Certified Mail #70111570000163098728
March 31, 2015

U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code OEP06-4
Boston, MA 02109-3912

Re: Notice of Intent for Application of a Remediation General Permit
Cumberland Farms, Inc. Property #MA8035
357 and 381 Main Street
Southbridge, Massachusetts

To Whom it May Concern:

Kleinfelder, on behalf of Cumberland Farms, Inc. (CFI), has prepared the enclosed Notice of Intent (NOI) for application of a Remediation General Permit (RGP) for upcoming activities at Cumberland Farms, Inc. Property #MA8035, located at 357 and 381 Main Street, in Southbridge, Massachusetts. This NOI is for the discharge generated during groundwater dewatering activities associated with the excavation for the installation of two 20,000 gallon compartmentalized (gasoline/diesel) underground storage tanks (USTs). During these activities, the above referenced site will be excavated to approximately sixteen feet below grade for the installation of the new USTs.

In preparation for groundwater dewatering activities, representative groundwater samples were collected on June 25, 2013 and February 27, 2015. Groundwater samples collected during these sampling events indicated concentrations of total metals (specifically arsenic, chromium III, copper, lead, nickel, and zinc) above the Appendix III permissible discharge limits; however, dissolved metals concentrations from the same samples were below permissible discharge limits. Based on these analytical results, it is anticipated that the detected metals are representative of the suspended sediment and will, therefore, be successfully filtered out in the bag filters of the proposed treatment system. In addition, Kleinfelder is proposing to include granular activated carbon as part of the treatment system as a conservative measure based on a detection of methyl tert-butyl ether and historical property use as an automotive repair facility. Other historical site uses include residential and commercial restaurant operations.

Please refer to the attached application for a full description of the proposed groundwater discharge and treatment.

This location is subject to the Massachusetts Contingency Plan (MCP) and 310 CMR 40.000, under release tracking number (RTN) 2-19462, therefore no State Application Form BRPWM 12 or state fee is required.

The excavation, dewatering, and discharge are anticipated to begin in April 2015 and last for approximately three weeks.

1 Speen Street, Suite 200, Framingham, MA 01701 **p** | 508.370.8256 **f** | 508.628.1401

If you have any questions please do not hesitate to contact the undersigned at 508-370-8256.

Sincerely,
KLEINFELDER

Samantha Slater
Project Geologist

Emily M. Straley
Project Manager

CC: Matthew Young, Cumberland Farms, Inc. (file)
Heather Blakeley, Southbridge Public Works Department, 185 Guelphwood Road, Southbridge, MA 01550 (email)

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Certified Mail #70111570000163098735
March 31, 2015

Massachusetts Department of Environmental Protection
Division of Watershed Management
8 New Bond Road
Worcester, MA 01606

Re: Notice of Intent for Application of a Remediation General Permit
Cumberland Farms, Inc. Property #MA8035
357 and 381 Main Street
Southbridge, Massachusetts

To Whom it May Concern:

Kleinfelder, on behalf of Cumberland Farms, Inc. (CFI), has prepared the enclosed Notice of Intent (NOI) for application of a Remediation General Permit (RGP) for upcoming activities at Cumberland Farms, Inc. Property #MA8035, 357 and 381 Main Street, Southbridge, MA. This NOI is for the discharge generated during dewatering activities associated with the installation of two 20,000 gallon compartmentalized (gasoline/diesel) underground storage tanks (USTs). During these activities, the above referenced site will be excavated to approximately sixteen feet below grade for the installation of the new USTs.

In preparation for groundwater dewatering activities, representative groundwater samples were collected on June 25, 2013 and February 27, 2015. Groundwater samples collected during these sampling events indicated concentrations of total metals (specifically arsenic, chromium III, copper, lead, nickel, and zinc) above the Appendix III permissible discharge limits; however, dissolved metals concentrations from the same samples were below permissible discharge limits. Based on these analytical results, it is anticipated that the detected metals are representative of the suspended sediment and will, therefore, be successfully filtered out in the bag filters of the proposed treatment system. In addition, Kleinfelder is proposing to include granular activated carbon as part of the treatment system as a conservative measure based on a detection of methyl tert-butyl ether and historical property use as an automotive repair facility. Other historical site uses included residential and commercial restaurant operations.

Please refer to the attached application for a full description of the proposed groundwater discharge and treatment.

The NOI was submitted to the Environmental Protection Agency (EPA) on March 31, 2015. This location is subject to the Massachusetts Contingency Plan (MCP) and 310 CMR 40.000, under release tracking number (RTN) 2-19462, therefore no State Application Form BRPWM 12 or state fee is required.

The excavation, dewatering, and discharge are anticipated to begin in April 2015 and last for approximately three weeks.

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B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General facility/site information. Please provide the following information about the site:

a) Name of **facility/site**: CFI Southbridge MA8035		**Facility/site** mailing address:		
Location of **facility/site**: longitude: -72.035614 latitude: 42.076043	Facility SIC code(s):	Street: 357 & 381 Main Street		
b) Name of **facility/site owner:** Cumberland Farms, Inc.		Town: Southbridge		
Email address of facility/site owner: myoung@cumberlandgulf.com		State: MA	Zip: 01550	County: Worcester
Telephone no. of facility/site **owner**: 508-270-4477				
Fax no. of facility/site **owner**: 781-459-0454		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ◉ 4. Other ○ if so, describe:		
Address of **owner** (if different from site):				
Street: 100 Crossing Boulevard				
Town: Framingham	State: MA	Zip: 01702	County: Middlesex	
c) Legal name of **operator**:	**Operator** telephone no: 508-270-4477			
Cumberland Farms, Inc.	**Operator** fax no.: 781-459-0454	**Operator** email: myoung@cumberlandgulf.com		
Operator contact name and title: Matthew Young, Senior Project Manager				
Address of **operator** (if different from owner):	Street:			
Town:	State:	Zip:	County:	

d) Check Y for "yes" or N for "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Y ○ N ◉, if Y, number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge?
Y ○ N ◉, if Y, date and tracking #:
3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Y ◉ N ○
4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y ◉ N ○

e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y ○ N ◉
If Y, please list:
1. site identification # assigned by the state of NH or MA:
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

f) Is the site/facility covered by any other EPA permit, including:
1. Multi-Sector General Permit? Y ○ N ◉,
if Y, number:
2. Final Dewatering General Permit? Y ○ N ◉,
if Y, number:
3. EPA Construction General Permit? Y ◉ N ○,
if Y, number: MAR12B070
4. Individual NPDES permit? Y ○ N ◉,
if Y, number:
5. any other water quality related individual or general permit? Y ○ N ◉, if Y, number:

g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y ○ N ◉

h) Based on the facility/site information and any historical sampling data, identify the sub-category into which the potential discharge falls.

Activity Category	**Activity Sub-Category**
I - Petroleum Related Site Remediation	A. Gasoline Only Sites ☐ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☒ C. Petroleum Sites with Additional Contamination ☐
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites ☐ B. VOC Sites with Additional Contamination ☐ C. Primarily Heavy Metal Sites ☐
III - Contaminated Construction Dewatering	A. General Urban Fill Sites ☐ B. Known Contaminated Sites ☒

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites ☐ B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites ☐ C. Hydrostatic Testing of Pipelines and Tanks ☐ D. Long-Term Remediation of Contaminated Sumps and Dikes ☐ E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) ☐

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as necessary) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:

Cumberland Farms is redeveloping the site as a gasoline station and will be installing compartmentalized

b) Provide the following information about each discharge:

1) Number of discharge points:

2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)?
Max. flow 0.334 Is maximum flow a **design value**? Y ◉ N ○
Average flow (include units) 0.167 Is average flow a design value or estimate? Estimate

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat 42.076016 long -72.035189 pt.2: lat. 42.075849 long. -72.035244;
pt.3: lat long pt.4: lat. long.;
pt.5: lat long pt.6: lat. long.;
pt.7: lat long pt.8: lat. long.; etc.

4) If hydrostatic testing, total volume of the discharge (gals):

5) Is the discharge intermittent ◉ or seasonal ○?
Is discharge ongoing? Y ○ N ○

c) Expected dates of discharge (mm/dd/yy): start Apr 1, 2015 end Aug 31, 2015

d) Please attach a line drawing or flow schematic showing water flow through the facility including:
1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s). See attached Treatment System schematic

3. Contaminant information.

a) Based on the sub-category selected (see Appendix III), indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids (TSS)		☐	☒	2	Grab	SM 2540D	5,000 ug/L	1,960,000	1,604,919	1,785,000	730,811
2. Total Residual Chlorine (TRC)		☒	☐	2	Grab	SM4500-Cl-G	178 ug/L	< 200	0	< 200	0
3. Total Petroleum Hydrocarbons (TPH)		☒	☐	2	Grab	8100	64 ug/L	< 200	0	< 200	0
4. Cyanide (CN)	57125	☒	☐	2	Grab	335.4	5 ug/L	< 5	0	<5	0
5. Benzene (B)	71432	☒	☐	4	Grab	5035/8260C	2 ug/L	< 1	0	< 1	0
6. Toluene (T)	108883	☒	☐	4	Grab	5035/8260C	2 ug/L	< 1	0	< 1	0
7. Ethylbenzene (E)	100414	☒	☐	4	Grab	5035/8260C	2 ug/L	< 1	0	< 1	0
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☒	☐	4	Grab	5035/8260C	4 ug/L	< 2	0	< 2	0
9. Total BTEX [2]	n/a	☒	☐	4	Grab	5035/8260C	2 ug/L	< 2	0	< 2	0
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	4	Grab	5035/8260C	10 ug/L	< 0.5	0	< 0.5	0
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☐	☒	4	Grab	5035/8260C	10 ug/L	14.3	0.012	14.3	0.006
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	4	Grab	5035/8260C	10 ug/L	< 10	0	< 10	0

***** Numbering system is provided to allow cross-referencing to Effluent Limits and Monitoring Requirements by Sub-Category included in Appendix III, as well as the Test Methods and Minimum Levels associated with each parameter provided in Appendix VI.

[2] BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

[3] EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
13. tert-Amyl Methyl Ether (TAME)	9940508	☐	☒	1	Grab	5035/8260C	10 ug/L	4.74	0.004	4.74	0.002
14. Naphthalene	91203	☒	☐	4	Grab	5035/8260C	2 ug/L	< 1	0	< 1	0
15. Carbon Tetrachloride	56235	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
18a. Total dichlorobenzene		☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
23. Methylene Chloride	75092	☒	☐	4	Grab	5035/8260C	5 ug/L	< 2	0	< 2	0
24. Tetrachloroethene (PCE)	127184	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
27. Trichloroethene (TCE)	79016	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	4	Grab	5035/8260C	5 ug/L	< 1	0	< 1	0
29. Acetone	67641	☒	☐	4	Grab	5035/8260C	50 ug/L	< 10	0	< 10	0
30. 1,4 Dioxane	123911	☒	☐	4	Grab	5035/8260C	5 ug/L	< 20	0	< 20	0
31. Total Phenols	108952	☒	☐	2	Grab	3510C/8270D	5 ug/L	< 5.21	0	< 5.21	0
32. Pentachlorophenol (PCP)	87865	☒	☐	2	Grab	3510C/8270D	5 ug/L	< 20.8	0	< 20.8	0
33. Total Phthalates (Phthalate esters) [4]		☒	☐	2	Grab	3510C/8270D	5 ug/L	< 5.21	0	< 5.21	0
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	2	Grab	3510C/8270D	5 ug/L	< 5.21	0	< 5.21	0
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐		Grab	8270D, MAEPI	5 ug/L	< 5.88	0	< 5.88	0
a. Benzo(a) Anthracene	56553	☒	☐	4	Grab	3510C/8270D MAEP	5 ug/L	< 5.88	0	< 5.88	0
b. Benzo(a) Pyrene	50328	☒	☐	4	Grab	3510C/8270D, MAEI	5 ug/L	< 5.88	0	< 5.88	0
c. Benzo(b)Fluoranthene	205992	☒	☐	4	Grab	3510C/8270D	5 ug/L	< 5.88	0	< 5.88	0
d. Benzo(k)Fluoranthene	207089	☒	☐	4	Grab	3510C/8270D	5 ug/L	< 5.88	0	< 5.88	0
e. Chrysene	21801	☒	☐	4	Grab	3510C/8270D, MAEI	5 ug/L	< 5.88	0	< 5.88	0
f. Dibenzo(a,h)anthracene	53703	☒	☐	4	Grab	3510C/8270D	5 ug/L	< 5.88	0	< 5.88	0
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	4	Grab	3510C/8270D	5 ug/L	< 5.88	0	< 5.88	0
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	4	Grab	3510C/8270D	5 ug/L	< 5.88	0	< 5.88	0

[4] The sum of individual phthalate compounds.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
h. Acenaphthene	83329	☒	☐	4	Grab	3510C/8270D, MAEI	5 ug/L	< 5.88	0	< 5.88	0
i. Acenaphthylene	208968	☒	☐	4	Grab	3510C/8270D, MAEI	5 ug/L	< 5.88	0	< 5.88	0
j. Anthracene	120127	☒	☐	4	Grab	3510C/8270D, MAEI	5 ug/L	< 5.88	0	< 5.88	0
k. Benzo(ghi) Perylene	191242	☒	☐	4	Grab	3510C/8270D, MAEI	5 ug/L	< 5.88	0	< 5.88	0
l. Fluoranthene	206440	☒	☐	4	Grab	3510C/8270D, MAEI	5 ug/L	< 5.88	0	< 5.88	0
m. Fluorene	86737	☒	☐	4	Grab	3510C/8270D, MAEI	5 ug/L	< 5.88	0	< 5.88	0
n. Naphthalene	91203	☒	☐	4	Grab	3510C/8270D, MAEI	5 ug/L	< 5.88	0	< 5.88	0
o. Phenanthrene	85018	☒	☐	4	Grab	3510C/8270D, MAEI	5 ug/L	< 5.88	0	< 5.88	0
p. Pyrene	129000	☒	☐	4	Grab	3510C/8270D, MAEI	5 ug/L	< 5.88	0	< 5.88	0
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	2	Grab	8082A	0.5 ug/L	< 0.345	0	< 0.345	0
38. Chloride	16887006	☐	☒	2	Grab	300.0	100 ug/L	1,270,000	1,039,922	889,000	363,973
39. Antimony	7440360	☒	☐	2	Grab	6010C	10 ug/L	< 6	0	< 6	0
40. Arsenic	7440382	☐	☒	4	Grab	6010C	20 ug/L	20.7	16.95	12.7	5.20
41. Cadmium	7440439	☒	☐	4	Grab	6010C	10 ug/L	< 2.5	0	< 2.5	0
42. Chromium III (trivalent)	16065831	☐	☒	4	Grab	6010C	15 ug/L	233	190.79	131.2	53.70
43. Chromium VI (hexavalent)	18540299	☒	☐	2	Grab	7196A	10 ug/L	< 50	0	< 50	0
44. Copper	7440508	☐	☒	2	Grab	6010C	15 ug/L	117	95.80	69.3	28.37
45. Lead	7439921	☐	☒	2	Grab	6010C	20 ug/L	51.7	42.33	38.05	15.58
46. Mercury	7439976	☒	☐	4	Grab	7470A	0.2 ug/L	< 0.2	0	< 0.2	0
47. Nickel	7440020	☐	☒	2	Grab	6010C	20 ug/L	164	134.29	94.7	38.77
48. Selenium	7782492	☒	☐	4	Grab	6010C	20 ug/L	< 15	0	< 15	0
49. Silver	7440224	☒	☐	4	Grab	6010C	10 ug/L	< 7	0	< 7	0
50. Zinc	7440666	☐	☒	2	Grab	6010C	15 ug/L	213	174.41	190.5	77.99
51. Iron	7439896	☐	☒	2	Grab	6010C	20 ug/L	83,800	68,618.49	48,100	19,693.01
Barium	7440393	☐	☒	2	Grab	6010C	2.22 ug/L	204	167.04	172.5	70.62

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
Beryllium	7440417	☐	☒	2	Grab	6010C	0.318 ug/L	3.6	2.95	3.6	1.47
Chloroform	67663	☐	☒	3	Grab	8260C	2.2 ug/L	6	4.91	3.05	1.25

b) For discharges where **metals** are believed present, please fill out the following (attach results of any calculations):

Step 1: Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y ◉ N ○	If yes, which metals? arsenic, chromium III, copper, lead, nickel, zinc
Step 2: For any metals which exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metal: All Metals DF: 32.14 Metal: DF: Metal: DF: Metal: DF: Etc.	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ◉ N ○ If Y, list which metals: Copper, Lead

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

Water from the onsite excavations will be pumped into a fractionation tank for settling. Water will then pass through two bag filters, two 2,000 or 4,000 lb granular activated carbon vessels, and a flow meter prior to discharge.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ☒	Air stripper ☐	Oil/water separator ☐	Equalization tanks ☐	Bag filter ☒	GAC filter ☒
	Chlorination ☐	De-chlorination ☐	Other (please describe):			

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate**(s) (gallons per minute) of the treatment system:
Average flow rate of discharge 75 gpm Maximum flow rate of treatment system 150 gpm
Design flow rate of treatment system 150 gpm

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct to receiving water ☐	Within facility (sewer) ☐	Storm drain ☒	Wetlands ☐	Other (describe):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:
Into storm water drains on Goddard Street or Main Street; through storm drain line in Main Street; through underground viaduct; discharge to Quinebaug River

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:
1. For multiple discharges, number the discharges sequentially.
2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water
The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water Class B

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 10.4 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y ◉ N ○ If yes, for which pollutant(s)?
Debris/Floatables/Trash; Excess Algal Growth; Turbidity
Is there a final TMDL? Y ○ N ◉ If yes, for which pollutant(s)?

6. ESA and NHPA Eligibility.

Please provide the following information according to requirements of Permit Parts I.A.4 and I.A.5 Appendices II and VII.

a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit?

A ◉ B ○ C ○ D ○ E ○ F ○

b) If you selected Criterion D or F, has consultation with the federal services been completed? Y ○ N ○ Underway ○

c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received? Y ○ N ○

d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.

e) Using the instructions in Appendix VII, under which criterion listed in Part II.C are you eligible for coverage under this general permit?

1 ○ 2 ◉ 3 ○

f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including any terms and conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the RGP.

7. Supplemental information.

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

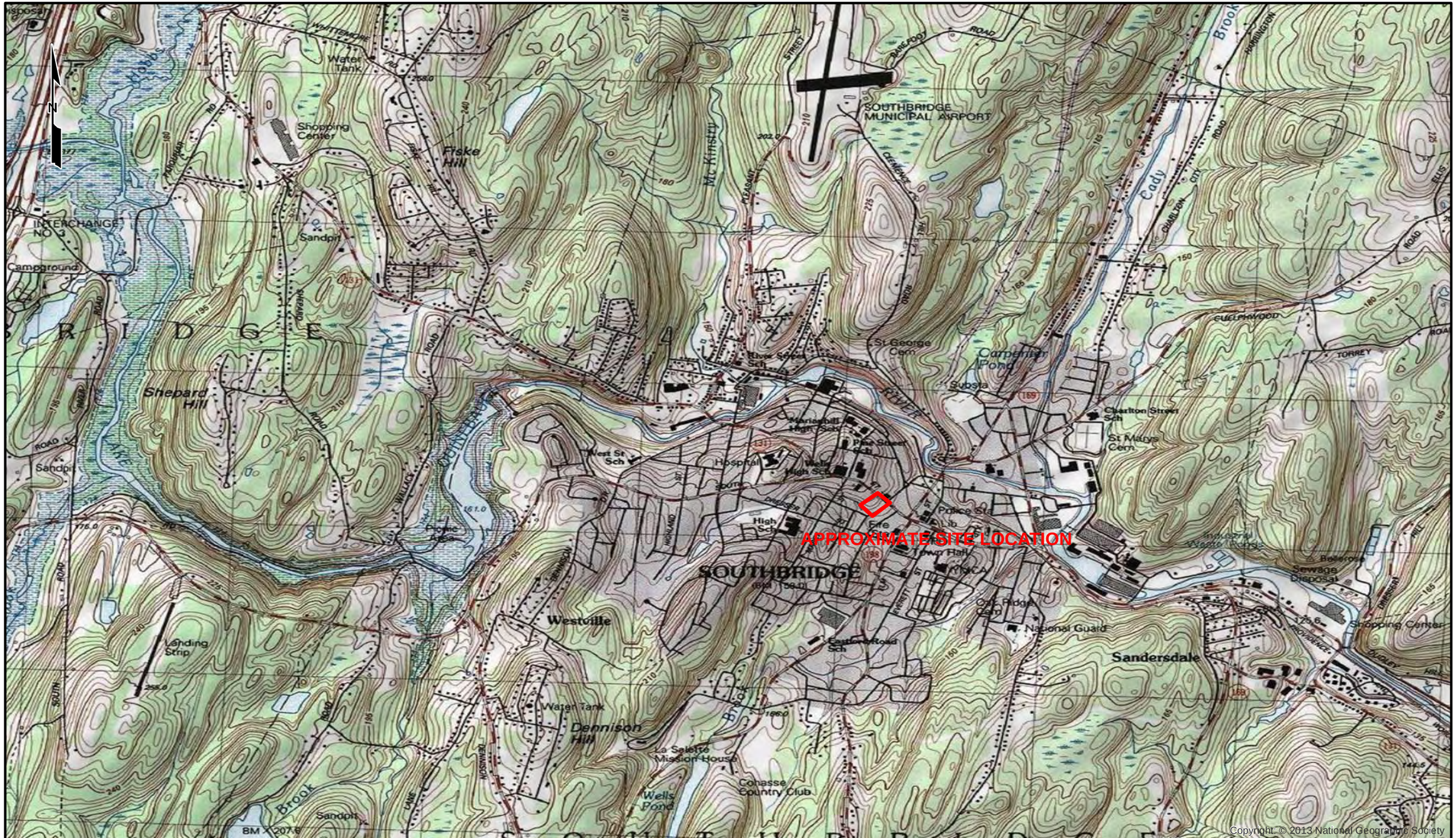
6(a) According to the U.S. Fish and wildlife Service website, one endangered species, the small whorled pogonia, was listed as present within Worcester County; however this species was not listed to be present in the town of Southbridge. A review of Natural Heritage and Endangered Species program map confirmed that the small whorled pogonia is not known to exist in Southbridge, and there are no areas of priority or estimated habitats of rare species in the areas surrounding the Cumberland Farms property and the Quinebaug River. Therefore, it was determined that Criterion A of Section 6(a) was applicable.

Lab data reports for samples collected on 6/25/13 and 2/27/15 are attached.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name:	Cumberland Farms, Inc. Southbridge Project # MA8035
Operator signature:	
Printed Name &Title:	Matthew D. Young Senior Project Manager
Date:	March 31, 2015



0 1,900 3,800 5,700 7,600

Feet

NOTES: 1. Plan originated on 11x17 paper.
2. Base plan from 1:24,000 USGS topographic plan accessed through ArcGIS base map server.

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PROJECT NO.	134167
DRAWN:	11/8/13
DRAWN BY:	ESB
CHECKED BY:	JKM
FILE NAME:	PLATE1-SITELOCATION

SITE LOCATION MAP

CUMBERLAND FARMS
357 and 381 MAIN STREET
SOUTHBRIDGE, MASSACHUSETTS

FIGURE
1

GENERAL NOTES

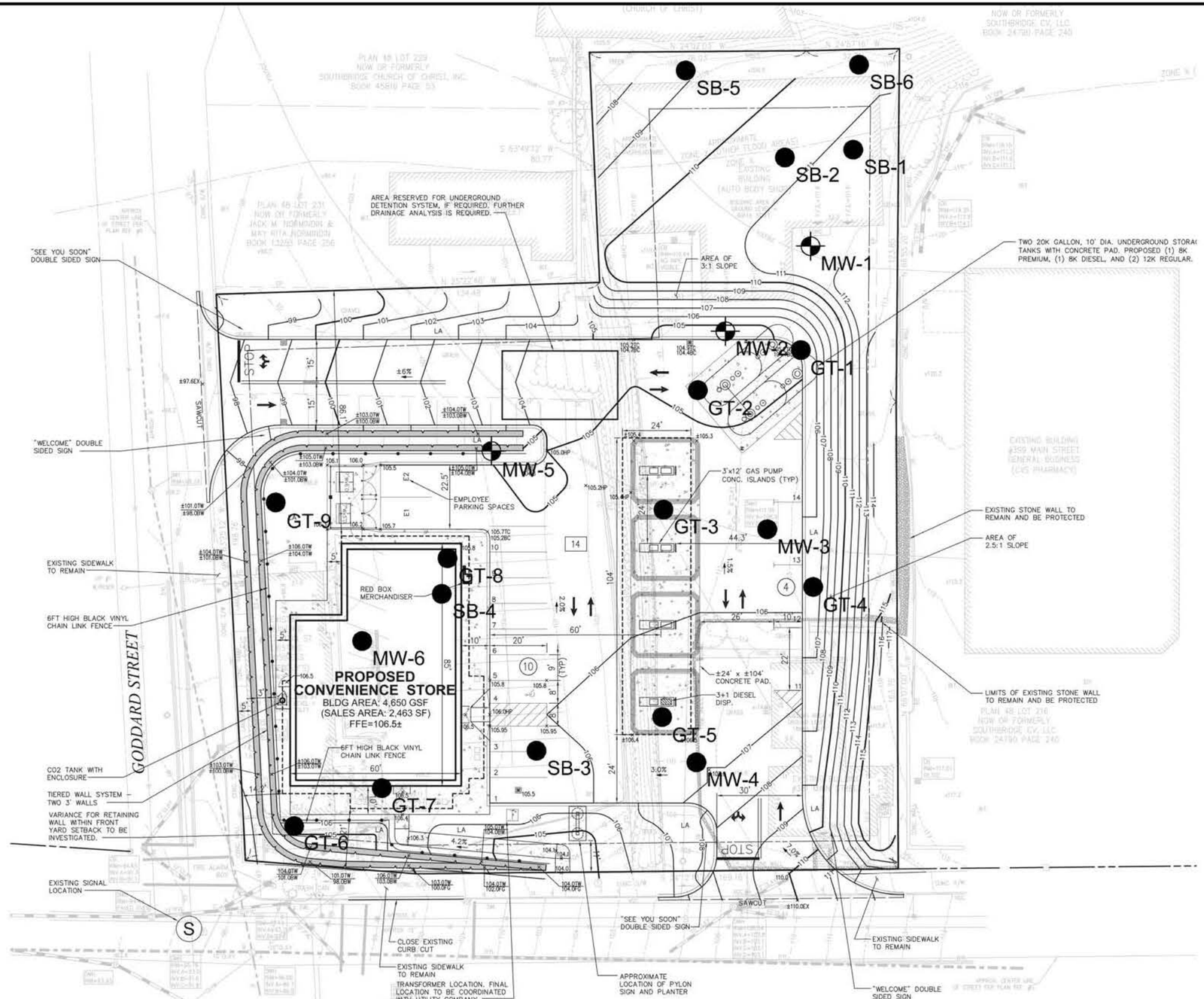
1. BASE PLAN OBTAINED FROM DRAWING TITLED, "CONCEPTUAL SITE PLAN", PREPARED BY VANASSE HANGEN BRUSTLIN, INC., DATED 8/27/2013.

