field are located along the northern property boundary. Overhead electric lines enter the northwest corner of the property, run parallel to the western property boundary, and enter the convenience store on the western and southern sides. One catch basin and the respective outfall is located on the property. Two additional catch basins are located along the front of the Site and are connected to the MassDOT stormwater drainage system that runs around the corner of Main Street (Route 20) and along Wales Road (Route 19) and eventually discharges at the Lower Brook.

Pretreatment



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The excavation will be dewatered by installing temporary sump pumps. Pumps will be used so that collected groundwater from the excavation area can then be pumped through a carbon filtration system during excavation activities. The water will then be pumped through bag filters to remove solids and then discharged to a catch basin located along the front of the site. The catch basins are connected to the MassDOT storm water drainage system, which is connected to an outfall located along a retaining wall located beside a culvert which is also known as the Lower Brook located 0.1 miles southeast of the Site. A discharge permit application through MassDOT was be submitted on November 27, 2019 and is expected to be approved by December 12, 2019. Please refer to Figure 1 for the Site Plan depicting the catch basins and Figure 2 for a depiction of the outfall location.

Average flow rate of discharge of treated groundwater from the Site to the storm drainage line is expected to be approximately no more than 50 gallons per minute (gpm) as is consistent with pumping equipment capacity.

Influent Sample Analysis

Groundwater samples were collected from the raw water/influent location (ECS-8) on November 7, 2019 and were submitted to Spectrum/Eurofins Analytical, Inc. of Agawam, Massachusetts for laboratory analysis for the following parameters:

- Total Petroleum Hydrocarbons (TPH) by EPA method 1664,
- Volatile Organic Compounds (VOCs) by EPA Method 8260/624/524.2,
- Semi-Volatile Organic Compounds (SVOCs) by EPA method 625,
- PCBs by EPA method 8082,
- Total metals by EPA Method 200.7,
- Cyanide,
- Ammonia,
- Flashpoint,
- pH,
- Salinity,
- Hardness, and,
- Total Suspended Solids (TSS).

Also, a sample of the receiving water (Lower Brook) was collected on this date for laboratory analysis of pH, Hardness, Ammonia, and Metals. Sampling data is provided in a copy of the laboratory report and is included as Attachment II. Based on the location of the outfall and receiving waters and the proposed design discharge flow, the seven day-ten year low flow (7Q10) of the receiving waters was limited due to lack of information and was determined to be 0.0 MGD and the calculated dilution factor was determined to be 1. MassDEP reviewed and approved the 7Q10 low flow determination and the calculated dilution factor (Attachment III).



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Groundwater analytical results were compared to the Appendix III effluent limitations (www.epa.gov/region1/npdes/rgp.html). These results indicate that no parameters were detected in the effluent samples at concentrations that exceed the applicable EPA Appendix III effluent limitations, however, the following parameter for the outflow sample was outside of the limitation range:

• pH

As the influent pH level is within the appropriate limitation range, the outflow pH level may be a product of other influent sources and discharge during excavation activities is unlikely to be of direct impact in the receiving waters.

Evaluation of Threatened or Endangered Species or Critical Habitat Located within Receiving Waters

There are no surface water bodies present on the site. The nearest surface water bodies are an unnamed tributary located approximately 210 feet south of the site and Sherman Brook located approximately 350 feet east of the site. No Areas of Critical Environmental Concern, Species of Special Concern, or Threatened or Endangered Species are located within 500 feet of the site.

Based on this information, the potential discharge will not have an adverse affect on the NHESP Estimated Habitats of Rare Wildlife. A copy of the MassGIS Resource Priority and NHESP Maps of the Site area is included in Attachment IV.

Review of National Register of Historic Places

Listings of Historic Places within the Town of Brimfield were obtained from the Massachusetts Cultural Resources Information System (MACRIS) online database at http://mhc-macris.net/towns.aspx (accessed November 20, 2019). A copy of the MACRIS report is provided as Attachment V. The database indicated that there are two historic places located in and in close proximity to the Site: The Site building at 3 Main Street, and the Post Office next door (also identified as 3 Main Street) are listed as historical buildings. This project does not involve the demolition or rehabilitation of historic properties.

The proposed redevelopment project has commenced and is expected last for approximately 4-6 months. The duration of the dewatering aspect of the project is only expected to be for a 1 week duration in January 2020. Should you have any questions or concerns regarding the contents of this letter or the NOI for the RGP, please do not hesitate to contact the undersigned at (413)781-0070.

If there are any questions regarding this information, please do not hesitate to contact the undersigned at (413) 781-0070.

Sincerely,

ATC GROUP SERVICES LLC

flexanda N. Riddle

Alexandra N. Riddle



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cc: Matthew Young, Cumberland Farms, Inc., 165 Flanders Road, Westborough, MA Cathy Vakalopoulus, MassDEP, Surface Water Discharge Permit Program, One Winter Street, 5th Floor, Boston, MA 02108 MassDOT, 811 North King Street, Northampton, MA 01060

Attachments

Figure 1: Site Locus
Figure 2: Site Plan

Figure 3: Outflow Assessment Attachment I: NOI for the RGP

Attachment II: Laboratory Analytical Report

Attachment III: MassDEP Approval of 7Q10 Low Flow Determination & Dilution Factor Calculation

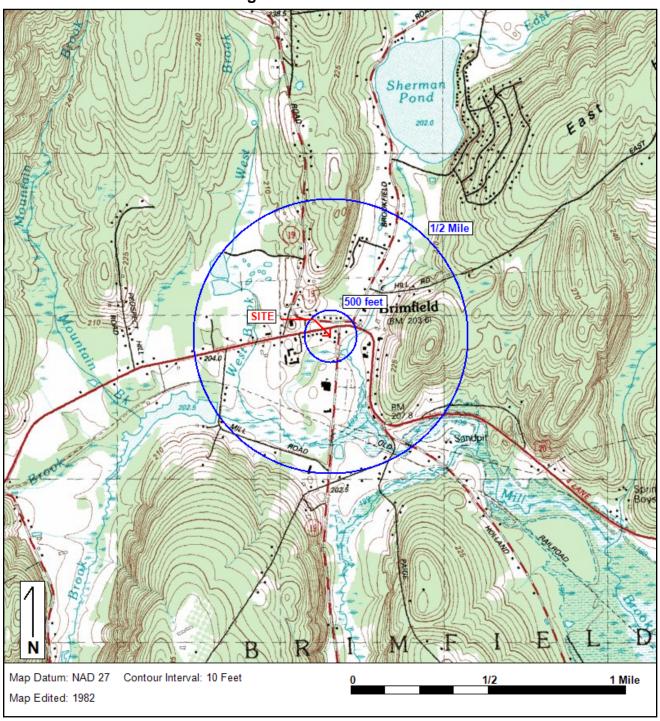
Attachment IV: MassGIS NHESP Map

Attachment V: MACRIS Database Search Results, PNF



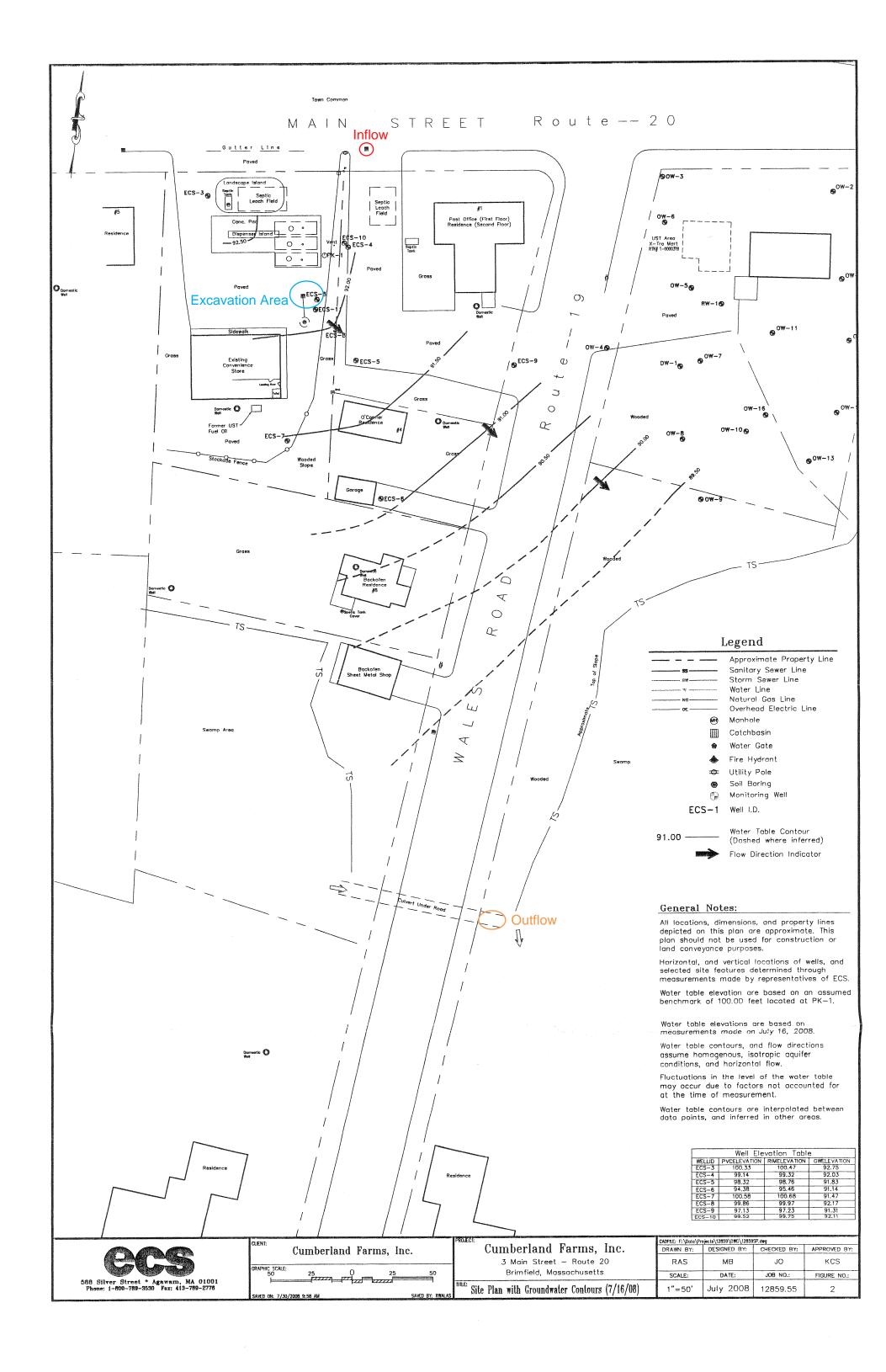
CFI Brimfield,MA 3 Main St Brimfield, MA ATC Group Services LLC
73 William Franks Drive
West Springfield, MA 01089
Phone 413-781-0070 Fax 413-781-3734
www.atcgroupservices.com

Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Southbridge, MA

Lat/Lon: 42.12 NORTH, -72.2008 WEST - UTM Coordinates: 18 4666892 EAST / 731396 NORTH Generated By: Katerina Korolov



2014 Assessment Unit ID: MA41-16 **Water Name:** Unnamed Tributary

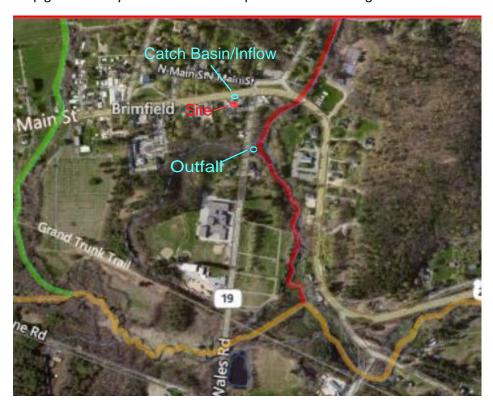
Watershed: Quinebaug Water Type: RIVER Water Code: 4129335 Size: 1.2 MILES Class: B Qualifier: Category: 5 TMDL Count: 0

Description: Unnamed tributary to Mill Brook, headwaters, outlet Sherman Pond, Brimfield to confluence with Mill

Brook, Brimfield.

Use	Attainment	Cause	Poltnt_Flg	Source	TMDL DWM Id
Aesthetic	Fully Supporting				
Fish Consumption	Not Assessed				
Fish, other Aquatic Life and Wildlife	Not Supporting	Oxygen, Dissolved	Y	Source Unknown	
Fish, other Aquatic Life and Wildlife	Not Supporting	Aquatic Macroinvertebrate Bioassessments	Y	Source Unknown	
Fish, other Aquatic Life and Wildlife	Not Supporting	Sedimentation/Siltation	Y	Source Unknown	
Primary Contact Recreation	Not Supporting	Escherichia coli	Y	Non-Point Source	
Secondary Contact Recreation	Not Supporting	Escherichia coli	Y	Non-Point Source	

*Base map generated by MassDEP online Map Viewer - 2014 Integrated List of Waters Map



ATTACHMENT I

MAG910000 NHG910000

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

A. General site information:

1. Name of site: CFI Brimfield	Site address: Cumberland Farms			
	Street: 3 Main Street			
	City: Brimfield		State: MA	Zip: 01010
2. Site owner CFI	Contact Person: Mr. Matthew Young			
CFI	Telephone: (508) 270-4477	Email: MY	oung@cum	berlandfarms.com
	Mailing address: Cumberland Farms			
Ourse is (sheet one). Federal State/Tribel Drivet	Street: 165 Flanders Road			
Owner is (check one): ☐ Federal ☐ State/Tribal ■ Private ☐ Other; if so, specify:	City: Westborough		State: MA	Zip: 01581
3. Site operator, if different than owner	Contact Person: Mr. Matthew Young (See info above	e)		
	Telephone:	Email:		
	Mailing address:			
	Street:			
	City:		State:	Zip:
4. NPDES permit number assigned by EPA:	5. Other regulatory program(s) that apply to the site	(check all th	at apply):	
	☐ MA Chapter 21e; list RTN(s):	□ CERCL	LA	
NDDEC		☐ UIC Program		
NPDES permit is (check all that apply: ■ RGP □ DGP □ CGP □ MSGP □ Individual NPDES permit □ Other; if so, specify:	☐ NH Groundwater Management Permit or Groundwater Release Detection Permit:	☐ POTW Pretreatment		
□ MSGr □ marvidual NFDES permit □ Other, if so, specify:		□ CWA S	Section 404	

 \Box Other; if so, specify:

R.	Receiving	water	infor	mation:
ν.	Treceiving.	matti	mor	manom.

Has the operator attached a summary of influent

VIII? (check one):

■ Yes □ No

sampling results as required in Part 4.2 of the RGP in accordance with the instruction in Appendix

