



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

5 Post Office Square, Suite 100

BOSTON, MA 02109-3912

CERTIFIED MAIL

February 14, 2011

Reginald H. Achilles
President
EnTac Solutions, Inc.
One Dix Street
Worcester, MA 01609

Re: Authorization to discharge under the Remediation General Permit (RGP) –
MAG910000. Riverside Mart site located at 54 Canal Street, Millbury, MA 01527
Worcester County; Authorization # MAG910390 - Reissuance

Dear Mr. Achilles:

Based on the review of a Notice of Intent (NOI) submitted on behalf of JEMS of New England by your firm EnTack Solutions, Inc., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants for which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the check list does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at:

<http://www.epa.gov/region1/npdes/mass.html#dgp>.

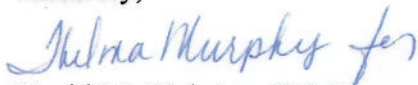
Also, please note that the metals zinc and iron are included in the list. These pollutants are dilution dependent subject to limitations based on a dilution factor range (DFR). Due to the ample dilution at the point of discharge (148.9) the DFR applicable for this pollutant is equal to the Ceiling Value DFR established in the RGP. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limit zinc of 1,480ug/L and iron of 5,000ug/L shall not be exceeded in the discharge.

Finally, please note the list of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. The recertification can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP requirements.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this will terminate mitigation on October 1, 2012. If for any reason the discharge terminates sooner you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

Thank you in advance for your cooperation in this matter. Please contact Victor Alvarez at 617-918-1572 or Alvarez.Victor@epa.gov, if you have any questions.

Sincerely,



David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP

**2010 Remediation General Permit
Summary of Monitoring Parameters^[1]**

NPDES Permit Number:	MAG910390 – Reissuance
Date Permit Issued:	February, 2011
Facility/Site Name:	Riverside Mart
Facility/Site Address:	Site located at 54 Canal Street, Millbury, MA 01527 Worcester County
	Email address of owner: massfadi@aol.com; Phone n:508-865-5625
Legal Name of Operator:	EnTac Solutions, Inc.
Operator contact name, title, and Address:	Reginald H. Achilles, President One Dix Street, Worcester, MA 01609 Email:achillesrh@etsenv.com; Phone n: 508-798-5084
Estimated Date of Completion:	10/01/2012
Category and Sub-Category:	Category I-Petroleum Related Site Remediation. Sub-categories A&B. Gasoline only sites and Fuel Oils and Other Oils Sites
Receiving Water:	Black Stone River

Monitoring & Limits are applicable if checked. All samples are to be collected as grab samples

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
✓	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing **, Me#60.2/ML 5ug/L
	2. Total Residual Chlorine (TRC) ¹	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
✓	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
✓	4. Cyanide (CN) ^{2, 3}	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 5ug/L
✓	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
✓	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
✓	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
✓	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
✓	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) ⁴	100 ug/L/ Me#8260C/ ML 2ug/L
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
✓	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l /Me#8260C/ ML 10ug/L
	12.tert-Butyl Alcohol (TBA)	Monitor Only (ug/L)/ Me#8260C/ ML

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	(TertiaryButanol)	10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only (ug/L) /Me#8260C/ ML 10ug/L
✓	14. Naphthalene ⁵	20 ug/L /Me#8260C/ ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML5ug/L, Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) ⁶	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L & Me#625/ML 5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	b. Benzo(a) Pyrene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	c. Benzo(b)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	d. Benzo(k)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L,

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
		Me#610/ML 5ug/L& Me#625/ML 5ug/L
	e. Chrysene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
	h. Acenaphthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene ⁵	20 ug/L / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) ^{8, 9}	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

		<u>Total Recoverable Metal Limit @ H ¹⁰ = 50 mg/l CaCO3 for discharges in Massachusetts (ug/l)</u> ₁₁		
	<u>Metal parameter</u>	<u>Freshwater</u>	<u>Saltwater</u>	
	39. Antimony	5.6/10mL		
	40. Arsenic **	10/20mL	36/20mL	
	41. Cadmium **	0.2/10ml	8.9/10mL	
	42. Chromium III (trivalent) **	48.8/15mL	100/15mL	
	43. Chromium VI (hexavalent) **	11.4/10mL	50.3/10mL	
	44. Copper **	5.2/15mL	3.7/15mL	

	Metal parameter	Total Recoverable Metal Limit @ H¹⁰ = 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l) ¹¹			
		Freshwater	Saltwater		
	45. Lead **	1.3/20mL	8.5/20mL		
	46. Mercury **	0.9/0.2mL	1.1/0.2mL		
	47. Nickel **	29/20mL	8.2/20mL		
	48. Selenium **	5/20mL	71/20mL		
	49. Silver	1.2/10mL	2.2/10mL		
✓	50. Zinc **	1,480/15mL	85.6/15mL		
✓	51. Iron	5,000/20mL			

	Other Parameters	Limit
✓	52. Instantaneous Flow	Site specific in CFS
✓	53. Total Flow	Site specific in CFS
✓	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab ¹³
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab ¹³
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab ¹³
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab ¹⁴
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab ¹⁴
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab ¹⁴
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab ¹⁴
	61. Maximum Change in Temperature in MA - Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab ¹⁴
	62. Maximum Change in Temperature in MA - Any Class SA water body - Coastal	1.5°F; 1/Month/Grab ¹⁴
	63. Maximum Change in Temperature in MA - Any Class SB water body - July to September	1.5°F; 1/Month/Grab ¹⁴
	64. Maximum Change in Temperature in MA - Any Class SB water body - October to June	4°F; 1/Month/Grab ¹⁴

Footnotes:

¹ Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).

² Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.

³ Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).

⁴ BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

⁵ Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.

⁶ The sum of individual phthalate compounds (not including the #34, Bis (2-Ethylhexyl) Phthalate). The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁷ Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

⁸ In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses." Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁹ Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).

¹⁰ Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.

¹¹ For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using $DF \times 1,000 \text{ ug/L}$ (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit = $1,000 \times 2 = 2,000 \text{ ug/L}$, etc. not to exceed the DF=5.