LEGEND

- SB-1 - SOIL BORING
- GT-7 - MONITORING WELL

40' 20' 10' 0 40'

1 INCH = 40 FEET



PROJECT NO.	134167
DRAWN:	11/7/2013
DRAWN BY:	ESB
CHECKED BY:	JKM
FILE NAME:	134167 BLP.dwg

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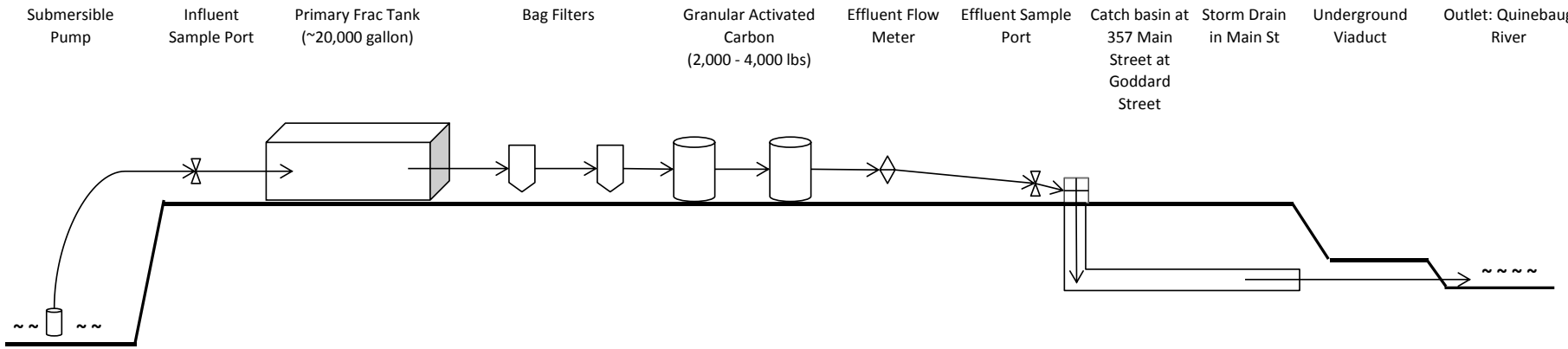
SITE PLAN

CUMBERLAND FARMS - PROPOSED GAS STATION AND CONVENIENCE STORE
357 AND 381 MAIN STREET
SOUTHBRIDGE, MA

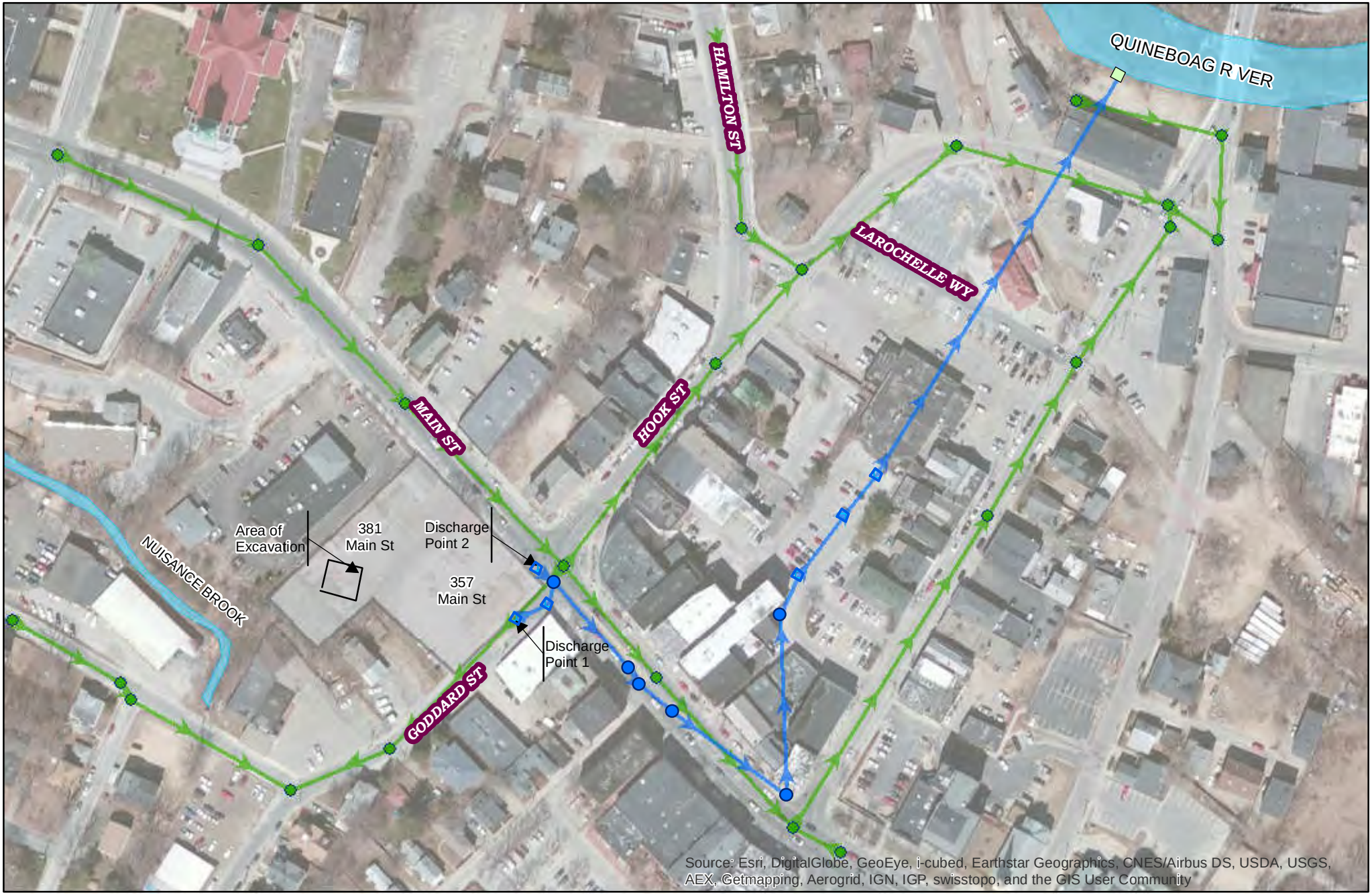
FIGURE
2

CAD FILE: \\extonlexton-data\GROUPS\Company\Projects\134167 CFI Southbridge\Drawings\ LAYOUT: FIG 2 Date: 23 Mar 2015, 1:02pm, ARomano

ATTACHED IMAGES:
ATTACHED XREFS:
EXTON



KLEINFELDER Bright People. Right Solutions.	**Treatment System Schematic** Cumberland Farms 357 and 381 Main Street Southbridge, MA	**FIGURE** **3**



Legend

- Catchbasins
- Outfalls
- Drain Manholes
- Drain Pipes
- Sanitary Sewer Manholes
- Sanitary Sewer Pipes

N W E S

0 25 50 100 150 200 Feet

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.	134167
DRAWN:	3/23/2015
DRAWN BY:	HRB
CHECKED BY:	EMS

RECEIVING WATER PLAN

CUMBERLAND FARMS
357 and 381 MAIN STREET
SOUTHBRIDGE, MASSACHUSETTS

FIGURE
4

Dilution Factor Calculation

Cumberland Farms, Inc. Property #MA8035
357 and 381 Main Street
Southbridge, MA

Equation used for calculating the dilution factor: DF = (Qd + Qs)/Qd

Where:

DF= Dilution Factor
Qd= Maximum flow rate of the discharge in cubic feet per second (cfs) (1.0 gpm = 0.00223cfs)
Qs= Receiving water 7Q10 flow (cfs) where 7Q10 is the minimum flow (cfs) for 7 consecutive days with a recurrence interval of 10 years

Qd= 0.334
Qs= 10.4 Value from the USGS Stream Stats site for Streamgage 01123600 QUINEBAUG R BL WESTVILLE DAM NR SOUTHBRIDGE, MA
DF= 32.13772455

Metal	Max. Detection (ug/L)	Appendix IV Recoverable Metal Limitation (ug/L) by DF Range - >10 -50
Arsenic	20.70	100
Chrome III	233	489
Copper	117	52
Iron	83,800	5,000
Lead	51.70	13
Nickel	164	290
Zinc	213	666

StreamStats Data-Collection Station Report

USGS Station Number	**01123600**
Station Name	**QUINEBAUG R BL WESTVILLE DAM NR SOUTHBRIDGE, MA**

Click here to link to available data on NWIS-Web for this site.

Descriptive Information

Station Type	Gaging Station, continuous record
Location	
Gage	
Regulation and Diversions	
Regulated?	True
Period of Record	1963-80
Remarks	Regulated by East Brimfield and Westville Lakes and other reservoirs.
Latitude (degrees NAD83)	42.08287306
Longitude (degrees NAD83)	-72.05702
Hydrologic unit code	01100001
County	027-Worcester
HCDN2009	No

Physical Characteristics

Characteristic Name	Value	Units	Citation Number
Descriptive Information			
State_Code	25	dimensionless	30
Datum_of_Latitude_Longitude	NAD83	dimensionless	30
District_Code	25	dimensionless	30
Begin_date_of_record	10/1/1962	days	41
End_date_of_record	9/30/2003	days	41
Number_of_days_of_record	10592	days	41
Number_of_days_GT_0	10592	days	41
Basin Dimensional Characteristics			
Drainage_Area	99	square miles	30

Streamflow Statistics

Statistic Name	Value	Units	Citation Number	Preferred?	Years of Record	Standard Error, percent	Variance log-10	Lower 95% Confidence Interval	Upper 95% Confidence Interval	Start Date	End Date	Remarks
Low-Flow Statistics												
7_Day_2_Year_Low_Flow	17.3	cubic feet per second	05	Y								
7_Day_10_Year_Low_Flow	10.4	cubic feet per second	05	Y								
Flow-Duration Statistics												
1_Percent_Duration	977.58	cubic feet per second	41	Y	30							
5_Percent_Duration	523.7	cubic feet per second	41	Y	30							
10_Percent_Duration	377.3	cubic feet per	41	Y	30							

		second										
20_Percent_Duration	264	cubic feet per second	41	Y	30							
25_Percent_Duration	230	cubic feet per second	41	Y	30							
30_Percent_Duration	199	cubic feet per second	41	Y	30							
40_Percent_Duration	152.7	cubic feet per second	41	Y	30							
50_Percent_Duration	115	cubic feet per second	41	Y	30							
60_Percent_Duration	84	cubic feet per second	41	Y	30							
70_Percent_Duration	60	cubic feet per second	41	Y	30							
75_Percent_Duration	49.5	cubic feet per second	41	Y	30							
80_Percent_Duration	42	cubic feet per second	41	Y	30							
90_Percent_Duration	27	cubic feet per second	41	Y	30							
95_Percent_Duration	20	cubic feet per second	41	Y	30							
99_Percent_Duration	13	cubic feet per second	41	Y	30							
General Flow Statistics												
Minimum_daily_flow	7.3	cubic feet per second	41	Y	30							
Maximum_daily_flow	1620	cubic feet per second	41	Y	30							
Std_Dev_of_daily_flows	187.694	cubic feet per second	41	Y	30							
Average_daily_streamflow	174.021	cubic feet per second	41	Y	30							
Base Flow Statistics												
Number_of_years_to_compute_BFI	29	years	42	Y	30							
Average_BFI_value	0.557	dimensionless	42	Y	30							
Std_dev_of_annual_BFI_values	0.068	dimensionless	42	Y	30							

Citations

Citation Number	*Citation Name and URL*
05	Eames, V.A., and Epstein, V.J., 1988, Water Resources in the French-Quinebaug Rivers Basin, Massachusetts: U.S. Geological Survey Hydrologic Investigations Atlas HA-700
30	Imported from NWIS file
41	Wolock, D.M., 2003, Flow characteristics at U.S. Geological Survey streamgages in the conterminous United States: U.S. Geological Survey Open-File Report 03-146, digital data set
42	Wolock, D.M., 2003, Base-flow index grid for the conterminous United States: U.S. Geological Survey Open-File Report 03-263, digital data set

Report Date:
03-Jul-13 16:22

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Kleinfelder, Inc.
1 Speen Street, Suite 200
Framingham, MA 01701
Attn: Moira Johnson

Project: 357-381 Main Street - Southbridge, MA
Project #: CFI ASTM Southbridge, MA

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB72315-01	MW-1	Ground Water	25-Jun-13 12:00	27-Jun-13 13:10
SB72315-02	MW-2	Ground Water	25-Jun-13 11:00	27-Jun-13 13:10
SB72315-03	MW-5	Ground Water	25-Jun-13 12:30	27-Jun-13 13:10
SB72315-04	Trip Blank	Ground Water	25-Jun-13 00:00	27-Jun-13 13:10
SB72315-05	Field Blank	Ground Water	25-Jun-13 12:00	27-Jun-13 13:10

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.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts 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 36 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 Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum 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 Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

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

The following outlines the condition of all VPH samples contained within this report upon laboratory receipt.

Matrices	Ground Water		
Containers	✓ Satisfactory		
Sample Preservative	**Aqueous** (acid preserved)	N/A ✓ pH≤2 pH>2	
	Soil or Sediment	✓ N/A Samples not received in Methanol	ml Methanol/g soil 1:1 +/-25% Other
		Samples received in Methanol: covering soil/sediment not covering soil/sediment	
		Samples received in air-tight container	
Temperature	Received on ice Received at 4 ± 2 ºC ✓ Other: 0.2ºC		

Were all QA/QC procedures followed as required by the VPH method? *Yes*
Were any significant modifications made to the VPH method as specified in section 11.3? *No*
Were all performance/acceptance standards for required QA/QC procedures achieved? *Yes*

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrices	Ground Water
Containers	✓ Satisfactory
Aqueous Preservative	N/A ✓ pH≤2 pH>2 pH adjusted to <2 in lab
Temperature	Received on ice Received at 4 ± 2 ºC ✓ Other: 0.2ºC

Were all QA/QC procedures followed as required by the EPH method? *Yes*
Were any significant modifications made to the EPH method as specified in Section 11.3? *No*
Were all performance/acceptance standards for required QA/QC procedures achieved? *Yes*

I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Authorized by:

Nicole Leja
Laboratory Director

CASE NARRATIVE:

The samples were received 0.2 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.

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

MADEP EPH 5/2004 R

Calibration:

1305062

Analyte quantified by quadratic equation type calibration.

Dibenzo (a,h) anthracene
Indeno (1,2,3-cd) pyrene

This affected the following samples:

1315399-BLK1
1315399-BS1
1315399-BS3
1315399-BSD1
MW-1
MW-2
MW-5
S305722-ICV1
S307806-CCV1
S307809-CCV1
S307809-CCV2

MADEP VPH 5/2004 Rev. 1.1

Samples:

SB72315-03 *MW-5*

The Reporting Limit has been raised to account for matrix interference.

SW846 8260C

Calibration:

1306100

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
Acrylonitrile
Naphthalene

This affected the following samples:

1315441-BLK1
1315441-BS1
1315441-BSD1
MW-1
MW-2
MW-5
S307414-ICV1
S307677-CCV1

SW846 8260C

Calibration:

S307414-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

trans-1,4-Dichloro-2-butene (124%)

This affected the following samples:

1315441-BLK1
1315441-BS1
1315441-BSD1
MW-1
MW-2
MW-5
S307677-CCV1

Laboratory Control Samples:

1315441 BS/BSD

Acetone percent recoveries (57/60) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-1
MW-2
MW-5

Acrylonitrile percent recoveries (61/65) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-1
MW-2
MW-5

Ethanol percent recoveries (69/67) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-1
MW-2
MW-5

Trichlorofluoromethane (Freon 11) percent recoveries (137/133) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-1
MW-2
MW-5

Samples:

S307677-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Acetone (-39.8%)
Dichlorodifluoromethane (Freon12) (21.2%)
Ethanol (-32.9%)
Trichlorofluoromethane (Freon 11) (33.2%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Acrylonitrile (-34.6%)

SW846 8260C

Samples:

S307677-CCV1

This affected the following samples:

1315441-BLK1
1315441-BS1
1315441-BSD1
MW-1
MW-2
MW-5

SB72315-03 *MW-5*

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client:	Kleinfelder, Inc. - Framingham, MA
Project:	357-381 Main Street - Southbridge, MA / CFI ASTM Southbridge, MA
Work Order:	SB72315
Sample(s) received on:	6/27/2013
Received by:	Jessica Hoffman

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

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☐	☑	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☑	☐	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☐	☑	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. 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?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1	CFI ASTM	Ground Water	25-Jun-13 12:00	27-Jun-13
SB72315-01	Southbridge, MA			

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.65	1	SW846 8260C	01-Jul-13	02-Jul-13	GMA	1315441	
67-64-1	Acetone	< 10.0		µg/l	10.0	2.56	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.46	1	"	"	"	"	"	
71-43-2	Benzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.48	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.60	1	"	"	"	"	"	
74-83-9	Bromomethane	< 2.00		µg/l	2.00	1.14	1	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.73	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.56	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.00		µg/l	1.00	0.82	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	0.63	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.55	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.65	1	"	"	"	"	"	
75-00-3	Chloroethane	< 2.00		µg/l	2.00	1.03	1	"	"	"	"	"	
67-66-3	Chloroform	1.24		µg/l	1.00	0.69	1	"	"	"	"	"	
74-87-3	Chloromethane	< 2.00		µg/l	2.00	1.47	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.79	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	0.93	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.29	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.33	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.62	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.45	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.68	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.68	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.60	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.64	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.25	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.50	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.45	1	"	"	"	"	"	
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.54	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1	CFI ASTM	Ground Water	25-Jun-13 12:00	27-Jun-13
SB72315-01	Southbridge, MA			

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.00		µg/l	1.00	0.62	1	SW846 8260C	01-Jul-13	02-Jul-13	GMA	1315441	
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.61	1						
1634-04-4	Methyl tert-butyl ether	13.1		µg/l	1.00	0.65	1						
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.93	1						
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.69	1						
91-20-3	Naphthalene	< 1.00		µg/l	1.00	0.33	1						
103-65-1	n-Propylbenzene	< 1.00		µg/l	1.00	0.76	1						
100-42-5	Styrene	< 1.00		µg/l	1.00	0.62	1						
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.63	1						
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.35	1						
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.74	1						
108-88-3	Toluene	< 1.00		µg/l	1.00	0.81	1						
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1						
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.36	1						
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.78	1						
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.58	1						
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.64	1						
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.76	1						
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.63	1						
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.74	1						
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.76	1						
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.74	1						
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.81	1						
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	1.64	1						
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.88	1						
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.44	1						
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.69	1						
994-05-8	Tert-amyl methyl ether	4.74		µg/l	1.00	0.72	1						
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.78	1						
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.73	1						
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	8.64	1						
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	14.0	1						
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00		µg/l	5.00	0.77	1						
64-17-5	Ethanol	< 400		µg/l	400	35.7	1						
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*								
2037-26-5	*Toluene-d8*	*96*			*70-130 %*								
17060-07-0	*1,2-Dichloroethane-d4*	*113*			*70-130 %*								
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*								
MADEP VPH													
Prepared by method VPH - EPA 5030C Water													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1	CFI ASTM	Ground Water	25-Jun-13 12:00	27-Jun-13
SB72315-01	Southbridge, MA			

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
MADEP VPH													
Prepared by method VPH - EPA 5030C Water													
	C5-C8 Aliphatic Hydrocarbons	< 75.0	D	µg/l	75.0	5.55	5	MADEP VPH 5/2004 Rev. 1.1	01-Jul-13	02-Jul-13	MP	1315452	
	C9-C12 Aliphatic Hydrocarbons	< 25.0	D	µg/l	25.0	4.22	5						
	C9-C10 Aromatic Hydrocarbons	< 25.0	D	µg/l	25.0	1.12	5						
	Unadjusted C5-C8 Aliphatic Hydrocarbons	< 75.0	D	µg/l	75.0	7.10	5						
	Unadjusted C9-C12 Aliphatic Hydrocarbons	< 25.0	D	µg/l	25.0	4.68	5						
71-43-2	Benzene	< 5.00	D	µg/l	5.00	1.26	5						
100-41-4	Ethylbenzene	< 5.00	D	µg/l	5.00	1.41	5						
1634-04-4	Methyl tert-butyl ether	**14.3**	D	µg/l	5.00	1.55	5						
91-20-3	Naphthalene	< 5.00	D	µg/l	5.00	1.17	5						
108-88-3	Toluene	< 5.00	D	µg/l	5.00	1.28	5						
179601-23-1	m,p-Xylene	< 10.0	D	µg/l	10.0	2.76	5						
95-47-6	o-Xylene	< 5.00	D	µg/l	5.00	1.12	5						
Surrogate recoveries:													
615-59-8	*2,5-Dibromotoluene (FID)*	*99*			*70-130 %*								
615-59-8	*2,5-Dibromotoluene (PID)*	*98*			*70-130 %*								
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3510C													
12674-11-2	Aroclor-1016	< 0.233		µg/l	0.233	0.0100	1	SW846 8082A	29-Jun-13	01-Jul-13	IMR	1315397	
11104-28-2	Aroclor-1221	< 0.233		µg/l	0.233	0.0166	1						
11141-16-5	Aroclor-1232	< 0.233		µg/l	0.233	0.0156	1						
53469-21-9	Aroclor-1242	< 0.233		µg/l	0.233	0.00849	1						
12672-29-6	Aroclor-1248	< 0.233		µg/l	0.233	0.0131	1						
11097-69-1	Aroclor-1254	< 0.233		µg/l	0.233	0.0115	1						
11096-82-5	Aroclor-1260	< 0.233		µg/l	0.233	0.00674	1						
37324-23-5	Aroclor-1262	< 0.233		µg/l	0.233	0.0101	1						
11100-14-4	Aroclor-1268	< 0.233		µg/l	0.233	0.0110	1						
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*								
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*								
2051-24-3	*Decachlorobiphenyl (Sr)*	*30*			*30-150 %*								
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*30*			*30-150 %*								
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3510C													
	C9-C18 Aliphatic Hydrocarbons	< 118		µg/l	118	38.0	1	MADEP EPH 5/2004 R	29-Jun-13	03-Jul-13	MWP	1315399	
	C19-C36 Aliphatic Hydrocarbons	< 118		µg/l	118	36.7	1						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1	CFI ASTM	Ground Water	25-Jun-13 12:00	27-Jun-13
SB72315-01	Southbridge, MA			

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3510C													
	C11-C22 Aromatic Hydrocarbons	< 118		µg/l	118	83.9	1	MADEP EPH 5/2004 R	29-Jun-13	03-Jul-13	MWP	1315399	
	Unadjusted C11-C22 Aromatic Hydrocarbons	< 118		µg/l	118	83.9	1						
91-20-3	Naphthalene	< 5.88		µg/l	5.88	1.99	1						
91-57-6	2-Methylnaphthalene	< 5.88		µg/l	5.88	3.96	1						
208-96-8	Acenaphthylene	< 5.88		µg/l	5.88	4.21	1						
83-32-9	Acenaphthene	< 5.88		µg/l	5.88	4.31	1						
86-73-7	Fluorene	< 5.88		µg/l	5.88	2.99	1						
85-01-8	Phenanthrene	< 5.88		µg/l	5.88	2.96	1						
120-12-7	Anthracene	< 5.88		µg/l	5.88	2.42	1						
206-44-0	Fluoranthene	< 5.88		µg/l	5.88	3.21	1						
129-00-0	Pyrene	< 5.88		µg/l	5.88	3.09	1						
56-55-3	Benzo (a) anthracene	< 5.88		µg/l	5.88	4.08	1						
218-01-9	Chrysene	< 5.88		µg/l	5.88	2.65	1						
205-99-2	Benzo (b) fluoranthene	< 5.88		µg/l	5.88	4.04	1						
207-08-9	Benzo (k) fluoranthene	< 5.88		µg/l	5.88	4.71	1						
50-32-8	Benzo (a) pyrene	< 5.88		µg/l	5.88	4.26	1						
193-39-5	Indeno (1,2,3-cd) pyrene	< 5.88		µg/l	5.88	4.28	1						
53-70-3	Dibenzo (a,h) anthracene	< 5.88		µg/l	5.88	3.92	1						
191-24-2	Benzo (g,h,i) perylene	< 5.88		µg/l	5.88	3.79	1						
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*46*			*40-140 %*								
84-15-1	*Ortho-Terphenyl*	*70*			*40-140 %*								
321-60-8	*2-Fluorobiphenyl*	*78*			*40-140 %*								
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**Field Filtered**		N/A			1	EPA 200.7/3005A/6010			LNB	1315337	
Soluble Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0050		mg/l	0.0050	0.0009	1	SW846 6010C	01-Jul-13	02-Jul-13	EDT	1315352	
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0018	1						
7440-39-3	Barium	**0.204**		mg/l	0.0050	0.0007	1						
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0008	1						
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0009	1						
7439-92-1	Lead	< 0.0075		mg/l	0.0075	0.0020	1						
7782-49-2	Selenium	< 0.0150		mg/l	0.0150	0.0030	1						
Soluble Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	EPA 245.1/7470A	01-Jul-13	01-Jul-13	JLM	1315353	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-2	CFI ASTM	Ground Water	25-Jun-13 11:00	27-Jun-13
SB72315-02	Southbridge, MA			

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.65	1	SW846 8260C	01-Jul-13	02-Jul-13	GMA	1315441	
67-64-1	Acetone	< 10.0		µg/l	10.0	2.56	1						
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.46	1						
71-43-2	Benzene	< 1.00		µg/l	1.00	0.67	1						
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.72	1						
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.71	1						
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.48	1						
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.60	1						
74-83-9	Bromomethane	< 2.00		µg/l	2.00	1.14	1						
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.73	1						
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.56	1						
135-98-8	sec-Butylbenzene	< 1.00		µg/l	1.00	0.82	1						
98-06-6	tert-Butylbenzene	< 1.00		µg/l	1.00	0.74	1						
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	0.63	1						
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.55	1						
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.65	1						
75-00-3	Chloroethane	< 2.00		µg/l	2.00	1.03	1						
67-66-3	Chloroform	< 1.00		µg/l	1.00	0.69	1						
74-87-3	Chloromethane	< 2.00		µg/l	2.00	1.47	1						
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.79	1						
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.73	1						
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	0.93	1						
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.29	1						
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.33	1						
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.67	1						
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.67	1						
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.71	1						
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.62	1						
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.45	1						
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.68	1						
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.78	1						
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.49	1						
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.72	1						
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.68	1						
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.71	1						
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.81	1						
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.60	1						
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.64	1						
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.25	1						
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.50	1						
100-41-4	Ethylbenzene	< 1.00		µg/l	1.00	0.73	1						
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.45	1						
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.54	1						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-2	CFI ASTM	Ground Water	25-Jun-13 11:00	27-Jun-13
SB72315-02	Southbridge, MA			

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.00		µg/l	1.00	0.62	1	SW846 8260C	01-Jul-13	02-Jul-13	GMA	1315441	
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.61	1						
1634-04-4	Methyl tert-butyl ether	< 1.00		µg/l	1.00	0.65	1						
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.93	1						
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.69	1						
91-20-3	Naphthalene	< 1.00		µg/l	1.00	0.33	1						
103-65-1	n-Propylbenzene	< 1.00		µg/l	1.00	0.76	1						
100-42-5	Styrene	< 1.00		µg/l	1.00	0.62	1						
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.63	1						
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.35	1						
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.74	1						
108-88-3	Toluene	< 1.00		µg/l	1.00	0.81	1						
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1						
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.36	1						
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.78	1						
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.58	1						
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.64	1						
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.76	1						
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.63	1						
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.74	1						
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.76	1						
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.74	1						
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.81	1						
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	1.64	1						
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.88	1						
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.44	1						
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.69	1						
994-05-8	Tert-amyl methyl ether	< 1.00		µg/l	1.00	0.72	1						
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.78	1						
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.73	1						
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	8.64	1						
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	14.0	1						
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00		µg/l	5.00	0.77	1						
64-17-5	Ethanol	< 400		µg/l	400	35.7	1						

Surrogate recoveries:

460-00-4	*4-Bromofluorobenzene*	*96*	*70-130 %*
2037-26-5	*Toluene-d8*	*95*	*70-130 %*
17060-07-0	*1,2-Dichloroethane-d4*	*119*	*70-130 %*
1868-53-7	*Dibromofluoromethane*	*104*	*70-130 %*

MADEP VPH

Prepared by method VPH - EPA 5030C Water

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-2	CFI ASTM	Ground Water	25-Jun-13 11:00	27-Jun-13
SB72315-02	Southbridge, MA			

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
MADEP VPH													
Prepared by method VPH - EPA 5030C Water													
	C5-C8 Aliphatic Hydrocarbons	< 75.0	D	µg/l	75.0	5.55	5	MADEP VPH 5/2004 Rev. 1.1	01-Jul-13	02-Jul-13	MP	1315452	
	C9-C12 Aliphatic Hydrocarbons	< 25.0	D	µg/l	25.0	4.22	5						
	C9-C10 Aromatic Hydrocarbons	< 25.0	D	µg/l	25.0	1.12	5						
	Unadjusted C5-C8 Aliphatic Hydrocarbons	< 75.0	D	µg/l	75.0	7.10	5						
	Unadjusted C9-C12 Aliphatic Hydrocarbons	< 25.0	D	µg/l	25.0	4.68	5						
71-43-2	Benzene	< 5.00	D	µg/l	5.00	1.26	5						
100-41-4	Ethylbenzene	< 5.00	D	µg/l	5.00	1.41	5						
1634-04-4	Methyl tert-butyl ether	< 5.00	D	µg/l	5.00	1.55	5						
91-20-3	Naphthalene	< 5.00	D	µg/l	5.00	1.17	5						
108-88-3	Toluene	< 5.00	D	µg/l	5.00	1.28	5						
179601-23-1	m,p-Xylene	< 10.0	D	µg/l	10.0	2.76	5						
95-47-6	o-Xylene	< 5.00	D	µg/l	5.00	1.12	5						
Surrogate recoveries:													
615-59-8	*2,5-Dibromotoluene (FID)*	*94*			*70-130 %*								
615-59-8	*2,5-Dibromotoluene (PID)*	*95*			*70-130 %*								
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3510C													
12674-11-2	Aroclor-1016	< 0.241		µg/l	0.241	0.0104	1	SW846 8082A	29-Jun-13	01-Jul-13	IMR	1315397	
11104-28-2	Aroclor-1221	< 0.241		µg/l	0.241	0.0172	1						
11141-16-5	Aroclor-1232	< 0.241		µg/l	0.241	0.0161	1						
53469-21-9	Aroclor-1242	< 0.241		µg/l	0.241	0.00880	1						
12672-29-6	Aroclor-1248	< 0.241		µg/l	0.241	0.0136	1						
11097-69-1	Aroclor-1254	< 0.241		µg/l	0.241	0.0119	1						
11096-82-5	Aroclor-1260	< 0.241		µg/l	0.241	0.00699	1						
37324-23-5	Aroclor-1262	< 0.241		µg/l	0.241	0.0105	1						
11100-14-4	Aroclor-1268	< 0.241		µg/l	0.241	0.0114	1						
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*								
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*								
2051-24-3	*Decachlorobiphenyl (Sr)*	*45*			*30-150 %*								
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*45*			*30-150 %*								
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3510C													
	C9-C18 Aliphatic Hydrocarbons	< 122		µg/l	122	39.4	1	MADEP EPH 5/2004 R	29-Jun-13	03-Jul-13	MWP	1315399	
	C19-C36 Aliphatic Hydrocarbons	< 122		µg/l	122	38.1	1						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-2	CFI ASTM	Ground Water	25-Jun-13 11:00	27-Jun-13
SB72315-02	Southbridge, MA			