B. Receiving water information:			
1. Name of receiving water(s): Locally known as Lowe Brook (source: historical town engineering plans)-	Waterbody identification of receiving water Unnamed Tributary MA41-16		cation of receiving water(s):
identified by MA as "Unnamed Tributary"	Unnamed Tributary MA41-16		k culvert outfalls eventually into the ass B, category 5 impaired stream)
Receiving water is (check any that apply): □ Outstanding	g Resource Water □ Ocean Sanctuary □ territo	rial sea □ Wild and Scenic 1	River
2. Has the operator attached a location map in accordance	e with the instructions in B, above? (check one):	■Yes □ No	
Are sensitive receptors present near the site? (check one): If yes, specify:	: □ Yes ■ No		
3. Indicate if the receiving water(s) is listed in the State's Integrated Later TMDL is available for any of the indicated pollutants. Yes, listed in sedimentation/siltation. Primary and Secondary Recreation	2014, Fish/wildlife use is impaired due to non-s	supporting Aquatic Macroiny	vertebrates and
4. Indicate the seven day-ten-year low flow (7Q10) of the Appendix V for sites located in Massachusetts and Appe		the instructions in	0
5. Indicate the requested dilution factor for the calculatio accordance with the instructions in Appendix V for sites			1
6. Has the operator received confirmation from the appro- If yes, indicate date confirmation received:	opriate State for the 7Q10and dilution factor indi	cated? (check one): Yes	□ No
7. Has the operator attached a summary of receiving water	er 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	Contaminated surface water	☐ The receiving water	☐ Potable water; if so, indicate municipality or origin:

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

☐ A surface water other

so, indicate waterbody:

than the receiving water; if

2. Source water contaminants: Chloride, Ammonia as N, TSS, TDS	
a. For source waters that are contaminated groundwater or contaminated surface water, indicate are any contaminants present that are not included in	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
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.	with the instructions in Appendix VIII? (check one): ☐ Yes ☐ No
3. Has the source water been previously chlorinated or otherwise contains resid	lual chlorine? (check one): ☐ Yes ■ No
D. Discharge information	
1.The discharge(s) is a(n) (check any that apply): ■ Existing discharge □ New	v discharge □ New source
Outfall(s): Lower Brook Culvert, located on the east side of Route 19 (Wales Fapproximately 500 feet south of the corner of Rt 20 and RT 19	Rd), Outfall location(s): (Latitude, Longitude) Latitude: 42° 7'15.26"N Longitude: 72°12'2.63"W
Discharges enter the receiving water(s) via (check any that apply): □ Direct di	scharge to the receiving water Indirect discharge, if so, specify:
GW discharges via catch basins to enter the receiving storm drainage s via the Lower Brook culvert pipe into swamp which connects to East Br	system that drains from Route 20 (MassDOT) underground to Route 19 and exits ook
☐ A private storm sewer system ■ A municipal storm sewer system If the discharge enters the receiving water via a private or municipal storm sew Has notification been provided to the owner of this system? (check one): ■ Yes	•
obtaining permission: MassDOT permit application to be submitted by 11 Has the operator attached a summary of any additional requirements the owner	
Provide the expected start and end dates of discharge(s) (month/year): March 9, 2019 to March 27, 2019 (this is a time window when	rein discharge anticipated to last approx. one week during tank installation event)
Indicate if the discharge is expected to occur over a duration of: ■ less than 12	2 months □ 12 months or more □ is an emergency discharge
Has the operator attached a site plan in accordance with the instructions in D, a	bove? (check one): ■ Yes □ No

2. Activity Category: (check all that apply)	3. Contamination Type Category: (check all that apply)				
	a. If Activity Categ	ory 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 				
 □ I – Petroleum-Related Site Remediation □ II – Non-Petroleum-Related Site Remediation 	b. If Activity Category III, IV, V, VI, VII or VIII: (check either G or H)				
■ III – Contaminated Site Dewatering□ IV – Dewatering of Pipelines and Tanks	■ G. Sites with Known Contamination	☐ H. Sites with Unknown Contamination			
 □ V – Aquifer Pump Testing □ VI – Well Development/Rehabilitation □ VII – Collection Structure Dewatering/Remediation 	c. If Category III-G, IV-G, V-G, VI-G, VII-G or VIII-G: (check all that apply)				
□ VIII – Dredge-Related Dewatering	 □ 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 	d. If Category III-H, IV-H, V-H, VI-H, VII-H or VIII-H Contamination Type Categories A through F apply			

4. Influent and Effluent Characteristics

	Known	Known		TF4	.	In	fluent	Effluent Limitations	
Parameter	or believed absent	or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEI
A. Inorganics									
Ammonia		V	1	350.1	1.0			Report mg/L	
Chloride		~	1	300.0	19,500	19,500	19,500	Report µg/l	
Total Residual Chlorine	~		1	SM4500	0.020			0.2 mg/L	
Total Suspended Solids	~		1	2540	2.5	150	150	30 mg/L	
Antimony	~		1	6010	6			206 μg/L	
Arsenic	~		1	6010	4			104 μg/L	
Cadmium	~		1	6010	2.5			10.2 μg/L	
Chromium III	~		1	6010	5	8	8	323 µg/L	
Chromium VI	~		1	7196A	25			323 µg/L	
Copper		~	1	6010	5	11.4	11.4	242 μg/L	
Iron		~	1	6010	15	7,560	7,560	5,000 μg/L	
Lead	~		1	6010	7.5			160 μg/L	
Mercury	~		1	7470	0.2			0.739 μg/L	
Nickel	~		1	6010	1	7	7	1,450 µg/L	
Selenium	~		1	6010	15			235.8 μg/L	
Silver	~		1	6010	5			35.1 μg/L	
Zinc		~	1	6010	5	22	22	420 μg/L	
Cyanide	~		1	335.4	0.005			178 mg/L	
B. Non-Halogenated VOCs	_	T	ı	T	T			I 400 g	
Total BTEX	~		1	524.2	0.50			100 μg/L	
Benzene	<i>V</i>		1	524.2	0.50			5.0 μg/L	
1,4 Dioxane	<i>'</i>		1	624	20			200 μg/L	
Acetone	<i>'</i>		1	524.2	0.010			7.97 mg/L	
Phenol	<i>V</i>		1	625	5			1,080 μg/L	
	_1	1			1	1	1	1	

	Known	Known		_		Influent		Effluent Limitations	
Parameter	or believed absent	or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride	V		1	624	0.50			4.4 μg/L	
1,2 Dichlorobenzene	~		1	624	0.50			600 μg/L	
1,3 Dichlorobenzene	~		1	624	0.50			320 µg/L	
1,4 Dichlorobenzene	~		1	624	0.50			5.0 μg/L	
Total dichlorobenzene	~		1	624	0.50			763 µg/L in NH	
1,1 Dichloroethane	~	_	1	624	0.50			70 μg/L	
1,2 Dichloroethane	~		1	624	0.50			5.0 μg/L	
1,1 Dichloroethylene	~		1	624	0.50			3.2 μg/L	
Ethylene Dibromide	~		1	624	0.50			0.05 μg/L	
Methylene Chloride	~		1	624	0.50			4.6 μg/L	
1,1,1 Trichloroethane	~		1	624	0.50			200 μg/L	
1,1,2 Trichloroethane	~		1	624	0.50			5.0 μg/L	
Trichloroethylene	~		1	624	0.50			5.0 μg/L	
Tetrachloroethylene	~		1	624	0.50			5.0 μg/L	
cis-1,2 Dichloroethylene	~		1	624	0.50			70 μg/L	
Vinyl Chloride	~		1	624	0.50			2.0 μg/L	
D. Non-Halogenated SVO	Cs								
Total Phthalates	V		1	625	5.0			190 μg/L	
Diethylhexyl phthalate	V		1	625	5.0			101 μg/L	
Total Group I PAHs	~		1	625	0.05			1.0 μg/L	
Benzo(a)anthracene	~		1	625	0.05				
Benzo(a)pyrene	~		1	625	0.05				
Benzo(b)fluoranthene	~		1	625	0.05			 	
Benzo(k)fluoranthene	~		1	625	0.05			As Total PAHs	
Chrysene	~		1	625	0.05				
Dibenzo(a,h)anthracene	~		1	625	0.05			1	
Indeno(1,2,3-cd)pyrene	~		1	625	0.05				

	Known	Known				Influent		Effluent Limitations	
Parameter	or believed absent	or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
Total Group II PAHs	V		1	625	0.05			100 μg/L	
Naphthalene	V		1	625	0.05			20 μg/L	
E. Halogenated SVOCs									
Total PCBs	V		1	608	0.19			0.000064 μg/L	
Pentachlorophenol	V		1	625	4.81			1.0 μg/L	
F. Fuels Parameters Total Petroleum		Ī			1.0				
Hydrocarbons	~		1	1664	1.0			5.0 mg/L	
Ethanol	V		1	8260	0.200			Report mg/L	
Methyl-tert-Butyl Ether		~	1	524.2	0.50			70 μg/L	
tert-Butyl Alcohol	~		1	524.2	10.0			120 μg/L in MA 40 μg/L in NH	
tert-Amyl Methyl Ether	~		1	524.2	0.50			90 μg/L in MA 140 μg/L in NH	
Other (i.e., pH, temperatu	re, hardness,	salinity, LC	C50. additio	nal pollutar	nts present): i	if so, specify:			
pH		<i>'</i>	1	1293	NA NA				
Hardness		~	1	E200.7	0.291				
								1	

	Known	Known				Inf	luent	Effluent Lin	nitations
Parameter	or believed absent	or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
Total Group II PAHs	~		1	625	0.05			100 μg/L	
Naphthalene	V		1	625	0.05			20 μg/L	
E. Halogenated SVOCs									
Total PCBs	V		1	608	0.19			0.000064 μg/L	
Pentachlorophenol	~		1	625	4.81			1.0 μg/L	
F. Fuels Parameters									
Total Petroleum Hydrocarbons	~		1	1664	1.0			5.0 mg/L	
Ethanol	~		1	8260	0.200			Report mg/L	
Methyl-tert-Butyl Ether		~	1	524.2	0.50			70 μg/L	
tert-Butyl Alcohol	~		1	524.2	10.0			120 μg/L in MA 40 μg/L in NH	
tert-Amyl Methyl Ether	~		1	524.2	0.50			90 μg/L in MA 140 μg/L in NH	
Other (i.e., pH, temperatur	re, hardness,	salinity, LC	C ₅₀ , addition	nal pollutar	nts present);	if so, specify:			
Hardness		~	1	E200.7	0.291				

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	1
☐ Ion Exchange ☐ Precipitation/Coagulation/Flocculation ■ Separation/Filtration ☐ Other; if so, specify:	
Temporary pumps will extract water and the water will be processed through a carbon bag filtration system before discharge into the catch basin.	
2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge. See cover letter supplied with this notice of intent.	
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	T
3. Provide the design flow capacity in gallons per minute (gpm) of the most limiting component.	
Indicate the most limiting component: up to 50 gpm expected flow limitation as within functional range of sump-pumps to be used.	
Is use of a flow meter feasible? (check one): ■ Yes □ No, if so, provide justification:	
Provide the proposed maximum effluent flow in gpm.	50 gpm
Provide the average effluent flow in gpm.	Unknown
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 See Figure 3 for flow source and i	n/effluent points.

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:
2. Provide the following information for each chemical/additive, using attachments, if necessary: NA-No additives to be used.
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): \square Yes \square 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 NA-No additives to be used.
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) \square the operator \square EPA \square 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.
Please see attached letter for a description of supplemental information.
T lease see attached letter for a description of supplemental information.
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 a that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and be no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are information, including the possibility of fine and imprisonment for knowing violations.	persons who manage to pelief, true, accurate, at	the system, or those nd complete. I have
BMPP certification statement:		
Notification provided to the appropriate State, including a copy of this NOI, if required. (This is an MCP Site, therefore the NOI was not submitted to the State, however, the Mass DOT has been notified.)	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	Check one: Yes □	No □ NA ■
☐ Other; if so, specify:		
Signature: Matthew D Goung Da	te: 11/27/2019	
Print Name and Title: Matthew Young, Sr. Project Manager		

ATTACHMENT II



V	Final Report
	Revised Report

Report Date: 02-Dec-19 12:24

Laboratory Report SC56705

ATC Group Services, LLC 73 William Franks Drive West Springfield, MA 01089 Attn: Alexandra Riddle

Project: CFI - Brimfield, MA

Project #: MA-0807

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

New York # 11393 USDA # P330-15-00375

Authorized by:

Dawn Wojcik Laboratory Director

Jawn & Woscik

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 27 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC56705

Project: CFI - Brimfield, MA

Project Number: MA-0807

Laboratory ID	Client Sample ID	<u>Matrix</u>	Date Sampled	Date Received
SC56705-01	ECS-8	Ground Water	07-Nov-19 12:20	07-Nov-19 15:05
SC56705-02	Outflow (Lower Brook Culvert)	Ground Water	07-Nov-19 12:20	07-Nov-19 15:05

This laboratory report is not valid without an authorized signature on the cover page.

MassDEP Analytical Protocol Certification Form

Labo	ratory Name: Eur	rofins Spectrum Analytica	l, Inc.	Project #: MA-08	07		
Proje	ct Location: CFI	- Brimfield, MA		RTN:			
This	form provides cei	rtifications for the follow	ing data set:	SC56705-01 through SC56	705-02		
Matr	ices: Ground Wa	ater					
CAM	Protocol						
/	260 VOC AM II A	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP API CAM IX A	H
	270 SVOC AM II B	7010 Metals CAM III C	MassDEP EPH CAM IV B	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B	
	010 Metals AM III A	6020 Metals CAM III D	8082 PCB CAM V A	9012 Total ✓ Cyanide/PAC CAM VI A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlora CAM VIII B	nte
		Affirmative responses t	o questions A through	F are required for "Presu			
A	_			cribed on the Chain of Cus repared/analyzed within m		✓ Yes	No
В	Were the analytic protocol(s) follow		ciated QC requirements	specified in the selected C	CAM	✓ Yes	No
Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?							No
D				ents specified in CAM VII Reporting of Analytical D		✓ Yes	No
E		d APH Methods only: Was the		ed without significant mod eported for each method?	ification(s)?	Yes Yes	No No
F				non-conformances identific o questions A through E)?	ed and	✓ Yes	No
		Responses to question	ons G, H and I below at	re required for "Presumpt	ive Certainty" status		
G	Were the reporting	ng limits at or below all C	AM reporting limits spe	ecified in the selected CAN	I protocol(s)?	✓ Yes	No
		at achieve "Presumptive Cer a 310 CMR 40. 1056 (2)(k) a		cessarily meet the data usabii	lity and representativeness		
Н	Were all QC perf	formance standards specif	ied in the CAM protoco	l(s) achieved?		✓ Yes	No
I	Were results repo	orted for the complete ana	lyte list specified in the	selected CAM protocol(s)	?	Yes ✓	No
All ne	gative responses are	e addressed in a case narrat	ive on the cover page of th	nis report.			
				pon my personal inquiry of t y knowledge and belief, accu	•		
					Jawn & Waisik	Woscik	٤
					Dawn E. Wojcik Laboratory Director	V	

Date: 12/2/2019

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 4.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

According to WSC-CAM 5/2009 Rev.1, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended recovery range, a range has been set based on historical control limits.

Some target analytes which are not listed as exceptions in the Summary of CAM Reporting Limits may exceed the recommended RL based on sample initial volume or weight provided, % moisture content, or responsiveness of a particular analyte to purge and trap instrumentation.