¹² Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

¹³ pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

¹⁴ Temperature sampling per Method 170.1



via email: alvarez.victor@epa.gov

January 24, 2011

United States Environmental Protection Agency
RGP-NOC Processing
One Congress Street
Boston, Massachusetts 02114-2023
Attn: Mr. Victor Alvarez

RE: Remediation General Permit (RGP) Notice of Intent (NOI)
Riverside Mart
54 Canal Street, Millbury, MA 01527
MADEP RTN 2-1018
Current RGP Authorization #MAG910390

Dear Mr. Alvarez:

On behalf of JEMS of New England, EnTact Solutions, Inc. (ETS) submits this *Remediation General Permit Notice of Intent* as a continuation of the current RGP Authorization #MAG910390 for the above-referenced location (the "Site"). The purpose of this Permit request is to allow for the discharge of treated groundwater associated with a groundwater recovery and treatment system as part of ongoing site remediation for the above referenced Site as described in the *Remedy Operation Status Submittal* provided to MADEP in August 2002. An executed Notice of Intent is included as **Appendix A**.

As described in the attached Notice of Intent, groundwater will be recovered from up to three groundwater recovery wells and processed through a low-profile air stripper, polished through a 500-pound high-pressure liquid-phase GACA vessel, and discharged into the municipal storm drain network in accordance with the former National Pollution Discharge Elimination System (NPDES) Permit Exclusion for the Site. The treated discharge is directed to the local storm drain located on Canal Street which is ultimately discharged into the Blackstone River. Figures depicting the Site location, the treatment system layout, the approximate location of the discharge outfall into the Blackstone River and a System Description narrative are included in **Appendix B**.

Laboratory reports for groundwater samples collected from the influent and effluent points of the groundwater pump and treatment (GWPT) system are included in **Appendix C**, and the USGS StreamStats Streamflow Statistics Report used to derive the low-flow dilution at the outfall is included as **Appendix D**. The applicable endangered species report is included as **Appendix E**, and a Massachusetts DEP Priority Resource Map for the Site and surroundings is included as **Appendix F**.

If you have any questions regarding the contents of this submittal or our request for a Remediation General Permit to continue discharge under the guidelines of the Massachusetts Contingency Plan (MCP), please do not hesitate to contact the undersigned. Thank you for your consideration.

Sincerely,

ETS

A handwritten signature in blue ink, appearing to read 'RHA', is written over a faint, light blue rectangular stamp.

Reginald H. Achilles, P.E.
President

cc: JEMS of New England, Inc.

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 :		Facility/site mailing address:	
Location of facility/site : longitude: _____ latitude: _____	Facility SIC code(s):	Street:	
b) Name of facility/site owner : Fadi El-Massih		Town:	
Email address of facility/site owner:	State:	Zip:	County:
Telephone no. of facility/site owner :			
Fax no. of facility/site owner :	Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private____ 4. Other ____ if so, describe:		
Address of owner (if different from site):			
Street:			
Town:	State:	Zip:	County:
c) Legal name of operator :	Operator telephone no:		
	Operator fax no.:		Operator email:
Operator contact name and title:			
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: _____ 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.	
<u>Activity Category</u>	<u>Activity Sub-Category</u>
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) ____
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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:	
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 _____ Is maximum flow a design value ? Y___ N___ Average flow (include units) _____ Is average flow a design value or estimate? _____
3) Latitude and longitude of each discharge within 100 feet: pt.1: lat. _____ long. _____; pt.2: lat. _____ long. _____; 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 _____ end _____	
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).	

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.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
1. Total Suspended Solids (TSS)											
2. Total Residual Chlorine (TRC)											
3. Total Petroleum Hydrocarbons (TPH)											
4. Cyanide (CN)	57125										
5. Benzene (B)	71432										
6. Toluene (T)	108883										
7. Ethylbenzene (E)	100414										
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207										
9. Total BTEX ²	n/a										
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934										
11. Methyl-tert-Butyl Ether (MtBE)	1634044										
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650										

* 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.

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

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

⁴The sum of individual phthalate compounds.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
h. Acenaphthene	83329										
i. Acenaphthylene	208968										
j. Anthracene	120127										
k. Benzo(ghi) Perylene	191242										
l. Fluoranthene	206440										
m. Fluorene	86737										
n. Naphthalene	91203										
o. Phenanthrene	85018										
p. Pyrene	129000										
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.										
38. Chloride	16887006										
39. Antimony	7440360										
40. Arsenic	7440382										
41. Cadmium	7440439										
42. Chromium III (trivalent)	16065831										
43. Chromium VI (hexavalent)	18540299										
44. Copper	7440508										
45. Lead	7439921										
46. Mercury	7439976										
47. Nickel	7440020										
48. Selenium	7782492										
49. Silver	7440224										
50. Zinc	7440666										
51. Iron	7439896										
Other (describe):											

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>

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

<i>Step 1:</i> 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?
<i>Step 2:</i> 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:_____ DF:_____ 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:

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:						
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 _____ gpm Maximum flow rate of treatment system _____ gpm

Design flow rate of treatment system _____ 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:					
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 _____					
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water _____ 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)? _____					
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.