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3510C													
	C11-C22 Aromatic Hydrocarbons	< 122		µg/l	122	86.9	1	MADEP EPH 5/2004 R	29-Jun-13	03-Jul-13	MWP	1315399	
	Unadjusted C11-C22 Aromatic Hydrocarbons	< 122		µg/l	122	86.9	1						
91-20-3	Naphthalene	< 6.10		µg/l	6.10	2.06	1						
91-57-6	2-Methylnaphthalene	< 6.10		µg/l	6.10	4.11	1						
208-96-8	Acenaphthylene	< 6.10		µg/l	6.10	4.37	1						
83-32-9	Acenaphthene	< 6.10		µg/l	6.10	4.46	1						
86-73-7	Fluorene	< 6.10		µg/l	6.10	3.10	1						
85-01-8	Phenanthrene	< 6.10		µg/l	6.10	3.07	1						
120-12-7	Anthracene	< 6.10		µg/l	6.10	2.51	1						
206-44-0	Fluoranthene	< 6.10		µg/l	6.10	3.33	1						
129-00-0	Pyrene	< 6.10		µg/l	6.10	3.21	1						
56-55-3	Benzo (a) anthracene	< 6.10		µg/l	6.10	4.23	1						
218-01-9	Chrysene	< 6.10		µg/l	6.10	2.74	1						
205-99-2	Benzo (b) fluoranthene	< 6.10		µg/l	6.10	4.18	1						
207-08-9	Benzo (k) fluoranthene	< 6.10		µg/l	6.10	4.88	1						
50-32-8	Benzo (a) pyrene	< 6.10		µg/l	6.10	4.41	1						
193-39-5	Indeno (1,2,3-cd) pyrene	< 6.10		µg/l	6.10	4.44	1						
53-70-3	Dibenzo (a,h) anthracene	< 6.10		µg/l	6.10	4.06	1						
191-24-2	Benzo (g,h,i) perylene	< 6.10		µg/l	6.10	3.93	1						
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*40*			*40-140 %*								
84-15-1	*Ortho-Terphenyl*	*78*			*40-140 %*								
321-60-8	*2-Fluorobiphenyl*	*86*			*40-140 %*								
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**Field Filtered**		N/A			1	EPA 200.7/3005A/6010			LNB	1315337	
Soluble Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0050		mg/l	0.0050	0.0009	1	SW846 6010C	01-Jul-13	02-Jul-13	EDT	1315352	
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0018	1						
7440-39-3	Barium	**0.141**		mg/l	0.0050	0.0007	1						
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0008	1						
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0009	1						
7439-92-1	Lead	< 0.0075		mg/l	0.0075	0.0020	1						
7782-49-2	Selenium	< 0.0150		mg/l	0.0150	0.0030	1						
Soluble Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	EPA 245.1/7470A	01-Jul-13	01-Jul-13	JLM	1315353	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5	CFI ASTM	Ground Water	25-Jun-13 12:30	27-Jun-13
SB72315-03	Southbridge, MA			

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			R01										
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 20.0	D	µg/l	20.0	12.9	20	SW846 8260C	01-Jul-13	02-Jul-13	GMA	1315441	
67-64-1	Acetone	< 200	D	µg/l	200	51.1	20						
107-13-1	Acrylonitrile	< 10.0	D	µg/l	10.0	9.22	20						
71-43-2	Benzene	< 20.0	D	µg/l	20.0	13.4	20						
108-86-1	Bromobenzene	< 20.0	D	µg/l	20.0	14.4	20						
74-97-5	Bromochloromethane	< 20.0	D	µg/l	20.0	14.2	20						
75-27-4	Bromodichloromethane	< 10.0	D	µg/l	10.0	9.58	20						
75-25-2	Bromoform	< 20.0	D	µg/l	20.0	12.1	20						
74-83-9	Bromomethane	< 40.0	D	µg/l	40.0	22.8	20						
78-93-3	2-Butanone (MEK)	< 200	D	µg/l	200	34.7	20						
104-51-8	n-Butylbenzene	< 20.0	D	µg/l	20.0	11.2	20						
135-98-8	sec-Butylbenzene	< 20.0	D	µg/l	20.0	16.4	20						
98-06-6	tert-Butylbenzene	< 20.0	D	µg/l	20.0	14.9	20						
75-15-0	Carbon disulfide	< 40.0	D	µg/l	40.0	12.5	20						
56-23-5	Carbon tetrachloride	< 20.0	D	µg/l	20.0	11.0	20						
108-90-7	Chlorobenzene	< 20.0	D	µg/l	20.0	13.1	20						
75-00-3	Chloroethane	< 40.0	D	µg/l	40.0	20.7	20						
67-66-3	Chloroform	< 20.0	D	µg/l	20.0	13.8	20						
74-87-3	Chloromethane	< 40.0	D	µg/l	40.0	29.5	20						
95-49-8	2-Chlorotoluene	< 20.0	D	µg/l	20.0	15.8	20						
106-43-4	4-Chlorotoluene	< 20.0	D	µg/l	20.0	14.6	20						
96-12-8	1,2-Dibromo-3-chloropropane	< 40.0	D	µg/l	40.0	18.5	20						
124-48-1	Dibromochloromethane	< 10.0	D	µg/l	10.0	5.78	20						
106-93-4	1,2-Dibromoethane (EDB)	< 10.0	D	µg/l	10.0	6.54	20						
74-95-3	Dibromomethane	< 20.0	D	µg/l	20.0	13.3	20						
95-50-1	1,2-Dichlorobenzene	< 20.0	D	µg/l	20.0	13.4	20						
541-73-1	1,3-Dichlorobenzene	< 20.0	D	µg/l	20.0	14.2	20						
106-46-7	1,4-Dichlorobenzene	< 20.0	D	µg/l	20.0	12.5	20						
75-71-8	Dichlorodifluoromethane (Freon12)	< 40.0	D	µg/l	40.0	8.94	20						
75-34-3	1,1-Dichloroethane	< 20.0	D	µg/l	20.0	13.6	20						
107-06-2	1,2-Dichloroethane	< 20.0	D	µg/l	20.0	15.6	20						
75-35-4	1,1-Dichloroethene	< 20.0	D	µg/l	20.0	9.76	20						
156-59-2	cis-1,2-Dichloroethene	< 20.0	D	µg/l	20.0	14.3	20						
156-60-5	trans-1,2-Dichloroethene	< 20.0	D	µg/l	20.0	13.6	20						
78-87-5	1,2-Dichloropropane	< 20.0	D	µg/l	20.0	14.2	20						
142-28-9	1,3-Dichloropropane	< 20.0	D	µg/l	20.0	16.1	20						
594-20-7	2,2-Dichloropropane	< 20.0	D	µg/l	20.0	12.1	20						
563-58-6	1,1-Dichloropropene	< 20.0	D	µg/l	20.0	12.7	20						
10061-01-5	cis-1,3-Dichloropropene	< 10.0	D	µg/l	10.0	5.04	20						
10061-02-6	trans-1,3-Dichloropropene	< 10.0	D	µg/l	10.0	9.98	20						
100-41-4	Ethylbenzene	< 20.0	D	µg/l	20.0	14.6	20						
87-68-3	Hexachlorobutadiene	< 10.0	D	µg/l	10.0	9.00	20						
591-78-6	2-Hexanone (MBK)	< 200	D	µg/l	200	10.9	20						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5	CFI ASTM	Ground Water	25-Jun-13 12:30	27-Jun-13
SB72315-03	Southbridge, MA			

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			R01										
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 20.0	D	µg/l	20.0	12.4	20	SW846 8260C	01-Jul-13	02-Jul-13	GMA	1315441	
99-87-6	4-Isopropyltoluene	< 20.0	D	µg/l	20.0	12.2	20						
1634-04-4	Methyl tert-butyl ether	< 20.0	D	µg/l	20.0	13.0	20						
108-10-1	4-Methyl-2-pentanone (MIBK)	< 200	D	µg/l	200	18.6	20						
75-09-2	Methylene chloride	< 40.0	D	µg/l	40.0	13.8	20						
91-20-3	Naphthalene	< 20.0	D	µg/l	20.0	6.62	20						
103-65-1	n-Propylbenzene	< 20.0	D	µg/l	20.0	15.2	20						
100-42-5	Styrene	< 20.0	D	µg/l	20.0	12.3	20						
630-20-6	1,1,1,2-Tetrachloroethane	< 20.0	D	µg/l	20.0	12.5	20						
79-34-5	1,1,2,2-Tetrachloroethane	< 10.0	D	µg/l	10.0	6.98	20						
127-18-4	Tetrachloroethene	< 20.0	D	µg/l	20.0	14.9	20						
108-88-3	Toluene	< 20.0	D	µg/l	20.0	16.2	20						
87-61-6	1,2,3-Trichlorobenzene	< 20.0	D	µg/l	20.0	7.52	20						
120-82-1	1,2,4-Trichlorobenzene	< 20.0	D	µg/l	20.0	7.20	20						
108-70-3	1,3,5-Trichlorobenzene	< 20.0	D	µg/l	20.0	15.7	20						
71-55-6	1,1,1-Trichloroethane	< 20.0	D	µg/l	20.0	11.6	20						
79-00-5	1,1,2-Trichloroethane	< 20.0	D	µg/l	20.0	12.8	20						
79-01-6	Trichloroethene	< 20.0	D	µg/l	20.0	15.1	20						
75-69-4	Trichlorofluoromethane (Freon 11)	< 20.0	D	µg/l	20.0	12.6	20						
96-18-4	1,2,3-Trichloropropane	< 20.0	D	µg/l	20.0	14.7	20						
95-63-6	1,2,4-Trimethylbenzene	< 20.0	D	µg/l	20.0	15.1	20						
108-67-8	1,3,5-Trimethylbenzene	< 20.0	D	µg/l	20.0	14.9	20						
75-01-4	Vinyl chloride	< 20.0	D	µg/l	20.0	16.1	20						
179601-23-1	m,p-Xylene	< 40.0	D	µg/l	40.0	32.8	20						
95-47-6	o-Xylene	< 20.0	D	µg/l	20.0	17.6	20						
109-99-9	Tetrahydrofuran	< 40.0	D	µg/l	40.0	28.8	20						
60-29-7	Ethyl ether	< 20.0	D	µg/l	20.0	13.9	20						
994-05-8	Tert-amyl methyl ether	< 20.0	D	µg/l	20.0	14.4	20						
637-92-3	Ethyl tert-butyl ether	< 20.0	D	µg/l	20.0	15.6	20						
108-20-3	Di-isopropyl ether	< 20.0	D	µg/l	20.0	14.5	20						
75-65-0	Tert-Butanol / butyl alcohol	< 200	D	µg/l	200	173	20						
123-91-1	1,4-Dioxane	< 400	D	µg/l	400	280	20						
110-57-6	trans-1,4-Dichloro-2-buten e	< 100	D	µg/l	100	15.3	20						
64-17-5	Ethanol	< 8000	D	µg/l	8000	714	20						
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*								
2037-26-5	*Toluene-d8*	*98*			*70-130 %*								
17060-07-0	*1,2-Dichloroethane-d4*	*111*			*70-130 %*								
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*								
MADEP VPH			R01										
Prepared by method VPH - EPA 5030C Water													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5	CFI ASTM	Ground Water	25-Jun-13 12:30	27-Jun-13
SB72315-03	Southbridge, MA			

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
MADEP VPH			R01										
Prepared by method VPH - EPA 5030C Water													
	C5-C8 Aliphatic Hydrocarbons	< 300	D	µg/l	300	22.2	20	MADEP VPH 5/2004 Rev. 1.1	01-Jul-13	02-Jul-13	MP	1315452	
	C9-C12 Aliphatic Hydrocarbons	< 100	D	µg/l	100	16.9	20						
	C9-C10 Aromatic Hydrocarbons	< 100	D	µg/l	100	4.48	20						
	Unadjusted C5-C8 Aliphatic Hydrocarbons	< 300	D	µg/l	300	28.4	20						
	Unadjusted C9-C12 Aliphatic Hydrocarbons	< 100	D	µg/l	100	18.7	20						
71-43-2	Benzene	< 20.0	D	µg/l	20.0	5.02	20						
100-41-4	Ethylbenzene	< 20.0	D	µg/l	20.0	5.64	20						
1634-04-4	Methyl tert-butyl ether	< 20.0	D	µg/l	20.0	6.20	20						
91-20-3	Naphthalene	< 20.0	D	µg/l	20.0	4.68	20						
108-88-3	Toluene	< 20.0	D	µg/l	20.0	5.12	20						
179601-23-1	m,p-Xylene	< 40.0	D	µg/l	40.0	11.1	20						
95-47-6	o-Xylene	< 20.0	D	µg/l	20.0	4.48	20						
Surrogate recoveries:													
615-59-8	*2,5-Dibromotoluene (FID)*	*88*			*70-130 %*								
615-59-8	*2,5-Dibromotoluene (PID)*	*88*			*70-130 %*								
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3510C													
12674-11-2	Aroclor-1016	< 0.690		µg/l	0.690	0.0297	1	SW846 8082A	29-Jun-13	01-Jul-13	IMR	1315397	
11104-28-2	Aroclor-1221	< 0.690		µg/l	0.690	0.0493	1						
11141-16-5	Aroclor-1232	< 0.690		µg/l	0.690	0.0462	1						
53469-21-9	Aroclor-1242	< 0.690		µg/l	0.690	0.0252	1						
12672-29-6	Aroclor-1248	< 0.690		µg/l	0.690	0.0390	1						
11097-69-1	Aroclor-1254	< 0.690		µg/l	0.690	0.0341	1						
11096-82-5	Aroclor-1260	< 0.690		µg/l	0.690	0.0200	1						
37324-23-5	Aroclor-1262	< 0.690		µg/l	0.690	0.0300	1						
11100-14-4	Aroclor-1268	< 0.690		µg/l	0.690	0.0328	1						
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*								
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*90*			*30-150 %*								
2051-24-3	*Decachlorobiphenyl (Sr)*	*50*			*30-150 %*								
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*55*			*30-150 %*								
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3510C													
	C9-C18 Aliphatic Hydrocarbons	< 169		µg/l	169	54.8	1	MADEP EPH 5/2004 R	29-Jun-13	03-Jul-13	MWP	1315399	
	C19-C36 Aliphatic Hydrocarbons	< 169		µg/l	169	52.9	1						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5	CFI ASTM	Ground Water	25-Jun-13 12:30	27-Jun-13
SB72315-03	Southbridge, MA			

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3510C													
	C11-C22 Aromatic Hydrocarbons	< 169		µg/l	169	121	1	MADEP EPH 5/2004 R	29-Jun-13	03-Jul-13	MWP	1315399	
	Unadjusted C11-C22 Aromatic Hydrocarbons	< 169		µg/l	169	121	1						
91-20-3	Naphthalene	< 8.47		µg/l	8.47	2.86	1						
91-57-6	2-Methylnaphthalene	< 8.47		µg/l	8.47	5.71	1						
208-96-8	Acenaphthylene	< 8.47		µg/l	8.47	6.07	1						
83-32-9	Acenaphthene	< 8.47		µg/l	8.47	6.20	1						
86-73-7	Fluorene	< 8.47		µg/l	8.47	4.31	1						
85-01-8	Phenanthrene	< 8.47		µg/l	8.47	4.27	1						
120-12-7	Anthracene	< 8.47		µg/l	8.47	3.49	1						
206-44-0	Fluoranthene	< 8.47		µg/l	8.47	4.63	1						
129-00-0	Pyrene	< 8.47		µg/l	8.47	4.46	1						
56-55-3	Benzo (a) anthracene	< 8.47		µg/l	8.47	5.88	1						
218-01-9	Chrysene	< 8.47		µg/l	8.47	3.81	1						
205-99-2	Benzo (b) fluoranthene	< 8.47		µg/l	8.47	5.81	1						
207-08-9	Benzo (k) fluoranthene	< 8.47		µg/l	8.47	6.78	1						
50-32-8	Benzo (a) pyrene	< 8.47		µg/l	8.47	6.14	1						
193-39-5	Indeno (1,2,3-cd) pyrene	< 8.47		µg/l	8.47	6.17	1						
53-70-3	Dibenzo (a,h) anthracene	< 8.47		µg/l	8.47	5.64	1						
191-24-2	Benzo (g,h,i) perylene	< 8.47		µg/l	8.47	5.46	1						
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*41*			*40-140 %*								
84-15-1	*Ortho-Terphenyl*	*80*			*40-140 %*								
321-60-8	*2-Fluorobiphenyl*	*84*			*40-140 %*								
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**Field Filtered**		N/A			1	EPA 200.7/3005A/6010			LNB	1315337	
Soluble Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0050		mg/l	0.0050	0.0009	1	SW846 6010C	01-Jul-13	02-Jul-13	EDT	1315352	
7440-38-2	Arsenic	**0.0070**		mg/l	0.0040	0.0018	1						
7440-39-3	Barium	**0.736**		mg/l	0.0050	0.0007	1						
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0008	1						
7440-47-3	Chromium	**0.0462**		mg/l	0.0050	0.0009	1						
7439-92-1	Lead	**0.0775**		mg/l	0.0075	0.0020	1						
7782-49-2	Selenium	< 0.0150		mg/l	0.0150	0.0030	1						
Soluble Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	EPA 245.1/7470A	01-Jul-13	01-Jul-13	JLM	1315353	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	CFI ASTM	Ground Water	25-Jun-13 00:00	27-Jun-13
SB72315-04	Southbridge, MA			

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
MADEP VPH													
Prepared by method VPH - EPA 5030C Water													
	C5-C8 Aliphatic Hydrocarbons	< 75.0		µg/l	75.0	5.55	1	MADEP VPH 5/2004 Rev. 1.1	01-Jul-13	02-Jul-13	MP	1315452	
	C9-C12 Aliphatic Hydrocarbons	< 25.0		µg/l	25.0	4.22	1						
	C9-C10 Aromatic Hydrocarbons	< 25.0		µg/l	25.0	1.12	1						
	Unadjusted C5-C8 Aliphatic Hydrocarbons	< 75.0		µg/l	75.0	7.10	1						
	Unadjusted C9-C12 Aliphatic Hydrocarbons	< 25.0		µg/l	25.0	4.68	1						
71-43-2	Benzene	< 5.00		µg/l	5.00	1.26	1						
100-41-4	Ethylbenzene	< 5.00		µg/l	5.00	1.41	1						
1634-04-4	Methyl tert-butyl ether	< 5.00		µg/l	5.00	1.55	1						
91-20-3	Naphthalene	< 5.00		µg/l	5.00	1.17	1						
108-88-3	Toluene	< 5.00		µg/l	5.00	1.28	1						
179601-23-1	m,p-Xylene	< 10.0		µg/l	10.0	2.76	1						
95-47-6	o-Xylene	< 5.00		µg/l	5.00	1.12	1						

Surrogate recoveries:

615-59-8	*2,5-Dibromotoluene (FID)*	*89*	*70-130 %*
615-59-8	*2,5-Dibromotoluene (PID)*	*87*	*70-130 %*

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Field Blank	CFI ASTM	Ground Water	25-Jun-13 12:00	27-Jun-13
SB72315-05	Southbridge, MA			

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
MADEP VPH													
Prepared by method VPH - EPA 5030C Water													
	C5-C8 Aliphatic Hydrocarbons	< 75.0		µg/l	75.0	5.55	1	MADEP VPH 5/2004 Rev. 1.1	01-Jul-13	02-Jul-13	MP	1315452	
	C9-C12 Aliphatic Hydrocarbons	< 25.0		µg/l	25.0	4.22	1						
	C9-C10 Aromatic Hydrocarbons	< 25.0		µg/l	25.0	1.12	1						
	Unadjusted C5-C8 Aliphatic Hydrocarbons	< 75.0		µg/l	75.0	7.10	1						
	Unadjusted C9-C12 Aliphatic Hydrocarbons	< 25.0		µg/l	25.0	4.68	1						
71-43-2	Benzene	< 5.00		µg/l	5.00	1.26	1						
100-41-4	Ethylbenzene	< 5.00		µg/l	5.00	1.41	1						
1634-04-4	Methyl tert-butyl ether	< 5.00		µg/l	5.00	1.55	1						
91-20-3	Naphthalene	< 5.00		µg/l	5.00	1.17	1						
108-88-3	Toluene	< 5.00		µg/l	5.00	1.28	1						
179601-23-1	m,p-Xylene	< 10.0		µg/l	10.0	2.76	1						
95-47-6	o-Xylene	< 5.00		µg/l	5.00	1.12	1						
Surrogate recoveries:													
615-59-8	*2,5-Dibromotoluene (FID)*	*92*			*70-130 %*								
615-59-8	*2,5-Dibromotoluene (PID)*	*93*			*70-130 %*								