Reactivity (40 CFR 261.23) Case Narrative:

These samples do not exhibit the characteristics of reactivity as defined in 40 CFR 261.23, sections (1), (2) and (4); however, Eurofins Spectrum Analytical, Inc. does not test for detonation, explosive reaction or potential, or forbidden explosives as defined in 40 CFR 261.23, sections (3), (6), (7) and (8).

Reactive sulfide and cyanide are tested at a pH of 2 and not tested at all conditions between pH 2 and 12.5 as stated in 40 CFR 261.23, section (5); thus reactive cyanide and sulfide results as reported in this document can not be used to support the nonreactive properties of these samples.

The responsibility falls on the generator to use knowledge of the waste to determine if the waste meets or does not meet the descriptive, prose definition of reactivity.

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Method 624.1: The laboratory control sample (LCS) for analytical batch 480-505133 recovered outside control limits for the following analytes: 2-Methyl-2-Propanol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore,

the data have been reported.SC56705-01 (480-162546-1)

Method 624.1: The continuing calibration verification (CCV) associated with batch 480-505133 recovered above the upper control limit for

2-Methyl-2-Propanol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: SC56705-01 (480-162546-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 608.3: The laboratory control sample duplicate (LCSD) for preparation batch 480-504409 and analytical batch 480-504603 recovered outside control limits for the following analytes: PCB-1016. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 200.8: The laboratory control sample (LCS) for preparation batch 480-504539 and analytical batch 480-505178 recovered outside

control limits for the following analytes: Total Antimony. This analyte was biased high in the LCS and was not detected in the associated samples, SC56705-01 (480-162546-1) and SC56705-02 (480-162546-2); therefore, the data have been reported.

Method 200.8: The Initial Calibration Verification (ICV 480-505178/5) recovered above the upper control limit for Total Antimony. The sample SC56705-02 (480-162546-2) associated with this ICV was non-detect for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-504409.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

200.7 Rev 4.4

Samples:

SC56705-01 *ECS-8*

Compound was found in the blank and sample.

Iron

200.8

Laboratory Control Samples:

504539 BS

Antimony percent recovery 121 (85-115) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

ECS-8

Outflow (Lower Brook Culvert)

505761-14

LCS or LCSD is outside acceptance limits.

Antimony

Samples:

SC56705-01RE1 ECS-8

LCS or LCSD is outside acceptance limits.

Antimony

SC56705-02 Outflow (Lower Brook Culvert)

200.8

Samples:

SC56705-02

Outflow (Lower Brook Culvert)

ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Antimony

LCS or LCSD is outside acceptance limits.

Antimony

608.3

Laboratory Control Samples:

504603-59

LCS or LCSD is outside acceptance limits.

PCB-1016

Samples:

SC56705-01

ECS-8

LCS or LCSD is outside acceptance limits.

PCB-1016

E625.1/E625.1SIM

Laboratory Control Samples:

505293A BS

2-Nitroaniline percent recovery 137 (30-130) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

ECS-8

Benzidine percent recovery <10 (30-130) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

ECS-8

Bis(2-chloroisopropyl)ether percent recovery 61 (63-139) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

ECS-8

505293A BSD

4-Chloroaniline RPD 52.8% (20%) is outside individual acceptance criteria.

Pyridine RPD 38.1% (20%) is outside individual acceptance criteria.

CE55177-LCS

This parameter is outside laboratory rpd specified recovery limits.

Pyridine

CE55177-LCSD

This parameter is outside laboratory lcs/lcsd specified recovery limits.

Hexachlorocyclopentadiene

E625.1/E625.1SIM

Laboratory Control Samples:

CE55177-LCSD

This parameter is outside laboratory rpd specified recovery limits.

Pyridine

CF55177-LCS

This parameter is outside laboratory lcs/lcsd specified recovery limits.

2-Nitroaniline

Benzidine

Bis(2-chloroisopropyl)ether

This parameter is outside laboratory rpd specified recovery limits.

4-Chloroaniline

CF55177-LCSD

This parameter is outside laboratory lcs/lcsd specified recovery limits.

2-Nitroaniline

 $Bis (2\hbox{-}chloroisopropyl) ether\\$

This parameter is outside laboratory rpd specified recovery limits.

4-Chloroaniline

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Sample Acceptance Check Form

Client:	ATC Group Services, LLC - West Springfield, MA
Project:	CFI - Brimfield, MA / MA-0807

Work Order: SC56705 Sample(s) received on: 11/7/2019

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	<u>No</u>	N/A
Were custody seals present?		\checkmark	
Were custody seals intact?			✓
Were samples received at a temperature of $\leq 6^{\circ}$ C?	\checkmark		
Were samples cooled on ice upon transfer to laboratory representative?	\checkmark		
Were sample containers received intact?	\checkmark		
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	\checkmark		
Were samples accompanied by a Chain of Custody document?	\checkmark		
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	V		
Did sample container labels agree with Chain of Custody document?	\checkmark		
Were samples received within method-specific holding times?		\checkmark	

Summary of Hits

Lab ID: SC56705-01

Client l	m.	ECS-8
C Hent I		EV 2-9

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
TPH (1664A)	3.0		5.2	mg/l	1664B
Iron	0.41	В	0.050	mg/l	200.7 Rev 4.4
Chromium	0.83		1.5	ug/l	200.8
Copper	5.9		1.0	ug/l	200.8
Lead	0.63		1.0	ug/l	200.8
Nickel	0.39		1.0	ug/l	200.8
Zinc	88		10	ug/l	200.8
Chloride	23.2		3.0	mg/l	E300.0
Ammonia as Nitrogen	0.05		0.05	mg/l	E350.1
Calcium hardness as calcium carbonate	1.6		0.50	mg/l	SM 2340B
Hardness as calcium carbonate	2.1		0.50	mg/l	SM 2340B
Magnesium hardness as calcium carbonate	0.49		0.50	mg/l	SM 2340B
Total Suspended Solids	12		5.0	mg/l	SM 2540D-11
Tot. Diss. Solids	120		20	mg/l	SM2540C-11
pH	6.84		1.00	pH Units	SM4500-H B-11
Reactivity	Negative		0	mg/l	SW846-React

Lab ID: SC56705-02

Client ID:	Outflow	(Lower Bro	ok Culvert
CHCHLID.	Outhow	LUWUI DIU	ok Cuiveii

Parameter	Result	Flag Reporting Limit	Units	Analytical Method
Copper	1.2	1.0	ug/l	200.8
Lead	1.1	1.0	ug/l	200.8
Nickel	1.4	1.0	ug/l	200.8
Zinc	17	10	ug/l	200.8
Ammonia as Nitrogen	0.15	0.05	mg/l	E350.1
Hardness as calcium carbonate	68	4.0	mg/l	SM 2340C
pН	6.16	1.00	pH Units	SM4500-H B-11

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

ECS-8 SC56705-	lentification -01				Project # 0807		<u>Matrix</u> Ground W		ection Date -Nov-19 12			<u>ceived</u> Nov-19	
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
	cted Analyses												
	by method E300.0												
, ,	erformed by Phoenix Environ		c. * - MAC'		2.0	2.0	4	F200 0	00 Nav. 40	00 Nav. 40	M DAGGO	F0FF0CA	
16887-00-6	Chloride	23.2		mg/l	3.0	3.0	1	E300.0	08-Nov-19 03:06	08-Nov-19 03:06	M-PA009	505536A	•
Prepared	by method E350.1												
Analysis pe	erformed by Phoenix Environ	nental Labs, In	c. * - MAC'	Т007									
7664-41-7	Ammonia as Nitrogen	0.05		mg/l	0.05	0.05	1	E350.1	08-Nov-19 10:11	08-Nov-19 10:11	M-PA009	505357A	L.
Subcontra	acted Analyses												
Analysis pe	erformed by Phoenix Environi	nental Labs, In	c. * - MAC	Т007									
83-32-9	Acenaphthene	< 0.05		ug/l	0.05	0.05	1	E625.1/E625.1SI M	07-Nov-19	11-Nov-19 05:32	M-PA009	505293A	
208-96-8	Acenaphthylene	< 0.05		ug/l	0.05	0.05	1	"	"	"	"	"	
56-55-3	Benzo(a)anthracene	< 0.04		ug/l	0.04	0.04	1	"	"	"	"	"	
50-32-8	Benzo(a)pyrene	< 0.05		ug/l	0.05	0.05	1	"	"	"	"	"	
205-99-2	Benzo(b)fluoranthene	< 0.05		ug/l	0.05	0.05	1	u u	"	"	"	"	
191-24-2	Benzo(g,h,i)perylene	< 0.10		ug/l	0.10	0.10	1	u u	"	"	"	"	
207-08-9	Benzo(k)fluoranthene	< 0.05		ug/l	0.05	0.05	1	"	"	"	"	"	
218-01-9	Chrysene	< 0.05		ug/l	0.05	0.05	1	"	"	"	"	"	
53-70-3	Dibenz(a,h)anthracene	< 0.02		ug/l	0.02	0.02	1	"	"	"	"	"	
118-74-1	Hexachlorobenzene	< 0.06		ug/l	0.06	0.06	1	"	u u	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
77-47-4	Hexachlorocyclopentadien e	< 0.10		ug/l	0.10	0.10	1	"	"	"	"	"	
193-39-5	Indeno(1,2,3-c,d)pyrene	< 0.05		ug/l	0.05	0.05	1	п	"	"	"	"	
98-95-3	Nitrobenzene	< 0.10		ug/l	0.10	0.10	1	u u	"	"	u	"	
62-75-9	N-Nitrosodimethylamine	< 0.05		ug/l	0.05	0.05	1	"	"	"	"	"	
87-86-5	Pentachlorophenol	< 0.05		ug/l	0.05	0.05	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 0.05		ug/l	0.05	0.05	1	"	"	"	"	"	
110-86-1	Pyridine	< 0.48		ug/l	0.48	0.48	1	"	"	"	"	"	
Surrogate i	recoveries:												
118-79-6	% 2,4,6-Tribromophenol	85			15-11	0 %		"	"	"	"	"	
321-60-8	% 2-Fluorobiphenyl	64			40-14	0 %		"	"	"	"	"	
367-12-4	% 2-Fluorophenol	37			15-11	0 %		"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	52			40-14	0 %		"	"	"	"	"	
4165-62-2	% Phenol-d5	17			15-11	0 %		"	"	"	"	"	
98904-43-9	% Terphenyl-d14	68			40-14	0 %		II	"	"	"	"	
	sis of Subcontracted Analys												
120-82-1	1,2,4-Trichlorobenzene	< 4.8		ug/l	4.8	4.8	1	E625.1/E625.1SI M	07-Nov-19	12-Nov-19 00:33	M-PA009	505293A	t.
95-50-1	1,2-Dichlorobenzene	< 4.8		ug/l	4.8	4.8	1	п	"	"	"	"	
122-66-7	1,2-Diphenylhydrazine	< 4.8		ug/l	4.8	4.8	1	11	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 4.8		ug/l	4.8	4.8	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 4.8		ug/l	4.8	4.8	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 4.8		ug/l	4.8	4.8	1	"	"	"	"	"	
88-06-2	2,4,6-Trichlorophenol	< 4.8		ug/l	4.8	4.8	1	n .	"	"	"	"	
120-83-2	2,4-Dichlorophenol	< 4.8		ug/l	4.8	4.8	1	п	n n	"	"	"	
105-67-9	2,4-Dimethylphenol	< 4.8		ug/l	4.8	4.8	1	"	"	"	"	"	

4.8

1

4.8

ug/l

N-Nitrosodiphenylamine

< 4.8

86-30-6

Sample Identification ECS-8 SC56705-01			Client Project # MA-0807					llection Date/Time 07-Nov-19 12:20		Received 07-Nov-19			
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert
Subcontra	cted Analyses												
Analysis pe	erformed by Phoenix Enviror	ımental Labs, Ir	nc. * - MAC	T007									
Re-analys	sis of Subcontracted Analy	<u>/ses</u>											
108-95-2	Phenol	< 4.8		ug/l	4.8	4.8	1	E625.1/E625.1SI M	07-Nov-19	12-Nov-19 00:33	M-PA009	505293A	
129-00-0	Pyrene	< 4.8		ug/l	4.8	4.8	1	"	"	"	"	"	
Surrogate i	recoveries:												
118-79-6	% 2,4,6-Tribromophenol	111			15-13	80 %		"	"	"	"	"	
321-60-8	% 2-Fluorobiphenyl	59			30-13	80 %		u u	"	"	"	"	
367-12-4	% 2-Fluorophenol	35			10-13	80 %		"	"	"	"	"	
4165-60-0	% Nitrobenzene-d5	54			15-13	80 %		"	"	"	"	"	
4165-62-2	% Phenol-d5	16			10-13	80 %		"	"	"	"	"	
98904-43-9 Prepared	% Terphenyl-d14 by method SM 2540D-11	66			30-13	80 %		n	n	n	"	"	
	erformed by Phoenix Enviror	mental Lahs II	nc * - M4C	T007									
Analysis pe	Total Suspended Solids	12	и мас	mg/l	5.0	5.0	1	SM 2540D-11	08-Nov-19 07:26	08-Nov-19 07:26	M-PA009	505410A	
Prepared	by method SM2540C-11								07.20	01.20			
Analysis pe	erformed by Phoenix Environ	ımental Labs, Ir	nc. * - MAC	T007									
	Tot. Diss. Solids	120		mg/l	20	20	2	SM2540C-11	08-Nov-19 10:47	08-Nov-19 10:47	M-PA009	505457A	
	by method SM3500CRB												
	erformed by Phoenix Enviror		nc. * - MAC		0.04	0.04	4	CM2500CDD 44	07 Nav. 40	07 Nov. 40	M DA000	F0F040A	
18540-29-9	Chromium, Hexavalent	< 0.01		mg/l	0.01	0.01	1	SM3500CRB-11	07-NOV-19	18:32	W-PAUU9	5053494	
Prepared	by method SM4500CI-G												
Analysis pe	erformed by Phoenix Enviror	ımental Labs, Iı	nc. * - MAC	T007									
7782-50-5	Chlorine Residual	< 0.02		mg/l	0.02	0.02	1	SM4500CI-G-00	"	07-Nov-19 18:11	M-PA009	505348A	
Prepared	by method SM4500-H B-	<u>11</u>								10.11			
Analysis pe	erformed by Phoenix Enviror	ımental Labs, Ir	nc. * - MAC	T007									
	рН	6.84	рН	pH Units	1.00	1.00	1	SM4500-H B-11	08-Nov-19 00:01	08-Nov-19 00:01	M-PA009	505429A	
Prepared	by method SW-7.3												
Analysis pe	erformed by Phoenix Enviror	ımental Labs, Ir	nc. * - MAC	T007									
	Reactivity Sulfide	< 5		mg/l	5	5	1	SW-7.3	08-Nov-19 14:58	08-Nov-19 14:58	M-PA009	'[none]'	
	<u>acted Analyses</u> by method SW846-React												
Analysis pe	erformed by Phoenix Enviror	ımental Labs, Ir	nc. * - MAC	T007									
	Reactivity	Negative		mg/l	0	0	1	SW846-React	08-Nov-19 15:03	08-Nov-19 15:03	M-PA009	505406A	
	sis of Subcontracted Analyby method SW846-React												
	Reactivity Cyanide	< 2.0		mg/l	2.0	2.0	1.99	SW846-React		08-Nov-19	M-PA009	505406A	
<u>Prepared</u>	by method SM 4500 CN								12:58	12:58			
	erformed by Phoenix Enviror	ımental Labs. Ir	nc. * - MAC	T007									
57-12-5	Total Cyanide	< 0.010		mg/l	0.010	0.010	1	SW9010C/SW90 12B	08-Nov-19	12-Nov-19 12:23	M-PA009	505548A	
	cted Analyses by method 8011												