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:

Operator signature:



Printed Name & Title:

Date:

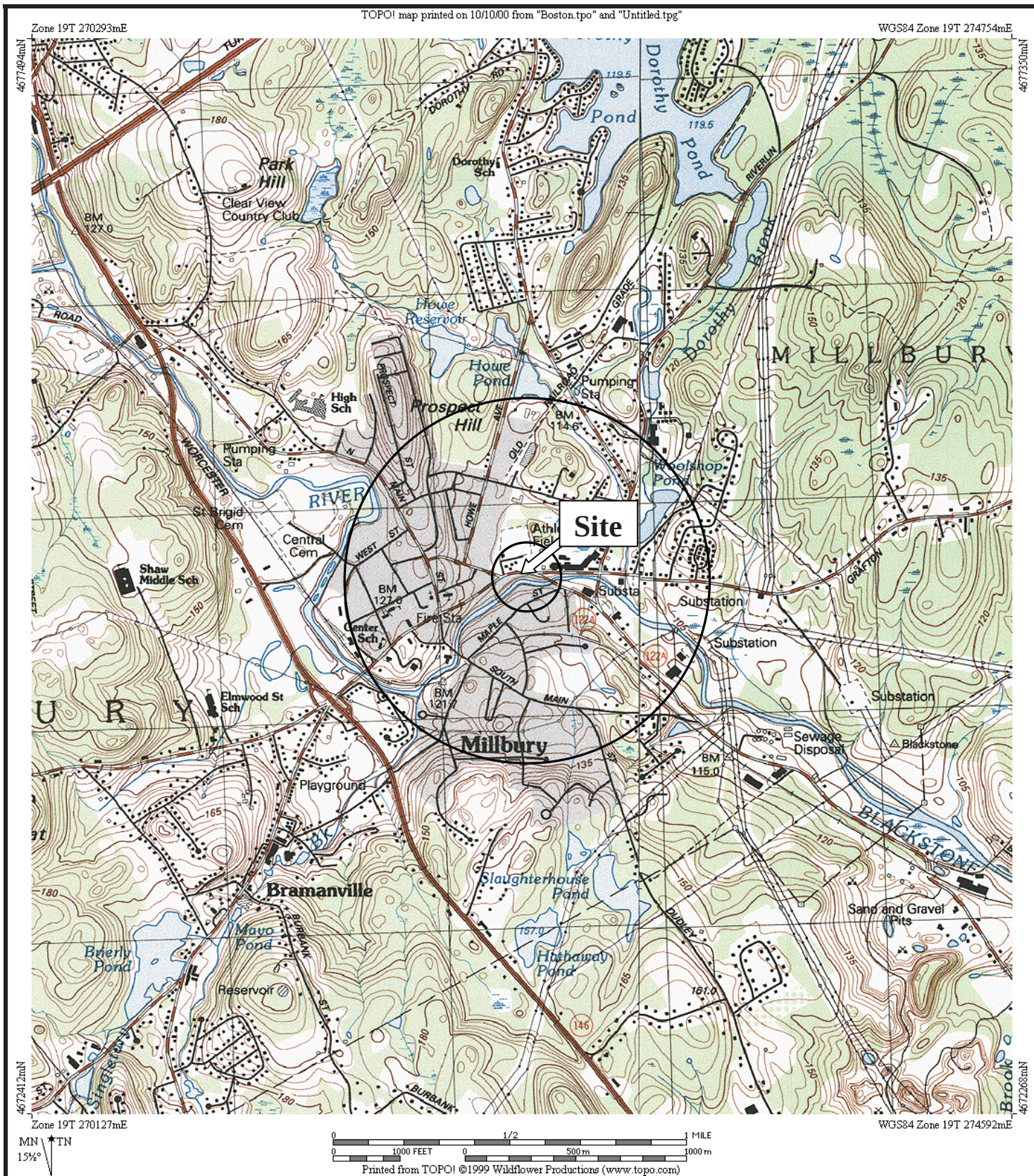


Figure 1

Site Location

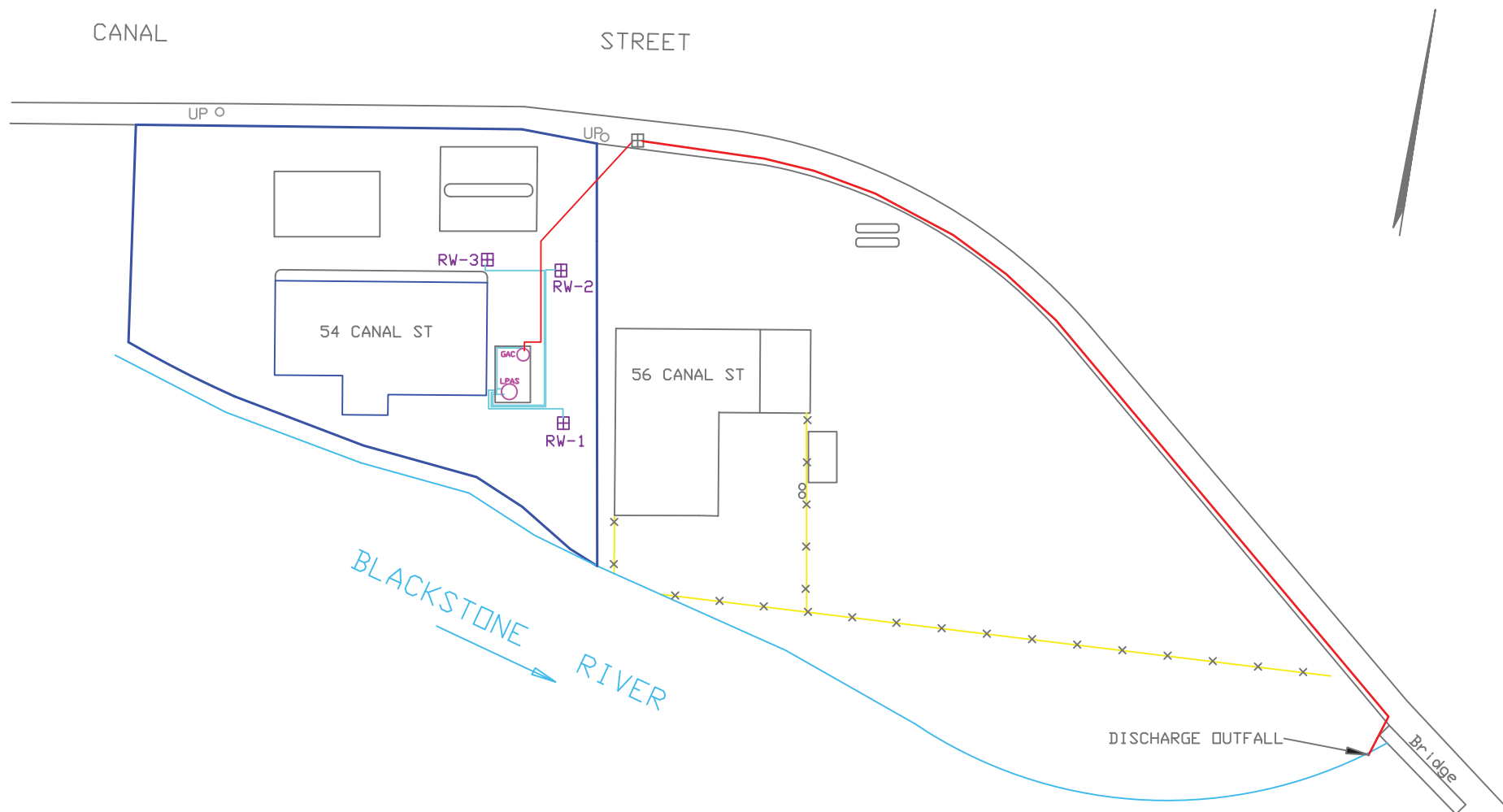
4,674,878m N 272,423m E



ETS

Environmental Consulting and Management Services

Former Honey Farms
54 Canal Street
Millbury, MA
MADEP RTN 2-1018



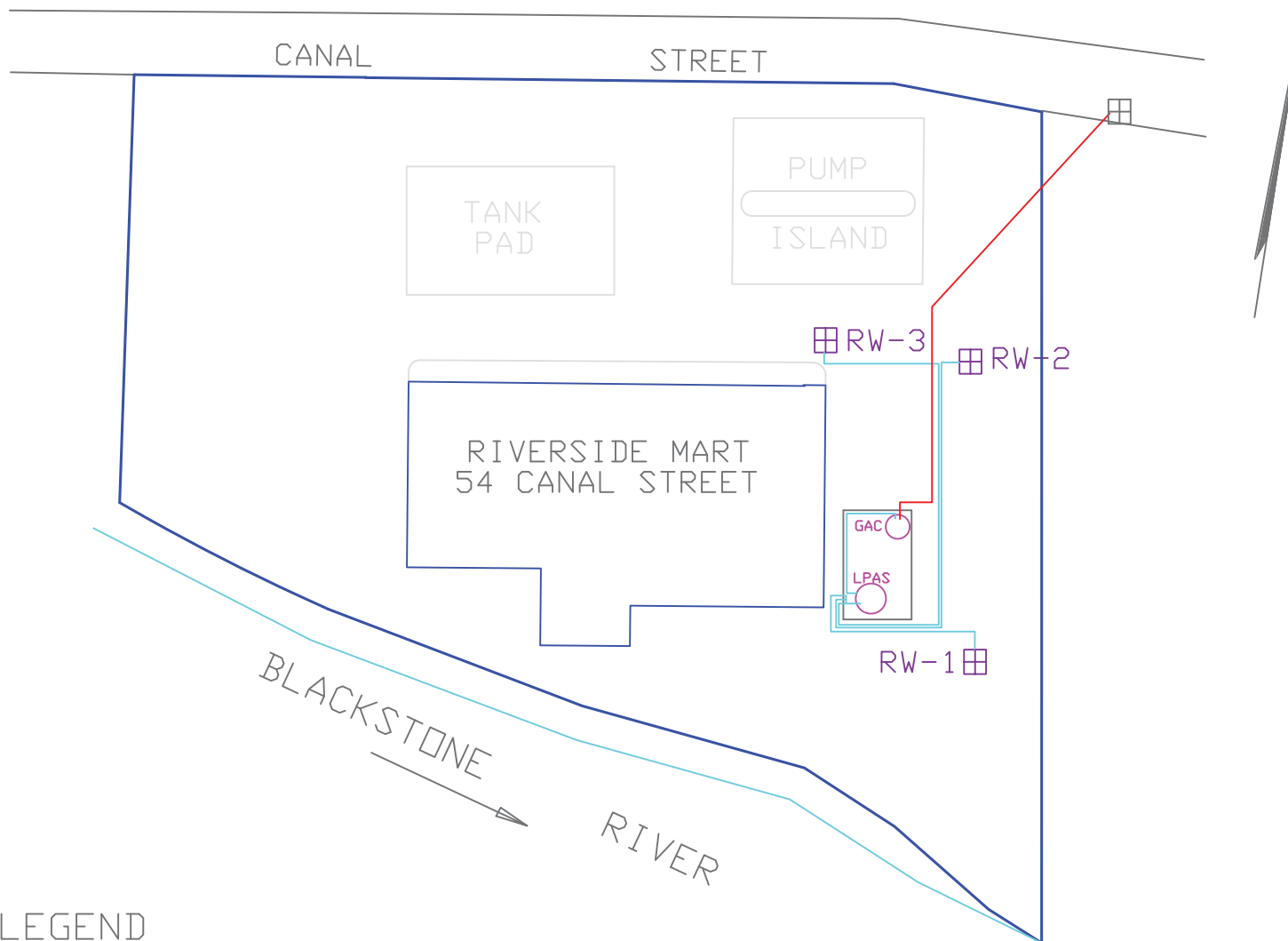
LEGEND

- MW-1 ⊕ MONITORING WELL W/WATER ELEVATION IN FEET
- 85.56
- RW-1 ⊕ RECOVERY WELL
- MW-5S ⊕ NESTED MONITORING WELL
- MW-2 ⊕ SOIL VAPOR EXTRACTION WELL
- TW-1 ⊗ DESTROYED MONITORING WELL
- UP ○ UTILITY POLE
- WG ⊗ WATER GATE VALVE
- 84.0
- GROUNDWATER CONTOUR W/WATER ELEVATION IN FEET
- SITE PROPERTY BOUNDARY APPROX



FIGURE 1 TREATED GW DISCHARGE MAP

LOCATION	54 CANAL STREET MILLBURY, MA
SCALE	1" = 50' APPROX. JO6-GWDIS



LEGEND

- RW-1  GW RECOVERY WELL
-  GW RECOVERY LINE
-  TREATED GW DISCHARGE LINE
-  SITE PROPERTY BOUNDARY APPROX





ETS
ENVIRONMENTAL CONSULTING and MANAGEMENT SERVICES

FIGURE 2 GWPT SYSTEM LAYOUT	
LOCATION	54 CANAL STREET MILLBURY, MA
SCALE	1" = 50' APPROX. J06-GWPT

4.2 Groundwater Pump and Treatment System

In accordance with the Phase IV RIP, a groundwater pump and treatment (GPT) system and subsequent modifications were installed between June and October 1999 to reduce the groundwater level and maintain hydraulic control, thereby supplementing the on-Site SVE system to reduce dissolved- and vapor-phase hydrocarbons in soil and groundwater at the Site.