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315441 - SW846 5030 Water MS										
Blank (1315441-BLK1)					Prepared & Analyzed: 01-Jul-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.50		µg/l	0.50						
Benzene	< 1.00		µg/l	1.00						
Bromobenzene	< 1.00		µg/l	1.00						
Bromochloromethane	< 1.00		µg/l	1.00						
Bromodichloromethane	< 0.50		µg/l	0.50						
Bromoform	< 1.00		µg/l	1.00						
Bromomethane	< 2.00		µg/l	2.00						
2-Butanone (MEK)	< 10.0		µg/l	10.0						
n-Butylbenzene	< 1.00		µg/l	1.00						
sec-Butylbenzene	< 1.00		µg/l	1.00						
tert-Butylbenzene	< 1.00		µg/l	1.00						
Carbon disulfide	< 2.00		µg/l	2.00						
Carbon tetrachloride	< 1.00		µg/l	1.00						
Chlorobenzene	< 1.00		µg/l	1.00						
Chloroethane	< 2.00		µg/l	2.00						
Chloroform	< 1.00		µg/l	1.00						
Chloromethane	< 2.00		µg/l	2.00						
2-Chlorotoluene	< 1.00		µg/l	1.00						
4-Chlorotoluene	< 1.00		µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00						
Dibromochloromethane	< 0.50		µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50						
Dibromomethane	< 1.00		µg/l	1.00						
1,2-Dichlorobenzene	< 1.00		µg/l	1.00						
1,3-Dichlorobenzene	< 1.00		µg/l	1.00						
1,4-Dichlorobenzene	< 1.00		µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00						
1,1-Dichloroethane	< 1.00		µg/l	1.00						
1,2-Dichloroethane	< 1.00		µg/l	1.00						
1,1-Dichloroethene	< 1.00		µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00		µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00		µg/l	1.00						
1,2-Dichloropropane	< 1.00		µg/l	1.00						
1,3-Dichloropropane	< 1.00		µg/l	1.00						
2,2-Dichloropropane	< 1.00		µg/l	1.00						
1,1-Dichloropropene	< 1.00		µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50		µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50		µg/l	0.50						
Ethylbenzene	< 1.00		µg/l	1.00						
Hexachlorobutadiene	< 0.50		µg/l	0.50						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.00		µg/l	1.00						
4-Isopropyltoluene	< 1.00		µg/l	1.00						
Methyl tert-butyl ether	< 1.00		µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.00		µg/l	2.00						
Naphthalene	< 1.00		µg/l	1.00						
n-Propylbenzene	< 1.00		µg/l	1.00						
Styrene	< 1.00		µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315441 - SW846 5030 Water MS										
Blank (1315441-BLK1)					Prepared & Analyzed: 01-Jul-13					
1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50						
Tetrachloroethene	< 1.00		µg/l	1.00						
Toluene	< 1.00		µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00						
1,1,1-Trichloroethane	< 1.00		µg/l	1.00						
1,1,2-Trichloroethane	< 1.00		µg/l	1.00						
Trichloroethene	< 1.00		µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00						
1,2,3-Trichloropropane	< 1.00		µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00						
Vinyl chloride	< 1.00		µg/l	1.00						
m,p-Xylene	< 2.00		µg/l	2.00						
o-Xylene	< 1.00		µg/l	1.00						
Tetrahydrofuran	< 2.00		µg/l	2.00						
Ethyl ether	< 1.00		µg/l	1.00						
Tert-amyl methyl ether	< 1.00		µg/l	1.00						
Ethyl tert-butyl ether	< 1.00		µg/l	1.00						
Di-isopropyl ether	< 1.00		µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00		µg/l	5.00						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*47.7*		µg/l		*50.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*59.4*		µg/l		*50.0*		*119*	*70-130*		
Surrogate: Dibromofluoromethane	*52.0*		µg/l		*50.0*		*104*	*70-130*		
LCS (1315441-BS1)					Prepared & Analyzed: 01-Jul-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.5**		µg/l		20.0		108	70-130		
Acetone	**11.3**		µg/l		20.0		57	70-130		
Acrylonitrile	**12.3**	QC2	µg/l		20.0		61	70-130		
Benzene	**19.3**		µg/l		20.0		97	70-130		
Bromobenzene	**21.0**		µg/l		20.0		105	70-130		
Bromochloromethane	**21.5**		µg/l		20.0		108	70-130		
Bromodichloromethane	**21.5**		µg/l		20.0		108	70-130		
Bromoform	**21.6**		µg/l		20.0		108	70-130		
Bromomethane	**17.0**		µg/l		20.0		85	70-130		
2-Butanone (MEK)	**16.7**		µg/l		20.0		83	70-130		
n-Butylbenzene	**20.3**		µg/l		20.0		101	70-130		
sec-Butylbenzene	**22.1**		µg/l		20.0		111	70-130		
tert-Butylbenzene	**22.2**		µg/l		20.0		111	70-130		
Carbon disulfide	**16.6**		µg/l		20.0		83	70-130		
Carbon tetrachloride	**23.1**		µg/l		20.0		116	70-130		
Chlorobenzene	**19.7**		µg/l		20.0		98	70-130		
Chloroethane	**15.7**		µg/l		20.0		79	70-130		
Chloroform	**20.7**		µg/l		20.0		103	70-130		
Chloromethane	**17.4**		µg/l		20.0		87	70-130		
2-Chlorotoluene	**19.7**		µg/l		20.0		99	70-130		
4-Chlorotoluene	**20.2**		µg/l		20.0		101	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315441 - SW846 5030 Water MS										
LCS (1315441-BS1)						Prepared & Analyzed: 01-Jul-13				
1,2-Dibromo-3-chloropropane	**18.5**		µg/l		20.0		93	70-130		
Dibromochloromethane	**22.0**		µg/l		20.0		110	70-130		
1,2-Dibromoethane (EDB)	**21.6**		µg/l		20.0		108	70-130		
Dibromomethane	**21.5**		µg/l		20.0		107	70-130		
1,2-Dichlorobenzene	**20.3**		µg/l		20.0		102	70-130		
1,3-Dichlorobenzene	**21.8**		µg/l		20.0		109	70-130		
1,4-Dichlorobenzene	**19.7**		µg/l		20.0		99	70-130		
Dichlorodifluoromethane (Freon12)	**24.2**		µg/l		20.0		121	70-130		
1,1-Dichloroethane	**19.9**		µg/l		20.0		100	70-130		
1,2-Dichloroethane	**21.6**		µg/l		20.0		108	70-130		
1,1-Dichloroethene	**17.5**		µg/l		20.0		88	70-130		
cis-1,2-Dichloroethene	**20.2**		µg/l		20.0		101	70-130		
trans-1,2-Dichloroethene	**19.4**		µg/l		20.0		97	70-130		
1,2-Dichloropropane	**19.1**		µg/l		20.0		95	70-130		
1,3-Dichloropropane	**20.5**		µg/l		20.0		102	70-130		
2,2-Dichloropropane	**23.3**		µg/l		20.0		117	70-130		
1,1-Dichloropropene	**20.7**		µg/l		20.0		104	70-130		
cis-1,3-Dichloropropene	**19.9**		µg/l		20.0		99	70-130		
trans-1,3-Dichloropropene	**20.4**		µg/l		20.0		102	70-130		
Ethylbenzene	**19.8**		µg/l		20.0		99	70-130		
Hexachlorobutadiene	**24.2**		µg/l		20.0		121	70-130		
2-Hexanone (MBK)	**16.9**		µg/l		20.0		85	70-130		
Isopropylbenzene	**20.9**		µg/l		20.0		104	70-130		
4-Isopropyltoluene	**20.4**		µg/l		20.0		102	70-130		
Methyl tert-butyl ether	**18.2**		µg/l		20.0		91	70-130		
4-Methyl-2-pentanone (MIBK)	**16.0**		µg/l		20.0		80	70-130		
Methylene chloride	**15.7**		µg/l		20.0		79	70-130		
Naphthalene	**19.4**		µg/l		20.0		97	70-130		
n-Propylbenzene	**21.2**		µg/l		20.0		106	70-130		
Styrene	**20.2**		µg/l		20.0		101	70-130		
1,1,1,2-Tetrachloroethane	**20.2**		µg/l		20.0		101	70-130		
1,1,2,2-Tetrachloroethane	**19.0**		µg/l		20.0		95	70-130		
Tetrachloroethene	**23.9**		µg/l		20.0		119	70-130		
Toluene	**21.7**		µg/l		20.0		108	70-130		
1,2,3-Trichlorobenzene	**19.8**		µg/l		20.0		99	70-130		
1,2,4-Trichlorobenzene	**19.8**		µg/l		20.0		99	70-130		
1,3,5-Trichlorobenzene	**23.0**		µg/l		20.0		115	70-130		
1,1,1-Trichloroethane	**22.4**		µg/l		20.0		112	70-130		
1,1,2-Trichloroethane	**20.6**		µg/l		20.0		103	70-130		
Trichloroethene	**18.8**		µg/l		20.0		94	70-130		
Trichlorofluoromethane (Freon 11)	**27.3**	QC2	µg/l		20.0		137	70-130		
1,2,3-Trichloropropane	**19.5**		µg/l		20.0		97	70-130		
1,2,4-Trimethylbenzene	**21.1**		µg/l		20.0		106	70-130		
1,3,5-Trimethylbenzene	**21.5**		µg/l		20.0		108	70-130		
Vinyl chloride	**24.2**		µg/l		20.0		121	70-130		
m,p-Xylene	**40.8**		µg/l		40.0		102	70-130		
o-Xylene	**20.7**		µg/l		20.0		104	70-130		
Tetrahydrofuran	**14.7**		µg/l		20.0		74	70-130		
Ethyl ether	**15.9**		µg/l		20.0		80	70-130		
Tert-amyl methyl ether	**22.0**		µg/l		20.0		110	70-130		
Ethyl tert-butyl ether	**17.4**		µg/l		20.0		87	70-130		
Di-isopropyl ether	**15.7**		µg/l		20.0		78	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315441 - SW846 5030 Water MS										
LCS (1315441-BS1)						Prepared & Analyzed: 01-Jul-13				
Tert-Butanol / butyl alcohol	**160**		µg/l		200		80	70-130		
1,4-Dioxane	**188**		µg/l		200		94	70-130		
trans-1,4-Dichloro-2-butene	**16.8**		µg/l		20.0		84	70-130		
Ethanol	**277**	QC2	µg/l		400		69	70-130		
Surrogate: 4-Bromofluorobenzene	*51.8*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.9*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.2*		µg/l		*50.0*		*110*	*70-130*		
Surrogate: Dibromofluoromethane	*54.0*		µg/l		*50.0*		*108*	*70-130*		
LCS Dup (1315441-BSD1)						Prepared & Analyzed: 01-Jul-13				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.8**		µg/l		20.0		99	70-130	8	20
Acetone	**12.0**		µg/l		20.0		60	70-130	6	20
Acrylonitrile	**13.1**	QC2	µg/l		20.0		65	70-130	6	20
Benzene	**20.5**		µg/l		20.0		102	70-130	6	20
Bromobenzene	**19.6**		µg/l		20.0		98	70-130	7	20
Bromochloromethane	**19.8**		µg/l		20.0		99	70-130	8	20
Bromodichloromethane	**22.3**		µg/l		20.0		112	70-130	3	20
Bromoform	**20.7**		µg/l		20.0		103	70-130	5	20
Bromomethane	**16.7**		µg/l		20.0		84	70-130	2	20
2-Butanone (MEK)	**16.3**		µg/l		20.0		82	70-130	2	20
n-Butylbenzene	**20.4**		µg/l		20.0		102	70-130	0.8	20
sec-Butylbenzene	**20.7**		µg/l		20.0		104	70-130	7	20
tert-Butylbenzene	**20.7**		µg/l		20.0		103	70-130	7	20
Carbon disulfide	**16.6**		µg/l		20.0		83	70-130	0.3	20
Carbon tetrachloride	**22.0**		µg/l		20.0		110	70-130	5	20
Chlorobenzene	**18.9**		µg/l		20.0		94	70-130	4	20
Chloroethane	**16.2**		µg/l		20.0		81	70-130	3	20
Chloroform	**20.4**		µg/l		20.0		102	70-130	2	20
Chloromethane	**18.3**		µg/l		20.0		91	70-130	5	20
2-Chlorotoluene	**19.2**		µg/l		20.0		96	70-130	3	20
4-Chlorotoluene	**19.4**		µg/l		20.0		97	70-130	4	20
1,2-Dibromo-3-chloropropane	**20.2**		µg/l		20.0		101	70-130	9	20
Dibromochloromethane	**23.0**		µg/l		20.0		115	70-130	4	20
1,2-Dibromoethane (EDB)	**20.3**		µg/l		20.0		101	70-130	6	20
Dibromomethane	**21.6**		µg/l		20.0		108	70-130	0.3	20
1,2-Dichlorobenzene	**19.6**		µg/l		20.0		98	70-130	4	20
1,3-Dichlorobenzene	**20.4**		µg/l		20.0		102	70-130	7	20
1,4-Dichlorobenzene	**19.0**		µg/l		20.0		95	70-130	4	20
Dichlorodifluoromethane (Freon12)	**24.2**		µg/l		20.0		121	70-130	0	20
1,1-Dichloroethane	**18.9**		µg/l		20.0		94	70-130	6	20
1,2-Dichloroethane	**22.4**		µg/l		20.0		112	70-130	4	20
1,1-Dichloroethene	**17.1**		µg/l		20.0		85	70-130	3	20
cis-1,2-Dichloroethene	**20.5**		µg/l		20.0		102	70-130	2	20
trans-1,2-Dichloroethene	**17.6**		µg/l		20.0		88	70-130	10	20
1,2-Dichloropropane	**18.7**		µg/l		20.0		94	70-130	2	20
1,3-Dichloropropane	**20.5**		µg/l		20.0		102	70-130	0.05	20
2,2-Dichloropropane	**22.5**		µg/l		20.0		112	70-130	4	20
1,1-Dichloropropene	**20.9**		µg/l		20.0		105	70-130	1	20
cis-1,3-Dichloropropene	**21.6**		µg/l		20.0		108	70-130	8	20
trans-1,3-Dichloropropene	**21.1**		µg/l		20.0		105	70-130	3	20
Ethylbenzene	**19.3**		µg/l		20.0		97	70-130	2	20
Hexachlorobutadiene	**22.1**		µg/l		20.0		110	70-130	9	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315441 - SW846 5030 Water MS										
LCS Dup (1315441-BSD1)					Prepared & Analyzed: 01-Jul-13					
2-Hexanone (MBK)	**17.9**		µg/l		20.0		90	70-130	6	20
Isopropylbenzene	**19.8**		µg/l		20.0		99	70-130	5	20
4-Isopropyltoluene	**20.2**		µg/l		20.0		101	70-130	1	20
Methyl tert-butyl ether	**18.1**		µg/l		20.0		90	70-130	0.9	20
4-Methyl-2-pentanone (MIBK)	**16.9**		µg/l		20.0		84	70-130	5	20
Methylene chloride	**16.1**		µg/l		20.0		81	70-130	3	20
Naphthalene	**18.4**		µg/l		20.0		92	70-130	6	20
n-Propylbenzene	**20.3**		µg/l		20.0		101	70-130	5	20
Styrene	**19.5**		µg/l		20.0		98	70-130	4	20
1,1,1,2-Tetrachloroethane	**20.6**		µg/l		20.0		103	70-130	2	20
1,1,2,2-Tetrachloroethane	**19.5**		µg/l		20.0		97	70-130	2	20
Tetrachloroethene	**22.2**		µg/l		20.0		111	70-130	8	20
Toluene	**19.9**		µg/l		20.0		100	70-130	9	20
1,2,3-Trichlorobenzene	**18.2**		µg/l		20.0		91	70-130	8	20
1,2,4-Trichlorobenzene	**18.7**		µg/l		20.0		93	70-130	6	20
1,3,5-Trichlorobenzene	**22.0**		µg/l		20.0		110	70-130	5	20
1,1,1-Trichloroethane	**21.8**		µg/l		20.0		109	70-130	3	20
1,1,2-Trichloroethane	**20.9**		µg/l		20.0		105	70-130	1	20
Trichloroethene	**19.5**		µg/l		20.0		98	70-130	4	20
Trichlorofluoromethane (Freon 11)	**26.6**	QC2	µg/l		20.0		133	70-130	3	20
1,2,3-Trichloropropane	**17.8**		µg/l		20.0		89	70-130	9	20
1,2,4-Trimethylbenzene	**20.3**		µg/l		20.0		101	70-130	4	20
1,3,5-Trimethylbenzene	**20.4**		µg/l		20.0		102	70-130	5	20
Vinyl chloride	**22.5**		µg/l		20.0		112	70-130	7	20
m,p-Xylene	**38.4**		µg/l		40.0		96	70-130	6	20
o-Xylene	**19.8**		µg/l		20.0		99	70-130	4	20
Tetrahydrofuran	**16.1**		µg/l		20.0		80	70-130	9	20
Ethyl ether	**16.4**		µg/l		20.0		82	70-130	3	20
Tert-amyl methyl ether	**21.8**		µg/l		20.0		109	70-130	0.6	20
Ethyl tert-butyl ether	**18.5**		µg/l		20.0		93	70-130	6	20
Di-isopropyl ether	**16.8**		µg/l		20.0		84	70-130	7	20
Tert-Butanol / butyl alcohol	**194**		µg/l		200		97	70-130	19	20
1,4-Dioxane	**182**		µg/l		200		91	70-130	3	20
trans-1,4-Dichloro-2-butene	**20.4**		µg/l		20.0		102	70-130	20	20
Ethanol	**268**	QC2	µg/l		400		67	70-130	3	20
Surrogate: 4-Bromofluorobenzene	*51.5*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*50.0*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*56.0*		µg/l		*50.0*		*112*	*70-130*		
Surrogate: Dibromofluoromethane	*54.8*		µg/l		*50.0*		*110*	*70-130*		
Batch 1315452 - VPH - EPA 5030C Water										
Blank (1315452-BLK1)					Prepared & Analyzed: 01-Jul-13					
C5-C8 Aliphatic Hydrocarbons	< 75.0		µg/l	75.0						
C9-C12 Aliphatic Hydrocarbons	< 25.0		µg/l	25.0						
C9-C10 Aromatic Hydrocarbons	< 25.0		µg/l	25.0						
Unadjusted C5-C8 Aliphatic Hydrocarbons	< 75.0		µg/l	75.0						
Unadjusted C9-C12 Aliphatic Hydrocarbons	< 25.0		µg/l	25.0						
Benzene	< 5.00		µg/l	5.00						
Ethylbenzene	< 5.00		µg/l	5.00						
Methyl tert-butyl ether	< 5.00		µg/l	5.00						
Naphthalene	< 5.00		µg/l	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315452 - VPH - EPA 5030C Water										
Blank (1315452-BLK1)					Prepared & Analyzed: 01-Jul-13					
Toluene	< 5.00		µg/l	5.00						
m,p-Xylene	< 10.0		µg/l	10.0						
o-Xylene	< 5.00		µg/l	5.00						
2-Methylpentane	< 5.00		µg/l	5.00						
n-Nonane	< 10.0		µg/l	10.0						
n-Pentane	< 10.0		µg/l	10.0						
1,2,4-Trimethylbenzene	< 5.00		µg/l	5.00						
2,2,4-Trimethylpentane	< 5.00		µg/l	5.00						
n-Butylcyclohexane	< 5.00		µg/l	5.00						
n-Decane	< 5.00		µg/l	5.00						
Surrogate: 2,5-Dibromotoluene (FID)	*44.1*		µg/l		*50.0*		*88*	*70-130*		
Surrogate: 2,5-Dibromotoluene (PID)	*43.4*		µg/l		*50.0*		*87*	*70-130*		
LCS (1315452-BS1)					Prepared: 01-Jul-13 Analyzed: 02-Jul-13					
C5-C8 Aliphatic Hydrocarbons	**71.0**		µg/l		60.0		118	70-130		
C9-C12 Aliphatic Hydrocarbons	**62.7**		µg/l		60.0		105	70-130		
C9-C10 Aromatic Hydrocarbons	**21.8**		µg/l		20.0		109	70-130		
Unadjusted C5-C8 Aliphatic Hydrocarbons	**222**		µg/l		200		111	70-130		
Unadjusted C9-C12 Aliphatic Hydrocarbons	**84.5**		µg/l		80.0		106	70-130		
Benzene	**21.4**		µg/l		20.0		107	70-130		
Ethylbenzene	**21.6**		µg/l		20.0		108	70-130		
Methyl tert-butyl ether	**21.7**		µg/l		20.0		109	70-130		
Naphthalene	**20.7**		µg/l		20.0		104	70-130		
Toluene	**20.8**		µg/l		20.0		104	70-130		
m,p-Xylene	**43.2**		µg/l		40.0		108	70-130		
o-Xylene	**21.7**		µg/l		20.0		108	70-130		
2-Methylpentane	**20.0**		µg/l		20.0		100	70-130		
n-Nonane	**20.2**		µg/l		20.0		101	70-130		
n-Pentane	**18.9**		µg/l		20.0		95	70-130		
1,2,4-Trimethylbenzene	**22.0**		µg/l		20.0		110	70-130		
2,2,4-Trimethylpentane	**21.3**		µg/l		20.0		106	70-130		
n-Butylcyclohexane	**20.3**		µg/l		20.0		101	70-130		
n-Decane	**22.2**		µg/l		20.0		111	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	*52.0*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: 2,5-Dibromotoluene (PID)	*51.5*		µg/l		*50.0*		*103*	*70-130*		
LCS Dup (1315452-BSD1)					Prepared: 01-Jul-13 Analyzed: 02-Jul-13					
C5-C8 Aliphatic Hydrocarbons	**70.9**		µg/l		60.0		118	70-130	0.1	25
C9-C12 Aliphatic Hydrocarbons	**62.1**		µg/l		60.0		103	70-130	1	25
C9-C10 Aromatic Hydrocarbons	**22.0**		µg/l		20.0		110	70-130	0.9	25
Unadjusted C5-C8 Aliphatic Hydrocarbons	**224**		µg/l		200		112	70-130	1	25
Unadjusted C9-C12 Aliphatic Hydrocarbons	**84.0**		µg/l		80.0		105	70-130	0.6	25
Benzene	**21.9**		µg/l		20.0		110	70-130	2	25
Ethylbenzene	**22.1**		µg/l		20.0		110	70-130	2	25
Methyl tert-butyl ether	**22.0**		µg/l		20.0		110	70-130	1	25
Naphthalene	**20.5**		µg/l		20.0		102	70-130	1	25
Toluene	**21.3**		µg/l		20.0		107	70-130	2	25
m,p-Xylene	**44.1**		µg/l		40.0		110	70-130	2	25
o-Xylene	**22.1**		µg/l		20.0		111	70-130	2	25
2-Methylpentane	**20.4**		µg/l		20.0		102	70-130	2	25
n-Nonane	**19.5**		µg/l		20.0		97	70-130	4	25

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315452 - VPH - EPA 5030C Water										
LCS Dup (1315452-BSD1)					Prepared: 01-Jul-13 Analyzed: 02-Jul-13					
n-Pentane	**19.1**		µg/l		20.0		96	70-130	0.9	25
1,2,4-Trimethylbenzene	**22.2**		µg/l		20.0		111	70-130	0.9	25
2,2,4-Trimethylpentane	**21.7**		µg/l		20.0		108	70-130	2	25
n-Butylcyclohexane	**19.8**		µg/l		20.0		99	70-130	2	25
n-Decane	**20.3**		µg/l		20.0		102	70-130	9	25
Surrogate: 2,5-Dibromotoluene (FID)	*50.4*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 2,5-Dibromotoluene (PID)	*50.1*		µg/l		*50.0*		*100*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315397 - SW846 3510C										
Blank (1315397-BLK1)					Prepared: 29-Jun-13 Analyzed: 01-Jul-13					
Aroclor-1016	< 0.200		µg/l	0.200						
Aroclor-1016 [2C]	< 0.200		µg/l	0.200						
Aroclor-1221	< 0.200		µg/l	0.200						
Aroclor-1221 [2C]	< 0.200		µg/l	0.200						
Aroclor-1232	< 0.200		µg/l	0.200						
Aroclor-1232 [2C]	< 0.200		µg/l	0.200						
Aroclor-1242	< 0.200		µg/l	0.200						
Aroclor-1242 [2C]	< 0.200		µg/l	0.200						
Aroclor-1248	< 0.200		µg/l	0.200						
Aroclor-1248 [2C]	< 0.200		µg/l	0.200						
Aroclor-1254	< 0.200		µg/l	0.200						
Aroclor-1254 [2C]	< 0.200		µg/l	0.200						
Aroclor-1260	< 0.200		µg/l	0.200						
Aroclor-1260 [2C]	< 0.200		µg/l	0.200						
Aroclor-1262	< 0.200		µg/l	0.200						
Aroclor-1262 [2C]	< 0.200		µg/l	0.200						
Aroclor-1268	< 0.200		µg/l	0.200						
Aroclor-1268 [2C]	< 0.200		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.180*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.200*		µg/l		*0.200*		*100*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.190*		µg/l		*0.200*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.190*		µg/l		*0.200*		*95*	*30-150*		
LCS (1315397-BS1)					Prepared: 29-Jun-13 Analyzed: 01-Jul-13					
Aroclor-1016	**2.49**		µg/l	0.200	2.50		100	40-140		
Aroclor-1016 [2C]	**2.45**		µg/l	0.200	2.50		98	40-140		
Aroclor-1260	**2.39**		µg/l	0.200	2.50		96	40-140		
Aroclor-1260 [2C]	**2.04**		µg/l	0.200	2.50		82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.180*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.190*		µg/l		*0.200*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.180*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.190*		µg/l		*0.200*		*95*	*30-150*		
LCS Dup (1315397-BSD1)					Prepared: 29-Jun-13 Analyzed: 01-Jul-13					
Aroclor-1016	**2.89**		µg/l	0.200	2.50		116	40-140	15	20
Aroclor-1016 [2C]	**2.61**		µg/l	0.200	2.50		104	40-140	6	20
Aroclor-1260	**2.87**		µg/l	0.200	2.50		115	40-140	18	20
Aroclor-1260 [2C]	**2.56**	QR2	µg/l	0.200	2.50		102	40-140	23	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.220*		µg/l		*0.200*		*110*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.240*		µg/l		*0.200*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.210*		µg/l		*0.200*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.230*		µg/l		*0.200*		*115*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315399 - SW846 3510C										
Blank (1315399-BLK1)					Prepared: 29-Jun-13 Analyzed: 03-Jul-13					
C9-C18 Aliphatic Hydrocarbons	< 100		µg/l	100						
C19-C36 Aliphatic Hydrocarbons	< 100		µg/l	100						
C11-C22 Aromatic Hydrocarbons	< 100		µg/l	100						
Unadjusted C11-C22 Aromatic Hydrocarbons	< 100		µg/l	100						
Total Petroleum Hydrocarbons	< 300		µg/l	300						
Unadjusted Total Petroleum Hydrocarbons	< 300		µg/l	300						
Naphthalene	< 5.00		µg/l	5.00						
2-Methylnaphthalene	< 5.00		µg/l	5.00						
Acenaphthylene	< 5.00		µg/l	5.00						
Acenaphthene	< 5.00		µg/l	5.00						
Fluorene	< 5.00		µg/l	5.00						
Phenanthrene	< 5.00		µg/l	5.00						
Anthracene	< 5.00		µg/l	5.00						
Fluoranthene	< 5.00		µg/l	5.00						
Pyrene	< 5.00		µg/l	5.00						
Benzo (a) anthracene	< 5.00		µg/l	5.00						
Chrysene	< 5.00		µg/l	5.00						
Benzo (b) fluoranthene	< 5.00		µg/l	5.00						
Benzo (k) fluoranthene	< 5.00		µg/l	5.00						
Benzo (a) pyrene	< 5.00		µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00		µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00		µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00		µg/l	5.00						
n-Nonane (C9)	< 5.00		µg/l	5.00						
n-Decane	< 5.00		µg/l	5.00						
n-Dodecane	< 5.00		µg/l	5.00						
n-Tetradecane	< 5.00		µg/l	5.00						
n-Hexadecane	< 5.00		µg/l	5.00						
n-Octadecane	< 5.00		µg/l	5.00						
n-Nonadecane	< 5.00		µg/l	5.00						
n-Eicosane	< 5.00		µg/l	5.00						
n-Docosane	< 5.00		µg/l	5.00						
n-Tetracosane	< 5.00		µg/l	5.00						
n-Hexacosane	< 5.00		µg/l	5.00						
n-Octacosane	< 5.00		µg/l	5.00						
n-Triacontane	< 5.00		µg/l	5.00						
n-Hexatriacontane	< 5.00		µg/l	5.00						
Naphthalene (aliphatic fraction)	**0.00**		µg/l							
2-Methylnaphthalene (aliphatic fraction)	**0.00**		µg/l							
Surrogate: 1-Chlorooctadecane	*29.5*		µg/l		*50.0*		*59*	*40-140*		
Surrogate: Ortho-Terphenyl	*46.0*		µg/l		*50.0*		*92*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*36.5*		µg/l		*40.0*		*91*	*40-140*		
LCS (1315399-BS1)					Prepared: 29-Jun-13 Analyzed: 03-Jul-13					
C9-C18 Aliphatic Hydrocarbons	**316**		µg/l	100	600		53	40-140		
C19-C36 Aliphatic Hydrocarbons	**521**		µg/l	100	800		65	40-140		
Unadjusted C11-C22 Aromatic Hydrocarbons	**1160**		µg/l	100	1700		68	40-140		
Naphthalene	**56.9**		µg/l	5.00	100		57	40-140		
2-Methylnaphthalene	**59.3**		µg/l	5.00	100		59	40-140		
Acenaphthylene	**69.0**		µg/l	5.00	100		69	40-140		
Acenaphthene	**70.5**		µg/l	5.00	100		71	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315399 - SW846 3510C										
LCS (1315399-BS1)						Prepared: 29-Jun-13 Analyzed: 03-Jul-13				
Fluorene	**75.1**		µg/l	5.00	100		75	40-140		
Phenanthrene	**77.9**		µg/l	5.00	100		78	40-140		
Anthracene	**76.7**		µg/l	5.00	100		77	40-140		
Fluoranthene	**80.3**		µg/l	5.00	100		80	40-140		
Pyrene	**79.4**		µg/l	5.00	100		79	40-140		
Benzo (a) anthracene	**85.0**		µg/l	5.00	100		85	40-140		
Chrysene	**82.8**		µg/l	5.00	100		83	40-140		
Benzo (b) fluoranthene	**78.3**		µg/l	5.00	100		78	40-140		
Benzo (k) fluoranthene	**86.7**		µg/l	5.00	100		87	40-140		
Benzo (a) pyrene	**71.8**		µg/l	5.00	100		72	40-140		
Indeno (1,2,3-cd) pyrene	**70.4**		µg/l	5.00	100		70	40-140		
Dibenzo (a,h) anthracene	**69.7**		µg/l	5.00	100		70	40-140		
Benzo (g,h,i) perylene	**71.3**		µg/l	5.00	100		71	40-140		
n-Nonane (C9)	**36.3**		µg/l	5.00	100		36	30-140		
n-Decane	**45.2**		µg/l	5.00	100		45	40-140		
n-Dodecane	**50.2**		µg/l	5.00	100		50	40-140		
n-Tetradecane	**57.1**		µg/l	5.00	100		57	40-140		
n-Hexadecane	**63.5**		µg/l	5.00	100		64	40-140		
n-Octadecane	**66.1**		µg/l	5.00	100		66	40-140		
n-Nonadecane	**66.4**		µg/l	5.00	100		66	40-140		
n-Eicosane	**67.5**		µg/l	5.00	100		68	40-140		
n-Docosane	**67.0**		µg/l	5.00	100		67	40-140		
n-Tetracosane	**66.7**		µg/l	5.00	100		67	40-140		
n-Hexacosane	**66.6**		µg/l	5.00	100		67	40-140		
n-Octacosane	**67.7**		µg/l	5.00	100		68	40-140		
n-Triacontane	**65.7**		µg/l	5.00	100		66	40-140		
n-Hexatriacontane	**67.8**		µg/l	5.00	100		68	40-140		
Naphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		
2-Methylnaphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		
Surrogate: 1-Chlorooctadecane	*31.3*		µg/l		*50.0*		*63*	*40-140*		
Surrogate: Ortho-Terphenyl	*39.0*		µg/l		*50.0*		*78*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*36.3*		µg/l		*40.0*		*91*	*40-140*		
LCS (1315399-BS3)						Prepared: 29-Jun-13 Analyzed: 02-Jul-13				
C9-C18 Aliphatic Hydrocarbons	**308**		µg/l	100	600		51	40-140		
C19-C36 Aliphatic Hydrocarbons	**494**		µg/l	100	800		62	40-140		
Unadjusted C11-C22 Aromatic Hydrocarbons	**1280**		µg/l	100	1700		75	40-140		
Naphthalene	**61.4**		µg/l	5.00	100		61	40-140		
2-Methylnaphthalene	**64.4**		µg/l	5.00	100		64	40-140		
Acenaphthylene	**74.6**		µg/l	5.00	100		75	40-140		
Acenaphthene	**74.9**		µg/l	5.00	100		75	40-140		
Fluorene	**79.7**		µg/l	5.00	100		80	40-140		
Phenanthrene	**83.6**		µg/l	5.00	100		84	40-140		
Anthracene	**82.4**		µg/l	5.00	100		82	40-140		
Fluoranthene	**86.1**		µg/l	5.00	100		86	40-140		
Pyrene	**84.0**		µg/l	5.00	100		84	40-140		
Benzo (a) anthracene	**91.1**		µg/l	5.00	100		91	40-140		
Chrysene	**89.0**		µg/l	5.00	100		89	40-140		
Benzo (b) fluoranthene	**83.2**		µg/l	5.00	100		83	40-140		
Benzo (k) fluoranthene	**74.2**		µg/l	5.00	100		74	40-140		
Benzo (a) pyrene	**79.1**		µg/l	5.00	100		79	40-140		
Indeno (1,2,3-cd) pyrene	**73.8**		µg/l	5.00	100		74	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315399 - SW846 3510C										
LCS (1315399-BS3)						Prepared: 29-Jun-13 Analyzed: 02-Jul-13				
Dibenzo (a,h) anthracene	**73.8**		µg/l	5.00	100		74	40-140		
Benzo (g,h,i) perylene	**74.6**		µg/l	5.00	100		75	40-140		
n-Nonane (C9)	**37.1**		µg/l	5.00	100		37	30-140		
n-Decane	**44.1**		µg/l	5.00	100		44	40-140		
n-Dodecane	**48.7**		µg/l	5.00	100		49	40-140		
n-Tetradecane	**54.9**		µg/l	5.00	100		55	40-140		
n-Hexadecane	**60.8**		µg/l	5.00	100		61	40-140		
n-Octadecane	**63.4**		µg/l	5.00	100		63	40-140		
n-Nonadecane	**63.7**		µg/l	5.00	100		64	40-140		
n-Eicosane	**64.8**		µg/l	5.00	100		65	40-140		
n-Docosane	**64.0**		µg/l	5.00	100		64	40-140		
n-Tetracosane	**63.3**		µg/l	5.00	100		63	40-140		
n-Hexacosane	**63.0**		µg/l	5.00	100		63	40-140		
n-Octacosane	**63.8**		µg/l	5.00	100		64	40-140		
n-Triacontane	**61.8**		µg/l	5.00	100		62	40-140		
n-Hexatriacontane	**65.4**		µg/l	5.00	100		65	40-140		
Naphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		
2-Methylnaphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		
Surrogate: 1-Chlorooctadecane	*26.8*		µg/l		*50.0*		*54*	*40-140*		
Surrogate: Ortho-Terphenyl	*41.2*		µg/l		*50.0*		*82*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*36.2*		µg/l		*40.0*		*90*	*40-140*		
LCS Dup (1315399-BSD1)						Prepared: 29-Jun-13 Analyzed: 03-Jul-13				
C9-C18 Aliphatic Hydrocarbons	**342**		µg/l	100	600		57	40-140	8	25
C19-C36 Aliphatic Hydrocarbons	**560**		µg/l	100	800		70	40-140	7	25
Unadjusted C11-C22 Aromatic Hydrocarbons	**1260**		µg/l	100	1700		74	40-140	9	25
Naphthalene	**66.7**		µg/l	5.00	100		67	40-140	16	25
2-Methylnaphthalene	**68.2**		µg/l	5.00	100		68	40-140	14	25
Acenaphthylene	**76.7**		µg/l	5.00	100		77	40-140	11	25
Acenaphthene	**78.8**		µg/l	5.00	100		79	40-140	11	25
Fluorene	**81.5**		µg/l	5.00	100		82	40-140	8	25
Phenanthrene	**83.9**		µg/l	5.00	100		84	40-140	7	25
Anthracene	**82.7**		µg/l	5.00	100		83	40-140	8	25
Fluoranthene	**85.9**		µg/l	5.00	100		86	40-140	7	25
Pyrene	**83.6**		µg/l	5.00	100		84	40-140	5	25
Benzo (a) anthracene	**87.5**		µg/l	5.00	100		88	40-140	3	25
Chrysene	**90.1**		µg/l	5.00	100		90	40-140	8	25
Benzo (b) fluoranthene	**79.8**		µg/l	5.00	100		80	40-140	2	25
Benzo (k) fluoranthene	**92.4**		µg/l	5.00	100		92	40-140	6	25
Benzo (a) pyrene	**76.3**		µg/l	5.00	100		76	40-140	6	25
Indeno (1,2,3-cd) pyrene	**73.2**		µg/l	5.00	100		73	40-140	4	25
Dibenzo (a,h) anthracene	**71.6**		µg/l	5.00	100		72	40-140	3	25
Benzo (g,h,i) perylene	**73.8**		µg/l	5.00	100		74	40-140	3	25
n-Nonane (C9)	**38.7**		µg/l	5.00	100		39	30-140	6	25
n-Decane	**48.5**		µg/l	5.00	100		49	40-140	7	25
n-Dodecane	**54.4**		µg/l	5.00	100		54	40-140	8	25
n-Tetradecane	**62.2**		µg/l	5.00	100		62	40-140	8	25
n-Hexadecane	**69.1**		µg/l	5.00	100		69	40-140	8	25
n-Octadecane	**71.7**		µg/l	5.00	100		72	40-140	8	25
n-Nonadecane	**71.8**		µg/l	5.00	100		72	40-140	8	25
n-Eicosane	**72.9**		µg/l	5.00	100		73	40-140	8	25
n-Docosane	**71.7**		µg/l	5.00	100		72	40-140	7	25