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 $\label{lem:analysis} \textit{Analysis performed by TestAmerica Analytical Testing Corp.-Buffalo~-DSC}$

Sample Identification ECS-8 SC56705-01		Client Project # MA-0807		Matrix Ground Water		'	Collection Date/Time 07-Nov-19 12:20			Received 07-Nov-19			
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert
	cted Analyses by method 8011												
Analysis pe	erformed by TestAmerica A	Analytical Testing	Corp Buffal	lo - DSC									
106-93-4	Ethylene Dibromide	< 0.011		ug/l	0.011	0.0077	1	8011		19-Nov-19	DSC	505127	
Prepared	by method 1664B								10:52	01:34			
-	erformed by TestAmerica A	Analytical Testing	Corp Buffal	lo - CRK									
, 1	TPH (1664A)	3.0	1 00	mg/l	5.2	2.0	1	1664B	20-Nov-19	20-Nov-19	CRK	505679	
Prenared	by method 245.1								12:33	14:59			
	erformed by TestAmerica A	Inalytical Testing	Corn - Ruffal	lo - RMR									
7439-97-6	Mercury	< 0.00020	согр Бијјаг	mg/l	0.00020	0.00012	1	245.1	18-Nov-19	18-Nov-19	BMB	505172	
	,	0.00020		9	0.00020	0.000.2		2.0	14:09	16:38	55		
	by method 200.7												
	erformed by TestAmerica A				0.075	0.010	,	000 7 5	44.81 (5	44.81 45		EO (5.1 -	
7439-89-6	Iron	0.41	В	mg/l	0.050	0.019	1	200.7 Rev 4.4	14-Nov-19 09:46	14-Nov-19 22:40	AMH	504316	
	octed Analyses by method 200.8												
Analysis pe	erformed by TestAmerica A	Analytical Testing	Corp Buffal	lo - KMP									
7440-38-2	Arsenic	< 1.0		ug/l	1.0	0.27	1	200.8	15-Nov-19 08:05	18-Nov-19 12:30	KMP	504539	
7440-41-7	Beryllium	< 0.70		ug/l	0.70	0.030	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.50		ug/l	0.50	0.071	1	"	"	"	"	"	
7440-47-3	Chromium	0.83		ug/l	1.5	0.36	1	"	"	"	"	"	
7440-50-8	Copper	5.9		ug/l	1.0	0.22	1	"	"	"	"	"	
7439-92-1	Lead	0.63		ug/l	1.0	0.17	1	"	"	"	"	"	
7440-02-0	Nickel	0.39		ug/l	1.0	0.11	1	"	"	"	"	"	
7782-49-2	Selenium	< 1.0		ug/l	1.0	0.44	1	"	"	"	"	"	
7440-22-4	Silver	< 0.50		ug/l	0.50	0.036	1	"	"	"	"	"	
7440-28-0	Thallium	< 0.20		ug/l	0.20	0.019	1	"	"	"	"	"	
7440-66-6	Zinc	88		ug/l	10	2.6	1	"	"	"	"	"	
	sis of Subcontracted Ana by method 200.8	<u>alyses</u>											
7440-36-0	Antimony	< 1.0	*	ug/l	1.0	0.35	1	200.8	15-Nov-19 08:05	20-Nov-19 14:55	KMP	504539	
	acted Analyses by method 3510C												
	erformed by TestAmerica A	Analytical Testing	Corn - Buffal	lo - WIT									
	PCB-1016	< 0.057	*	ug/l	0.057	0.036	1	608.3	14-Nov-19 08:49	15-Nov-19 09:55	W1T	504409	
11104-28-2	PCB-1221	< 0.057		ug/l	0.057	0.036	1		"	"	"	"	
11141-16-5	PCB-1232	< 0.057		ug/l	0.057	0.036	1	ıı .	"	"	"	"	
53469-21-9	PCB-1242	< 0.057		ug/l	0.057	0.036	1		"		"	"	
12672-29-6	PCB-1248	< 0.057		ug/l	0.057	0.036	1		"		"	"	
11097-69-1	PCB-1254	< 0.057		ug/l	0.057	0.030	1	n	"	"	"	"	
11096-82-5	PCB-1260	< 0.057		ug/l	0.057	0.030	1	"	"	"	"	"	
37324-23-5	PCB-1262	< 0.057		ug/l	0.057	0.030	1	"	"	"	"	"	
11100-14-4	PCB-1268	< 0.057		ug/l	0.057	0.030	1	"	"	"	"	"	
Surrogate r	recoveries:												
2051-24-3	DCB Decachlorobipheny	1 57			36-12	21 %		"	"	"	"		

Sample Identification ECS-8							<u>Matrix</u> Ground Wa	Colluter 07	Received 07-Nov-19				
SC56705-	-01												
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Ce
Subcontra	cted Analyses												
Subcontra	acted Analyses												
Analysis pe	erformed by TestAmerica And	alytical Testing	Corp Buffalo	- W1T									
877-09-8	Tetrachloro-m-xylene (Surr)	104			42-13	5 %		608.3	14-Nov-19 08:49	-Nov-19 09:	W1T	504409	
	acted Analyses by method NA												
Analysis pe	erformed by TestAmerica An	alytical Testing	Corp Buffalo	- LMH									
	Calcium hardness as calcium carbonate	1.6		mg/l	0.50	0.10	1	SM 2340B	26-Nov-19 08:28	26-Nov-19 08:28	LMH	506759	
	Hardness as calcium carbonate	2.1		mg/l	0.50	0.10	1	"	"	"	"	"	
	Magnesium hardness as calcium carbonate	0.49		mg/l	0.50	0.10	1	"	"	"	"	"	
	acted Analyses by method 624												
-	erformed by TestAmerica And	alvtical Testing	Corp Buffalo	- S1V									
71-55-6	1,1,1-Trichloroethane	< 5.0		ug/l	5.0	0.39	1	624.1	18-Nov-19 13:38	18-Nov-19 13:38	S1V	505133	
9-00-5	1,1,2-Trichloroethane	< 5.0		ug/l	5.0	0.48	1	ıı .	"	"	"	"	
5-34-3	1,1-Dichloroethane	< 5.0		ug/l	5.0	0.59	1	u	"	"	"	"	
5-35-4	1,1-Dichloroethene	< 5.0		ug/l	5.0	0.85	1	u	"	"	"	"	
5-50-1	1,2-Dichlorobenzene	< 5.0		ug/l	5.0	0.44	1	u	"	"	"	"	
07-06-2	1,2-Dichloroethane	< 5.0		ug/l	5.0	0.60	1	u	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.0		ug/l	5.0	0.54	1	u	"	"	"	"	
06-46-7	1,4-Dichlorobenzene	< 5.0		ug/l	5.0	0.51	1	u	"	"	"	"	
23-91-1	1,4-Dioxane	< 200		ug/l	200	15	1		"	"	"	"	
1-43-2	Benzene	< 5.0		ug/l	5.0	0.60	1	u	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.0		ug/l	5.0	0.51	1	u	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 5.0		ug/l	5.0	0.57	1		"	"	"	"	
100-41-4	Ethylbenzene	< 5.0		ug/l	5.0	0.46	1	"	"	"	"	"	
634-04-4	Methyl tert-butyl ether	< 5.0		ug/l	5.0	0.35	1	ıı .	"	"	"	"	
75-09-2	Methylene Chloride	< 5.0		ug/l	5.0	0.81	1	ıı .	"	"	"	"	
79601-23-1	m-Xylene & p-Xylene	< 10		ug/l	10	1.1	1	ıı .	"	"	"	"	
5-47-6	o-Xylene	< 5.0		ug/l	5.0	0.43	1	"	"	"	"	"	
27-18-4	Tetrachloroethene	< 5.0		ug/l	5.0	0.34	1	ıı .	"	"	"	"	
08-88-3	Toluene	< 5.0		ug/l	5.0	0.45	1	ıı .	"	"	"	"	
	Total BTEX	< 10		ug/l	10	1.1	1	п	"	"	"	"	
79-01-6	Trichloroethylene	< 5.0		ug/l	5.0	0.60	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.0		ug/l	5.0	0.75	1	"	"	n n	"	"	
Surrogate	recoveries:			-									
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109			68-13	0 %		"	"	"	"	"	
460-00-4	4-Bromofluorobenzene (Surr)	106			76-12	3 %		"	"	"	"	"	
2037-26-5	Toluene-d8 (Surr)	99			77-12	0 %		"	"	"	"	"	
Analysis pe	erformed by TestAmerica An	alytical Testing	Corp Buffalo	- S1V									

2.0

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2.5

ug/l

67-64-1

Acetone

< 2.5

*	dentification (Lower Brook Culvert)				Project # -0807		<u>Matrix</u> Ground W	· · · · · · · · · · · · · · · · · · ·	ection Date			ceived Nov-19	
SC56705	-02												
CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert
	acted Analyses by method E350.1												
Analysis p	erformed by Phoenix Enviro	onmental Labs,	Inc. * - MAC	CT007									
7664-41-7	Ammonia as Nitrogen	0.15		mg/l	0.05	0.05	1	E350.1	08-Nov-19 10:12	08-Nov-19 10:12	M-PA009	9 505357 <i>A</i>	A
<u>Prepared</u>	by method SM4500-H B	<u>-11</u>											
Analysis p	erformed by Phoenix Enviro	onmental Labs,	Inc. * - MAC	CT007									
	рН	6.16	pН	pH Units	1.00	1.00	1	SM4500-H B-11	08-Nov-19 00:03	08-Nov-19 00:03	M-PA009	5054294	A
	acted Analyses by method NA												
Analysis p	erformed by TestAmerica A	nalytical Testin	g Corp Buf	falo - MB									
	Hardness as calcium carbonate	68		mg/l	4.0	1.1	1	SM 2340C	27-Nov-19 12:55	27-Nov-19 12:55	MB	507212	
<u>Prepared</u>	by method 245.1												
Analysis p	erformed by TestAmerica A	nalytical Testin	g Corp Buf	falo - BMB									
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00012	1	245.1	18-Nov-19 14:09	18-Nov-19 16:39	BMB	505172	
	acted Analyses by method 200.8												
Analysis p	erformed by TestAmerica A	nalytical Testin	g Corp Buf	falo - KMP									
7440-36-0	Antimony	< 1.0	^, *	ug/l	1.0	0.35	1	200.8	15-Nov-19 08:05	18-Nov-19 12:41	KMP	504539	
7440-38-2	Arsenic	< 1.0		ug/l	1.0	0.27	1	"	"		"	"	
7440-41-7	Beryllium	< 0.70		ug/l	0.70	0.030	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.50		ug/l	0.50	0.071	1	"	"	"	"	"	
7440-47-3	Chromium	< 1.5		ug/l	1.5	0.36	1	"	"	"	"	"	
7440-50-8	Copper	1.2		ug/l	1.0	0.22	1	"	u u	"	"	"	
7439-92-1	Lead	1.1		ug/l	1.0	0.17	1	n .	"	"	"	"	
7440-02-0	Nickel	1.4		ug/l	1.0	0.11	1	"	u u	"	"	"	
7782-49-2	Selenium	< 1.0		ug/l	1.0	0.44	1	"	u u	"	"	"	
7440-22-4	Silver	< 0.50		ug/l	0.50	0.036	1	n n	u u	"	"	"	
7440-28-0	Thallium	< 0.20		ug/l	0.20	0.019	1	n .	"	"	"	"	

7440-66-6

Zinc

17

2.6

10

ug/l

1

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Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
<u>E300.0</u>										
Batch 505536A - E300.0										
Blank (CE56714-BLK)					Pre	nared & Ai	nalyzed: 08-	Nov-19		
Chloride	< 3.0		mg/l	3.0	110	, paroa a 7 1	BRL	-		
	10.0		mg/i	0.0	Dro	narad 9 A	nalyzed: 08-			
LCS (CE56714-LCS) Chloride	24.04		ma/l	2.0	90328820		103.4	90-110		20
	31.01		mg/l	3.0	90320020		103.4	90-110		20
E350.1										
Batch 505357A - E350.1										
Blank (CE55464-BLK)					Pre	pared: 07-	Nov-19 An	alyzed: 08-N	lov-19	
Ammonia as Nitrogen	< 0.05		mg/l	0.05			BRL	-		
LCS (CE55464-LCS)					Pre	pared: 07-	Nov-19 An	alyzed: 08-N	lov-19	
Ammonia as Nitrogen	6.690		mg/l	0.05	6.77		98.8	90-110		20
E625.1/E625.1SIM										
Batch 505293A - E625.1					Des		Navi 10 Am	-l d. 40 N	I 40	
Blank (CE55177-BLK)	NO			0.50	Pre	:pared: 07-		alyzed: 10-N	10V-19	
Hexachlorobenzene	ND		ug/l	0.50			ND	-		
Pyridine	ND		ug/l	0.50			ND	-		
Phenanthrene	ND		ug/l	0.50			ND	-		
Pentachlorophenol	ND		ug/l	0.50			ND	-		
N-Nitrosodimethylamine	ND		ug/l	0.05			ND	-		
Nitrobenzene	ND		ug/l	0.50			ND	-		
Indeno(1,2,3-c,d)pyrene	ND		ug/l	0.50			ND	-		
Hexachlorobutadiene	ND		ug/l	0.50			ND	-		
Dibenz(a,h)anthracene	ND		ug/l	0.50			ND	-		
Chrysene	ND		ug/l	0.50			ND	-		
Benzo(k)fluoranthene	ND		ug/l	0.50			ND	-		
Benzo(b)fluoranthene	ND		ug/l	0.50			ND	-		
Benzo(a)pyrene	ND		ug/l	0.50			ND	-		
Benzo(a)anthracene	ND		ug/l	0.50			ND	-		
Hexachlorocyclopentadiene	ND		ug/l	0.50			ND	-		
Acenaphthylene	ND		ug/l	0.50			ND	-		
Acenaphthene	ND		ug/l	0.50			ND	-		
Benzo(g,h,i)perylene	ND		ug/l	0.50			ND	-		
Surrogate: % 2-Fluorophenol	52		ug/l		7.5		52	10-130		
Surrogate: % 2-Fluorobiphenyl	67		ug/l		5		67	30-130		
Surrogate: % Nitrobenzene-d5	61		ug/l		5		61	15-130		
Surrogate: % Phenol-d5	56		ug/l		7.5		56	10-130		
Surrogate: % Terphenyl-d14	77		ug/l		5		77	30-130		
Surrogate: % 2,4,6-Tribromophenol	79		ug/l		7.5		79	15-130		
LCS (CE55177-LCS)			· ·		Pre	epared: 07-	Nov-19 An	alyzed: 10-N	lov-19	
Chrysene	4.465		ug/l	0.50	5		89	44-140		87
Benzo(a)anthracene	4.256		ug/l	0.50	5		85	42-133		53
Pyridine	1.706	r	ug/l	0.50	5		34	30-130		20
Phenanthrene	4.072	•	ug/l	0.50	5		81	65-120		39
Pentachlorophenol	3.589		ug/l	0.50	5		72	38-152		86
N-Nitrosodimethylamine	3.007		ug/l	0.05	5		60	30-132		20
Nitrobenzene	3.408		ug/l ug/l	0.05	5 5		68	54-158		62
			-		5 5					62 99
Indeno(1,2,3-c,d)pyrene	4.990		ug/l	0.50	5 5		100 30	10-151 30-130		20
Hexachlorocyclopentadiene	1.518		ug/l	0.50			30 50			
Hexachlorobutadiene	2.929 3.631		ug/l ug/l	0.50 0.50	5 5		59 73	38-120 8-142		62 55
Hexachlorobenzene	2 621		ual	0.50	5		7.3	8-147		55