The GPT system includes three recovery wells (RW-1, RW-2 and RW-3) constructed of 18-inch polyvinyl chloride (PVC) culvert pipe installed to a depth of approximately 18 feet below grade with 10 feet of perforations at the bottom portion of the culvert pipes. Each recovery well includes a $\frac{3}{4}$ horsepower Gould Model 3885 WE07H electrical submersible pump designed to pump 10 gallons per minute at 50 feet of head.

A 10-foot by 16-foot gable roof remediation shed was installed on a concrete pad along the north side of the Site building to house surface components for the SVE and GPT system. Recovered groundwater is filtered through a series of Rosedale Model 8 bag filter assembly and treated through five-tray Shallow Tray Model 2331P air stripper with a 500-pound liquid GAC polish unit prior to final discharge into the municipal storm drain network in accordance with the National Pollution Discharge Elimination System (NPDES) Permit Exclusion (#99-050) for the Site.

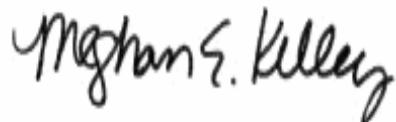
December 16, 2010

Reggie Achilles
Entact Solutions, Inc.
One Dix Street
Worcester, MA 01609

Project Location: 54 Canal St., Millbury, MA
Client Job Number:
Project Number: JEMS-06
Laboratory Work Order Number: 10L0118

Enclosed are results of analyses for samples received by the laboratory on December 3, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

Entact Solutions, Inc.
One Dix Street
Worcester, MA 01609
ATTN: Reggie Achilles

REPORT DATE: 12/16/2010

PURCHASE ORDER NUMBER:

PROJECT NUMBER: JEMS-06

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10L0118

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

PROJECT LOCATION: 54 Canal St., Millbury, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
System Effluent	10L0118-01	Ground Water		EPA 1664A	
				EPA 504.1	
				SM18-20 2540D	
				SM18-20 3500 Cr D	
				SW-846 6010B	
				SW-846 8260B	
				SW-846 8270C	
System Influent	10L0118-02	Ground Water		Tri Chrome Calc.	
				EPA 1664A	
				EPA 504.1	
				SM18-20 2540D	
				SM18-20 3500 Cr D	
				SW-846 6010B	
				SW-846 8260B	
				SW-846 8270C	
				Tri Chrome Calc.	

CASE NARRATIVE SUMMARY

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

SM18-20 3500 Cr D**Qualifications:**

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:**Hexavalent Chromium**

10L0118-01[System Effluent], 10L0118-02[System Influent], B023314-MS1, B023314-MSD1

SW-846 6010B**Qualifications:**

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

Analyte & Samples(s) Qualified:**Iron**

10L0118-01[System Effluent], B023406-MS1

SW-846 8260B**Qualifications:**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:**Acetone, Methyl tert-Butyl Ether (MTBE), tert-Butyl Alcohol (TBA)**

B023293-BS1, B023293-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.

Analyte & Samples(s) Qualified:**tert-Butyl Alcohol (TBA)**

10L0118-01[System Effluent], 10L0118-02[System Influent], B023293-BLK1, B023293-BS1, B023293-BSD1

SW-846 8270C**Qualifications:**

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene**

B023219-BS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "M. Erickson", is displayed on a light gray rectangular background.

Michael A. Erickson
Laboratory Director

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

Project Location: 54 Canal St., Millbury, MA

Sample Description:

Work Order: 10L0118

Date Received: 12/3/2010

Field Sample #: System Effluent

Sampled: 12/2/2010 10:00

Sample ID: 10L0118-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260B	12/7/10	12/7/10 12:45	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260B	12/7/10	12/7/10 12:45	TJR
Benzene	ND	1.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 12:45	TJR
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260B	12/7/10	12/7/10 12:45	TJR
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 12:45	TJR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 12:45	TJR
Toluene	ND	1.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 12:45	TJR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 12:45	TJR
o-Xylene	ND	1.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 12:45	TJR
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	111	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	97.2	70-130							

Project Location: 54 Canal St., Millbury, MA

Sample Description:

Work Order: 10L0118

Date Received: 12/3/2010

Field Sample #: System Effluent

Sampled: 12/2/2010 10:00

Sample ID: 10L0118-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 10:36	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	86.0	30-130							
2-Fluorobiphenyl	99.9	30-130							
Terphenyl-d14	47.8	30-130							

Project Location: 54 Canal St., Millbury, MA

Sample Description:

Work Order: 10L0118

Date Received: 12/3/2010

Field Sample #: System Effluent

Sampled: 12/2/2010 10:00

Sample ID: 10L0118-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.010	mg/L	1		SW-846 6010B	12/9/10	12/9/10 11:52	OP
Chromium, Trivalent	0.0		mg/L	1		Tri Chrome Calc.	12/9/10	12/9/10 11:52	OP
Iron	3.3	0.050	mg/L	1	MS-19	SW-846 6010B	12/9/10	12/9/10 11:52	OP
Lead	ND	0.010	mg/L	1		SW-846 6010B	12/9/10	12/9/10 11:52	OP
Nickel	ND	0.010	mg/L	1		SW-846 6010B	12/9/10	12/9/10 11:52	OP
Zinc	ND	0.020	mg/L	1		SW-846 6010B	12/9/10	12/9/10 11:52	OP