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315399 - SW846 3510C										
LCS Dup (1315399-BSD1)					Prepared: 29-Jun-13 Analyzed: 03-Jul-13					
n-Tetracosane	**71.2**		µg/l	5.00	100		71	40-140	7	25
n-Hexacosane	**71.0**		µg/l	5.00	100		71	40-140	6	25
n-Octacosane	**71.9**		µg/l	5.00	100		72	40-140	6	25
n-Triacontane	**69.7**		µg/l	5.00	100		70	40-140	6	25
n-Hexatriacontane	**71.4**		µg/l	5.00	100		71	40-140	5	25
Naphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		200
2-Methylnaphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		200
Surrogate: 1-Chlorooctadecane	*32.8*		µg/l		*50.0*		*66*	*40-140*		
Surrogate: Ortho-Terphenyl	*42.0*		µg/l		*50.0*		*84*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*36.6*		µg/l		*40.0*		*91*	*40-140*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315352 - SW846 3005A										
Blank (1315352-BLK1)					Prepared: 01-Jul-13 Analyzed: 02-Jul-13					
Barium	< 0.0050		mg/l	0.0050						
Lead	< 0.0075		mg/l	0.0075						
Chromium	< 0.0050		mg/l	0.0050						
Cadmium	< 0.0025		mg/l	0.0025						
Silver	< 0.0050		mg/l	0.0050						
Arsenic	< 0.0040		mg/l	0.0040						
Selenium	< 0.0150		mg/l	0.0150						
LCS (1315352-BS1)					Prepared: 01-Jul-13 Analyzed: 02-Jul-13					
Selenium	**1.21**		mg/l	0.0150	1.25		97	85-115		
Barium	**1.35**		mg/l	0.0050	1.25		108	85-115		
Silver	**1.36**		mg/l	0.0050	1.25		109	85-115		
Lead	**1.27**		mg/l	0.0075	1.25		102	85-115		
Arsenic	**1.22**		mg/l	0.0040	1.25		97	85-115		
Chromium	**1.35**		mg/l	0.0050	1.25		108	85-115		
Cadmium	**1.25**		mg/l	0.0025	1.25		100	85-115		
LCS Dup (1315352-BSD1)					Prepared: 01-Jul-13 Analyzed: 02-Jul-13					
Selenium	**1.24**		mg/l	0.0150	1.25		99	85-115	2	20
Lead	**1.29**		mg/l	0.0075	1.25		103	85-115	1	20
Chromium	**1.36**		mg/l	0.0050	1.25		109	85-115	0.9	20
Cadmium	**1.28**		mg/l	0.0025	1.25		102	85-115	2	20
Barium	**1.35**		mg/l	0.0050	1.25		108	85-115	0.4	20
Silver	**1.36**		mg/l	0.0050	1.25		109	85-115	0.4	20
Arsenic	**1.23**		mg/l	0.0040	1.25		99	85-115	1	20
Duplicate (1315352-DUP1)			**Source: SB72315-03**		Prepared: 01-Jul-13 Analyzed: 02-Jul-13					
Barium	**0.741**		mg/l	0.0050		0.736			0.7	20
Cadmium	< 0.0025		mg/l	0.0025		BRL				20
Chromium	**0.0461**		mg/l	0.0050		0.0462			0.2	20
Lead	**0.0774**		mg/l	0.0075		0.0775			0.06	20
Selenium	< 0.0150		mg/l	0.0150		BRL				20
Silver	< 0.0050		mg/l	0.0050		BRL				20
Arsenic	**0.0072**		mg/l	0.0040		0.0070			2	20
Matrix Spike (1315352-MS1)			**Source: SB72315-02**		Prepared: 01-Jul-13 Analyzed: 02-Jul-13					
Arsenic	**1.29**		mg/l	0.0040	1.25	BRL	103	75-125		
Chromium	**1.27**		mg/l	0.0050	1.25	0.0010	101	75-125		
Silver	**1.37**		mg/l	0.0050	1.25	BRL	109	75-125		
Lead	**1.16**		mg/l	0.0075	1.25	BRL	93	75-125		
Selenium	**1.29**		mg/l	0.0150	1.25	BRL	103	75-125		
Cadmium	**1.20**		mg/l	0.0025	1.25	BRL	96	75-125		
Barium	**1.42**		mg/l	0.0050	1.25	0.141	102	75-125		
Matrix Spike Dup (1315352-MSD1)			**Source: SB72315-02**		Prepared: 01-Jul-13 Analyzed: 02-Jul-13					
Cadmium	**1.20**		mg/l	0.0025	1.25	BRL	96	75-125	0.4	20
Selenium	**1.28**		mg/l	0.0150	1.25	BRL	103	75-125	0.8	20
Chromium	**1.28**		mg/l	0.0050	1.25	0.0010	102	75-125	0.9	20
Barium	**1.41**		mg/l	0.0050	1.25	0.141	102	75-125	0.5	20
Arsenic	**1.28**		mg/l	0.0040	1.25	BRL	103	75-125	0.3	20
Silver	**1.38**		mg/l	0.0050	1.25	BRL	110	75-125	0.8	20
Lead	**1.17**		mg/l	0.0075	1.25	BRL	93	75-125	0.3	20
Post Spike (1315352-PS1)			**Source: SB72315-02**		Prepared: 01-Jul-13 Analyzed: 02-Jul-13					
Silver	**1.58**	QM9	mg/l	0.0050	1.25	BRL	126	80-120		
Arsenic	**1.35**		mg/l	0.0040	1.25	BRL	108	80-120		
Barium	**1.56**		mg/l	0.0050	1.25	0.141	114	80-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315352 - SW846 3005A										
Post Spike (1315352-PS1)			**Source: SB72315-02**			Prepared: 01-Jul-13 Analyzed: 02-Jul-13				
Cadmium	**1.26**		mg/l	0.0025	1.25	BRL	101	80-120		
Chromium	**1.41**		mg/l	0.0050	1.25	0.0010	112	80-120		
Lead	**1.25**		mg/l	0.0075	1.25	BRL	100	80-120		
Selenium	**1.34**		mg/l	0.0150	1.25	BRL	107	80-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1315353 - EPA200/SW7000 Series										
Blank (1315353-BLK1)						Prepared & Analyzed: 01-Jul-13				
Mercury	< 0.00020		mg/l	0.00020						
LCS (1315353-BS1)						Prepared & Analyzed: 01-Jul-13				
Mercury	**0.00567**		mg/l	0.00020	0.00500		113	85-115		
Duplicate (1315353-DUP1)			**Source: SB72315-01**			Prepared & Analyzed: 01-Jul-13				
Mercury	< 0.00020		mg/l	0.00020		BRL				20
Matrix Spike (1315353-MS1)			**Source: SB72315-01**			Prepared & Analyzed: 01-Jul-13				
Mercury	**0.00587**		mg/l	0.00020	0.00500	BRL	117	80-120		
Matrix Spike Dup (1315353-MSD1)			**Source: SB72315-01**			Prepared & Analyzed: 01-Jul-13				
Mercury	**0.00586**		mg/l	0.00020	0.00500	BRL	117	80-120	0.2	20
Post Spike (1315353-PS1)			**Source: SB72315-01**			Prepared & Analyzed: 01-Jul-13				
Mercury	**0.00579**	QM9	mg/l	0.00020	0.00500	BRL	116	85-115		

Notes and Definitions

D	Data reported from a dilution
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
R01	The Reporting Limit has been raised to account for matrix interference.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): 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.

Matrix Spike: 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.

Method Blank: 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.

Surrogate: 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.

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

Validated by:
June O'Connor
Kimberly Wisk
Nicole Leja

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling: SB72315

- ☐ Standard TAT - 7 to 10 business days
- ☑ Rush TAT - Date Needed: **July 3, 2013**

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed

Report To: Kleinfelder
1 Speen Street
Framingham, MA 01701
Telephone #: 508-370-8256 Fax: 508-68-1401
Project Mgr: Moira Johnson

Invoice To: Cumberland Farms
Mr. Matt Young
100 Crossing Blvd
Framingham, MA 01702
P.O No.: 46985 RQN

Project No: **CFI ASTM Soutbridge, MA**
Site Name: 357-381 Main Street
Location: Southbridge State MA
Sampler(s): Katie Grim/Moira Johnson

1=Na_2S2O_3 **2**=HCl **3**=H_2SO_4 **4**=HNO_3 **5**=NaOH **6**=Ascorbic Acid **7**=CH_3OH
8= $NaHSO_4$ **9**= Deionized Water **10**=H_3PO_4 **11**= None **12**=

DW=Dinking Water **GW**= Groundwater **WW**= Waste Water
O= Oil **SW**= surface Water **SO**=Soil **SL**= Sludge **A**= Air
X1= X2= X3=

G= Grab **C**=Compsite

Lab ID	Sample ID	Date	Time	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	List Preservative Code below: 2	2	2	11	11				Analysis: MA VPH & Targets - Total Xylenes	MA EPH	VOCs via 8260	RCRA 8 Metals	PCBs				QA/QC Reporting Notes: *additional charges may apply
SB72315-01	MW-1	6/25/2013	1200	G	GW	6	2		1									x	x	x	x	x				KLF field filtered metal samples
-02	MW-2	6/25/2013	1100	G	GW	6	2		1									x	x	x	x	x				No CAM needed
	~~MW-3~~	~~6/25/2013~~		G	GW													x	x	x	x	x			KG	6/25/13
	~~MW-4~~	~~6/25/2013~~		G	GW													x	x	x	x	x			KG	6/25/13
-03	MW-5	6/25/2013	1230	G	GW	6	2		1									x	x	x	x	x				
	~~MW-6~~	~~6/25/2013~~		G	GW													x	x	x	x	x			KG	6/25/13
	~~MW-7~~	~~6/25/2013~~		G	GW													x	x	x	x	x			KG	6/25/13
	~~MW-8~~	~~6/25/2013~~		G	GW													x	x	x	x	x			KG	6/25/13
-04	Trip Blank	6/25/13	2400	G	GW	1												x								
-05	Field Blank	6/25/2013	1200	G	GW	1												x								

Relinquished by:	Received by:	Date	Time	Temp °C
Katherine Grim	KLF Fridge	6/25/13 1900		
		6/27/13 1032		
	YLH	6/27/13	1310	0.2/0.0

- ☐ EDD format:
- ☑ E-mail to: msjohnson@kleinfelder.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Fro

Report Date:
27-Mar-15 15:21

☐ Final Report
☐ Re-Issued Report
☑ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Kleinfelder, Inc.
1 Speen Street, Suite 200
Framingham, MA 01701
Attn: Moira Johnson

Project: 357-381 Main Street - Southbridge, MA
Project #: CFI Southbridge

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC03809-01	MW-1	Ground Water	27-Feb-15 12:45	27-Feb-15 16:37
SC03809-02	MW-2	Ground Water	27-Feb-15 14:10	27-Feb-15 16:37
SC03809-03	Trip Blank	Ground Water	27-Feb-15 00:00	27-Feb-15 16:37

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.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts 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 43 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 Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum 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 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 (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

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

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 4.4 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.

Analyses for Total Hardness, pH, and Total Residual Chlorine fall under the state of Pennsylvania code Chapter 252.6 accreditation by rule.

March 27, 2015 Report Revision Case Narrative:

This report has been revised to include analyses added as listed in the appendix at the end of this report.

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

EPA 300.0

Samples:

SC03809-01 *MW-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Chloride

SC03809-02 *MW-2*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Chloride

SM3500-Cr-B/7196A

Samples:

SC03809-01 *MW-1*

The Reporting Limit has been raised to account for matrix interference.

Hexavalent Chromium

SC03809-02 *MW-2*

The Reporting Limit has been raised to account for matrix interference.

Hexavalent Chromium

SM4500-Cl-G

Samples:

SC03809-01 *MW-1*

The Reporting Limit has been raised to account for matrix interference.

Total Residual Chlorine

SC03809-02 *MW-2*

SM4500-Cl-G

Samples:

SC03809-02 *MW-2*

The Reporting Limit has been raised to account for matrix interference.

Total Residual Chlorine

SW846 6010C

Blanks:

1503856-BLK1

The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.

Iron

Spikes:

1503856-PS1 *Source: SC03809-01*

The spike recovery was outside of QC acceptance limits for the MS, MSD and/or PS due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

Iron

Duplicates:

1503856-DUP1 *Source: SC03809-01*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Arsenic

MRL raised to correlate to batch QC reporting limits.

Silver

1503858-DUP1 *Source: SC03809-02*

The Reporting Limit has been raised to account for matrix interference.

Silver

Samples:

SC03809-01 *MW-1*

MRL raised to correlate to batch QC reporting limits.

Silver

The Reporting Limit has been raised to account for matrix interference.

Silver

SC03809-02 *MW-2*

MRL raised to correlate to batch QC reporting limits.

Silver

The Reporting Limit has been raised to account for matrix interference.

Antimony
Silver

SW846 8082A

SW846 8082A

Samples:

SC03809-01 *MW-1*

Elevated Reporting Limits due to limited sample volume.

SC03809-02 *MW-2*

Elevated Reporting Limits due to limited sample volume.

SW846 8260C

Calibration:

1502049

Analyte quantified by quadratic equation type calibration.

1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2-Butanone (MEK)
4-Isopropyltoluene
Hexachlorobutadiene
Isopropylbenzene
Naphthalene
n-Butylbenzene
n-Propylbenzene
sec-Butylbenzene
tert-Butylbenzene

This affected the following samples:

1503861-BLK1
1503861-BS1
1503861-BSD1
MW-1
MW-2
S501728-ICV1
S501757-CCV1
Trip Blank

S501728-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

1,1,2-Trichlorotrifluoroethane (Freon 113) (75%)
Dichlorodifluoromethane (Freon12) (72%)
trans-1,4-Dichloro-2-butene (126%)
Trichlorofluoromethane (Freon 11) (79%)

This affected the following samples:

1503861-BLK1
1503861-BS1
1503861-BSD1
MW-1
MW-2
S501757-CCV1
Trip Blank

Samples:

SW846 8260C

Samples:

S501757-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,1-Dichloroethene (20.6%)
2,2-Dichloropropane (28.6%)
Bromomethane (-26.1%)

This affected the following samples:

1503861-BLK1
1503861-BS1
1503861-BSD1
MW-1
MW-2
Trip Blank

SW846 8270D

Calibration:

1502045

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
4,6-Dinitro-2-methylphenol
4-Nitrophenol
Benzidine
Benzoic acid
Indeno (1,2,3-cd) pyrene

This affected the following samples:

1503878-BLK1
1503878-BS1
1503878-BSD1
MW-1
MW-2
S501700-ICV1
S501817-CCV1

Laboratory Control Samples:

1503878 BS/BSD

Benzidine percent recoveries (64/12) are outside individual acceptance criteria (40-140), but within overall method allowances.
All reported results of the following samples are considered to have a potentially low bias:

MW-1
MW-2

Pyridine percent recoveries (38/34) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-1
MW-2

1503878 BSD

Benzidine RPD 137% (20%) is outside individual acceptance criteria.

1503878-BSD1

SW846 8270D

Laboratory Control Samples:

1503878-BSD1

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Benzidine

Samples:

S501817-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Benzidine (-30.2%)

This affected the following samples:

1503878-BLK1
1503878-BS1
1503878-BSD1
MW-1
MW-2

Sample Acceptance Check Form

Client:	Kleinfelder, Inc. - Framingham, MA
Project:	357-381 Main Street - Southbridge, MA / CFI Southbridge
Work Order:	SC03809
Sample(s) received on:	2/27/2015