					Spike	Source		%REC		RPD
nalyte(s)	Result	Flag	Units	*RDL	Level	Result	%REC	Limits	RPD	Limit
625.1/E625.1SIM										
atch 505293A - E625.1										
LCS (CE55177-LCS)					Pre	epared: 07-	Nov-19 An	alyzed: 10-N	lov-19	
Benzo(g,h,i)perylene	4.628		ug/l	0.50	5	-,	93	10-195		97
Benzo(b)fluoranthene	4.719		ug/l	0.50	5		94	42-140		71
Benzo(a)pyrene	3.843		ug/l	0.50	5		77	32-148		72
Benzo(k)fluoranthene	5.042		ug/l	0.50	5		101	25-146		63
Acenaphthylene	3.620		ug/l	0.50	5		72	54-126		74
Acenaphthene	3.755		ug/l	0.50	5		75	60-132		48
Surrogate: % 2-Fluorophenol	3.473				7.5		46	10-130		
			ug/l		7.5 7.5		46 87			
Surrogate: % 2,4,6-Tribromophenol	6.511		ug/l					15-130		
Surrogate: % 2-Fluorobiphenyl	3.324		ug/l		5		66	30-130		
Surrogate: % Nitrobenzene-d5	3.128		ug/l		5		63	15-130		
Surrogate: % Phenol-d5	3.385		ug/l		7.5		45	10-130		
Surrogate: % Terphenyl-d14	3.689		ug/l		5		74	30-130		
LCS Dup (CE55177-LCSD)				55177-LCS		epared: 07-		alyzed: 10-N		
Acenaphthene	3.573		ug/l	0.50	5		71	60-132	5.5	48
Chrysene	4.280		ug/l	0.50	5		86	44-140	3.4	87
Nitrobenzene	3.116		ug/l	0.50	5		62	54-158	9.2	62
Indeno(1,2,3-c,d)pyrene	4.800		ug/l	0.50	5		96	10-151	4.1	99
Pentachlorophenol	3.326		ug/l	0.50	5		67	38-152	7.2	86
Hexachlorocyclopentadiene	1.308	1	ug/l	0.50	5		26	30-130	14.3	20
Phenanthrene	3.825		ug/l	0.50	5		77	65-120	5.1	39
Hexachlorobutadiene	2.727		ug/l	0.50	5		55	38-120	7.0	62
Hexachlorobenzene	3.478		ug/l	0.50	5		70	8-142	4.2	55
Dibenz(a,h)anthracene	4.208		ug/l	0.50	5		84	10-200	4.7	126
N-Nitrosodimethylamine	2.974		ug/l	0.05	5		59	30-130	1.7	20
Benzo(k)fluoranthene	4.853		ug/l	0.50	5		97	25-146	4.0	63
Benzo(g,h,i)perylene	4.503		ug/l	0.50	5		90	10-195	3.3	97
Benzo(b)fluoranthene	4.582		ug/l	0.50	5		92	42-140	2.2	71
Benzo(a)pyrene	3.791		ug/l	0.50	5		76	32-148	1.3	72
Benzo(a)anthracene	4.046		ug/l	0.50	5		81	42-133	4.8	53
Acenaphthylene	3.487		ug/l	0.50	5		70	54-126	2.8	74
Pyridine	2.483	r	ug/l	0.50	5		50	30-130	38.1	20
Surrogate: % 2-Fluorophenol	3.242		ug/l		7.5		43	10-130		
Surrogate: % 2-Fluorobiphenyl	3.208		ug/l		5		64	30-130		
Surrogate: % 2,4,6-Tribromophenol	6.212		ug/l		7.5		83	15-130		
Surrogate: % Terphenyl-d14	3.554		ug/l		5		71	30-130		
Surrogate: % Phenol-d5	3.366		ug/l		7.5		45	10-130		
Surrogate: % Nitrobenzene-d5	2.845		ug/l		5		57	15-130		
Blank (CF55177-BLK)			-9.			enared: 07-		alyzed: 11-N	lov-19	
Dibenzofuran	ND		ug/l	3.5	<u>. 11</u>	_,,	ND			
4-Chloro-3-methylphenol	ND		ug/l	1.0			ND	_		
4-Chloroaniline	ND		ug/l	3.5			ND	_		
				3.5 1.0			ND	-		
4-Chlorophenyl phenyl ether	ND ND		ug/l					-		
4-Nitrophonel	ND		ug/l	5.0			ND	-		
4-Nitrophenol	ND		ug/l	1.0			ND	-		
Anthracene	ND		ug/l	1.5			ND	-		
Benzidine	ND		ug/l	4.5			ND	-		
Benzoic acid	ND		ug/l	10			ND	-		
Benzyl alcohol	ND		ug/l	5.0			ND	-		
Benzyl butyl phthalate Bis(2-chloroethoxy)methane	ND ND		ug/l ug/l	1.5 3.5			ND ND	-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
E625.1/E625.1SIM										
Batch 505293A - E625.1										
Blank (CF55177-BLK)					Pre	epared: 07-	Nov-19 An	alyzed: 11-N	lov-19	
Bis(2-chloroethyl)ether	ND		ug/l	1.0			ND	-		
4-Bromophenyl phenyl ether	ND		ug/l	3.5			ND	_		
Bis(2-ethylhexyl)phthalate	ND		ug/l	1.5			ND	_		
Hexachloroethane	ND		ug/l	3.5			ND	_		
Diethyl phthalate	ND		ug/l	1.5			ND	_		
Dimethylphthalate	ND		ug/l	1.5			ND	_		
Di-n-butylphthalate	ND		ug/l	1.5			ND	_		
Di-n-octylphthalate	ND		ug/l	1.5			ND	_		
Fluoranthene	ND		ug/l	1.5			ND	_		
Fluorene	ND		ug/l	1.5			ND			
	ND ND		-	3.5			ND	-		
Isophorone			ug/l					-		
N-Nitrosodi-n-propylamine	ND		ug/l	3.5			ND	-		
N-Nitrosodiphenylamine	ND		ug/l	3.5			ND	-		
Phenol	ND		ug/l	1.0			ND	-		
Pyrene	ND		ug/l	1.5			ND	-		
Bis(2-chloroisopropyl)ether	ND		ug/l	1.0			ND	-		
2,4-Dinitrophenol	ND		ug/l	1.0			ND	-		
4,6-Dinitro-2-methylphenol	ND		ug/l	1.0			ND	-		
Naphthalene	ND		ug/l	1.5			ND	-		
1,2,4-Trichlorobenzene	ND		ug/l	3.5			ND	-		
1,2-Dichlorobenzene	ND		ug/l	1.0			ND	-		
1,2-Diphenylhydrazine	ND		ug/l	1.6			ND	-		
1,3-Dichlorobenzene	ND		ug/l	1.0			ND	-		
1,4-Dichlorobenzene	ND		ug/l	1.0			ND	-		
2,4,5-Trichlorophenol	ND		ug/l	1.0			ND	-		
2,4,6-Trichlorophenol	ND		ug/l	1.0			ND	-		
2,4-Dimethylphenol	ND		ug/l	1.0			ND	-		
2,4-Dinitrotoluene	ND		ug/l	3.5			ND	-		
2-Methylphenol (o-cresol)	ND		ug/l	1.0			ND	-		
3-Nitroaniline	ND		ug/l	5.0			ND	_		
3,3'-Dichlorobenzidine	ND		ug/l	5.0			ND	_		
3&4-Methylphenol (m&p-cresol)	ND		ug/l	1.0			ND	_		
2,4-Dichlorophenol	ND		ug/l	1.0			ND	_		
2-Nitroaniline	ND		ug/l	3.5			ND			
2,6-Dichlorophenol	ND		ug/l	10			ND			
2-Methylnaphthalene	ND		ug/l	3.5			ND	-		
								-		
2-Chlorophenol	ND		ug/l	1.0			ND	-		
2-Chloronaphthalene	ND		ug/l	3.5			ND	-		
2,6-Dinitrotoluene	ND		ug/l	3.5			ND	-		
2-Nitrophenol	ND		ug/l	1.0			ND	-		
Surrogate: % 2-Fluorophenol	48		ug/l		7.5		48	10-130		
Surrogate: % 2,4,6-Tribromophenol	119		ug/l		7.5		119	15-130		
Surrogate: % Phenol-d5	56		ug/l		7.5		56	10-130		
Surrogate: % 2-Fluorobiphenyl	63		ug/l		5		63	30-130		
Surrogate: % Terphenyl-d14	77		ug/l		5		77	30-130		
Surrogate: % Nitrobenzene-d5	65		ug/l		5		65	15-130		
LCS (CF55177-LCS)			-		Pre	epared: 07-	Nov-19 An	alyzed: 11-N	lov-19	
4-Chlorophenyl phenyl ether	43.53		ug/l	1.0	50		87	38-145		61
4-Nitroaniline	49.52		ug/l	5.0	50		99	30-130		20
4-Nitrophenol	47.21		ug/l	1.0	50		94	13-129		131

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
E625.1/E625.1SIM										
Batch 505293A - E625.1										
LCS (CF55177-LCS)					Pre	epared: 07-	Nov-19 An	alyzed: 11-N	lov-19	
Anthracene	43.58		ug/l	1.5	50		87	43-120		66
Isophorone	33.49		ug/l	3.5	50		67	47-180		93
Benzidine	0	1	ug/l	4.5	50		<10	30-130		20
Benzoic acid	23.37		ug/l	10	50		47	30-130		20
Benzyl alcohol	37.16		ug/l	5.0	50		74	30-130		20
Benzyl butyl phthalate	46.63		ug/l	1.5	50		93	10-140		60
Bis(2-chloroethoxy)methane	32.12		ug/l	3.5	50		64	49-165		54
Hexachloroethane	32.79		ug/l	3.5	50		66	55-120		52
Bis(2-chloroisopropyl)ether	30.52	1	ug/l	1.0	50		61	63-139		76
4-Chloroaniline	26.56	r	ug/l	3.5	50		53	30-130		20
Bis(2-ethylhexyl)phthalate	49.97		ug/l	1.5	50		100	29-137		82
2,4-Dichlorophenol	37.17		ug/l	1.0	50		74	53-122		50
Dibenzofuran	38.42		ug/l	3.5	50		77	30-130		20
Diethyl phthalate	44.18		ug/l	1.5	50		88	10-120		100
Dimethylphthalate	41.60		ug/l	1.5	50		83	10-120		183
Di-n-butylphthalate	47.25		ug/l	1.5	50		95	8-120		47
Di-n-octylphthalate	52.48		ug/l	1.5	50		105	19-132		69
Fluoranthene	45.34		ug/l	1.5	50		91	43-121		66
Fluorene	41.57		ug/l	1.5	50		83	70-120		38
Bis(2-chloroethyl)ether	29.26		ug/l	1.0	50		59	43-126		108
2,6-Dichlorophenol	37.17		ug/l	10	50		74	30-130		20
3&4-Methylphenol (m&p-cresol)	35.21		ug/l	1.0	50		70	30-130		20
Naphthalene	32.80		ug/l	1.5	50		66	36-120		65
1,2,4-Trichlorobenzene	34.37		ug/l	3.5	50		69	57-130		50
1,2-Dichlorobenzene	30.21		ug/l	1.0	50		60	30-130		20
1,2-Diphenylhydrazine	40.24		ug/l	1.6	50		80	30-130		20
1,3-Dichlorobenzene	30.08		-	1.0	50		60	46-154		20
1,4-Dichlorobenzene	30.41		ug/l	1.0	50		61	30-130		20
2,4,5-Trichlorophenol	41.69		ug/l	1.0	50		83	30-130		20
2,4,6-Trichlorophenol			ug/l	1.0	50		82	52-129		58
•	41.02		ug/l							
2,4-Dinitrophenol	38.45		ug/l	1.0	50 50		77 92	10-173		132 42
2,4-Dinitrotoluene	46.11		ug/l	3.5	50			48-127		
4-Chloro-3-methylphenol	40.88		ug/l	1.0	50		82	41-128		73
2,6-Dinitrotoluene	45.28		ug/l	3.5	50		91	68-137		48
2-Chloronaphthalene	36.54		ug/l	3.5	50		73	65-120		24
2-Chlorophenol	31.15		ug/l	1.0	50		62	36-120		61
2-Methylnaphthalene	33.39		ug/l	3.5	50		67	30-130		20
2-Methylphenol (o-cresol)	33.50		ug/l	1.0	50		67	30-130		20
2-Nitrophenol	48.18		ug/l	1.0	50		96	45-167		55
3,3'-Dichlorobenzidine	32.11		ug/l	5.0	50		64	8-213		108
3-Nitroaniline	46.70		ug/l	5.0	50		93	30-130		20
4,6-Dinitro-2-methylphenol	52.56		ug/l	1.0	50		105	30-130		20
4-Bromophenyl phenyl ether	43.36		ug/l	3.5	50		87	65-120		43
2,4-Dimethylphenol	40.87		ug/l	1.0	50		82	42-120		58
N-Nitrosodi-n-propylamine	37.87		ug/l	3.5	50		76	14-198		87
2-Nitroaniline	68.54	I	ug/l	3.5	50		137	30-130		20
Pyrene	46.71		ug/l	1.5	50		93	70-120		49
N-Nitrosodiphenylamine	37.46		ug/l	3.5	50		75	30-130		20
Phenol	25.92		ug/l	1.0	50		52	17-120		64

nalyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limi
625.1/E625.1SIM										
atch 505293A - E625.1										
LCS (CF55177-LCS)					Pr	epared: 07-	Nov-19 An	alyzed: 11-N	lov-19	
Surrogate: % 2,4,6-Tribromophenol	83.49		ug/l		75		111	15-130		
Surrogate: % 2-Fluorophenol	34.37		ug/l		75		46	10-130		
Surrogate: % Nitrobenzene-d5	34.32		ug/l		50		69	15-130		
Surrogate: % Phenol-d5	35.76		ug/l		75		48	10-130		
Surrogate: % 2-Fluorobiphenyl	34.37		ug/l		50		69	30-130		
LCS Dup (CF55177-LCSD)			Source: CE	55177-LCS	Pro	epared: 07-	Nov-19 An	alyzed: 11-N	lov-19	
2-Nitroaniline	68.86	1	ug/l	3.5	50		138	30-130	0.7	20
4-Nitrophenol	49.32		ug/l	1.0	50		99	13-129	5.2	131
4-Nitroaniline	47.68		ug/l	5.0	50		95	30-130	4.1	20
4-Chlorophenyl phenyl ether	42.08		ug/l	1.0	50		84	38-145	3.5	61
4-Chloroaniline	45.65	r	ug/l	3.5	50		91	30-130	52.8	20
4-Chloro-3-methylphenol	41.96		ug/l	1.0	50		84	41-128	2.4	73
4-Bromophenyl phenyl ether	42.49		ug/l	3.5	50		85	65-120	2.3	43
4,6-Dinitro-2-methylphenol	52.30		ug/l	1.0	50		105	30-130	0.0	20
3&4-Methylphenol (m&p-cresol)	34.09		ug/l	1.0	50		68	30-130	2.9	20
3,3'-Dichlorobenzidine	47.26		ug/l	5.0	50		95	8-213	39.0	108
Benzyl alcohol	35.36		ug/l	5.0	50		71	30-130	4.1	20
2-Methylnaphthalene	32.12		ug/l	3.5	50		64	30-130	4.6	20
2-Chlorophenol	29.33		ug/l	1.0	50		59	36-120	5.0	61
2-Chloronaphthalene	35.57		ug/l	3.5	50		71	65-120	2.8	24
3-Nitroaniline	48.15		ug/l	5.0	50		96	30-130	3.2	20
Dimethylphthalate	40.19		ug/l	1.5	50		80	10-120	3.7	183
Pyrene	44.17		ug/l	1.5	50		88	70-120	5.5	49
Phenol	27.66		ug/l	1.0	50		55	17-120	5.6	64
N-Nitrosodiphenylamine	35.79		ug/l	3.5	50		72	30-130	4.1	20
N-Nitrosodi-n-propylamine	35.73		ug/l	3.5	50		71	14-198	6.8	87
Naphthalene	31.48		ug/l	1.5	50		63	36-120	4.7	65
Isophorone	33.33		ug/l	3.5	50		67	47-180	0.0	93
Hexachloroethane	31.03		ug/l	3.5	50		62	55-120	6.3	52
Fluorene	40.14		ug/l	1.5	50		80	70-120	3.7	38
Fluoranthene	43.23		ug/l	1.5	50		86	43-121	5.6	66
Benzidine	50.17		ug/l	4.5	50		100	30-130	NC	20
Di-n-butylphthalate	46.07		ug/l	1.5	50		92	8-120	3.2	47
Anthracene	41.70		ug/l	1.5	50		83	43-120	4.7	66
Diethyl phthalate	42.17		ug/l	1.5	50		84	10-120	4.7	100
Dibenzofuran	37.74		ug/l	3.5	50		75	30-130	2.6	20
Bis(2-ethylhexyl)phthalate	49.19		ug/l	1.5	50		98	29-137	2.0	82
Bis(2-chloroisopropyl)ether	28.17	1	ug/l	1.0	50		56	63-139	8.5	76
Bis(2-chloroethyl)ether	27.03		ug/l	1.0	50		54	43-126	8.8	108
Bis(2-chloroethoxy)methane	30.65		ug/l	3.5	50		61	49-165	4.8	54
Benzyl butyl phthalate	47.14		ug/l	1.5	50		94	10-140	1.1	60
2-Methylphenol (o-cresol)	31.56		ug/l	1.0	50		63	30-130	6.2	20
Benzoic acid	24.69		ug/l	10	50		49	30-130	4.2	20
Di-n-octylphthalate	51.48		ug/l	1.5	50		103	19-132	1.9	69
2,6-Dichlorophenol	36.55		ug/l	10	50		73	30-130	1.4	20
2,4-Dinitrotoluene	43.46		ug/l	3.5	50		87	48-127	5.6	42
2,4-Dinitrophenol	38.74		ug/l	1.0	50		77	10-173	0.0	132
2,4-Dimethylphenol	39.91		ug/l	1.0	50		80	42-120	2.5	58
2-Nitrophenol	44.66		ug/l	1.0	50		89	45-167	7.6	55
2,6-Dinitrotoluene	43.43		ug/l	3.5	50		87	68-137	4.5	48

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>E625.1/E625.1SIM</u>										
Batch 505293A - E625.1										
LCS Dup (CF55177-LCSD)			Source: Cl	E55177-LCS	Pr	epared: 07-	Nov-19 Ar	nalyzed: 11-N	Nov-19	
2,4,6-Trichlorophenol	40.74		ug/l	1.0	50		81	52-129	1.2	58
2,4,5-Trichlorophenol	41.29		ug/l	1.0	50		83	30-130	0.0	20
1,4-Dichlorobenzene	28.64		ug/l	1.0	50		57	30-130	6.8	20
2,4-Dichlorophenol	36.55		ug/l	1.0	50		73	53-122	1.4	50
1,2,4-Trichlorobenzene	32.78		ug/l	3.5	50		66	57-130	4.4	50
1,2-Dichlorobenzene	28.21		ug/l	1.0	50		56	30-130	6.9	20
1,2-Diphenylhydrazine	38.94		ug/l	1.6	50		78	30-130	2.5	20
1,3-Dichlorobenzene	28.02		ug/l	1.0	50		56	46-154	6.9	20
Surrogate: % 2-Fluorobiphenyl	32.66		ug/l		50		65	30-130		
Surrogate: % 2-Fluorophenol	31.50		ug/l		75		42	10-130		
Surrogate: % Terphenyl-d14	39.81		ug/l		50		80	30-130		
Surrogate: % 2,4,6-Tribromophenol	81.94		ug/l		75		109	15-130		
Surrogate: % Phenol-d5	35.69		ug/l		75 75		48	10-130		
Surrogate: % Nitrobenzene-d5	31.92		•		50		40 64	15-130		
-	31.92		ug/l		50		04	15-130		
SM 2540D-11										
Batch 505410A - SM 2540D-11										
Blank (CE55621-BLK)						epared & A	nalyzed: 08	<u>-Nov-19</u>		
Total Suspended Solids	< 2.5		mg/l	2.5	48		BRL	-		
LCS (CE55621-LCS)					<u>Pr</u>	epared & A	nalyzed: 08	-Nov-19		
Total Suspended Solids	41.00		mg/l	2.5	48		85	85-115		
SM2540C-11										
Batch 505457A - SM2540C-11										
Blank (CE55635-BLK)					Pr	enared & A	nalyzed: 08	-Nov-19		
Tot. Diss. Solids	< 10		mg/l	10	602	-,	BRL	_		
LCS (CE55635-LCS)			g			enared & A	nalyzed: 08	-Nov-19		
Tot. Diss. Solids	576.0		mg/l	10	602	cparca a 71	96	85-115		20
	070.0		1119/1	10	002		30	00 110		20
SM3500CRB-11										
Batch 505349A - SM3500CRB										
Blank (CE56587-BLK)					<u>Pr</u>	epared & A	nalyzed: 07	<u>-Nov-19</u>		
Chromium, Hexavalent	< 0.01		mg/l	0.01			BRL	-		
Duplicate (CE56587-DUP)			Source: SO	C56705-01	Pr	epared & A	nalyzed: 07	-Nov-19		
Chromium, Hexavalent	< 0.01		mg/l	0.01		brl		-	NC	30
LCS (CE56587-LCS)					Pr	epared & A	nalyzed: 07	-Nov-19		
Chromium, Hexavalent	0.2552		mg/l	0.01	0.25		102	90-110		30
Matrix Spike (CE56587-MS)			Source: SO	C56705-01	Pr	epared & A	nalyzed: 07	-Nov-19		
Chromium, Hexavalent	0.5604		mg/l	0.01	0.5	brl	112	85-115		30
SM4500Cl-G-00										
Batch 505348A - SM4500Cl-G										
					Dr	onarod & A	nalyzed: 07	Nov 10		
Blank (CE56587-BLK) Chlorine Residual	< 0.02		ma/l	0.02	<u> </u>	epareu & A	BRL	<u>-1107-19</u>		
	< 0.02		mg/l		_			-		
Duplicate (CE56587-DUP)			Source: SO		<u>Pr</u>		nalyzed: 07			
Chlorine Residual	< 0.02		mg/l	0.02		brl		-	NC	
LCS (CE56587-LCS)						epared & A	nalyzed: 07	-Nov-19		
Chlorine Residual	0.3199		mg/l	0.02	0.2909		110	-		
SM4500-H B-11										
Batch 505429A - SM4500-H B-11										
LCS (CE56490-LCS)					Pr	epared & A	nalyzed: 07	<u>-Nov</u> -19		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SM4500-H B-11										
Batch 505429A - SM4500-H B-11										
LCS (CE56490-LCS)					Pre	epared & Ar	nalyzed: 07	-Nov-19		
рН	8.900		%	%			96.8	85-115		20
SW846-React										
Batch 505406A - SW846-React										
Blank (CE55434-BLK)					Pre	epared & Ar	nalyzed: 08	-Nov-19		
Reactivity Cyanide	< 0.05		mg/l	0.05			BRL	-		
LCS (CE55434-LCS)					Pre	epared & Ar	nalyzed: 08	-Nov-19		
Reactivity Cyanide	0.4460		mg/l	0.05	0.45		99.1	80-120		20
Blank (CF55434-BLK)					Pre	epared & Ar	nalyzed: 08	-Nov-19		
Reactivity Sulfide	< 20		mg/l	20			BRL	-		
LCS (CF55434-LCS)					Pre	epared & Ar	nalyzed: 08	-Nov-19		
Reactivity Sulfide	36.8		mg/l	20	40		92.0	80-120		20
SW9010C/SW9012B										
Batch 505548A - SM 4500 CN										
Blank (CE55028-BLK)					Pre	epared: 08-	Nov-19 Ar	nalyzed: 12-N	ov-19	
Total Cyanide	< 0.010		mg/l	0.010			BRL	-		
LCS (CE55028-LCS)					Pre	epared: 08-	Nov-19 Ar	nalyzed: 12-N	ov-19	
Total Cyanide	0.4340		mg/l	0.010	0.429		101	90-110		30

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Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPE Limi
200.7 Rev 4.4										
Batch 504316 - 200.7										
			Caurasi CC	*EC70E 04	Dr	anarad 9 Ai	nalyzed: 14	Nov 10		
Matrix Spike Dup (1625461D) Iron	10.2		Source: SC mg/l	0.050	10.0	0.41	98	70-130	2	20
	10.2		•						2	20
Matrix Spike (1625461S)	40.5		Source: SC				nalyzed: 14			
Iron	10.5		mg/l	0.050	10.0	0.41	101	70-130		
Blank (504705-20)	. 0 050			0.050	Pre	epared & Ai	nalyzed: 14	<u>-Nov-19</u>		
Iron	< 0.050		mg/l	0.050				-		
LCS (504705-21)					·	epared & A	nalyzed: 14			
Iron	9.74		mg/l	0.050	10.0		97	85-115		
<u>200.8</u>										
Batch 504539 - 200.8										
Matrix Spike Dup (1625461D)			Source: SC	56705-01	Pre	epared: 15-	Nov-19 Ar	alyzed: 18-N	lov-19	
Silver	22.4		ug/l	0.50	20.0	BRL	112	70-130	1	20
Arsenic	23.0		ug/l	1.0	20.0	BRL	115	70-130	2	20
Beryllium	22.9		ug/l	0.70	20.0	BRL	114	70-130	1	20
Cadmium	21.5		ug/l	0.50	20.0	BRL	107	70-130	1	20
Chromium	22.6		ug/l	1.5	20.0	0.83	109	70-130	2	20
Copper	28.4		ug/l	1.0	20.0	5.9	112	70-130	1	20
Lead	22.2		ug/l	1.0	20.0	0.63	108	70-130	2	20
Nickel	21.2		ug/l	1.0	20.0	0.39	104	70-130	2	20
Selenium	23.0		ug/l	1.0	20.0	BRL	115	70-130	0	20
Zinc	142		ug/l	10	50.0	88	108	70-130	2	20
Thallium	21.3		ug/l	0.20	20.0	BRL	106	70-130	1	20
Matrix Spike Dup (1625461DRE1)			Source: SC	56705-01RE	1 Pre	epared: 15-	Nov-19 Ar	alyzed: 20-N	lov-19	
Antimony	25.2		ug/l	1.0	20.0	BRL	126	70-130	1	20
Matrix Spike (1625461S)			Source: SC	56705-01	Pre	epared: 15-	Nov-19 Ar	alyzed: 18-N	lov-19	
Thallium	21.1		ug/l	0.20	20.0	BRL	105	70-130		
Silver	22.3		ug/l	0.50	20.0	BRL	111	70-130		
Selenium	23.0		ug/l	1.0	20.0	BRL	115	70-130		
Nickel	20.7		ug/l	1.0	20.0	0.39	102	70-130		
Lead	21.7		ug/l	1.0	20.0	0.63	105	70-130		
Copper	28.0		ug/l	1.0	20.0	5.9	111	70-130		
Chromium	22.2		ug/l	1.5	20.0	0.83	107	70-130		
Cadmium	21.2		ug/l	0.50	20.0	BRL	106	70-130		
Beryllium	22.7		ug/l	0.70	20.0	BRL	113	70-130		
Arsenic	22.4		ug/l	1.0	20.0	BRL	112	70-130		
Zinc	139		ug/l	10	50.0	88	103	70-130		
Matrix Spike (1625461SRE1)				56705-01RE	1 Pre	epared: 15-	Nov-19 Ar	alyzed: 20-N	lov-19	
Antimony	24.9		ug/l	1.0	20.0	BRL	125	70-130		
Blank (505178-13)	_ ··•		- 5 -	="				nalyzed: 18-N	lov-19	
Beryllium	ND		ug/l	0.70	1.10	- <u></u>	10 AI	- -		
Thallium	ND		ug/l	0.70				-		
Silver	ND		ug/l	0.50				-		
Selenium	ND		ug/l	1.0				_		
Nickel	ND		ug/l	1.0				-		
Lead	ND		ug/l	1.0				-		
Copper	ND ND		ug/l	1.0				-		
COUDE	ND		ug/I					-		
* *	ND		ua/l	0.50						
Cadmium	ND ND		ug/l	0.50						
* *	ND ND ND		ug/l ug/l ug/l	0.50 1.0 10				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
200.8										
Batch 504539 - 200.8										
LCS (505178-14)					Pre	epared: 15-	Nov-19 Ar	alyzed: 18-N	lov-19	
Arsenic	22.2		ug/l	1.0	20.0		111	85-115		
Silver	21.8		ug/l	0.50	20.0		109	85-115		
Thallium	21.0		ug/l	0.20	20.0		105	85-115		
Zinc	52.4		ug/l	10	50.0		105	85-115		
Beryllium	22.3		ug/l	0.70	20.0		111	85-115		
Cadmium	20.9		ug/l	0.50	20.0		104	85-115		
Chromium	21.5		ug/l	1.5	20.0		108	85-115		
Copper	22.3		ug/l	1.0	20.0		111	85-115		
Lead	20.3		ug/l	1.0	20.0		102	85-115		
Nickel	20.5		ug/l	1.0	20.0		102	85-115		
Selenium	22.7		ug/l	1.0	20.0		113	85-115		
Blank (505761-13)					Pre	epared: 15-	Nov-19 Ar	alyzed: 20-N	lov-19	
Antimony	ND		ug/l	1.0				-		
LCS (505761-14)			Ü		Pre	enared: 15-	Nov-19 Ar	alyzed: 20-N	lov-19	
Antimony	24.2	*	ug/l	1.0	20.0		121	85-115		
•			-9.							
<u>245.1</u>										
Batch 505172 - 245.1					_					
Blank (505235-13)					Pre	epared & A	nalyzed: 18	-Nov-19		
Mercury	ND		mg/l	0.00020				-		
LCS (505235-14)						epared & A	nalyzed: 18			
Mercury	0.00750		mg/l	0.00020	0.00667		112	85-115		
<u>608.3</u>										
Batch 504409 - 3510C										
Blank (504603-57)					Pre	epared: 14-	Nov-19 Ar	alyzed: 15-N	lov-19	
PCB-1268	ND		ug/l	0.060				-		
PCB-1232	ND		ug/l	0.060				-		
PCB-1262	ND		ug/l	0.060				-		
PCB-1260	ND		ug/l	0.060				-		
PCB-1254	ND		ug/l	0.060				-		
PCB-1221	ND		ug/l	0.060				-		
PCB-1016	ND		ug/l	0.060				-		
PCB-1248	ND		ug/l	0.060				-		
PCB-1242	ND		ug/l	0.060				-		
Surrogate: DCB Decachlorobiphenyl	0.122		ug/l		0.200		61	36-121		
Surrogate: Tetrachloro-m-xylene (Surr)	0.190		ug/l		0.200		95	42-135		
LCS (504603-58)			J		Pre	epared: 14-	Nov-19 Ar	alyzed: 15-N	lov-19	
PCB-1260	1.08		ug/l	0.060	1.00		108	69-120		
PCB-1016	1.19		ug/l	0.060	1.00		119	69-123		
Surrogate: Tetrachloro-m-xylene (Surr)	0.194		ug/l		0.200		97	42-135		
Surrogate: Tetracnioro-m-xylene (Surr) Surrogate: DCB Decachlorobiphenyl	0.194 0.128		_		0.200		97 64	42-135 36-121		
	0.128		ug/l						In.: 40	
LCS Dup (504603-59)	4.0=	*	n	0.000		epared: 14-		alyzed: 15-N		00
PCB-1016	1.37	=	ug/l	0.060	1.00		137	69-123	14	30
PCB-1260	1.15		ug/l	0.060	1.00		115	69-120	7	30
Surrogate: Tetrachloro-m-xylene (Surr)	0.221		ug/l		0.200		111	42-135		
Surrogate: DCB Decachlorobiphenyl	0.135		ug/l		0.200		67	36-121		
SM 2340C										
Batch 507212 - NA										
								-Nov-19		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SM 2340C</u>										
Batch 507212 - NA										
Blank (507212-27)					Pre	epared & A	nalyzed: 27	-Nov-19		
Hardness as calcium carbonate	ND		mg/l	2.0				-		
LCS (507212-28)					Pre	epared & A	nalyzed: 27	-Nov-19		
Hardness as calcium carbonate	268		mg/l	4.0	272		99	90-110		
Blank (507212-3)					Pre	epared & A	nalyzed: 27	-Nov-19		
Hardness as calcium carbonate	ND		mg/l	2.0				-		
LCS (507212-4)					Pre	epared & A	nalyzed: 27	-Nov-19		
Hardness as calcium carbonate	264		mg/l	4.0	272		97	90-110		