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

Project Location: 54 Canal St., Millbury, MA

Sample Description:

Work Order: 10L0118

Date Received: 12/3/2010

Field Sample #: System Effluent

Sampled: 12/2/2010 10:00

Sample ID: 10L0118-01

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.0040	mg/L	1	H-03	SM18-20 3500 Cr D	12/7/10	12/7/10 14:30	AED
Total Suspended Solids	ND	5.0	mg/L	1		SM18-20 2540D	12/7/10	12/8/10 13:00	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.5	mg/L	1		EPA 1664A	12/7/10	12/7/10 9:20	LL

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

Project Location: 54 Canal St., Millbury, MA

Sample Description:

Work Order: 10L0118

Date Received: 12/3/2010

Field Sample #: System Effluent

Sampled: 12/2/2010 10:00

Sample ID: 10L0118-01

Sample Matrix: Ground Water

Drinking Water Organics EPA 504.1

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2-Dibromoethane (EDB) (1)	ND	0.020	µg/L	1		EPA 504.1	12/10/10	12/10/10 15:17	JB
Surrogates	% Recovery	Recovery Limits	Flag						
1,3-Dibromopropane (1)	120	70-130						12/10/10 15:17	
1,3-Dibromopropane (2)	106	70-130						12/10/10 15:17	

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

Project Location: 54 Canal St., Millbury, MA

Sample Description:

Work Order: 10L0118

Date Received: 12/3/2010

Field Sample #: System Influent

Sampled: 12/2/2010 10:30

Sample ID: 10L0118-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260B	12/7/10	12/7/10 13:15	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260B	12/7/10	12/7/10 13:15	TJR
Benzene	6.2	1.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 13:15	TJR
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1	V-16	SW-846 8260B	12/7/10	12/7/10 13:15	TJR
Ethylbenzene	1.6	1.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 13:15	TJR
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 13:15	TJR
Toluene	ND	1.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 13:15	TJR
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 13:15	TJR
o-Xylene	6.6	1.0	µg/L	1		SW-846 8260B	12/7/10	12/7/10 13:15	TJR
Surrogates	% Recovery	Recovery Limits	Flag						
1,2-Dichloroethane-d4	115	70-130							
Toluene-d8	101	70-130							
4-Bromofluorobenzene	99.6	70-130							

Project Location: 54 Canal St., Millbury, MA

Sample Description:

Work Order: 10L0118

Date Received: 12/3/2010

Field Sample #: System Influent

Sampled: 12/2/2010 10:30

Sample ID: 10L0118-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Acenaphthylene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Anthracene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Benzo(a)anthracene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Benzo(a)pyrene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Benzo(b)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Benzo(g,h,i)perylene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Benzo(k)fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Chrysene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Dibenz(a,h)anthracene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Fluoranthene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Fluorene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
2-Methylnaphthalene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Naphthalene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Phenanthrene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Pyrene	ND	5.0	µg/L	1		SW-846 8270C	12/6/10	12/9/10 17:10	BGL
Surrogates	% Recovery	Recovery Limits	Flag						
Nitrobenzene-d5	63.2	30-130							
2-Fluorobiphenyl	75.5	30-130							
Terphenyl-d14	32.9	30-130							

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

Project Location: 54 Canal St., Millbury, MA

Sample Description:

Work Order: 10L0118

Date Received: 12/3/2010

Field Sample #: System Influent

Sampled: 12/2/2010 10:30

Sample ID: 10L0118-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.010	mg/L	1		SW-846 6010B	12/9/10	12/9/10 12:23	OP
Chromium, Trivalent	0.0		mg/L	1		Tri Chrome Calc.	12/9/10	12/9/10 12:23	OP
Iron	11	0.050	mg/L	1		SW-846 6010B	12/9/10	12/9/10 12:23	OP
Lead	ND	0.010	mg/L	1		SW-846 6010B	12/9/10	12/9/10 12:23	OP
Nickel	ND	0.010	mg/L	1		SW-846 6010B	12/9/10	12/9/10 12:23	OP
Zinc	0.022	0.020	mg/L	1		SW-846 6010B	12/9/10	12/9/10 12:23	OP

Project Location: 54 Canal St., Millbury, MA

Sample Description:

Work Order: 10L0118

Date Received: 12/3/2010

Field Sample #: System Influent

Sampled: 12/2/2010 10:30

Sample ID: 10L0118-02

Sample Matrix: Ground Water

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	0.0040	mg/L	1	H-03	SM18-20 3500 Cr D	12/7/10	12/7/10 14:30	AED
Total Suspended Solids	6.0	5.0	mg/L	1		SM18-20 2540D	12/7/10	12/8/10 13:00	LL
Silica Gel Treated HEM (SGT-HEM)	ND	1.6	mg/L	1		EPA 1664A	12/7/10	12/7/10 9:20	LL

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

Project Location: 54 Canal St., Millbury, MA

Sample Description:

Work Order: 10L0118

Date Received: 12/3/2010

Field Sample #: System Influent

Sampled: 12/2/2010 10:30

Sample ID: 10L0118-02

Sample Matrix: Ground Water

Drinking Water Organics EPA 504.1

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2-Dibromoethane (EDB) (1)	ND	0.020	µg/L	1		EPA 504.1	12/10/10	12/10/10 15:43	JB
Surrogates	% Recovery	Recovery Limits	Flag						
1,3-Dibromopropane (1)	121	70-130						12/10/10 15:43	
1,3-Dibromopropane (2)	107	70-130						12/10/10 15:43	

Sample Extraction Data**EPA 1664A**

Lab Number [Field ID]	Batch	Initial [mL]	Date	
10L0118-01 [System Effluent]	B023281	950	12/07/10	
10L0118-02 [System Influent]	B023281	890	12/07/10	

Prep Method: EPA 504 water-EPA 504.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
10L0118-01 [System Effluent]	B023509	35.0	35.0	12/10/10
10L0118-02 [System Influent]	B023509	35.0	35.0	12/10/10