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

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
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?	☐	☑	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1	CFI Southbridge	Ground Water	27-Feb-15 12:45	27-Feb-15
SC03809-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.7	1	SW846 8260C	02-Mar-15	02-Mar-15	GMA	1503861	
67-64-1	Acetone	< 10.0		µg/l	10.0	3.6	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	
71-43-2	Benzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	3.1	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
67-66-3	Chloroform	**6.0**		µg/l	1.0	0.5	1	"	"	"	"	"	
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	2.0	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1	CFI Southbridge	Ground Water	27-Feb-15 12:45	27-Feb-15
SC03809-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	02-Mar-15	02-Mar-15	GMA	1503861	
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.5	1						
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.4	1						
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	2.5	1						
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.5	1						
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.5	1						
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.4	1						
100-42-5	Styrene	< 1.0		µg/l	1.0	0.4	1						
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.4	1						
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.5	1						
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1						
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1						
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.8	1						
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1						
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.6	1						
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.4	1						
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.3	1						
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1						
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.8	1						
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.3	1						
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.3	1						
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1						
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	1.0	1						
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1						
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.4	1						
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.8	1						
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.5	1						
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1						
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.4	1						
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.3	1						
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	8.9	1						
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	14.6	1						
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.0	1						
64-17-5	Ethanol	< 400		µg/l	400	80.8	1						
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*85*			*70-130 %*								
2037-26-5	*Toluene-d8*	*102*			*70-130 %*								
17060-07-0	*1,2-Dichloroethane-d4*	*107*			*70-130 %*								
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*								
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 5.21		µg/l	5.21	1.31	1	SW846 8270D	02-Mar-15	02-Mar-15	ML	1503878	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1	CFI Southbridge	Ground Water	27-Feb-15 12:45	27-Feb-15
SC03809-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
208-96-8	Acenaphthylene	< 5.21		µg/l	5.21	1.40	1	SW846 8270D	02-Mar-15	02-Mar-15	ML	1503878	
62-53-3	Aniline	< 5.21		µg/l	5.21	1.71	1						
120-12-7	Anthracene	< 5.21		µg/l	5.21	1.46	1						
103-33-3	Azobenzene/Diphenyldiazene	< 5.21		µg/l	5.21	1.98	1						
92-87-5	Benzidine	< 5.21		µg/l	5.21	4.93	1						
56-55-3	Benzo (a) anthracene	< 5.21		µg/l	5.21	1.31	1						
50-32-8	Benzo (a) pyrene	< 5.21		µg/l	5.21	1.38	1						
205-99-2	Benzo (b) fluoranthene	< 5.21		µg/l	5.21	1.72	1						
191-24-2	Benzo (g,h,i) perylene	< 5.21		µg/l	5.21	1.55	1						
207-08-9	Benzo (k) fluoranthene	< 5.21		µg/l	5.21	1.39	1						
65-85-0	Benzoic acid	< 5.21		µg/l	5.21	1.46	1						
100-51-6	Benzyl alcohol	< 5.21		µg/l	5.21	1.38	1						
111-91-1	Bis(2-chloroethoxy)methane	< 5.21		µg/l	5.21	1.21	1						
111-44-4	Bis(2-chloroethyl)ether	< 5.21		µg/l	5.21	1.23	1						
108-60-1	Bis(2-chloroisopropyl)ether	< 5.21		µg/l	5.21	1.28	1						
117-81-7	Bis(2-ethylhexyl)phthalate	< 5.21		µg/l	5.21	1.40	1						
101-55-3	4-Bromophenyl phenyl ether	< 5.21		µg/l	5.21	2.21	1						
85-68-7	Butyl benzyl phthalate	< 5.21		µg/l	5.21	1.36	1						
86-74-8	Carbazole	< 5.21		µg/l	5.21	1.91	1						
59-50-7	4-Chloro-3-methylphenol	< 5.21		µg/l	5.21	1.55	1						
106-47-8	4-Chloroaniline	< 5.21		µg/l	5.21	1.85	1						
91-58-7	2-Chloronaphthalene	< 5.21		µg/l	5.21	1.71	1						
95-57-8	2-Chlorophenol	< 5.21		µg/l	5.21	1.20	1						
7005-72-3	4-Chlorophenyl phenyl ether	< 5.21		µg/l	5.21	1.33	1						
218-01-9	Chrysene	< 5.21		µg/l	5.21	1.56	1						
53-70-3	Dibenzo (a,h) anthracene	< 5.21		µg/l	5.21	1.60	1						
132-64-9	Dibenzofuran	< 5.21		µg/l	5.21	1.36	1						
95-50-1	1,2-Dichlorobenzene	< 5.21		µg/l	5.21	1.35	1						
541-73-1	1,3-Dichlorobenzene	< 5.21		µg/l	5.21	1.19	1						
106-46-7	1,4-Dichlorobenzene	< 5.21		µg/l	5.21	1.19	1						
91-94-1	3,3´-Dichlorobenzidine	< 5.21		µg/l	5.21	1.26	1						
120-83-2	2,4-Dichlorophenol	< 5.21		µg/l	5.21	1.20	1						
84-66-2	Diethyl phthalate	< 5.21		µg/l	5.21	1.33	1						
131-11-3	Dimethyl phthalate	< 5.21		µg/l	5.21	1.43	1						
105-67-9	2,4-Dimethylphenol	< 5.21		µg/l	5.21	1.12	1						
84-74-2	Di-n-butyl phthalate	< 5.21		µg/l	5.21	1.65	1						
534-52-1	4,6-Dinitro-2-methylphenol	< 5.21		µg/l	5.21	2.10	1						
51-28-5	2,4-Dinitrophenol	< 5.21		µg/l	5.21	2.02	1						
121-14-2	2,4-Dinitrotoluene	< 5.21		µg/l	5.21	1.77	1						
606-20-2	2,6-Dinitrotoluene	< 5.21		µg/l	5.21	1.43	1						
117-84-0	Di-n-octyl phthalate	< 5.21		µg/l	5.21	1.39	1						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1	CFI Southbridge	Ground Water	27-Feb-15 12:45	27-Feb-15
SC03809-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
206-44-0	Fluoranthene	< 5.21		µg/l	5.21	1.62	1	SW846 8270D	02-Mar-15	02-Mar-15	ML	1503878	
86-73-7	Fluorene	< 5.21		µg/l	5.21	1.41	1						
118-74-1	Hexachlorobenzene	< 5.21		µg/l	5.21	1.42	1						
87-68-3	Hexachlorobutadiene	< 5.21		µg/l	5.21	1.29	1						
77-47-4	Hexachlorocyclopentadiene	< 5.21		µg/l	5.21	1.67	1						
67-72-1	Hexachloroethane	< 5.21		µg/l	5.21	1.15	1						
193-39-5	Indeno (1,2,3-cd) pyrene	< 5.21		µg/l	5.21	1.81	1						
78-59-1	Isophorone	< 5.21		µg/l	5.21	1.21	1						
91-57-6	2-Methylnaphthalene	< 5.21		µg/l	5.21	1.49	1						
95-48-7	2-Methylphenol	< 5.21		µg/l	5.21	1.46	1						
108-39-4, 106-44-5	3 & 4-Methylphenol	< 10.4		µg/l	10.4	1.30	1						
91-20-3	Naphthalene	< 5.21		µg/l	5.21	1.22	1						
88-74-4	2-Nitroaniline	< 5.21		µg/l	5.21	1.82	1						
99-09-2	3-Nitroaniline	< 5.21		µg/l	5.21	2.33	1						
100-01-6	4-Nitroaniline	< 20.8		µg/l	20.8	2.27	1						
98-95-3	Nitrobenzene	< 5.21		µg/l	5.21	1.89	1						
88-75-5	2-Nitrophenol	< 5.21		µg/l	5.21	1.07	1						
100-02-7	4-Nitrophenol	< 20.8		µg/l	20.8	2.34	1						
62-75-9	N-Nitrosodimethylamine	< 5.21		µg/l	5.21	1.17	1						
621-64-7	N-Nitrosodi-n-propylamine	< 5.21		µg/l	5.21	1.25	1						
86-30-6	N-Nitrosodiphenylamine	< 5.21		µg/l	5.21	2.47	1						
87-86-5	Pentachlorophenol	< 20.8		µg/l	20.8	2.47	1						
85-01-8	Phenanthrene	< 5.21		µg/l	5.21	1.41	1						
108-95-2	Phenol	< 5.21		µg/l	5.21	1.44	1						
129-00-0	Pyrene	< 5.21		µg/l	5.21	2.80	1						
110-86-1	Pyridine	< 5.21		µg/l	5.21	1.90	1						
120-82-1	1,2,4-Trichlorobenzene	< 5.21		µg/l	5.21	1.14	1						
90-12-0	1-Methylnaphthalene	< 5.21		µg/l	5.21	0.990	1						
95-95-4	2,4,5-Trichlorophenol	< 5.21		µg/l	5.21	2.17	1						
88-06-2	2,4,6-Trichlorophenol	< 5.21		µg/l	5.21	1.76	1						
82-68-8	Pentachloronitrobenzene	< 5.21		µg/l	5.21	1.54	1						
95-94-3	1,2,4,5-Tetrachlorobenzene	< 5.21		µg/l	5.21	1.61	1						
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*63*			*30-130 %*								
367-12-4	*2-Fluorophenol*	*41*			*15-110 %*								
4165-60-0	*Nitrobenzene-d5*	*65*			*30-130 %*								
4165-62-2	*Phenol-d5*	*28*			*15-110 %*								
1718-51-0	*Terphenyl-dl4*	*74*			*30-130 %*								
118-79-6	*2,4,6-Tribromophenol*	*65*			*15-110 %*								
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3510C			R02										
12674-11-2	Aroclor-1016	< 0.294		µg/l	0.294	0.168	1	SW846 8082A	27-Feb-15	02-Mar-15	IMR	1503770	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1	CFI Southbridge	Ground Water	27-Feb-15 12:45	27-Feb-15
SC03809-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R02										
Prepared by method SW846 3510C													
11104-28-2	Aroclor-1221	< 0.294		µg/l	0.294	0.159	1	SW846 8082A	27-Feb-15	02-Mar-15	IMR	1503770	
11141-16-5	Aroclor-1232	< 0.294		µg/l	0.294	0.184	1						
53469-21-9	Aroclor-1242	< 0.294		µg/l	0.294	0.115	1						
12672-29-6	Aroclor-1248	< 0.294		µg/l	0.294	0.166	1						
11097-69-1	Aroclor-1254	< 0.294		µg/l	0.294	0.110	1						
11096-82-5	Aroclor-1260	< 0.294		µg/l	0.294	0.0912	1						
37324-23-5	Aroclor-1262	< 0.294		µg/l	0.294	0.144	1						
11100-14-4	Aroclor-1268	< 0.294		µg/l	0.294	0.200	1						
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*								
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*								
2051-24-3	*Decachlorobiphenyl (Sr)*	*40*			*30-150 %*								
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*55*			*30-150 %*								
Extractable Petroleum Hydrocarbons													
Fingerprinting by GC													
Prepared by method SW846 3510C													
8006-61-9	Gasoline	< 0.2		mg/l	0.2	0.1	1	SW846 8100Mod.	02-Mar-15	03-Mar-15	SEP	1503876	
68476-30-2	Fuel Oil #2	< 0.2		mg/l	0.2	0.09	1						
68476-31-3	Fuel Oil #4	< 0.2		mg/l	0.2	0.02	1						
68553-00-4	Fuel Oil #6	< 0.2		mg/l	0.2	0.1	1						
M09800000	Motor Oil	< 0.2		mg/l	0.2	0.1	1						
8032-32-4	Ligroin	< 0.2		mg/l	0.2	0.06	1						
J00100000	Aviation Fuel	< 0.2		mg/l	0.2	0.06	1						
	Hydraulic Oil	< 0.2		mg/l	0.2	0.02	1						
	Dielectric Fluid	< 0.2		mg/l	0.2	0.06	1						
	Unidentified	< 0.2		mg/l	0.2	0.06	1						
	Other Oil	< 0.2		mg/l	0.2	0.02	1						
	Total Petroleum Hydrocarbons	< 0.2		mg/l	0.2	0.02	1						
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*61*			*40-140 %*								
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			AAH	1503813	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0070	R06	mg/l	0.0070	0.0012	1	SW846 6010C	02-Mar-15	03-Mar-15	bjw	1503856	
7440-38-2	Arsenic	**0.0047**		mg/l	0.0040	0.0027	1			02-Mar-15			
7440-41-7	Beryllium	< 0.0020		mg/l	0.0020	0.0001	1						
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0002	1						
7440-47-3	Chromium	**0.0293**		mg/l	0.0050	0.0010	1						
7440-50-8	Copper	**0.0216**		mg/l	0.0050	0.0035	1			03-Mar-15			
7439-89-6	Iron	**12.4**		mg/l	0.0150	0.0082	1						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-1	CFI Southbridge	Ground Water	27-Feb-15 12:45	27-Feb-15
SC03809-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7440-02-0	Nickel	**0.0254**		mg/l	0.0050	0.0014	1	SW846 6010C	02-Mar-15	03-Mar-15	bjw	1503856	
7439-92-1	Lead	**0.0517**		mg/l	0.0075	0.0020	1			02-Mar-15			
7440-36-0	Antimony	< 0.0060		mg/l	0.0060	0.0025	1						
7782-49-2	Selenium	< 0.0150		mg/l	0.0150	0.0036	1			03-Mar-15			
7440-28-0	Thallium	< 0.0050		mg/l	0.0050	0.0016	1			02-Mar-15			
7440-66-6	Zinc	**0.168**		mg/l	0.0050	0.0006	1						
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00009	1	EPA 245.1/7470A	02-Mar-15	02-Mar-15	YR	1503857	X
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**Field Filtered**		N/A			1	EPA 200.7/3005A/6010			AAH	1503838	
Soluble Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0070	R01	mg/l	0.0070	0.0012	1	SW846 6010C	02-Mar-15	02-Mar-15	edt	1503858	
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1						
7440-41-7	Beryllium	< 0.0020		mg/l	0.0020	0.0001	1						
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0002	1						
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1						
7440-50-8	Copper	< 0.0050		mg/l	0.0050	0.0035	1			03-Mar-15			
7439-89-6	Iron	< 0.0300		mg/l	0.0300	0.0163	1		26-Mar-15	27-Mar-15		1505433	
7440-02-0	Nickel	< 0.0050		mg/l	0.0050	0.0014	1		02-Mar-15	03-Mar-15		1503858	
7439-92-1	Lead	< 0.0075		mg/l	0.0075	0.0020	1			02-Mar-15			
7440-36-0	Antimony	< 0.0060		mg/l	0.0060	0.0025	1						
7782-49-2	Selenium	< 0.0150		mg/l	0.0150	0.0036	1			03-Mar-15			
7440-28-0	Thallium	< 0.0050		mg/l	0.0050	0.0016	1			02-Mar-15			
7440-66-6	Zinc	**0.0474**		mg/l	0.0050	0.0006	1						
Soluble Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00009	1	EPA 245.1/7470A	02-Mar-15	02-Mar-15	YR	1503859	X
General Chemistry Parameters													
16065-83-1	Trivalent Chromium	**0.0293**		mg/l	0.0100	0.0053	1	Calculation	02-Mar-15	02-Mar-15	edt	1503856	
	Flashpoint	**>150**		°F			1	SW846 1010A	27-Mar-15	27-Mar-15	BD	1505564	
7782-50-5	Total Residual Chlorine	< 0.200	R01,CIHT	mg/l	0.200	0.056	1	SM4500-Cl-G	27-Feb-15 17:30	27-Feb-15 17:50	CAA/T	1503839	X
16887-00-6	Chloride	**508**	D, GS1	mg/l	20.0	5.82	20	EPA 300.0	02-Mar-15	03-Mar-15	DJB	1503912	X
18540-29-9	Hexavalent Chromium	< 0.050	R01,LIV	mg/l	0.050	0.021	1	SM3500-Cr-B/7196A	27-Feb-15 17:30	27-Feb-15 18:02	CAA/T	1503840	
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	03-Mar-15	03-Mar-15	RLT	1503940	X
	pH	**7.70**	pH	pH Units			1	ASTM D 1293-99B	26-Mar-15 18:10	26-Mar-15 19:05	TN	1505476	X
	Total Suspended Solids	**1,960**	LIV	mg/l	10.0	4.3	1	SM2540D	02-Mar-15	03-Mar-15	BD	1503877	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-2	CFI Southbridge	Ground Water	27-Feb-15 14:10	27-Feb-15
SC03809-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.7	1	SW846 8260C	02-Mar-15	02-Mar-15	GMA	1503861	
67-64-1	Acetone	< 10.0		µg/l	10.0	3.6	1						
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1						
71-43-2	Benzene	< 1.0		µg/l	1.0	0.3	1						
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.3	1						
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1						
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.4	1						
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.6	1						
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1						
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	3.1	1						
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.4	1						
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.4	1						
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.4	1						
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.7	1						
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.4	1						
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.3	1						
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.7	1						
67-66-3	Chloroform	1.9		µg/l	1.0	0.5	1						
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.5	1						
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.4	1						
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1						
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.5	1						
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.4	1						
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1						
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.4	1						
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.4	1						
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.4	1						
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.5	1						
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1						
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.3	1						
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.3	1						
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.5	1						
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.4	1						
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.5	1						
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.3	1						
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1						
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.3	1						
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.4	1						
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.4	1						
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.5	1						
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.4	1						
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1						
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	2.0	1						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-2	CFI Southbridge	Ground Water	27-Feb-15 14:10	27-Feb-15
SC03809-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	02-Mar-15	02-Mar-15	GMA	1503861	
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.5	1						
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.4	1						
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	2.5	1						
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.5	1						
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.5	1						
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.4	1						
100-42-5	Styrene	< 1.0		µg/l	1.0	0.4	1						
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.4	1						
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.5	1						
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1						
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1						
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.8	1						
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1						
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.6	1						
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.4	1						
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.3	1						
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1						
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.8	1						
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.3	1						
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.3	1						
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1						
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	1.0	1						
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1						
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.4	1						
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.8	1						
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.5	1						
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1						
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.4	1						
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.3	1						
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	8.9	1						
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	14.6	1						
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.0	1						
64-17-5	Ethanol	< 400		µg/l	400	80.8	1						
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*88*			*70-130 %*								
2037-26-5	*Toluene-d8*	*101*			*70-130 %*								
17060-07-0	*1,2-Dichloroethane-d4*	*105*			*70-130 %*								
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*								
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 5.10		µg/l	5.10	1.29	1	SW846 8270D	02-Mar-15	02-Mar-15	ML	1503878	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-2	CFI Southbridge	Ground Water	27-Feb-15 14:10	27-Feb-15
SC03809-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
208-96-8	Acenaphthylene	< 5.10		µg/l	5.10	1.37	1	SW846 8270D	02-Mar-15	02-Mar-15	ML	1503878	
62-53-3	Aniline	< 5.10		µg/l	5.10	1.67	1						
120-12-7	Anthracene	< 5.10		µg/l	5.10	1.43	1						
103-33-3	Azobenzene/Diphenyldiazene	< 5.10		µg/l	5.10	1.94	1						
92-87-5	Benzidine	< 5.10		µg/l	5.10	4.83	1						
56-55-3	Benzo (a) anthracene	< 5.10		µg/l	5.10	1.29	1						
50-32-8	Benzo (a) pyrene	< 5.10		µg/l	5.10	1.35	1						
205-99-2	Benzo (b) fluoranthene	< 5.10		µg/l	5.10	1.68	1						
191-24-2	Benzo (g,h,i) perylene	< 5.10		µg/l	5.10	1.52	1						
207-08-9	Benzo (k) fluoranthene	< 5.10		µg/l	5.10	1.36	1						
65-85-0	Benzoic acid	< 5.10		µg/l	5.10	1.43	1						
100-51-6	Benzyl alcohol	< 5.10		µg/l	5.10	1.35	1						
111-91-1	Bis(2-chloroethoxy)methane	< 5.10		µg/l	5.10	1.18	1						
111-44-4	Bis(2-chloroethyl)ether	< 5.10		µg/l	5.10	1.20	1						
108-60-1	Bis(2-chloroisopropyl)ether	< 5.10		µg/l	5.10	1.26	1						
117-81-7	Bis(2-ethylhexyl)phthalate	< 5.10		µg/l	5.10	1.37	1						
101-55-3	4-Bromophenyl phenyl ether	< 5.10		µg/l	5.10	2.16	1						
85-68-7	Butyl benzyl phthalate	< 5.10		µg/l	5.10	1.34	1						
86-74-8	Carbazole	< 5.10		µg/l	5.10	1.87	1						
59-50-7	4-Chloro-3-methylphenol	< 5.10		µg/l	5.10	1.52	1						
106-47-8	4-Chloroaniline	< 5.10		µg/l	5.10	1.82	1						
91-58-7	2-Chloronaphthalene	< 5.10		µg/l	5.10	1.67	1						
95-57-8	2-Chlorophenol	< 5.10		µg/l	5.10	1.17	1						
7005-72-3	4-Chlorophenyl phenyl ether	< 5.10		µg/l	5.10	1.31	1						
218-01-9	Chrysene	< 5.10		µg/l	5.10	1.53	1						
53-70-3	Dibenzo (a,h) anthracene	< 5.10		µg/l	5.10	1.57	1						
132-64-9	Dibenzofuran	< 5.10		µg/l	5.10	1.34	1						
95-50-1	1,2-Dichlorobenzene	< 5.10		µg/l	5.10	1.33	1						
541-73-1	1,3-Dichlorobenzene	< 5.10		µg/l	5.10	1.16	1						
106-46-7	1,4-Dichlorobenzene	< 5.10		µg/l	5.10	1.16	1						
91-94-1	3,3´-Dichlorobenzidine	< 5.10		µg/l	5.10	1.23	1						
120-83-2	2,4-Dichlorophenol	< 5.10		µg/l	5.10	1.17	1						
84-66-2	Diethyl phthalate	< 5.10		µg/l	5.10	1.31	1						
131-11-3	Dimethyl phthalate	< 5.10		µg/l	5.10	1.40	1						
105-67-9	2,4-Dimethylphenol	< 5.10		µg/l	5.10	1.10	1						
84-74-2	Di-n-butyl phthalate	< 5.10		µg/l	5.10	1.61	1						
534-52-1	4,6-Dinitro-2-methylphenol	< 5.10		µg/l	5.10	2.06	1						
51-28-5	2,4-Dinitrophenol	< 5.10		µg/l	5.10	1.98	1						
121-14-2	2,4-Dinitrotoluene	< 5.10		µg/l	5.10	1.73	1						
606-20-2	2,6-Dinitrotoluene	< 5.10		µg/l	5.10	1.40	1						
117-84-0	Di-n-octyl phthalate	< 5.10		µg/l	5.10	1.36	1						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-2	CFI Southbridge	Ground Water	27-Feb-15 14:10	27-Feb-15
SC03809-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3510C													
206-44-0	Fluoranthene	< 5.10		µg/l	5.10	1.59	1	SW846 8270D	02-Mar-15	02-Mar-15	ML	1503878	
86-73-7	Fluorene	< 5.10		µg/l	5.10	1.38	1						
118-74-1	Hexachlorobenzene	< 5.10		µg/l	5.10	1.39	1						
87-68-3	Hexachlorobutadiene	< 5.10		µg/l	5.10	1.27	1						
77-47-4	Hexachlorocyclopentadiene	< 5.10		µg/l	5.10	1.63	1						
67-72-1	Hexachloroethane	< 5.10		µg/l	5.10	1.12	1						
193-39-5	Indeno (1,2,3-cd) pyrene	< 5.10		µg/l	5.10	1.78	1						
78-59-1	Isophorone	< 5.10		µg/l	5.10	1.18	1						
91-57-6	2-Methylnaphthalene	< 5.10		µg/l	5.10	1.46	1						
95-48-7	2-Methylphenol	< 5.10		µg/l	5.10	1.43	1						
108-39-4, 106-44-5	3 & 4-Methylphenol	< 10.2		µg/l	10.2	1.28	1						
91-20-3	Naphthalene	< 5.10		µg/l	5.10	1.19	1						
88-74-4	2-Nitroaniline	< 5.10		µg/l	5.10	1.79	1						
99-09-2	3-Nitroaniline	< 5.10		µg/l	5.10	2.29	1						
100-01-6	4-Nitroaniline	< 20.4		µg/l	20.4	2.22	1						
98-95-3	Nitrobenzene	< 5.10		µg/l	5.10	1.85	1						
88-75-5	2-Nitrophenol	< 5.10		µg/l	5.10	1.05	1						
100-02-7	4-Nitrophenol	< 20.4		µg/l	20.4	2.30	1						
62-75-9	N-Nitrosodimethylamine	< 5.10		µg/l	5.10	1.14	1						
621-64-7	N-Nitrosodi-n-propylamine	< 5.10		µg/l	5.10	1.22	1						
86-30-6	N-Nitrosodiphenylamine	< 5.10		µg/l	5.10	2.42	1						
87-86-5	Pentachlorophenol	< 20.4		µg/l	20.4	2.42	1						
85-01-8	Phenanthrene	< 5.10		µg/l	5.10	1.38	1						
108-95-2	Phenol	< 5.10		µg/l	5.10	1.41	1						
129-00-0	Pyrene	< 5.10		µg/l	5.10	2.74	1						
110-86-1	Pyridine	< 5.10		µg/l	5.10	1.86	1						
120-82-1	1,2,4-Trichlorobenzene	< 5.10		µg/l	5.10	1.11	1						
90-12-0	1-Methylnaphthalene	< 5.10		µg/l	5.10	0.969	1						
95-95-4	2,4,5-Trichlorophenol	< 5.10		µg/l	5.10	2.12	1						
88-06-2	2,4,6-Trichlorophenol	< 5.10		µg/l	5.10	1.72	1						
82-68-8	Pentachloronitrobenzene	< 5.10		µg/l	5.10	1.51	1						
95-94-3	1,2,4,5-Tetrachlorobenzene	< 5.10		µg/l	5.10	1.58	1						
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*76*			*30-130 %*								
367-12-4	*2-Fluorophenol*	*50*			*15-110 %*								
4165-60-0	*Nitrobenzene-d5*	*78*			*30-130 %*								
4165-62-2	*Phenol-d5*	*33*			*15-110 %*								
1718-51-0	*Terphenyl-dl4*	*71*			*30-130 %*								
118-79-6	*2,4,6-Tribromophenol*	*89*			*15-110 %*								
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3510C			R02										
12674-11-2	Aroclor-1016	< 0.345		µg/l	0.345	0.197	1	SW846 8082A	27-Feb-15	02-Mar-15	IMR	1503770	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-2	CFI Southbridge	Ground Water	27-Feb-15 14:10	27-Feb-15
SC03809-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3510C			R02										
11104-28-2	Aroclor-1221	< 0.345		µg/l	0.345	0.186	1	SW846 8082A	27-Feb-15	02-Mar-15	IMR	1503770	
11141-16-5	Aroclor-1232	< 0.345		µg/l	0.345	0.216	1						
53469-21-9	Aroclor-1242	< 0.345		µg/l	0.345	0.134	1						
12672-29-6	Aroclor-1248	< 0.345		µg/l	0.345	0.195	1						
11097-69-1	Aroclor-1254	< 0.345		µg/l	0.345	0.129	1						
11096-82-5	Aroclor-1260	< 0.345		µg/l	0.345	0.107	1						
37324-23-5	Aroclor-1262	< 0.345		µg/l	0.345	0.169	1						
11100-14-4	Aroclor-1268	< 0.345		µg/l	0.345	0.234	1						
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*								
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*75*			*30-150 %*								
2051-24-3	*Decachlorobiphenyl (Sr)*	*45*			*30-150 %*								
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*55*			*30-150 %*								
Extractable Petroleum Hydrocarbons													
Fingerprinting by GC Prepared by method SW846 3510C													
8006-61-9	Gasoline	< 0.2		mg/l	0.2	0.1	1	SW846 8100Mod.	02-Mar-15	03-Mar-15	SEP	1503876	
68476-30-2	Fuel Oil #2	< 0.2		mg/l	0.2	0.08	1						
68476-31-3	Fuel Oil #4	< 0.2		mg/l	0.2	0.02	1						
68553-00-4	Fuel Oil #6	< 0.2		mg/l	0.2	0.1	1						
M09800000	Motor Oil	< 0.2		mg/l	0.2	0.1	1						
8032-32-4	Ligroin	< 0.2		mg/l	0.2	0.05	1						
J00100000	Aviation Fuel	< 0.2		mg/l	0.2	0.05	1						
	Hydraulic Oil	< 0.2		mg/l	0.2	0.02	1						
	Dielectric Fluid	< 0.2		mg/l	0.2	0.05	1						
	Unidentified	< 0.2		mg/l	0.2	0.05	1						
	Other Oil	< 0.2		mg/l	0.2	0.02	1						
	Total Petroleum Hydrocarbons	< 0.2		mg/l	0.2	0.02	1						
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*55*			*40-140 %*								
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			AAH	1503813	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0070	R06	mg/l	0.0070	0.0012	1	SW846 6010C	02-Mar-15	02-Mar-15	edt	1503856	
7440-38-2	Arsenic	**0.0207**		mg/l	0.0040	0.0027	1						
7440-41-7	Beryllium	**0.0036**		mg/l	0.0020	0.0001	1						
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0002	1						
7440-47-3	Chromium	**0.233**		mg/l	0.0050	0.0010	1						
7440-50-8	Copper	**0.117**		mg/l	0.0050	0.0035	1			03-Mar-15			
7439-89-6	Iron	**83.8**		mg/l	0.0150	0.0082	1						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-2	CFI Southbridge	Ground Water	27-Feb-15 14:10	27-Feb-15
SC03809-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7440-02-0	Nickel	**0.164**		mg/l	0.0050	0.0014	1	SW846 6010C	02-Mar-15	03-Mar-15	bjw	1503856	
7439-92-1	Lead	**0.0244**		mg/l	0.0075	0.0020	1			02-Mar-15			
7440-36-0	Antimony	< 0.0120	D, R01	mg/l	0.0120	0.0050	2			03-Mar-15			
7782-49-2	Selenium	< 0.0150		mg/l	0.0150	0.0036	1			03-Mar-15			
7440-28-0	Thallium	< 0.0050		mg/l	0.0050	0.0016	1						
7440-66-6	Zinc	**0.213**		mg/l	0.0050	0.0006	1			02-Mar-15			
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00009	1	EPA 245.1/7470A	02-Mar-15	02-Mar-15	YR	1503857	X
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**Field Filtered**		N/A			1	EPA 200.7/3005A/6010			AAH	1503838	
Soluble Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0070	R01	mg/l	0.0070	0.0012	1	SW846 6010C	02-Mar-15	02-Mar-15	edt	1503858	
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1						
7440-41-7	Beryllium	< 0.0020		mg/l	0.0020	0.0001	1						
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0002	1						
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1						
7440-50-8	Copper	< 0.0050		mg/l	0.0050	0.0035	1			03-Mar-15			
7439-89-6	Iron	< 0.0300		mg/l	0.0300	0.0163	1		26-Mar-15	27-Mar-15		1505433	
7440-02-0	Nickel	**0.0064**		mg/l	0.0050	0.0014	1		02-Mar-15	03-Mar-15		1503858	
7439-92-1	Lead	< 0.0075		mg/l	0.0075	0.0020	1			02-Mar-15			
7440-36-0	Antimony	< 0.0060		mg/l	0.0060	0.0025	1						
7782-49-2	Selenium	< 0.0150		mg/l	0.0150	0.0036	1			03-Mar-15			
7440-28-0	Thallium	< 0.0050		mg/l	0.0050	0.0016	1			02-Mar-15			
7440-66-6	Zinc	**0.0086**		mg/l	0.0050	0.0006	1						
Soluble Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00009	1	EPA 245.1/7470A	02-Mar-15	02-Mar-15	YR	1503859	X
General Chemistry Parameters													
16065-83-1	Trivalent Chromium	**0.233**		mg/l	0.0100	0.0053	1	Calculation	02-Mar-15	02-Mar-15	edt	1503856	
	Flashpoint	**>150**		°F			1	SW846 1010A	27-Mar-15	27-Mar-15	BD	1505564	
7782-50-5	Total Residual Chlorine	< 0.200	R01,CIHT	mg/l	0.200	0.056	1	SM4500-Cl-G	27-Feb-15 17:30	27-Feb-15 17:48	CAA/T	1503839	X
16887-00-6	Chloride	**1,270**	D, GS1	mg/l	50.0	14.6	50	EPA 300.0	02-Mar-15	03-Mar-15	DJB	1503912	X
18540-29-9	Hexavalent Chromium	< 0.050	R01,LIV	mg/l	0.050	0.021	1	SM3500-Cr-B/7196A	27-Feb-15 17:30	27-Feb-15 18:03	CAA/T	1503840	
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	03-Mar-15	03-Mar-15	RLT	1503940	X
	pH	**7.70**	pH	pH Units			1	ASTM D 1293-99B	26-Mar-15 18:10	26-Mar-15 19:05	TN	1505476	X
	Total Suspended Solids	**1,610**	LIV	mg/l	20.0	8.6	1	SM2540D	02-Mar-15	03-Mar-15	BD	1503877	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	CFI Southbridge	Ground Water	27-Feb-15 00:00	27-Feb-15
SC03809-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.7	1	SW846 8260C	02-Mar-15	02-Mar-15	GMA	1503861	
67-64-1	Acetone	< 10.0		µg/l	10.0	3.6	1						
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1						
71-43-2	Benzene	< 1.0		µg/l	1.0	0.3	1						
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.3	1						
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1						
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.4	1						
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.6	1						
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1						
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	3.1	1						
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.4	1						
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.4	1						
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.4	1						
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.7	1						
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.4	1						
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.3	1						
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.7	1						
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.5	1						
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.5	1						
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.4	1						
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1						
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.5	1						
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.4	1						
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1						
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.4	1						
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.4	1						
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.4	1						
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.5	1						
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1						
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.3	1						
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.3	1						
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.5	1						
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.4	1						
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.5	1						
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.3	1						
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1						
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.3	1						
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.4	1						
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.4	1						
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.5	1						
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.4	1						
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1						
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	2.0	1						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	CFI Southbridge	Ground Water	27-Feb-15 00:00	27-Feb-15
SC03809-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	02-Mar-15	02-Mar-15	GMA	1503861	
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.5	1						
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.4	1						
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	2.5	1						
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.5	1						
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.5	1						
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.4	1						
100-42-5	Styrene	< 1.0		µg/l	1.0	0.4	1						
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.4	1						
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.5	1						
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1						
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1						
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.8	1						
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1						
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.6	1						
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.4	1						
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.3	1						
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1						
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.8	1						
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.3	1						
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.3	1						
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1						
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	1.0	1						
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1						
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.4	1						
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.8	1						
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.5	1						
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1						
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.4	1						
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.3	1						
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	8.9	1						
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	14.6	1						
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.0	1						
64-17-5	Ethanol	< 400		µg/l	400	80.8	1						

Surrogate recoveries:

460-00-4	*4-Bromofluorobenzene*	*87*	*70-130 %*
2037-26-5	*Toluene-d8*	*101*	*70-130 %*
17060-07-0	*1,2-Dichloroethane-d4*	*108*	*70-130 %*
1868-53-7	*Dibromofluoromethane*	*101*	*70-130 %*