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Notes and Definitions

LCS or LCSD is outside acceptance limits.

ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

В Compound was found in the blank and sample.

This parameter is outside laboratory lcs/lcsd specified recovery limits. 1

This parameter is outside laboratory rpd specified recovery limits.

Sample results reported on a dry weight basis dry

NR Not Reported

RPD Relative Percent Difference

[2C] Indicates concentration was reported from the secondary, confirmation column.

ClHT The method for residual chlorine indicates that samples should be analyzed immediately. 40 CFR 136 specifies a holding time of 15 minutes from sampling to analysis. Therefore all aqueous residual chlorine samples not analyzed in the field are

considered out of hold time at the time of sample receipt.

The method for pH does not stipulate a specific holding time other than to state that the samples should be analyzed as рН soon as possible. For aqueous samples the 40 CFR 136 specifies a holding time of 15 minutes from sampling to analysis. Therefore all aqueous pH samples not analyzed in the field are considered out of hold time at the time of sample receipt.

All soil samples are analyzed as soon as possible after sample receipt.

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel

Fuel Oil #4 - includes #4 fuel oil

Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil

Motor Oil - includes virgin and waste automobile oil

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha

Aviation Fuel - includes kerosene, Jet A and JP-4

Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

This laboratory report is not valid without an authorized signature on the cover page.

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

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5656705

eurofins

Spectrum Analytical

Standard TAT - 7 to 10 business days

Special Handling:

of All TATs subject to laboratory Min. 24-hr notification neede		
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	3		
" additional charges may appply		50	
QA/QC Reporting Notes:	List Preservative Code below:	5=NaOH 6=Ascorbic Acid 11=12=	F=Field Filtered 1=Na ₂ S2O ₃ 2=HCl 3=H ₂ SO ₄ 4=HNO ₃ 5=NaOH 6=Ascorbic Acid 7=CH3OH 8=NaHSO ₄ 9=Deionized Water 10=H ₂ PO ₄ 11= 12=
*		P.O.No.: Penchag Quote #:	1 1
Smarst-Brinfeld state: MA	Location: Smanst-	/ / / 5940	Telephone #: 4/3-78/-0070
IMFIELD	Site Name: CFI-BRIMFIELD		
807	Project No: 11A - 0807	Invoice To: CF/	Report To: ATC W. Springfield
All TATs subject to laboratory approval Min. 24-hr notification needed for rushes Samples disposed after 60 days unless otherwise instructed.	All TATs subject Min. 24-hr nortf: Samples disposed	Page of	- Spectrum Analytical

Relinquished by:							2	02		1567050) ECS-8	Lab ID:	G= Grab	X1=	O=Oil SO=Soil	DW=Dinking Water	1.9	F=Field Filtered 1=N 7=CH3OH 8=NaHSO ₂
ed by:	916 916 917 917 918				2000 0000 0000 0000		ower Brook Culvert	ntflow	DOM DOM DOM DOM DOM DOM DOM DOM	ECS-8	Sample ID:	ab	X2=	SL=Sludge A=Indoor/Ambient Air	GW=Groundwater SW=Surf	*	F=Field Filtered 1=Na ₂ S2O ₃ 2=HCl 3=H ₂ SO ₄ 7=CH3OH 8=NaHSO ₄ 9=Deionized Water 10=H ₃ PO ₄
Received by:	>			S. Annie				11719	Ab i BUA A 19	17.7.19 12:20	Date:	C=Compsite	X3=	nt Air SG=Soil Gas	SW=Surface Water WV		4=HNO ₃
by:	4 海 (新)		(44) (046)	Q65	i de Sal		01	1719 1:45 C SAI 6 SA			Time:	ELE		l Gas	WW=Waste Water		≔NaOH
7				cou ext		410. (11)		S	900 900	0		ype	10 15 16 A 51			K.(6=Ascorbic Acid
Dates	(90)	s/ix	C 3.5		Inte		SEME.	五五	GL	0 GW10		VOA	Vials	njo):			Acid
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0 =

☐ Refrigerated Custody Seals:

☐ DI VOA Frozen

☐ Soil Jar Frozen ☐ Broken

Present

☐ Intact

Condition upon receipt: Ambient Alced

E-mail to:

alexandra. Riddle (a) atcos com

NPDES Permit No. MAG910000 and NHG910000

1. Chemical-Specific Effluent Limitations in Massachusetts and New Hampshire
During the period beginning on the effective date and lasting through the expiration date, EPA
will authorize the discharges under Part 1.1 of this general permit to receiving waters in
Massachusetts and New Hampshire. The effective date of authorization for each discharge
covered under this general permit is the date indicated in EPA's written authorization to
discharge, lasting through the expiration date of this general permit or written termination of
coverage, whichever occurs first. Each discharge shall be limited and monitored as specified in
Table 2, below. The applicability of effluent limitations for each Activity Category listed in
Table 1 is included in footnote 2, below. Additional limitations and monitoring requirements are
specified in Parts 2.2 through 2.5 and Part 4, below.

Table 2: Chemical-Specific Effluent Limitations and Monitor-Only Requirements¹

Parameter ² /Method / RL	Effluent Limitation ^{3,4}				
	TBEL ⁵ ,	WQBEL ⁶			
A. Inorganics - and present ALL					
A. Inorganics And All Ammonia 350.1 / 0.1 ug/L or 0.0001 mg/L	Report mg/L				
Chloride ⁸ 300.0 / 1000 ug/L or 1.0 mg/L	Report μg/L				
Total Residual Chlorine SM4500-Cl-G (11) / 0.02 mg/L	0.2 mg/L	FW= 11 μg/L SW= 7.5 μg/L			
Total Suspended Solids SM2540 D / 5 mg/L		30 mg/L			
Antimony ¹⁰ 200.8 / 0.5 ug/L	206 μg/L	640 μg/L in MA 4.3 mg/L in NH			
Arsenic ¹⁰ 200.8 / 0.5 ug/L	104 μg/L	FW= 10 μg/L SW= 36 μg/L			
Cadmium ^{11,12} 200.8 / 0.5 ug/L	10.2 μg/L	FW= $0.25 \mu g/L$ SW= $8.8 \mu g/L$ in MA SW= $9.3 \mu g/L$ in NH			
Chromium III ^{11,12} Calculation / 10 ug/L	323 μg/L	FW= 74 μg/L SW= 100 μg/L			
Chromium VI ^{11,13} 7196 / 5 ug/L	323 μg/L	FW= 11 μg/L SW= 50 μg/L			
Copper ^{11,12} 200.8 / 0.5 ug/L	242 μg/L	FW= 9 μg/L SW= 3.1 μg/L			
Iron ¹⁰ 200.7' / 30 ug/L	5,000 μg/L	$FW = 1,000 \mu g/L$			
Lead ^{11,12} 200.8 / 0.5 ug/L	160 μg/L	FW= 2.5 μg/L SW= 8.1 μg/L			
Mercury ¹¹ 245.1 / 0.2 ug/L	0.739 μg/L	FW= 0.77 μ g/L SW= 0.94 μ g/L			
Nickel ^{11,12} 200.8—/- 0.5 ug/L	1,450 μg/L	FW= 52 μg/L SW= 8.2 μg/L			
Selenium 200.8 / 0.5 ug/L	235.8 μg/L	FW= $5.0 \mu g/L^{10}$ SW= $71 \mu g/L^{11}$			
Silver ^{11,12} 200.8 / 0.5ug/L	35.1 μg/L	FW= 3.2 μg/L SW= 1.9 μg/L			
Zinc ^{11,12} 200.8 / 0.5 ug/L	420 μg/L	FW= 120 μg/L SW= 81 μg/L			

Parameter ²	Effluer	Effluent Limitation ^{3,4}				
Amanicol	TBEL ⁵	WQBEL ⁶				
Cyanide ¹⁴ 335.4 / 5.0 ug/L	178 mg/L	$FW = 5.2 \mu g/L$ $SW = 1.0 \mu g/L$				
B. Non-Halogenated Volatile Organic Compounds -A	ny present	110 MB E				
Total BTEX 624 / BTEX reported as ind. cmpds.		00 μg/L				
Benzene ¹⁵ 624 / 1 ug/L	4 1	5.0 μg/L				
1,4 Dioxane ¹⁶ 624 / 20 ug/L or 8260 SIM / 0.5 ug/L		00 μg/L				
Acetone 624 / 10 ug/L		.97 mg/L				
Phenol 625 / 5 ug/L	1,080 µg/L	300 μg/L				
C. Halogenated Volatile Organic Compounds - If	present	300 μβ.Ε				
Carbon Tetrachloride 624 / 1 ug/L	4.4 μg/L	1.6 μg/L in MA				
1,2 Dichlorobenzene 624 / 1 ug/L		00 μg/L				
1,3 Dichlorobenzene 624 / 1 ug/L	``3	20 μg/L				
1,4 Dichlorobenzene 624 / 1 ug/L	5	.0 μg/L				
Total dichlorobenzene reported as individ. cmpds		ug/L in NH				
1,1 Dichloroethane 624 / 1 ug/L		70 μg/L				
1,2 Dichloroethane 624 / 1 ug/L		.0 μg/L				
1,1 Dichloroethylene 624 / 1 ug/L	2	2~/1				
Ethylene Dibromide 178260 / 0.5 ug/L *need 8011 or 50	4 1 to achieve RD	.2 μg/L 05 μg/I				
Methylene Chloride 624 / 10 ug/L *2ug/L when re						
1,1,1 Trichloroethane 624 / 1 üg/L		.6 μg/L				
1,1,2 Trichloroethane 624 / 1 ug/L		00 μg/L				
Trichloroethylene 624 / 1 ug/L		.0 μg/L				
Tetrachloroethylene 624 / 1 ug/L		.0 μg/L				
cis-1,2 Dichloroethylene 624 / 1 ug/L		3.3 µg/L in MA				
Vinyl Chloride 624 / 1 ug/L	70 µg/L					
D. Non-Halogenated Semi-Volatile Organic Compounds	1	0 μg/L				
	Thypresent					
Total Phthalates 625 / Phthalates reported indivi	c. 190 μg/L	FW = 3.0 μ g/L in NH SW = 3.4 μ g/L in NH				
Diethylhexyl phthalate ¹⁸ 625 / 5 ug/L	101 μg/L	2.2 μg/L in MA 5.9 μg/L in NH				
Total Group I Polycyclic Aromatic Hydrocarbons ¹⁹ 625 SIM	1.0 μg/L	As Individual PAHs				
Benzo(a)anthracene ¹⁹ 625 / 0.05 ug/L		0.0038 μg/L				
Benzo(a)pyrene ¹⁹ 625 / 0.05 ug/L	The state of the s	0.0038 μg/L				
Benzo(b)fluoranthene 19 625 / 0.05 ug/L	An Total Communication	0.0038 μg/L				
Benzo(k)fluoranthene ¹⁹ 625 / 0.05 ug/L	As Total Group I	0.0038 μg/L				
Chrysene ¹⁹ 625 / 0.05 ug/L	PAHs	0.0038 μg/L				
Dibenzo(a,h)anthracene ¹⁹ 625 / 0.05 ug/L]	0.0038 μg/L				
ndeno(1,2,3-cd)pyrene ¹⁹ 625 / 0.05 ug/L		0.0038 μg/L				
otal Group II Polycyclic Aromatic Hydrocarbons ²⁰	- 10	0.0038 μg/L 0 μg/L				
Naphthalene ²⁰ 625 / 0.05 ug/L) μg/L				
L. Halogenated Semi-Volatile Organic Compounds —7	Francest	MAL				
Total Polychlorinated Biphenyls ²¹ 608 / 0.2 ug/L reporte	The same	064 μg/L				
Pentachlorophenol 625 / 1.0 ug/L		004 μg/L) μg/L				

Parameter ²	Effluent Limitation ^{3,4}					
Parameter-	TBEL ⁵	WQBEL ⁶				
F. Fuels Parameters -agg present Total Petroleum Hydrocarbons ²² 1664 / 1.0 mg/L						
Total Petroleum Hydrocarbons 22 1664 / 1.0 mg/L	5.0 mg/L					
Ethanol ²³ 8015 / 1 mg/L or 524 / 200 ug/L	▼ Report mg/L					
Methyl-tert-Butyl Ether ²⁴ 624 / 1.0 ug/L	70 μg/L	20 μg/L in MA				
tert-Butyl Alcohol 524 / 10 ug/L	' 120 μg/L in MA 40 μg/L in NH					
tert-Amyl Methyl Ether ²⁴ 524 / 0.5 ug/L	90 μg/L in MA 140 μg/L in NH					

Table 2 Footnotes:

^a Activity Category I:

all parameters in contamination type A. Inorganics; any present in contamination type B. non-halogenated VOCs; if present in contamination type C. halogenated VOCs; any present in contamination type D. non-halogenated SVOCs; if present in contamination type E. halogenated SVOCs; and any present in contamination type F. fuels parameters.