SM18-20 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date	
10L0118-01 [System Effluent]	B023312	100	12/07/10	
10L0118-02 [System Influent]	B023312	100	12/07/10	

SM18-20 3500 Cr D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
10L0118-01 [System Effluent]	B023314	50.0	50.0	12/07/10
10L0118-02 [System Influent]	B023314	50.0	50.0	12/07/10

Prep Method: SW-846 3005A-SW-846 6010B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
10L0118-01 [System Effluent]	B023406	50.0	50.0	12/09/10
10L0118-02 [System Influent]	B023406	50.0	50.0	12/09/10

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
10L0118-01 [System Effluent]	B023293	5	5.00	12/07/10
10L0118-02 [System Influent]	B023293	5	5.00	12/07/10

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
10L0118-01 [System Effluent]	B023219	1000	1.00	12/06/10
10L0118-02 [System Influent]	B023219	1000	1.00	12/06/10

Prep Method: SW-846 3005A-Tri Chrome Calc.

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
10L0118-01 [System Effluent]	B023407	1.00	1.00	12/09/10
10L0118-02 [System Influent]	B023407	1.00	1.00	12/09/10

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023293 - SW-846 5030B										
Blank (B023293-BLK1)				Prepared & Analyzed: 12/07/10						
Acetone	ND	50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	28.2		µg/L	25.0		113	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.4		µg/L	25.0		97.5	70-130			
LCS (B023293-BS1)				Prepared & Analyzed: 12/07/10						
Acetone	142	50	µg/L	100		142 *	70-130	25		L-02
tert-Amyl Methyl Ether (TAME)	12.5	0.50	µg/L	10.0		125	70-130	25		
Benzene	11.9	1.0	µg/L	10.0		119	70-130	25		
tert-Butyl Alcohol (TBA)	137	20	µg/L	100		137 *	70-130	25		L-02, V-16
Ethylbenzene	11.5	1.0	µg/L	10.0		115	70-130	25		
Methyl tert-Butyl Ether (MTBE)	13.2	1.0	µg/L	10.0		132 *	70-130	25		L-02
Toluene	11.4	1.0	µg/L	10.0		114	70-130	25		
m+p Xylene	23.2	2.0	µg/L	20.0		116	70-130	25		
o-Xylene	11.4	1.0	µg/L	10.0		114	70-130	25		
Surrogate: 1,2-Dichloroethane-d4	27.4		µg/L	25.0		110	70-130			
Surrogate: Toluene-d8	24.8		µg/L	25.0		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.7	70-130			
LCS Dup (B023293-BS1)				Prepared & Analyzed: 12/07/10						
Acetone	147	50	µg/L	100		147 *	70-130	3.32	25	L-02
tert-Amyl Methyl Ether (TAME)	12.8	0.50	µg/L	10.0		128	70-130	2.77	25	
Benzene	11.7	1.0	µg/L	10.0		117	70-130	1.02	25	
tert-Butyl Alcohol (TBA)	157	20	µg/L	100		157 *	70-130	13.5	25	L-02, V-16
Ethylbenzene	11.1	1.0	µg/L	10.0		111	70-130	3.37	25	
Methyl tert-Butyl Ether (MTBE)	13.7	1.0	µg/L	10.0		137 *	70-130	3.86	25	L-02
Toluene	11.3	1.0	µg/L	10.0		113	70-130	0.884	25	
m+p Xylene	22.5	2.0	µg/L	20.0		112	70-130	2.89	25	
o-Xylene	11.3	1.0	µg/L	10.0		113	70-130	0.442	25	
Surrogate: 1,2-Dichloroethane-d4	28.2		µg/L	25.0		113	70-130			
Surrogate: Toluene-d8	25.2		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	25.2		µg/L	25.0		101	70-130			

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B023219 - SW-846 3510C
Blank (B023219-BLK1)

Prepared: 12/06/10 Analyzed: 12/09/10

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
Pyrene	ND	5.0	µg/L							
Surrogate: Nitrobenzene-d5	84.4		µg/L	100		84.4	30-130			
Surrogate: 2-Fluorobiphenyl	95.0		µg/L	100		95.0	30-130			
Surrogate: Terphenyl-d14	103		µg/L	100		103	30-130			

LCS (B023219-BS1)

Prepared: 12/06/10 Analyzed: 12/09/10

Acenaphthene	77.1	5.0	µg/L	100		77.1	40-140			
Acenaphthylene	73.3	5.0	µg/L	100		73.3	40-140			
Anthracene	69.5	5.0	µg/L	100		69.5	40-140			
Benzo(a)anthracene	83.5	5.0	µg/L	100		83.5	40-140			
Benzo(a)pyrene	78.4	5.0	µg/L	100		78.4	40-140			
Benzo(b)fluoranthene	81.9	5.0	µg/L	100		81.9	40-140			
Benzo(g,h,i)perylene	93.2	5.0	µg/L	100		93.2	40-140			V-20
Benzo(k)fluoranthene	68.9	5.0	µg/L	100		68.9	40-140			
Chrysene	79.3	5.0	µg/L	100		79.3	40-140			
Dibenz(a,h)anthracene	104	5.0	µg/L	100		104	40-140			V-20
Fluoranthene	73.0	5.0	µg/L	100		73.0	40-140			
Fluorene	74.8	5.0	µg/L	100		74.8	40-140			
Indeno(1,2,3-cd)pyrene	120	5.0	µg/L	100		120	40-140			V-20
2-Methylnaphthalene	80.6	5.0	µg/L	100		80.6	40-140			
Naphthalene	75.0	5.0	µg/L	100		75.0	40-140			
Phenanthrene	88.2	5.0	µg/L	100		88.2	40-140			
Pyrene	76.6	5.0	µg/L	100		76.6	40-140			
Surrogate: Nitrobenzene-d5	67.3		µg/L	100		67.3	30-130			
Surrogate: 2-Fluorobiphenyl	78.4		µg/L	100		78.4	30-130			
Surrogate: Terphenyl-d14	83.1		µg/L	100		83.1	30-130			