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503861 - SW846 5030 Water MS										
Blank (1503861-BLK1)						Prepared & Analyzed: 02-Mar-15				
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.5		µg/l	0.5						
Benzene	< 1.0		µg/l	1.0						
Bromobenzene	< 1.0		µg/l	1.0						
Bromochloromethane	< 1.0		µg/l	1.0						
Bromodichloromethane	< 0.5		µg/l	0.5						
Bromoform	< 1.0		µg/l	1.0						
Bromomethane	< 2.0		µg/l	2.0						
2-Butanone (MEK)	< 10.0		µg/l	10.0						
n-Butylbenzene	< 1.0		µg/l	1.0						
sec-Butylbenzene	< 1.0		µg/l	1.0						
tert-Butylbenzene	< 1.0		µg/l	1.0						
Carbon disulfide	< 2.0		µg/l	2.0						
Carbon tetrachloride	< 1.0		µg/l	1.0						
Chlorobenzene	< 1.0		µg/l	1.0						
Chloroethane	< 2.0		µg/l	2.0						
Chloroform	< 1.0		µg/l	1.0						
Chloromethane	< 2.0		µg/l	2.0						
2-Chlorotoluene	< 1.0		µg/l	1.0						
4-Chlorotoluene	< 1.0		µg/l	1.0						
1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0						
Dibromochloromethane	< 0.5		µg/l	0.5						
1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5						
Dibromomethane	< 1.0		µg/l	1.0						
1,2-Dichlorobenzene	< 1.0		µg/l	1.0						
1,3-Dichlorobenzene	< 1.0		µg/l	1.0						
1,4-Dichlorobenzene	< 1.0		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0						
1,1-Dichloroethane	< 1.0		µg/l	1.0						
1,2-Dichloroethane	< 1.0		µg/l	1.0						
1,1-Dichloroethene	< 1.0		µg/l	1.0						
cis-1,2-Dichloroethene	< 1.0		µg/l	1.0						
trans-1,2-Dichloroethene	< 1.0		µg/l	1.0						
1,2-Dichloropropane	< 1.0		µg/l	1.0						
1,3-Dichloropropane	< 1.0		µg/l	1.0						
2,2-Dichloropropane	< 1.0		µg/l	1.0						
1,1-Dichloropropene	< 1.0		µg/l	1.0						
cis-1,3-Dichloropropene	< 0.5		µg/l	0.5						
trans-1,3-Dichloropropene	< 0.5		µg/l	0.5						
Ethylbenzene	< 1.0		µg/l	1.0						
Hexachlorobutadiene	< 0.5		µg/l	0.5						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.0		µg/l	1.0						
4-Isopropyltoluene	< 1.0		µg/l	1.0						
Methyl tert-butyl ether	< 1.0		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.0		µg/l	2.0						
Naphthalene	< 1.0		µg/l	1.0						
n-Propylbenzene	< 1.0		µg/l	1.0						
Styrene	< 1.0		µg/l	1.0						
1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503861 - SW846 5030 Water MS										
Blank (1503861-BLK1)					Prepared & Analyzed: 02-Mar-15					
1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5						
Tetrachloroethene	< 1.0		µg/l	1.0						
Toluene	< 1.0		µg/l	1.0						
1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0						
1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0						
1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0						
1,1,1-Trichloroethane	< 1.0		µg/l	1.0						
1,1,2-Trichloroethane	< 1.0		µg/l	1.0						
Trichloroethene	< 1.0		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0						
1,2,3-Trichloropropane	< 1.0		µg/l	1.0						
1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0						
1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0						
Vinyl chloride	< 1.0		µg/l	1.0						
m,p-Xylene	< 2.0		µg/l	2.0						
o-Xylene	< 1.0		µg/l	1.0						
Tetrahydrofuran	< 2.0		µg/l	2.0						
Ethyl ether	< 1.0		µg/l	1.0						
Tert-amyl methyl ether	< 1.0		µg/l	1.0						
Ethyl tert-butyl ether	< 1.0		µg/l	1.0						
Di-isopropyl ether	< 1.0		µg/l	1.0						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*44.1*		µg/l		*50.0*		*88*	*70-130*		
Surrogate: Toluene-d8	*50.0*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*52.8*		µg/l		*50.0*		*106*	*70-130*		
Surrogate: Dibromofluoromethane	*49.5*		µg/l		*50.0*		*99*	*70-130*		
LCS (1503861-BS1)					Prepared & Analyzed: 02-Mar-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.6**		µg/l		20.0		103	70-130		
Acetone	**17.5**		µg/l		20.0		88	70-130		
Acrylonitrile	**17.9**		µg/l		20.0		90	70-130		
Benzene	**19.9**		µg/l		20.0		99	70-130		
Bromobenzene	**18.4**		µg/l		20.0		92	70-130		
Bromochloromethane	**17.6**		µg/l		20.0		88	70-130		
Bromodichloromethane	**18.5**		µg/l		20.0		93	70-130		
Bromoform	**20.8**		µg/l		20.0		104	70-130		
Bromomethane	**14.6**		µg/l		20.0		73	70-130		
2-Butanone (MEK)	**18.9**		µg/l		20.0		95	70-130		
n-Butylbenzene	**19.1**		µg/l		20.0		96	70-130		
sec-Butylbenzene	**20.2**		µg/l		20.0		101	70-130		
tert-Butylbenzene	**20.8**		µg/l		20.0		104	70-130		
Carbon disulfide	**19.8**		µg/l		20.0		99	70-130		
Carbon tetrachloride	**20.5**		µg/l		20.0		102	70-130		
Chlorobenzene	**19.4**		µg/l		20.0		97	70-130		
Chloroethane	**19.4**		µg/l		20.0		97	70-130		
Chloroform	**17.6**		µg/l		20.0		88	70-130		
Chloromethane	**18.2**		µg/l		20.0		91	70-130		
2-Chlorotoluene	**21.5**		µg/l		20.0		107	70-130		
4-Chlorotoluene	**20.7**		µg/l		20.0		103	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503861 - SW846 5030 Water MS										
LCS (1503861-BS1)					Prepared & Analyzed: 02-Mar-15					
1,2-Dibromo-3-chloropropane	**19.4**		µg/l		20.0		97	70-130		
Dibromochloromethane	**19.4**		µg/l		20.0		97	70-130		
1,2-Dibromoethane (EDB)	**18.9**		µg/l		20.0		94	70-130		
Dibromomethane	**17.8**		µg/l		20.0		89	70-130		
1,2-Dichlorobenzene	**19.7**		µg/l		20.0		98	70-130		
1,3-Dichlorobenzene	**20.0**		µg/l		20.0		100	70-130		
1,4-Dichlorobenzene	**18.3**		µg/l		20.0		92	70-130		
Dichlorodifluoromethane (Freon12)	**21.6**		µg/l		20.0		108	70-130		
1,1-Dichloroethane	**19.1**		µg/l		20.0		96	70-130		
1,2-Dichloroethane	**18.5**		µg/l		20.0		93	70-130		
1,1-Dichloroethene	**23.0**		µg/l		20.0		115	70-130		
cis-1,2-Dichloroethene	**19.0**		µg/l		20.0		95	70-130		
trans-1,2-Dichloroethene	**19.6**		µg/l		20.0		98	70-130		
1,2-Dichloropropane	**18.0**		µg/l		20.0		90	70-130		
1,3-Dichloropropane	**18.8**		µg/l		20.0		94	70-130		
2,2-Dichloropropane	**24.4**		µg/l		20.0		122	70-130		
1,1-Dichloropropene	**20.0**		µg/l		20.0		100	70-130		
cis-1,3-Dichloropropene	**19.3**		µg/l		20.0		96	70-130		
trans-1,3-Dichloropropene	**20.2**		µg/l		20.0		101	70-130		
Ethylbenzene	**20.6**		µg/l		20.0		103	70-130		
Hexachlorobutadiene	**18.3**		µg/l		20.0		92	70-130		
2-Hexanone (MBK)	**17.5**		µg/l		20.0		88	70-130		
Isopropylbenzene	**20.4**		µg/l		20.0		102	70-130		
4-Isopropyltoluene	**20.4**		µg/l		20.0		102	70-130		
Methyl tert-butyl ether	**19.2**		µg/l		20.0		96	70-130		
4-Methyl-2-pentanone (MIBK)	**19.0**		µg/l		20.0		95	70-130		
Methylene chloride	**17.9**		µg/l		20.0		89	70-130		
Naphthalene	**17.6**		µg/l		20.0		88	70-130		
n-Propylbenzene	**19.5**		µg/l		20.0		98	70-130		
Styrene	**21.3**		µg/l		20.0		107	70-130		
1,1,1,2-Tetrachloroethane	**20.9**		µg/l		20.0		105	70-130		
1,1,2,2-Tetrachloroethane	**18.3**		µg/l		20.0		91	70-130		
Tetrachloroethene	**20.8**		µg/l		20.0		104	70-130		
Toluene	**19.4**		µg/l		20.0		97	70-130		
1,2,3-Trichlorobenzene	**18.7**		µg/l		20.0		94	70-130		
1,2,4-Trichlorobenzene	**17.9**		µg/l		20.0		89	70-130		
1,3,5-Trichlorobenzene	**19.0**		µg/l		20.0		95	70-130		
1,1,1-Trichloroethane	**22.7**		µg/l		20.0		114	70-130		
1,1,2-Trichloroethane	**17.9**		µg/l		20.0		90	70-130		
Trichloroethene	**19.8**		µg/l		20.0		99	70-130		
Trichlorofluoromethane (Freon 11)	**21.0**		µg/l		20.0		105	70-130		
1,2,3-Trichloropropane	**18.6**		µg/l		20.0		93	70-130		
1,2,4-Trimethylbenzene	**19.7**		µg/l		20.0		98	70-130		
1,3,5-Trimethylbenzene	**19.8**		µg/l		20.0		99	70-130		
Vinyl chloride	**21.9**		µg/l		20.0		110	70-130		
m,p-Xylene	**21.2**		µg/l		20.0		106	70-130		
o-Xylene	**21.8**		µg/l		20.0		109	70-130		
Tetrahydrofuran	**18.6**		µg/l		20.0		93	70-130		
Ethyl ether	**18.9**		µg/l		20.0		94	70-130		
Tert-amyl methyl ether	**17.4**		µg/l		20.0		87	70-130		
Ethyl tert-butyl ether	**19.5**		µg/l		20.0		98	70-130		
Di-isopropyl ether	**19.7**		µg/l		20.0		98	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503861 - SW846 5030 Water MS										
LCS (1503861-BS1)					Prepared & Analyzed: 02-Mar-15					
Tert-Butanol / butyl alcohol	**209**		µg/l		200		104	70-130		
1,4-Dioxane	**185**		µg/l		200		93	70-130		
trans-1,4-Dichloro-2-butene	**19.6**		µg/l		20.0		98	70-130		
Ethanol	**383**		µg/l		400		96	70-130		
Surrogate: 4-Bromofluorobenzene	*51.9*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*48.9*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.0*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: Dibromofluoromethane	*47.0*		µg/l		*50.0*		*94*	*70-130*		
LCS Dup (1503861-BSD1)					Prepared & Analyzed: 02-Mar-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.8**		µg/l		20.0		104	70-130	0.9	20
Acetone	**17.1**		µg/l		20.0		86	70-130	3	20
Acrylonitrile	**17.8**		µg/l		20.0		89	70-130	0.4	20
Benzene	**19.5**		µg/l		20.0		98	70-130	2	20
Bromobenzene	**18.3**		µg/l		20.0		91	70-130	1	20
Bromochloromethane	**18.2**		µg/l		20.0		91	70-130	3	20
Bromodichloromethane	**18.6**		µg/l		20.0		93	70-130	0.2	20
Bromoform	**20.8**		µg/l		20.0		104	70-130	0.1	20
Bromomethane	**15.5**		µg/l		20.0		78	70-130	6	20
2-Butanone (MEK)	**19.8**		µg/l		20.0		99	70-130	4	20
n-Butylbenzene	**18.2**		µg/l		20.0		91	70-130	5	20
sec-Butylbenzene	**19.9**		µg/l		20.0		99	70-130	2	20
tert-Butylbenzene	**19.8**		µg/l		20.0		99	70-130	5	20
Carbon disulfide	**20.2**		µg/l		20.0		101	70-130	2	20
Carbon tetrachloride	**19.7**		µg/l		20.0		98	70-130	4	20
Chlorobenzene	**19.0**		µg/l		20.0		95	70-130	2	20
Chloroethane	**18.6**		µg/l		20.0		93	70-130	4	20
Chloroform	**17.7**		µg/l		20.0		88	70-130	0.06	20
Chloromethane	**16.7**		µg/l		20.0		84	70-130	8	20
2-Chlorotoluene	**20.6**		µg/l		20.0		103	70-130	4	20
4-Chlorotoluene	**19.7**		µg/l		20.0		99	70-130	5	20
1,2-Dibromo-3-chloropropane	**19.4**		µg/l		20.0		97	70-130	0.4	20
Dibromochloromethane	**18.8**		µg/l		20.0		94	70-130	3	20
1,2-Dibromoethane (EDB)	**19.0**		µg/l		20.0		95	70-130	0.7	20
Dibromomethane	**18.2**		µg/l		20.0		91	70-130	2	20
1,2-Dichlorobenzene	**18.9**		µg/l		20.0		94	70-130	4	20
1,3-Dichlorobenzene	**19.4**		µg/l		20.0		97	70-130	3	20
1,4-Dichlorobenzene	**18.0**		µg/l		20.0		90	70-130	2	20
Dichlorodifluoromethane (Freon12)	**21.1**		µg/l		20.0		105	70-130	2	20
1,1-Dichloroethane	**19.0**		µg/l		20.0		95	70-130	0.7	20
1,2-Dichloroethane	**18.4**		µg/l		20.0		92	70-130	0.6	20
1,1-Dichloroethene	**21.6**		µg/l		20.0		108	70-130	6	20
cis-1,2-Dichloroethene	**18.9**		µg/l		20.0		94	70-130	0.9	20
trans-1,2-Dichloroethene	**18.3**		µg/l		20.0		92	70-130	7	20
1,2-Dichloropropane	**18.0**		µg/l		20.0		90	70-130	0.06	20
1,3-Dichloropropane	**18.6**		µg/l		20.0		93	70-130	1	20
2,2-Dichloropropane	**23.7**		µg/l		20.0		119	70-130	3	20
1,1-Dichloropropene	**20.0**		µg/l		20.0		100	70-130	0.2	20
cis-1,3-Dichloropropene	**19.4**		µg/l		20.0		97	70-130	0.7	20
trans-1,3-Dichloropropene	**19.9**		µg/l		20.0		100	70-130	1	20
Ethylbenzene	**20.3**		µg/l		20.0		101	70-130	2	20
Hexachlorobutadiene	**19.0**		µg/l		20.0		95	70-130	4	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503861 - SW846 5030 Water MS										
LCS Dup (1503861-BSD1)					Prepared & Analyzed: 02-Mar-15					
2-Hexanone (MBK)	**17.2**		µg/l		20.0		86	70-130	2	20
Isopropylbenzene	**19.8**		µg/l		20.0		99	70-130	3	20
4-Isopropyltoluene	**19.7**		µg/l		20.0		98	70-130	4	20
Methyl tert-butyl ether	**19.5**		µg/l		20.0		97	70-130	2	20
4-Methyl-2-pentanone (MIBK)	**19.0**		µg/l		20.0		95	70-130	0.3	20
Methylene chloride	**17.6**		µg/l		20.0		88	70-130	2	20
Naphthalene	**16.4**		µg/l		20.0		82	70-130	7	20
n-Propylbenzene	**18.7**		µg/l		20.0		94	70-130	4	20
Styrene	**20.8**		µg/l		20.0		104	70-130	2	20
1,1,1,2-Tetrachloroethane	**19.8**		µg/l		20.0		99	70-130	6	20
1,1,2,2-Tetrachloroethane	**18.3**		µg/l		20.0		91	70-130	0.2	20
Tetrachloroethene	**20.5**		µg/l		20.0		103	70-130	1	20
Toluene	**18.8**		µg/l		20.0		94	70-130	3	20
1,2,3-Trichlorobenzene	**17.4**		µg/l		20.0		87	70-130	7	20
1,2,4-Trichlorobenzene	**16.4**		µg/l		20.0		82	70-130	9	20
1,3,5-Trichlorobenzene	**18.1**		µg/l		20.0		90	70-130	5	20
1,1,1-Trichloroethane	**22.3**		µg/l		20.0		112	70-130	2	20
1,1,2-Trichloroethane	**17.7**		µg/l		20.0		88	70-130	1	20
Trichloroethene	**18.8**		µg/l		20.0		94	70-130	6	20
Trichlorofluoromethane (Freon 11)	**20.4**		µg/l		20.0		102	70-130	3	20
1,2,3-Trichloropropane	**19.3**		µg/l		20.0		96	70-130	4	20
1,2,4-Trimethylbenzene	**18.8**		µg/l		20.0		94	70-130	4	20
1,3,5-Trimethylbenzene	**19.4**		µg/l		20.0		97	70-130	2	20
Vinyl chloride	**20.3**		µg/l		20.0		102	70-130	7	20
m,p-Xylene	**21.1**		µg/l		20.0		106	70-130	0.7	20
o-Xylene	**21.0**		µg/l		20.0		105	70-130	4	20
Tetrahydrofuran	**19.7**		µg/l		20.0		98	70-130	6	20
Ethyl ether	**18.6**		µg/l		20.0		93	70-130	1	20
Tert-amyl methyl ether	**18.1**		µg/l		20.0		90	70-130	4	20
Ethyl tert-butyl ether	**19.4**		µg/l		20.0		97	70-130	0.3	20
Di-isopropyl ether	**19.3**		µg/l		20.0		96	70-130	2	20
Tert-Butanol / butyl alcohol	**202**		µg/l		200		101	70-130	3	20
1,4-Dioxane	**181**		µg/l		200		91	70-130	2	20
trans-1,4-Dichloro-2-butene	**19.8**		µg/l		20.0		99	70-130	1	20
Ethanol	**391**		µg/l		400		98	70-130	2	20
Surrogate: 4-Bromofluorobenzene	*50.4*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*49.1*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.8*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*46.8*		µg/l		*50.0*		*94*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503878 - SW846 3510C										
Blank (1503878-BLK1)					Prepared & Analyzed: 02-Mar-15					
Acenaphthene	< 5.00		µg/l	5.00						
Acenaphthylene	< 5.00		µg/l	5.00						
Aniline	< 5.00		µg/l	5.00						
Anthracene	< 5.00		µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00		µg/l	5.00						
Benzidine	< 5.00		µg/l	5.00						
Benzo (a) anthracene	< 5.00		µg/l	5.00						
Benzo (a) pyrene	< 5.00		µg/l	5.00						
Benzo (b) fluoranthene	< 5.00		µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00		µg/l	5.00						
Benzo (k) fluoranthene	< 5.00		µg/l	5.00						
Benzoic acid	< 5.00		µg/l	5.00						
Benzyl alcohol	< 5.00		µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00		µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00		µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00		µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00		µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00		µg/l	5.00						
Butyl benzyl phthalate	< 5.00		µg/l	5.00						
Carbazole	< 5.00		µg/l	5.00						
4-Chloro-3-methylphenol	< 5.00		µg/l	5.00						
4-Chloroaniline	< 5.00		µg/l	5.00						
2-Chloronaphthalene	< 5.00		µg/l	5.00						
2-Chlorophenol	< 5.00		µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00		µg/l	5.00						
Chrysene	< 5.00		µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00		µg/l	5.00						
Dibenzofuran	< 5.00		µg/l	5.00						
1,2-Dichlorobenzene	< 5.00		µg/l	5.00						
1,3-Dichlorobenzene	< 5.00		µg/l	5.00						
1,4-Dichlorobenzene	< 5.00		µg/l	5.00						
3,3´-Dichlorobenzidine	< 5.00		µg/l	5.00						
2,4-Dichlorophenol	< 5.00		µg/l	5.00						
Diethyl phthalate	< 5.00		µg/l	5.00						
Dimethyl phthalate	< 5.00		µg/l	5.00						
2,4-Dimethylphenol	< 5.00		µg/l	5.00						
Di-n-butyl phthalate	< 5.00		µg/l	5.00						
4,6-Dinitro-2-methylphenol	< 5.00		µg/l	5.00						
2,4-Dinitrophenol	< 5.00		µg/l	5.00						
2,4-Dinitrotoluene	< 5.00		µg/l	5.00						
2,6-Dinitrotoluene	< 5.00		µg/l	5.00						
Di-n-octyl phthalate	< 5.00		µg/l	5.00						
Fluoranthene	< 5.00		µg/l	5.00						
Fluorene	< 5.00		µg/l	5.00						
Hexachlorobenzene	< 5.00		µg/l	5.00						
Hexachlorobutadiene	< 5.00		µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00		µg/l	5.00						
Hexachloroethane	< 5.00		µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00		µg/l	5.00						
Isophorone	< 5.00		µg/l	5.00						
2-Methylnaphthalene	< 5.00		µg/l	5.00						
2-Methylphenol	< 5.00		µg/l	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503878 - SW846 3510C										
Blank (1503878-BLK1)					Prepared & Analyzed: 02-Mar-15					
3 & 4-Methylphenol	< 10.0		µg/l	10.0						
Naphthalene	< 5.00		µg/l	5.00						
2-Nitroaniline	< 5.00		µg/l	5.00						
3-Nitroaniline	< 5.00		µg/l	5.00						
4-Nitroaniline	< 20.0		µg/l	20.0						
Nitrobenzene	< 5.00		µg/l	5.00						
2-Nitrophenol	< 5.00		µg/l	5.00						
4-Nitrophenol	< 20.0		µg/l	20.0						
N-Nitrosodimethylamine	< 5.00		µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00		µg/l	5.00						
N-Nitrosodiphenylamine	< 5.00		µg/l	5.00						
Pentachlorophenol	< 20.0		µg/l	20.0						
Phenanthrene	< 5.00		µg/l	5.00						
Phenol	< 5.00		µg/l	5.00						
Pyrene	< 5.00		µg/l	5.00						
Pyridine	< 5.00		µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00		µg/l	5.00						
1-Methylnaphthalene	< 5.00		µg/l	5.00						
2,4,5-Trichlorophenol	< 5.00		µg/l	5.00						
2,4,6-Trichlorophenol	< 5.00		µg/l	5.00						
Pentachloronitrobenzene	< 5.00		µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00		µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	*18.9*		µg/l		*50.0*		*38*	*30-130*		
Surrogate: 2-Fluorophenol	*13.0*		µg/l		*50.0*		*26*	*15-110*		
Surrogate: Nitrobenzene-d5	*19.5*		µg/l		*50.0*		*39*	*30-130*		
Surrogate: Phenol-d5	*8.63*		µg/l		*50.0*		*17*	*15-110*		
Surrogate: Terphenyl-dl4	*22.3*		µg/l		*50.0*		*45*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*20.7*		µg/l		*50.0*		*41*	*15-110*		
LCS (1503878-BS1)					Prepared & Analyzed: 02-Mar-15					
Acenaphthene	**35.4**		µg/l	5.00	50.0		71	40-140		
Acenaphthylene	**37.2**		µg/l	5.00	50.0		74	40-140		
Aniline	**29.8**		µg/l	5.00	50.0		60	40-140		
Anthracene	**38.2**		µg/l	5.00	50.0		76	40-140		
Azobenzene/Diphenyldiazene	**38.6**		µg/l	5.00	50.0		77	40-140		
Benzidine	**32.2**		µg/l	5.00	50.0		64	40-140		
Benzo (a) anthracene	**40.7**		µg/l	5.00	50.0		81	40-140		
Benzo (a) pyrene	**40.9**		µg/l	5.00	50.0		82	40-140		
Benzo (b) fluoranthene	**39.2**		µg/l	5.00	50.0		78	40-140		
Benzo (g,h,i) perylene	**37.6**		µg/l	5.00	50.0		75	40-140		
Benzo (k) fluoranthene	**41.0**		µg/l	5.00	50.0		82	40-140		
Benzoic acid	**20.4**		µg/l	5.00	50.0		41	30-130		
Benzyl alcohol	**31.4**		µg/l	5.00	50.0		63	40-140		
Bis(2-chloroethoxy)methane	**33.7**		µg/l	5.00	50.0		67	40-140		
Bis(2-chloroethyl)ether	**30.6**		µg/l	5.00	50.0		61	40-140		
Bis(2-chloroisopropyl)ether	**33.3**		µg/l	5.00	50.0		67	40-140		
Bis(2-ethylhexyl)phthalate	**44.9**		µg/l	5.00	50.0		90	40-140		
4-Bromophenyl phenyl ether	**37.9**		µg/l	5.00	50.0		76	40-140		
Butyl benzyl phthalate	**44.1**		µg/l	5.00	50.0		88	40-140		
Carbazole	**41.7**		µg/l	5.00	50.0		83	40-140		
4-Chloro-3-methylphenol	**37.6**		µg/l	5.00	50.0		75	30-130		
4-Chloroaniline	**32.4**		µg/l	5.00	50.0		65	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503878 - SW846 3510C										
LCS (1503878-BS1)					Prepared & Analyzed: 02-Mar-15					
2-Chloronaphthalene	**35.8**		µg/l	5.00	50.0		72	40-140		
2-Chlorophenol	**32.3**		µg/l	5.00	50.0		65	30-130		
4-Chlorophenyl phenyl ether	**38.4**		µg/l	5.00	50.0		77	40-140		
Chrysene	**42.4**		µg/l	5.00	50.0		85	40-140		
Dibenzo (a,h) anthracene	**39.7**		µg/l	5.00	50.0		79	40-140		
Dibenzofuran	**37.5**		µg/l	5.00	50.0		75	40-140		
1,2-Dichlorobenzene	**32.5**		µg/l	5.00	50.0		65	40-140		
1,3-Dichlorobenzene	**31.7**		µg/l	5.00	50.0		63	40-140		
1,4-Dichlorobenzene	**31.7**		µg/l	5.00	50.0		63	40-140		
3,3´-Dichlorobenzidine	**41.9**		µg/l	5.00	50.0		84	40-140		
2,4-Dichlorophenol	**35.8**		µg/l	5.00	50.0		72	30-130		
Diethyl phthalate	**40.6**		µg/l	5.00	50.0		81	40-140		
Dimethyl phthalate	**38.8**		µg/l	5.00	50.0		78	40-140		
2,4-Dimethylphenol	**33.6**		µg/l	5.00	50.0		67	30-130		
Di-n-butyl phthalate	**40.2**		µg/l	5.00	50.0		80	40-140		
4,6-Dinitro-2-methylphenol	**36.9**		µg/l	5.00	50.0		74	30-130		
2,4-Dinitrophenol	**34.5**		µg/l	5.00	50.0		69	30-130		
2,4-Dinitrotoluene	**41.4**		µg/l	5.00	50.0		83	40-140		
2,6-Dinitrotoluene	**41.1**		µg/l	5.00	50.0		82	40-140		
Di-n-octyl phthalate	**42.1**		µg/l	5.00	50.0		84	40-140		
Fluoranthene	**37.4**		µg/l	5.00	50.0		75	40-140		
Fluorene	**37.5**		µg/l	5.00	50.0		75	40-140		
Hexachlorobenzene	**38.1**		µg/l	5.00	50.0		76	40-140		
Hexachlorobutadiene	**30.2**		µg/l	5.00	50.0		60	40-140		
Hexachlorocyclopentadiene	**39.0**		µg/l	5.00	50.0		78	40-140		
Hexachloroethane	**31.3**		µg/l	5.00	50.0		63	40-140		
Indeno (1,2,3-cd) pyrene	**39.5**		µg/l	5.00	50.0		79	40-140		
Isophorone	**35.7**		µg/l	5.00	50.0		71	40-140		
2-Methylnaphthalene	**36.7**		µg/l	5.00	50.0		73	40-140		
2-Methylphenol	**31.6**		µg/l	5.00	50.0		63	30-130		
3 & 4-Methylphenol	**30.8**		µg/l	10.0	50.0		62	30-130		
Naphthalene	**33.1**		µg/l	5.00	50.0		66	40-140		
2-Nitroaniline	**39.5**		µg/l	5.00	50.0		79	40-140		
3-Nitroaniline	**40.9**		µg/l	5.00	50.0		82	40-140		
4-Nitroaniline	**49.1**		µg/l	20.0	50.0		98	40-140		
Nitrobenzene	**33.2**		µg/l	5.00	50.0		66	40-140		
2-Nitrophenol	**35.9**		µg/l	5.00	50.0		72	30-130		
4-Nitrophenol	**27.5**		µg/l	20.0	50.0		55	30-130		
N-Nitrosodimethylamine	**24.0**		µg/l	5.00	50.0		48	40-140		
N-Nitrosodi-n-propylamine	**36.8**		µg/l	5.00	50.0		74	40-140		
N-Nitrosodiphenylamine	**42.0**		µg/l	5.00	50.0		84	40-140		
Pentachlorophenol	**34.8**		µg/l	20.0	50.0		70	30-130		
Phenanthrene	**35.8**		µg/l	5.00	50.0		72	40-140		
Phenol	**16.7**		µg/l	5.00	50.0		33	30-130		
Pyrene	**42.4**		µg/l	5.00	50.0		85	40-140		
Pyridine	**18.8**	QC2	µg/l	5.00	50.0		38	40-140		
1,2,4-Trichlorobenzene	**32.4**		µg/l	5.00	50.0		65	40-140		
1-Methylnaphthalene	**35.5**		µg/l	5.00	50.0		71	40-140		
2,4,5-Trichlorophenol	**38.6**		µg/l	5.00	50.0		77	30-130		
2,4,6-Trichlorophenol	**36.1**		µg/l	5.00	50.0		72	30-130		
Pentachloronitrobenzene	**40.7**		µg/l	5.00	50.0		81	40-140		
1,2,4,5-Tetrachlorobenzene	**35.9**		µg/l	5.00	50.0		72	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503878 - SW846 3510C										
LCS (1503878-BS1)					Prepared & Analyzed: 02-Mar-15					
Surrogate: 2-Fluorobiphenyl	*31.3*		µg/l		*50.0*		*63*	*30-130*		
Surrogate: 2-Fluorophenol	*19.2*		µg/l		*50.0*		*38*	*15-110*		
Surrogate: Nitrobenzene-d5	*30.4*		µg/l		*50.0*		*61*	*30-130*		
Surrogate: Phenol-d5	*13.5*		µg/l		*50.0*		*27*	*15-110*		
Surrogate: Terphenyl-dl4	*37.5*		µg/l		*50.0*		*75*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*36.3*		µg/l		*50.0*		*73*	*15-110*		
LCS Dup (1503878-BSD1)					Prepared & Analyzed: 02-Mar-15					
Acenaphthene	**36.5**		µg/l	5.00	50.0		73	40-140	3	20
Acenaphthylene	**38.4**		µg/l	5.00	50.0		77	40-140	3	20
Aniline	**29.8**		µg/l	5.00	50.0		60	40-140	0.02	20
Anthracene	**38.7**		µg/l	5.00	50.0		77	40-140	1	20
Azobenzene/Diphenyldiazene	**39.1**		µg/l	5.00	50.0		78	40-140	2	20
Benzidine	**5.98**	QC2, QR9	µg/l	5.00	50.0		12	40-140	137	20
Benzo (a) anthracene	**42.4**		µg/l	5.00	50.0		85	40-140	4	20
Benzo (a) pyrene	**42.4**		µg/l	5.00	50.0		85	40-140	4	20
Benzo (b) fluoranthene	**39.9**		µg/l	5.00	50.0		80	40-140	2	20
Benzo (g,h,i) perylene	**38.4**		µg/l	5.00	50.0		77	40-140	2	20
Benzo (k) fluoranthene	**42.4**		µg/l	5.00	50.0		85	40-140	4	20
Benzoic acid	**22.3**		µg/l	5.00	50.0		45	30-130	9	20
Benzyl alcohol	**34.2**		µg/l	5.00	50.0		68	40-140	9	20
Bis(2-chloroethoxy)methane	**35.1**		µg/l	5.00	50.0		70	40-140	4	20
Bis(2-chloroethyl)ether	**31.5**		µg/l	5.00	50.0		63	40-140	3	20
Bis(2-chloroisopropyl)ether	**34.1**		µg/l	5.00	50.0		68	40-140	3	20
Bis(2-ethylhexyl)phthalate	**47.0**		µg/l	5.00	50.0		94	40-140	5	20
4-Bromophenyl phenyl ether	**38.3**		µg/l	5.00	50.0		77	40-140	1	20
Butyl benzyl phthalate	**45.1**		µg/l	5.00	50.0		90	40-140	2	20
Carbazole	**42.0**		µg/l	5.00	50.0		84	40-140	0.9	20
4-Chloro-3-methylphenol	**39.6**		µg/l	5.00	50.0		79	30-130	5	20
4-Chloroaniline	**31.7**		µg/l	5.00	50.0		63	40-140	2	20
2-Chloronaphthalene	**37.1**		µg/l	5.00	50.0		74	40-140	3	20
2-Chlorophenol	**34.0**		µg/l	5.00	50.0		68	30-130	5	20
4-Chlorophenyl phenyl ether	**39.5**		µg/l	5.00	50.0		79	40-140	3	20
Chrysene	**43.5**		µg/l	5.00	50.0		87	40-140	3	20
Dibenzo (a,h) anthracene	**40.8**		µg/l	5.00	50.0		82	40-140	3	20
Dibenzofuran	**38.5**		µg/l	5.00	50.0		77	40-140	3	20
1,2-Dichlorobenzene	**33.1**		µg/l	5.00	50.0		66	40-140	2	20
1,3-Dichlorobenzene	**32.5**		µg/l	5.00	50.0		65	40-140	2	20
1,4-Dichlorobenzene	**32.3**		µg/l	5.00	50.0		65	40-140	2	20
3,3´-Dichlorobenzidine	**40.9**		µg/l	5.00	50.0		82	40-140	3	20
2,4-Dichlorophenol	**37.5**		µg/l	5.00	50.0		75	30-130	5	20
Diethyl phthalate	**41.6**		µg/l	5.00	50.0		83	40-140	3	20
Dimethyl phthalate	**40.0**		µg/l	5.00	50.0		80	40-140	3	20
2,4-Dimethylphenol	**33.1**		µg/l	5.00	50.0		66	30-130	2	20
Di-n-butyl phthalate	**41.3**		µg/l	5.00	50.0		83	40-140	3	20
4,6-Dinitro-2-methylphenol	**38.0**		µg/l	5.00	50.0		76	30-130	3	20
2,4-Dinitrophenol	**36.4**		µg/l	5.00	50.0		73	30-130	5	20
2,4-Dinitrotoluene	**43.5**		µg/l	5.00	50.0		87	40-140	5	20
2,6-Dinitrotoluene	**41.9**		µg/l	5.00	50.0		84	40-140	2	20
Di-n-octyl phthalate	**43.3**		µg/l	5.00	50.0		87	40-140	3	20
Fluoranthene	**38.5**		µg/l	5.00	50.0		77	40-140	3	20
Fluorene	**38.7**		µg/l	5.00	50.0		77	40-140	3	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503878 - SW846 3510C										
LCS Dup (1503878-BSD1)					Prepared & Analyzed: 02-Mar-15					
Hexachlorobenzene	**39.5**		µg/l	5.00	50.0		79	40-140	4	20
Hexachlorobutadiene	**30.7**		µg/l	5.00	50.0		61	40-140	2	20
Hexachlorocyclopentadiene	**39.9**		µg/l	5.00	50.0		80	40-140	2	20
Hexachloroethane	**31.9**		µg/l	5.00	50.0		64	40-140	2	20
Indeno (1,2,3-cd) pyrene	**40.3**		µg/l	5.00	50.0		81	40-140	2	20
Isophorone	**37.0**		µg/l	5.00	50.0		74	40-140	4	20
2-Methylnaphthalene	**37.7**		µg/l	5.00	50.0		75	40-140	3	20
2-Methylphenol	**33.4**		µg/l	5.00	50.0		67	30-130	6	20
3 & 4-Methylphenol	**32.2**		µg/l	10.0	50.0		64	30-130	5	20
Naphthalene	**34.4**		µg/l	5.00	50.0		69	40-140	4	20
2-Nitroaniline	**41.2**		µg/l	5.00	50.0		82	40-140	4	20
3-Nitroaniline	**41.4**		µg/l	5.00	50.0		83	40-140	1	20
4-Nitroaniline	**50.4**		µg/l	20.0	50.0		101	40-140	3	20
Nitrobenzene	**34.9**		µg/l	5.00	50.0		70	40-140	5	20
2-Nitrophenol	**37.8**		µg/l	5.00	50.0		76	30-130	5	20
4-Nitrophenol	**27.7**		µg/l	20.0	50.0		55	30-130	0.7	20
N-Nitrosodimethylamine	**27.7**		µg/l	5.00	50.0		55	40-140	14	20
N-Nitrosodi-n-propylamine	**38.4**		µg/l	5.00	50.0		77	40-140	4	20
N-Nitrosodiphenylamine	**42.4**		µg/l	5.00	50.0		85	40-140	1	20
Pentachlorophenol	**39.3**		µg/l	20.0	50.0		79	30-130	12	20
Phenanthrene	**36.7**		µg/l	5.00	50.0		73	40-140	2	20
Phenol	**17.7**		µg/l	5.00	50.0		35	30-130	6	20
Pyrene	**43.7**		µg/l	5.00	50.0		87	40-140	3	20
Pyridine	**17.1**	QC2	µg/l	5.00	50.0		34	40-140	10	20
1,2,4-Trichlorobenzene	**33.6**		µg/l	5.00	50.0		67	40-140	4	20
1-Methylnaphthalene	**36.7**		µg/l	5.00	50.0		73	40-140	3	20
2,4,5-Trichlorophenol	**40.4**		µg/l	5.00	50.0		81	30-130	4	20
2,4,6-Trichlorophenol	**37.6**		µg/l	5.00	50.0		75	30-130	4	20
Pentachloronitrobenzene	**42.1**		µg/l	5.00	50.0		84	40-140	3	20
1,2,4,5-Tetrachlorobenzene	**35.9**		µg/l	5.00	50.0		72	40-140	0.02	20
Surrogate: 2-Fluorobiphenyl	*35.1*		µg/l		*50.0*		*70*	*30-130*		
Surrogate: 2-Fluorophenol	*23.1*		µg/l		*50.0*		*46*	*15-110*		
Surrogate: Nitrobenzene-d5	*36.3*		µg/l		*50.0*		*73*	*30-130*		
Surrogate: Phenol-d5	*16.4*		µg/l		*50.0*		*33*	*15-110*		
Surrogate: Terphenyl-dl4	*44.2*		µg/l		*50.0*		*88*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*41.9*		µg/l		*50.0*		*84*	*15-110*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503770 - SW846 3510C										
Blank (1503770-BLK1)					Prepared & Analyzed: 27-Feb-15					
Aroclor-1016	< 0.200		µg/l	0.200						
Aroclor-1016 [2C]	< 0.200		µg/l	0.200						
Aroclor-1221	< 0.200		µg/l	0.200						
Aroclor-1221 [2C]	< 0.200		µg/l	0.200						
Aroclor-1232	< 0.200		µg/l	0.200						
Aroclor-1232 [2C]	< 0.200		µg/l	0.200						
Aroclor-1242	< 0.200		µg/l	0.200						
Aroclor-1242 [2C]	< 0.200		µg/l	0.200						
Aroclor-1248	< 0.200		µg/l	0.200						
Aroclor-1248 [2C]	< 0.200		µg/l	0.200						
Aroclor-1254	< 0.200		µg/l	0.200						
Aroclor-1254 [2C]	< 0.200		µg/l	0.200						
Aroclor-1260	< 0.200		µg/l	0.200						
Aroclor-1260 [2C]	< 0.200		µg/l	0.200						
Aroclor-1262	< 0.200		µg/l	0.200						
Aroclor-1262 [2C]	< 0.200		µg/l	0.200						
Aroclor-1268	< 0.200		µg/l	0.200						
Aroclor-1268 [2C]	< 0.200		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.180*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.210*		µg/l		*0.200*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.220*		µg/l		*0.200*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.250*		µg/l		*0.200*		*125*	*30-150*		
LCS (1503770-BS1)					Prepared & Analyzed: 27-Feb-15					
Aroclor-1016	**2.36**		µg/l	0.200	2.50		94	40-140		
Aroclor-1016 [2C]	**2.41**		µg/l	0.200	2.50		96	40-140		
Aroclor-1260	**2.44**		µg/l	0.200	2.50		98	40-140		
Aroclor-1260 [2C]	**2.41**		µg/l	0.200	2.50		96	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.190*		µg/l		*0.200*		*95*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.210*		µg/l		*0.200*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.220*		µg/l		*0.200*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.260*		µg/l		*0.200*		*130*	*30-150*		
LCS Dup (1503770-BSD1)					Prepared & Analyzed: 27-Feb-15					
Aroclor-1016	**2.38**		µg/l	0.200	2.50		95	40-140	0.8	20
Aroclor-1016 [2C]	**2.39**		µg/l	0.200	2.50		96	40-140	0.8	20
Aroclor-1260	**2.47**		µg/l	0.200	2.50		99	40-140	1	20
Aroclor-1260 [2C]	**2.47**		µg/l	0.200	2.50		99	40-140	2	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.200*		µg/l		*0.200*		*100*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.210*		µg/l		*0.200*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.220*		µg/l		*0.200*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.270*		µg/l		*0.200*		*135*	*30-150*		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503876 - SW846 3510C										
Blank (1503876-BLK1)						Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Gasoline	< 0.2		mg/l	0.2						
Fuel Oil #2	< 0.2		mg/l	0.2						
Fuel Oil #4	< 0.2		mg/l	0.2						
Fuel Oil #6	< 0.2		mg/l	0.2						
Motor Oil	< 0.2		mg/l	0.2						
Ligroin	< 0.2		mg/l	0.2						
Aviation Fuel	< 0.2		mg/l	0.2						
Hydraulic Oil	< 0.2		mg/l	0.2						
Dielectric Fluid	< 0.2		mg/l	0.2						
Unidentified	< 0.2		mg/l	0.2						
Other Oil	< 0.2		mg/l	0.2						
Total Petroleum Hydrocarbons	< 0.2		mg/l	0.2						
Surrogate: 1-Chlorooctadecane	*0.0348*		mg/l		*0.0500*		*70*	*40-140*		
LCS (1503876-BS2)						Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Fuel Oil #2	**2.0**		mg/l	0.2	2.00		101	40-140		
Surrogate: 1-Chlorooctadecane	*0.0456*		mg/l		*0.0500*		*91*	*40-140*		
LCS Dup (1503876-BSD2)						Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Fuel Oil #2	**2.2**		mg/l	0.2	2.00		110	40-140	8	200
Surrogate: 1-Chlorooctadecane	*0.0489*		mg/l		*0.0500*		*98*	*40-140*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503856 - SW846 3005A										
Blank (1503856-BLK1)					Prepared: 02-Mar-15 Analyzed: 03-Mar-15					
Iron	**0.101**	QB1	mg/l	0.0150						
Chromium	< 0.0050		mg/l	0.0050						
Arsenic	< 0.0040		mg/l	0.0040						
Cadmium	< 0.0025		mg/l	0.0025						
Lead	< 0.0075		mg/l	0.0075						
Antimony	< 0.0060		mg/l	0.0060						
Beryllium	< 0.0020		mg/l	0.0020						
Thallium	< 0.0050		mg/l	0.0050						
Zinc	< 0.0050		mg/l	0.0050						
Copper	< 0.0050		mg/l	0.0050						
Nickel	< 0.0050		mg/l	0.0050						
Selenium	< 0.0150		mg/l	0.0150						
Silver	< 0.0070		mg/l	0.0070						
LCS (1503856-BS1)					Prepared: 02-Mar-15 Analyzed: 03-Mar-15					
Iron	**1.35**		mg/l	0.0150	1.25		108	85-115		
Beryllium	**1.29**		mg/l	0.0020	1.25		104	85-115		
Arsenic	**1.22**		mg/l	0.0040	1.25		97	85-115		
Lead	**1.19**		mg/l	0.0075	1.25		95	85-115		
Cadmium	**1.20**		mg/l	0.0025	1.25		96	85-115		
Chromium	**1.24**		mg/l	0.0050	1.25		99	85-115		
Antimony	**1.17**		mg/l	0.0060	1.25		93	85-115		
Zinc	**1.23**		mg/l	0.0050	1.25		99	85-115		
Copper	**1.27**		mg/l	0.0050	1.25		102	85-115		
Nickel	**1.28**		mg/l	0.0050	1.25		102	85-115		
Selenium	**1.30**		mg/l	0.0150	1.25		104	85-115		
Silver	**1.21**		mg/l	0.0070	1.25		97	85-115		
Thallium	**1.27**		mg/l	0.0050	1.25		101	85-115		
LCS Dup (1503856-BSD1)					Prepared: 02-Mar-15 Analyzed: 03-Mar-15					
Iron	**1.36**		mg/l	0.0150	1.25		109	85-115	0.6	20
Cadmium	**1.25**		mg/l	0.0025	1.25		100	85-115	4	20
Selenium	**1.28**		mg/l	0.0150	1.25		102	85-115	2	20
Nickel	**1.26**		mg/l	0.0050	1.25		101	85-115	2	20
Copper	**1.23**		mg/l	0.0050	1.25		98	85-115	3	20
Zinc	**1.30**		mg/l	0.0050	1.25		104	85-115	5	20
Thallium	**1.30**		mg/l	0.0050	1.25		104	85-115	3	20
Antimony	**1.19**		mg/l	0.0060	1.25		95	85-115	2	20
Chromium	**1.26**		mg/l	0.0050	1.25		101	85-115	1	20
Beryllium	**1.34**		mg/l	0.0020	1.25		107	85-115	3	20
Arsenic	**1.24**		mg/l	0.0040	1.25		99	85-115	2	20
Silver	**1.21**		mg/l	0.0070	1.25		97	85-115	0.5	20
Lead	**1.24**		mg/l	0.0075	1.25		100	85-115	5	20
Duplicate (1503856-DUP1)			**Source: SC03809-01**		Prepared: 02-Mar-15 Analyzed: 03-Mar-15					
Iron	**12.3**		mg/l	0.0150		12.4			1	20
Nickel	**0.0261**		mg/l	0.0050		0.0254			3	20
Selenium	< 0.0150		mg/l	0.0150		BRL				20
Copper	**0.0223**		mg/l	0.0050		0.0216			3	20
Zinc	**0.172**		mg/l	0.0050		0.168			3	20
Thallium	< 0.0050		mg/l	0.0050		BRL				20
Antimony	< 0.0060		mg/l	0.0060		BRL				20
Lead	**0.0531**		mg/l	0.0075		0.0517			3	20
Cadmium	< 0.0025		mg/l	0.0025		BRL				20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503856 - SW846 3005A										
Duplicate (1503856-DUP1)			**Source: SC03809-01**			Prepared & Analyzed: 02-Mar-15				
Beryllium	**0.0013**	J	mg/l	0.0020		0.0013			1	20
Arsenic	**0.0038**	J,QR8	mg/l	0.0040		0.0047			21	20
Silver	< 0.0070	R06	mg/l	0.0070		0.0069				20
Chromium	**0.0302**		mg/l	0.0050		0.0293			3	20
Matrix Spike (1503856-MS1)			**Source: SC03809-01**			Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Iron	**14.0**		mg/l	0.0150	1.25	12.4	123	75-125		
Beryllium	**1.21**		mg/l	0.0020	1.25	0.0013	97	75-125		
Copper	**1.12**		mg/l	0.0050	1.25	0.0216	88	75-125		
Selenium	**1.19**		mg/l	0.0150	1.25	BRL	96	75-125		
Nickel	**1.11**		mg/l	0.0050	1.25	0.0254	87	75-125		
Zinc	**1.26**		mg/l	0.0050	1.25	0.168	87	75-125		
Chromium	**1.17**		mg/l	0.0050	1.25	0.0293	91	75-125		
Arsenic	**1.16**		mg/l	0.0040	1.25	0.0047	93	75-125		
Cadmium	**1.07**		mg/l	0.0025	1.25	BRL	86	75-125		
Thallium	**1.18**		mg/l	0.0050	1.25	BRL	94	75-125		
Antimony	**1.01**		mg/l	0.0060	1.25	BRL	81	75-125		
Lead	**1.07**		mg/l	0.0075	1.25	0.0517	81	75-125		
Silver	**1.19**		mg/l	0.0070	1.25	0.0069	95	75-125		
Matrix Spike Dup (1503856-MSD1)			**Source: SC03809-01**			Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Iron	**13.6**		mg/l	0.0150	1.25	12.4	98	75-125	2	20
Chromium	**1.26**		mg/l	0.0050	1.25	0.0293	99	75-125	8	20
Selenium	**1.23**		mg/l	0.0150	1.25	BRL	99	75-125	3	20
Silver	**1.27**		mg/l	0.0070	1.25	0.0069	101	75-125	6	20
Arsenic	**1.30**		mg/l	0.0040	1.25	0.0047	103	75-125	11	20
Beryllium	**1.32**		mg/l	0.0020	1.25	0.0013	105	75-125	9	20
Cadmium	**1.18**		mg/l	0.0025	1.25	BRL	94	75-125	10	20
Antimony	**1.15**		mg/l	0.0060	1.25	BRL	92	75-125	13	20
Thallium	**1.30**		mg/l	0.0050	1.25	BRL	104	75-125	10	20
Zinc	**1.39**		mg/l	0.0050	1.25	0.168	98	75-125	10	20
Copper	**1.15**		mg/l	0.0050	1.25	0.0216	91	75-125	3	20
Nickel	**1.13**		mg/l	0.0050	1.25	0.0254	88	75-125	2	20
Lead	**1.18**		mg/l	0.0075	1.25	0.0517	91	75-125	10	20
Post Spike (1503856-PS1)			**Source: SC03809-01**			Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Iron	**12.9**	QM4X	mg/l	0.0150	1.25	12.4	42	80-120		
Cadmium	**1.23**		mg/l	0.0025	1.25	BRL	98	80-120		
Selenium	**1.27**		mg/l	0.0150	1.25	BRL	102	80-120		
Nickel	**1.18**		mg/l	0.0050	1.25	0.0254	92	80-120		
Copper	**1.21**		mg/l	0.0050	1.25	0.0216	95	80-120		
Zinc	**1.42**		mg/l	0.0050	1.25	0.168	100	80-120		
Thallium	**1.36**		mg/l	0.0050	1.25	BRL	109	80-120		
Antimony	**1.29**		mg/l	0.0060	1.25	BRL	103	80-120		
Silver	**1.36**		mg/l	0.0070	1.25	0.0069	109	80-120		
Chromium	**1.33**		mg/l	0.0050	1.25	0.0293	104	80-120		
Beryllium	**1.36**		mg/l	0.0020	1.25	0.0013	109	80-120		
Arsenic	**1.36**		mg/l	0.0040	1.25	0.0047	109	80-120		
Lead	**1.22**		mg/l	0.0075	1.25	0.0517	94	80-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503857 - EPA200/SW7000 Series										
Blank (1503857-BLK1)						Prepared & Analyzed: 02-Mar-15				
Mercury	< 0.00020		mg/l	0.00020						
LCS (1503857-BS1)						Prepared & Analyzed: 02-Mar-15				
Mercury	**0.00527**		mg/l	0.00020	0.00500		105	85-115		
Duplicate (1503857-DUP1)			**Source: SC03809-02**			Prepared & Analyzed: 02-Mar-15				
Mercury	< 0.00020		mg/l	0.00020		BRL				20
Matrix Spike (1503857-MS1)			**Source: SC03809-02**			Prepared & Analyzed: 02-Mar-15				
Mercury	**0.00513**		mg/l	0.00020	0.00500	BRL	103	80-120		
Matrix Spike Dup (1503857-MSD1)			**Source: SC03809-02**			Prepared & Analyzed: 02-Mar-15				
Mercury	**0.00519**		mg/l	0.00020	0.00500	BRL	104	80-120	1	20
Post Spike (1503857-PS1)			**Source: SC03809-02**			Prepared & Analyzed: 02-Mar-15				
Mercury	**0.00537**		mg/l	0.00020	0.00500	BRL	107	85-115		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503858 - SW846 3005A										
Blank (1503858-BLK1)					Prepared & Analyzed: 02-Mar-15					
Cadmium	< 0.0025		mg/l	0.0025						
Selenium	< 0.0150		mg/l	0.0150						
Nickel	< 0.0050		mg/l	0.0050						
Copper	< 0.0050		mg/l	0.0050						
Zinc	< 0.0050		mg/l	0.0050						
Silver	< 0.0070		mg/l	0.0070						
Thallium	< 0.0050		mg/l	0.0050						
Antimony	< 0.0060		mg/l	0.0060						
Chromium	< 0.0050		mg/l	0.0050						
Arsenic	< 0.0040		mg/l	0.0040						
Beryllium	< 0.0020		mg/l	0.0020						
Lead	< 0.0075		mg/l	0.0075						
LCS (1503858-BS1)					Prepared: 02-Mar-15 Analyzed: 03-Mar-15					
Copper	**1.17**		mg/l	0.0050	1.25		93	85-115		
Chromium	**1.18**		mg/l	0.0050	1.25		95	85-115		
Cadmium	**1.16**		mg/l	0.0025	1.25		93	85-115		
Beryllium	**1.23**		mg/l	0.0020	1.25		98	85-115		
Arsenic	**1.16**		mg/l	0.0040	1.25		93	85-115		
Silver	**1.15**		mg/l	0.0070	1.25		92	85-115		
Nickel	**1.24**		mg/l	0.0050	1.25		99	85-115		
Zinc	**1.19**		mg/l	0.0050	1.25		95	85-115		
Selenium	**1.27**		mg/l	0.0150	1.25		102	85-115		
Thallium	**1.22**		mg/l	0.0050	1.25		97	85-115		
Antimony	**1.13**		mg/l	0.0060	1.25		90	85-115		
Lead	**1.16**		mg/l	0.0075	1.25		92	85-115		
LCS Dup (1503858-BSD1)					Prepared & Analyzed: 02-Mar-15					
Cadmium	**1.19**		mg/l	0.0025	1.25		95	85-115	2	20
Arsenic	**1.20**		mg/l	0.0040	1.25		96	85-115	3	20
Selenium	**1.24**		mg/l	0.0150	1.25		100	85-115	2	20
Nickel	**1.24**		mg/l	0.0050	1.25		99	85-115	0.4	20
Copper	**1.19**		mg/l	0.0050	1.25		95	85-115	2	20
Zinc	**1.22**		mg/l	0.0050	1.25		98	85-115	2	20
Thallium	**1.25**		mg/l	0.0050	1.25		100	85-115	3	20
Antimony	**1.16**		mg/l	0.0060	1.25		93	85-115	2	20
Lead	**1.18**		mg/l	0.0075	1.25		94	85-115	2	20
Chromium	**1.21**		mg/l	0.0050	1.25		97	85-115	2	20
Beryllium	**1.27**		mg/l	0.0020	1.25		101	85-115	3	20
Silver	**1.17**		mg/l	0.0070	1.25		94	85-115	2	20
Duplicate (1503858-DUP1)			**Source: SC03809-02**			Prepared & Analyzed: 02-Mar-15				
Zinc	**0.0072**		mg/l	0.0050		0.0086			18	20
Selenium	< 0.0150		mg/l	0.0150		BRL				20
Copper	< 0.0050		mg/l	0.0050		BRL				20
Cadmium	< 0.0025		mg/l	0.0025		BRL				20
Silver	< 0.0070	R01	mg/l	0.0070		BRL				20
Nickel	**0.0062**		mg/l	0.0050		0.0064			2	20
Beryllium	< 0.0020		mg/l	0.0020		BRL				20
Thallium	< 0.0050		mg/l	0.0050		0.0024				20
Chromium	< 0.0050		mg/l	0.0050		BRL				20
Lead	< 0.0075		mg/l	0.0075		BRL				20
Antimony	< 0.0060		mg/l	0.0060		BRL				20
Arsenic	< 0.0040		mg/l	0.0040		BRL				20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503858 - SW846 3005A										
Matrix Spike (1503858-MS1)			Source: SC03809-02			Prepared & Analyzed: 02-Mar-15				
Cadmium	**1.25**		mg/l	0.0025	1.25	BRL	100	75-125		
Chromium	**1.31**		mg/l	0.0050	1.25	BRL	105	75-125		
Arsenic	**1.41**		mg/l	0.0040	1.25	BRL	113	75-125		
Thallium	**1.32**		mg/l	0.0050	1.25	0.0024	106	75-125		
Lead	**1.18**		mg/l	0.0075	1.25	BRL	95	75-125		
Antimony	**1.32**		mg/l	0.0060	1.25	BRL	106	75-125		
Zinc	**1.30**		mg/l	0.0050	1.25	0.0086	103	75-125		
Nickel	**1.16**		mg/l	0.0050	1.25	0.0064	93	75-125		
Selenium	**1.31**		mg/l	0.0150	1.25	BRL	105	75-125		
Beryllium	**1.41**		mg/l	0.0020	1.25	BRL	112	75-125		
Silver	**1.42**		mg/l	0.0070	1.25	BRL	114	75-125		
Copper	**1.16**		mg/l	0.0050	1.25	BRL	92	75-125		
Matrix Spike Dup (1503858-MSD1)			Source: SC03809-02			Prepared & Analyzed: 02-Mar-15				
Silver	**1.31**		mg/l	0.0070	1.25	BRL	105	75-125	8	20
Zinc	**1.23**		mg/l	0.0050	1.25	0.0086	98	75-125	6	20
Thallium	**1.23**		mg/l	0.0050	1.25	0.0024	98	75-125	7	20
Antimony	**1.26**		mg/l	0.0060	1.25	BRL	100	75-125	5	20
Lead	**1.12**		mg/l	0.0075	1.25	BRL	90	75-125	5	20
Chromium	**1.21**		mg/l	0.0050	1.25	BRL	97	75-125	7	20
Cadmium	**1.18**		mg/l	0.0025	1.25	BRL	94	75-125	6	20
Beryllium	**1.35**		mg/l	0.0020	1.25	BRL	108	75-125	4	20
Arsenic	**1.33**		mg/l	0.0040	1.25	BRL	107	75-125	6	20
Copper	**1.19**		mg/l	0.0050	1.25	BRL	95	75-125	3	20
Selenium	**1.33**		mg/l	0.0150	1.25	BRL	106	75-125	1	20
Nickel	**1.18**		mg/l	0.0050	1.25	0.0064	94	75-125	1	20
Post Spike (1503858-PS1)			Source: SC03809-02			Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Nickel	**1.17**		mg/l	0.0050	1.25	0.0064	93	80-120		
Antimony	**1.26**		mg/l	0.0060	1.25	BRL	101	80-120		
Lead	**1.12**		mg/l	0.0075	1.25	BRL	90	80-120		
Chromium	**1.25**		mg/l	0.0050	1.25	BRL	100	80-120		
Cadmium	**1.19**		mg/l	0.0025	1.25	BRL	95	80-120		
Beryllium	**1.37**		mg/l	0.0020	1.25	BRL	109	80-120		
Arsenic	**1.35**		mg/l	0.0040	1.25	BRL	108	80-120		
Silver	**1.36**		mg/l	0.0070	1.25	BRL	109	80-120		
Zinc	**1.23**		mg/l	0.0050	1.25	0.0086	98	80-120		
Thallium	**1.26**		mg/l	0.0050	1.25	0.0024	100	80-120		
Selenium	**1.30**		mg/l	0.0150	1.25	BRL	104	80-120		
Copper	**1.19**		mg/l	0.0050	1.25	BRL	95	80-120		
Batch 1505433 - SW846 3005A										
Blank (1505433-BLK1)						Prepared: 26-Mar-15 Analyzed: 27-Mar-15				
Iron	< 0.0300		mg/l	0.0300						
LCS (1505433-BS1)						Prepared: 26-Mar-15 Analyzed: 27-Mar-15				
Iron	**1.85**		mg/l	0.0300	2.00		92	85-115		
LCS Dup (1505433-BSD1)						Prepared: 26-Mar-15 Analyzed: 27-Mar-15				
Iron	**1.88**		mg/l	0.0300	2.00		94	85-115	2	20
Duplicate (1505433-DUP1)			Source: SC03809-01			Prepared: 26-Mar-15 Analyzed: 27-Mar-15				
Iron	< 0.0300		mg/l	0.0300		BRL				20
Matrix Spike (1505433-MS1)			Source: SC03809-01			Prepared: 26-Mar-15 Analyzed: 27-Mar-15				
Iron	**2.28**		mg/l	0.0300	2.50	BRL	91	75-125		
Matrix Spike Dup (1505433-MSD1)			Source: SC03809-01			Prepared: 26-Mar-15 Analyzed: 27-Mar-15				
Iron	**2.29**		mg/l	0.0300	2.50	BRL	92	75-125	0.7	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503859 - EPA200/SW7000 Series										
Blank (1503859-BLK1)						Prepared & Analyzed: 02-Mar-15				
Mercury	< 0.00020		mg/l	0.00020						
LCS (1503859-BS1)						Prepared & Analyzed: 02-Mar-15				
Mercury	**0.00535**		mg/l	0.00020	0.00500		107	85-115		
Duplicate (1503859-DUP1)			**Source: SC03809-01**			Prepared & Analyzed: 02-Mar-15				
Mercury	< 0.00020		mg/l	0.00020		BRL				20
Matrix Spike (1503859-MS1)			**Source: SC03809-01**			Prepared & Analyzed: 02-Mar-15				
Mercury	**0.00571**		mg/l	0.00020	0.00500	BRL	114	80-120		
Matrix Spike Dup (1503859-MSD1)			**Source: SC03809-01**			Prepared & Analyzed: 02-Mar-15				
Mercury	**0.00568**		mg/l	0.00020	0.00500	BRL	114	80-120	0.4	20
Post Spike (1503859-PS1)			**Source: SC03809-01**			Prepared & Analyzed: 02-Mar-15				
Mercury	**0.00565**		mg/l	0.00020	0.00500	BRL	113	85-115		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503839 - General Preparation										
Blank (1503839-BLK1)						Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	< 0.020		mg/l	0.020						
LCS (1503839-BS1)						Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	**0.054**		mg/l	0.020	0.0500		108	90-110		
Calibration Blank (1503839-CCB1)						Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	**-0.001**		mg/l							
Calibration Blank (1503839-CCB2)						Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	**0.002**		mg/l							
Calibration Blank (1503839-CCB3)						Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	**0.002**		mg/l							
Calibration Check (1503839-CCV1)						Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	**0.053**		mg/l	0.020	0.0500		105	90-110		
Calibration Check (1503839-CCV2)						Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	**0.049**		mg/l	0.020	0.0500		98	90-110		
Calibration Check (1503839-CCV3)						Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	**0.050**		mg/l	0.020	0.0500		99	90-110		
Duplicate (1503839-DUP1)			**Source: SC03809-01**			Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	< 0.200		mg/l	0.200		BRL				20
Matrix Spike (1503839-MS1)			**Source: SC03809-01**			Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	**0.414**		mg/l	0.200	0.500	BRL	83	80-120		
Matrix Spike Dup (1503839-MSD1)			**Source: SC03809-01**			Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	**0.412**		mg/l	0.200	0.500	BRL	82	80-120	0.5	200
Reference (1503839-SRM1)						Prepared & Analyzed: 27-Feb-15				
Total Residual Chlorine	**0.102**		mg/l	0.020	0.110		93	85-115		
Batch 1503840 - General Preparation										
Blank (1503840-BLK1)						Prepared & Analyzed: 27-Feb-15				
Hexavalent Chromium	< 0.005		mg/l	0.005						
LCS (1503840-BS1)						Prepared & Analyzed: 27-Feb-15				
Hexavalent Chromium	**0.052**		mg/l	0.005	0.0500		104	80-120		
Calibration Blank (1503840-CCB1)						Prepared & Analyzed: 27-Feb-15				
Hexavalent Chromium	**-0.0009**		mg/l							
Calibration Blank (1503840-CCB2)						Prepared & Analyzed: 27-Feb-15				
Hexavalent Chromium	**-0.0008**		mg/l							
Calibration Check (1503840-CCV1)						Prepared & Analyzed: 27-Feb-15				
Hexavalent Chromium	**0.052**		mg/l	0.005	0.0500		104	90-110		
Calibration Check (1503840-CCV2)						Prepared & Analyzed: 27-Feb-15				
Hexavalent Chromium	**0.052**		mg/l	0.005	0.0500		104	90-110		
Duplicate (1503840-DUP1)			**Source: SC03809-02**			Prepared & Analyzed: 27-Feb-15				
Hexavalent Chromium	< 0.050		mg/l	0.050		BRL				20
Matrix Spike (1503840-MS1)			**Source: SC03809-02**			Prepared & Analyzed: 27-Feb-15				
Hexavalent Chromium	**0.471**		mg/l	0.050	0.500	BRL	94	85-115		
Matrix Spike Dup (1503840-MSD1)			**Source: SC03809-02**			Prepared & Analyzed: 27-Feb-15				
Hexavalent Chromium	**0.473**		mg/l	0.050	0.500	BRL	95	85-115	0.4	20
Reference (1503840-SRM1)						Prepared & Analyzed: 27-Feb-15				
Hexavalent Chromium	**0.024**		mg/l	0.005	0.0250		96	85-115		
Batch 1503877 - General Preparation										
Blank (1503877-BLK1)						Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Total Suspended Solids	< 5.0		mg/l	5.0						
LCS (1503877-BS1)						Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Total Suspended Solids	**98.0**		mg/l	10.0	100		98	90-110		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1503912 - General Preparation										
Blank (1503912-BLK1)						Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Chloride	< 1.00		mg/l	1.00						
LCS (1503912-BS1)						Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Chloride	**19.8**		mg/l	1.00	20.0		99	90-110		
Reference (1503912-SRM1)						Prepared: 02-Mar-15 Analyzed: 03-Mar-15				
Chloride	**24.4**		mg/l	1.00	25.0		98	90-110		
Batch 1503940 - General Preparation										
Blank (1503940-BLK1)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	< 0.00500		mg/l	0.00500						
Blank (1503940-BLK2)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	< 0.00500		mg/l	0.00500						
LCS (1503940-BS1)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	**0.412**		mg/l	0.00500	0.400		103	90-110		
LCS (1503940-BS2)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	**0.203**		mg/l	0.00500	0.200		102	90-110		
LCS (1503940-BS3)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	**0.412**		mg/l	0.00500	0.400		103	90-110		
LCS (1503940-BS4)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	**0.209**		mg/l	0.00500	0.200		104	90-110		
Calibration Blank (1503940-CCB1)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	**0.00105**		mg/l							
Calibration Blank (1503940-CCB2)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	**0.00129**		mg/l							
Calibration Blank (1503940-CCB3)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	**0.00123**		mg/l							
Calibration Check (1503940-CCV1)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	**0.304**		mg/l	0.00500	0.300		101	90-110		
Calibration Check (1503940-CCV2)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	**0.304**		mg/l	0.00500	0.300		101	90-110		
Calibration Check (1503940-CCV3)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	**0.308**		mg/l	0.00500	0.300		103	90-110		
Reference (1503940-SRM1)						Prepared & Analyzed: 03-Mar-15				
Cyanide (total)	**0.284**		mg/l	0.00500	0.270		105	65-135		
Batch 1505476 - General Preparation										
Duplicate (1505476-DUP1)			**Source: SC03809-01**			Prepared & Analyzed: 26-Mar-15				
pH	**7.69**		pH Units			7.70			0.1	5
Reference (1505476-SRM1)						Prepared & Analyzed: 26-Mar-15				
pH	**5.99**		pH Units		6.00		100	97.5-102.5		
Reference (1505476-SRM2)						Prepared & Analyzed: 26-Mar-15				
pH	**5.99**		pH Units		6.00		100	97.5-102.5		
Batch 1505564 - General Preparation										
Duplicate (1505564-DUP1)			**Source: SC03809-02**			Prepared & Analyzed: 27-Mar-15				
Flashpoint	**>150**		°F			>150				20
Reference (1505564-SRM1)						Prepared & Analyzed: 27-Mar-15				
Flashpoint	**80**		°F		81.0		99	95-105		