^b Activity Category II:

all parameters in contamination type A. Inorganics; any present in contamination type B. non-halogenated VOCs; any present in contamination type C. halogenated VOCs; any present in contamination type D. non-halogenated SVOCs; if present in contamination type E. halogenated SVOCs; and if present in contamination type F. fuels parameters.

¹ The following abbreviations are used in Table 2, above:

^a TBEL = technology-based effluent limitation

^b WQBEL = water quality-based effluent limitation

^c mg/L = milligrams per liter

d avg = average

 $e \mu g/L = micrograms per liter$

f FW = freshwater

g SW = saltwater

² The sample type required for all parameters is grab. Grab samples must be analyzed individually and cannot be composited. See Appendix IX for additional definitions.

³ The effluent limitation and/or monitor-only requirement for any parameter listed applies to any site if the given parameter is present at that site. The effluent limitations and monitor-only requirements also apply to Activity Categories as follows:



This preceding chain of custody has been amended to include the client requested additional analyses as noted below:

Laboratory ID	Client ID	Analysis	Added
SC56705-01	ECS-8	Total Antimony by ICPMS	11/8/2019
SC56705-01	ECS-8	Total Arsenic by ICPMS	11/8/2019
SC56705-01	ECS-8	Total Beryllium by ICPMS	11/8/2019
SC56705-01	ECS-8	Total Cadmium by ICPMS	11/8/2019
SC56705-01	ECS-8	Total Chromium by ICPMS	11/8/2019
SC56705-01	ECS-8	Total Copper by ICPMS	11/8/2019
SC56705-01	ECS-8	Total Lead by ICPMS	11/8/2019
SC56705-01	ECS-8	Total Mercury by CVAA	11/8/2019
SC56705-01	ECS-8	Total Nickel by ICPMS	11/8/2019
SC56705-01	ECS-8	Total PP13 Metals by ICPMS	11/8/2019
SC56705-01	ECS-8	Total Selenium by ICPMS	11/8/2019
SC56705-01	ECS-8	Total Silver by ICPMS	11/8/2019
SC56705-01	ECS-8	Total Thallium by ICPMS	11/8/2019
SC56705-01	ECS-8	Total Zinc by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Antimony by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Arsenic by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Beryllium by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Cadmium by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Chromium by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Copper by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Lead by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Mercury by CVAA	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Nickel by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total PP13 Metals by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Selenium by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Silver by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Thallium by ICPMS	11/8/2019
SC56705-02	Outflow (Lower Brook Culvert)	Total Zinc by ICPMS	11/8/2019
SC56705-01	ECS-8	Microextractables	11/11/2019

Batch Summary

<u>'[none]'</u>
<u>Subcontracted Analyses</u>

SC56705-01 (ECS-8)

<u>504316</u>

Subcontracted Analyses

1625461D 1625461S 504705-20 504705-21

SC56705-01 (ECS-8)

504409

Subcontracted Analyses

504603-57 504603-58 504603-59

SC56705-01 (ECS-8)

<u>504539</u>

Subcontracted Analyses

1625461D 1625461DRE1 1625461S 1625461SRE1 505178-13 505178-14 505761-13

SC56705-01 (ECS-8) SC56705-01RE1 (ECS-8)

SC56705-02 (Outflow (Lower Brook Culvert))

<u>505127</u>

Subcontracted Analyses

SC56705-01 (ECS-8)

<u>505133</u>

Subcontracted Analyses

SC56705-01 (ECS-8)

505172

Subcontracted Analyses

505235-13 505235-14

SC56705-01 (ECS-8)

SC56705-02 (Outflow (Lower Brook Culvert))

505293A

Subcontracted Analyses

CE55177-BLK

CE55177-LCS

CE55177-LCSD

CF55177-BLK

CF55177-LCS

CF55177-LCSD

SC56705-01 (ECS-8)

SC56705-01RE1 (ECS-8)

505348A

Subcontracted Analyses

CE56587-BLK CE56587-DUP CE56587-LCS SC56705-01 (ECS-8)

505349A

Subcontracted Analyses

CE56587-BLK CE56587-DUP

CE56587-LCS

CE56587-MS

SC56705-01 (ECS-8)

505357A

Subcontracted Analyses

CE55464-BLK

CE55464-LCS

SC56705-01 (ECS-8)

SC56705-02 (Outflow (Lower Brook Culvert))

505406A

Subcontracted Analyses

CE55434-BLK

CE55434-LCS

CF55434-BLK

CF55434-LCS

SC56705-01 (ECS-8)

SC56705-01RE1 (ECS-8)

505410A

Subcontracted Analyses

CE55621-BLK

CE55621-LCS

SC56705-01 (ECS-8)

505429A

Subcontracted Analyses

CE56490-LCS

SC56705-01 (ECS-8)

SC56705-02 (Outflow (Lower Brook Culvert))

505457A

Subcontracted Analyses

CE55635-BLK

CE55635-LCS

SC56705-01 (ECS-8)

505536A

Subcontracted Analyses

CE56714-BLK

CE56714-LCS

SC56705-01 (ECS-8)

505548A

Subcontracted Analyses

CE55028-BLK

CE55028-LCS

SC56705-01 (ECS-8)

<u>505679</u>

Subcontracted Analyses

SC56705-01 (ECS-8)

<u>506759</u>

Subcontracted Analyses

SC56705-01 (ECS-8)

<u>507212</u>

Subcontracted Analyses

507212-27

507212-28

507212-3

507212-4

SC56705-02 (Outflow (Lower Brook Culvert))

ATTACHMENT III

Katerina Korolov

From: Vakalopoulos, Catherine (DEP) < catherine.vakalopoulos@state.ma.us>

Sent: Wednesday, November 20, 2019 4:32 PM

To: Katerina Korolov

Subject: [EXTERNAL] RE: Seeking information for an RGP permit in Mass

[External Email] This email originated from outside of the ATC mail system. Please use caution when opening attachments.

Hi Katerina.

As we discussed, since USGS StreamStats could not calculate a 7Q10 for the location of the proposed discharge south of 3 Main St. in Brimfield at the Rt. 19 culvert, a dilution factor cannot be calculated. Therefore, the dilution factor at this location is 1.

One more thing that I forgot to mention over the phone is that if this site is not currently an MCP site, you will also have to submit a transmittal form and \$500 fee to MassDEP. Instructions are located here: https://www.mass.gov/howto/wm-15-npdes-general-permit-notice-of-intent. Feel free to contact me if you have any questions.

Cathy

Cathy Vakalopoulos, Massachusetts Department of Environmental Protection 1 Winter St., Boston, MA 02108, 617-348-4026

A Please consider the environment before printing this e-mail

From: Katerina Korolov [mailto:Katerina.Korolov@atcgs.com]

Sent: Wednesday, November 20, 2019 4:18 PM

To: Vakalopoulos, Catherine (DEP)

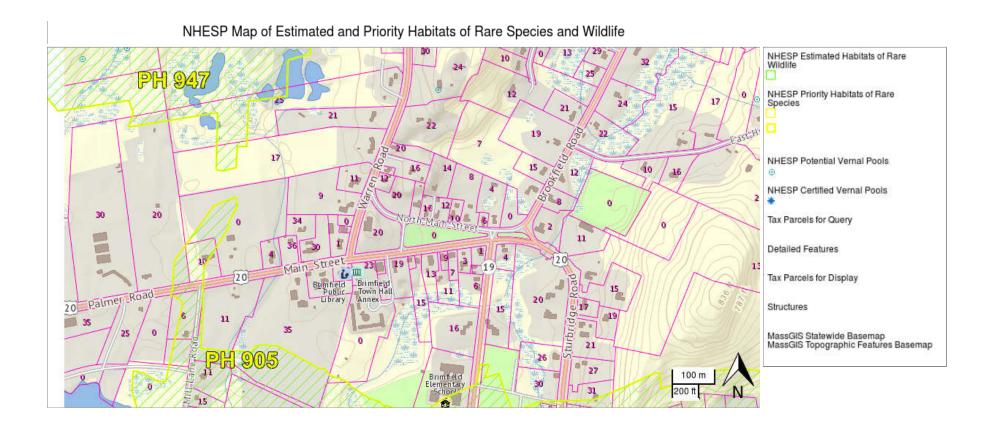
Subject: RE: Seeking information for an RGP permit in Mass

Katerina Korolov | STAFF GEOLOGIST | ATC Group Services LLC Office +1 413 781 0070 | Cell +1 607 342 0610



73 William Franks Drive | West Springfield, MA 01089 katerina.korolov@atcqs.com | www.atcqroupservices.com

ATTACHMENT IV



\$0.65 Q US POSTAGE FIRST-CLASS 062S0010267594 01089



Massachusetts Historical Commission 220 Morrissey Boulevard Boston, MA 02125



73 William Franks Drive West Springfield, MA 01089 Telephone 413-781-0070 Fax 737-207-8280 www.atcgroupservices.com

November 25, 2019 Project Number 12859.55

Massachusetts Historical Commission 220 Morrissey Boulevard Boston, MA 02125

RE: Project Notification Form

Commercial Property

Cumberland Farms Property #MA2080

3 Main Street – Route 20 Brimfield, MA 01010

To whom it may concern:

On behalf of Cumberland Farms, Inc. (CFI), ATC Group Services LLC (ATC) is submitting this Project Notification Form for the above-referenced property (the "Site"). CFI is proposing to redevelop the property in March 2019. Approval for dewatering through EPA is necessary and this PNF is required as part of the Notice of Intent process. A Site Locus is provided as Figure 1 and a Site Plan is provided as Figure 2. A copy of the NOI form is provided as Attachment I.

Background

The Site is located at 3 Main Street in Brimfield, Hampden County, Massachusetts and is comprised of 21,095 square feet of land occupied by a gasoline dispensing station and a CFI convenience store. The convenience store is a 1,710 square foot single story building with no basement and is located on the south central portion of the Site. Two pump islands are located north of the convenience store and three underground storage tanks (USTs) for gasoline are located east of the pump islands. The central portion of the Site is paved and the perimeter of the property is landscaped. The Site is currently owned by V.H.S. Realty, Inc. and is operated as a gasoline dispensing station and CFI convenience store. The Site was purchased by V.H.S. on June 4, 1976 and was reconstructed in 1977. Before 1977, the Site was operated as a Texaco gasoline dispensing and automotive repair station. One catch basin and the respective outfall is located on the property. Two additional catch basins are located along the front of the Site and are connected to the MassDOT stormwater drainage system that runs around the corner of Main Street (Route 20) and along Wales Road (Route 19) and eventually discharges at the Lower Brook. The proposed redevelopment project is scheduled to start on February 24, 2020 and last for approximately 3 months

Listings of Historic Places within the Town of Brimfield were obtained from the Massachusetts Cultural Resources Information System (MACRIS) online database at http://mhc-macris.net/towns.aspx (accessed November 20, 2019). A copy of the MACRIS report is provided as Attachment V. The database indicated that there are two historic places located in and in close proximity to the Site: The Site building at 3 Main Street, and the Post Office next door (also identified as 3 main Street) are listed as historical buildings. This project does not involve the demolition or rehabilitation of historic properties.

If there are any questions regarding this information, please do not hesitate to contact the undersigned at (413) 781-0070.

Sincerely, ATC GROUP SERVICES LLC

flexandra N. Riddle

Alexandra N. Riddle

Massachusetts Cultural Resource Information System MACRIS

MACRIS Search Results

Search Criteria: Town(s): Brimfield; Place: Brimfield; Street No: 3; Street Name: Main St; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

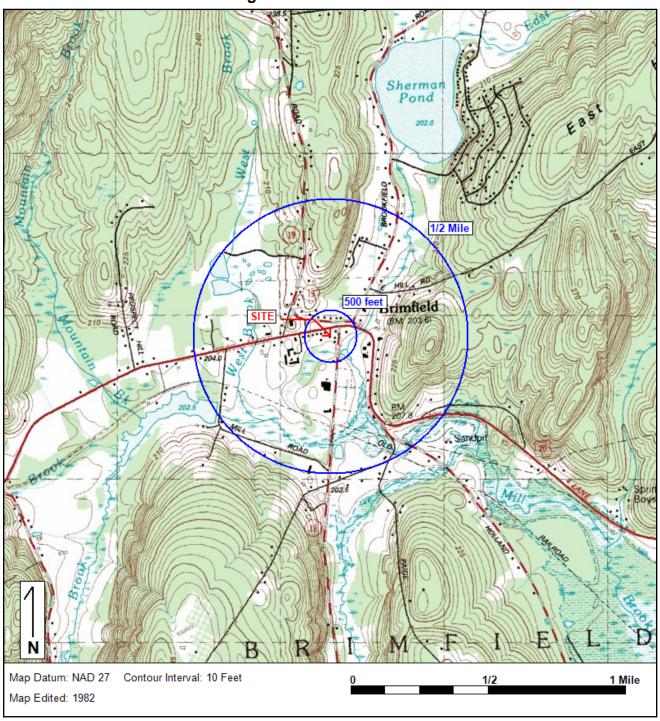
Inv. No.	Property Name	Street	Town	Year
BRI.3	Robinson, Charles Grocery and Dry Goods Store	3 Main St	Brimfield	c 1916
BRI.156	Brimfield Center Convenience Market	3 Main St	Brimfield	1977

Wednesday, November 20, 2019 Page 1 of 1



CFI Brimfield,MA 3 Main St Brimfield, MA ATC Group Services LLC
73 William Franks Drive
West Springfield, MA 01089
Phone 413-781-0070 Fax 413-781-3734
www.atcgroupservices.com

Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Southbridge, MA

Lat/Lon: 42.12 NORTH, -72.2008 WEST - UTM Coordinates: 18 4666892 EAST / 731396 NORTH Generated By: Katerina Korolov