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
QB1	The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM4X	The spike recovery was outside of QC acceptance limits for the MS, MSD and/or PS due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
R01	The Reporting Limit has been raised to account for matrix interference.
R02	Elevated Reporting Limits due to limited sample volume.
R06	MRL raised to correlate to batch QC reporting limits.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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.
pH	The method for pH does not stipulate a specific holding time other than to state that the samples should be analyzed as 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.
LIV	The initial volume for this sample has been reduced due to sample matrix and/or historical data therefore elevating the reporting limit.

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.

Laboratory Control Sample (LCS): 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.

Matrix Spike: 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.

Method Blank: 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.

Surrogate: 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.

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

Validated by:
June O'Connor
Nicole Leja
Rebecca Merz

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling: SC 03809
- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed

Report To: Kleinfelder
1 Speen Street
Framingham, MA 01701
Telephone #: 508-370-8256 Fax: 508-68-1401
Project Mgr: Mark Habedank

Invoice To: Cumberland Farms
Mr. Matt Young
100 Crossing Blvd
Framingham, MA 01702
P.O No.: 63527 RQN _____

Project No: CFI Southbridge
Site Name: 357&381 Main Street
Location: Southbridge State MA
Sampler(s): Ryan Degnim

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= none 12= _____

DW=Dinking Water GW= Groundwater WW= Waste Water
O= Oil SW= surface Water SO=Soil SL= Sludge A= Air
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

Lab ID	Sample ID	Date	Time	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Cyanide	VOCs via 8260	sVOCs via 8270	TPH via 8100	PPM 13 Metals (total)	PPM 13 Metals (dissolved)	Trivalent & Hexavalent Chromium	TSS, TRC, Chloride	PCBs
03809-01	MW-1	2/27/2015	1245	G	GW	3	3		4	X	X	X	X	X	X	X	X	X
-02	MW-2	2/27/2015	1410	G	GW	3	3		4	X	X	X	X	X	X	X	X	X
-03	Trip Blank	2/27/15	2400	G	GW	1					X							

List Preservative Code below:

QA/QC Reporting Notes: *additional charges may appply

MA DEP MCP CAM Report ☐ yes ☐ no
CT DPH RCP Report ☐ yes ☐ no
☐ Standard ☐ No QC
☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

Dissolved metal samples were field filtered where noted.
Chromium Short Hold

Relinquished by:	Received by:	Date	Time	Temp °C
Ryan Degnim	[illegible]	2-27-15	15:07	5.4
	[illegible]	2/27/15	1637	-1
				4.4
				0.1

☐ EDD format: _____
☑ E-mail to: estraley@kleinfelder.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

11 Almgren Drive
Agawam, MA 01001
(413) 789-9018

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

Laboratory ID	*Client ID*	*Analysis*	*Added*
SC03809-01	MW-1	Flashpoint	3/25/2015
SC03809-01	MW-1	pH	3/25/2015
SC03809-02	MW-2	Flashpoint	3/25/2015
SC03809-02	MW-2	pH	3/25/2015
SC03809-01	MW-1	Soluble Iron by ICP	3/26/2015
SC03809-01	MW-1	Total Iron by ICP	3/26/2015
SC03809-02	MW-2	Soluble Iron by ICP	3/26/2015
SC03809-02	MW-2	Total Iron by ICP	3/26/2015