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B023406 - SW-846 3005A
Blank (B023406-BLK1)

Prepared & Analyzed: 12/09/10

Chromium	ND	0.010	mg/L							
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Zinc	ND	0.020	mg/L							

LCS (B023406-BS1)

Prepared & Analyzed: 12/09/10

Chromium	0.493	0.010	mg/L	0.500		98.5	80-120			
Iron	0.501	0.050	mg/L	0.500		100	80-120			
Lead	0.481	0.010	mg/L	0.500		96.3	80-120			
Nickel	0.490	0.010	mg/L	0.500		98.0	90-120			
Zinc	0.494	0.020	mg/L	0.500		98.7	80-120			

LCS Dup (B023406-BSD1)

Prepared & Analyzed: 12/09/10

Chromium	0.496	0.010	mg/L	0.500		99.1	80-120	0.617	20	
Iron	0.549	0.050	mg/L	0.500		110	80-120	9.22	20	
Lead	0.488	0.010	mg/L	0.500		97.5	80-120	1.26	20	
Nickel	0.493	0.010	mg/L	0.500		98.7	90-120	0.618	20	
Zinc	0.511	0.020	mg/L	0.500		102	80-120	3.39	20	

Duplicate (B023406-DUP1)
Source: 10L0118-01

Prepared & Analyzed: 12/09/10

Chromium	ND	0.010	mg/L		ND			NC	20	
Iron	3.04	0.050	mg/L		3.33			8.99	20	
Lead	ND	0.010	mg/L		ND			NC	20	
Nickel	ND	0.010	mg/L		ND			NC	20	
Zinc	0.0388	0.020	mg/L		ND			NC	20	

Matrix Spike (B023406-MS1)
Source: 10L0118-01

Prepared & Analyzed: 12/09/10

Chromium	0.489	0.010	mg/L	0.500	0.00334	97.1	75-125			
Iron	3.69	0.050	mg/L	0.500	3.33	73.2	* 75-125			MS-19
Lead	0.472	0.010	mg/L	0.500	0.00271	93.8	75-125			
Nickel	0.483	0.010	mg/L	0.500	0.00396	95.9	75-125			
Zinc	0.519	0.020	mg/L	0.500	0.0169	100	75-125			

Batch B023407 - SW-846 3005A
Blank (B023407-BLK1)

Prepared & Analyzed: 12/09/10

Chromium, Trivalent	0.0		mg/L							
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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B023281 - EPA 1664A										
Blank (B023281-BLK1)				Prepared & Analyzed: 12/07/10						
Silica Gel Treated HEM (SGT-HEM)	ND	1.4	mg/L							
LCS (B023281-BS1)				Prepared & Analyzed: 12/07/10						
Silica Gel Treated HEM (SGT-HEM)	18		mg/L	20.0		88.0	64-132			
LCS Dup (B023281-BSD1)				Prepared & Analyzed: 12/07/10						
Silica Gel Treated HEM (SGT-HEM)	18		mg/L	20.0		89.5	64-132	1.69		
Batch B023312 - SM18-20 2540D										
Blank (B023312-BLK1)				Prepared: 12/07/10 Analyzed: 12/08/10						
Total Suspended Solids	ND	2.5	mg/L							
Blank (B023312-BLK2)				Prepared: 12/07/10 Analyzed: 12/08/10						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B023312-BS1)				Prepared: 12/07/10 Analyzed: 12/08/10						
Total Suspended Solids	179	5.0	mg/L	200		89.5	85.9-106			
LCS Dup (B023312-BSD1)				Prepared: 12/07/10 Analyzed: 12/08/10						
Total Suspended Solids	184	5.0	mg/L	200		92.0	85.9-106	2.75		
Batch B023314 - SM18-20 3500 Cr D										
Blank (B023314-BLK1)				Prepared & Analyzed: 12/07/10						
Hexavalent Chromium	ND	0.0040	mg/L							
LCS (B023314-BS1)				Prepared & Analyzed: 12/07/10						
Hexavalent Chromium	0.099	0.0040	mg/L	0.100		99.2	80-120			
LCS Dup (B023314-BSD1)				Prepared & Analyzed: 12/07/10						
Hexavalent Chromium	0.10	0.0040	mg/L	0.100		103	80-120	3.96		
Matrix Spike (B023314-MS1)				Prepared & Analyzed: 12/07/10						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100	ND	111	75-125			H-03
Matrix Spike Dup (B023314-MSD1)				Prepared & Analyzed: 12/07/10						
Hexavalent Chromium	0.11	0.0040	mg/L	0.100	ND	113	75-125	1.20		H-03

QUALITY CONTROL
Drinking Water Organics EPA 504.1 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B023509 - EPA 504 water
Blank (B023509-BLK1)

Prepared & Analyzed: 12/10/10

1,2-Dibromoethane (EDB)	ND	0.020	µg/L							
1,2-Dibromoethane (EDB) [2C]	ND	0.020	µg/L							
Surrogate: 1,3-Dibromopropane	1.13		µg/L	1.00		113	70-130			
Surrogate: 1,3-Dibromopropane [2C]	0.918		µg/L	1.00		91.8	70-130			

LCS (B023509-BS1)

Prepared & Analyzed: 12/10/10

1,2-Dibromoethane (EDB)	0.202	0.020	µg/L	0.175		115	70-130			
1,2-Dibromoethane (EDB) [2C]	0.194	0.020	µg/L	0.175		111	70-130			
Surrogate: 1,3-Dibromopropane	1.11		µg/L	1.00		111	70-130			
Surrogate: 1,3-Dibromopropane [2C]	0.913		µg/L	1.00		91.3	70-130			

LCS Dup (B023509-BSD1)

Prepared & Analyzed: 12/10/10

1,2-Dibromoethane (EDB)	0.208	0.020	µg/L	0.175		119	70-130	2.93		
1,2-Dibromoethane (EDB) [2C]	0.199	0.020	µg/L	0.175		114	70-130	2.54		
Surrogate: 1,3-Dibromopropane	1.02		µg/L	1.00		102	70-130			
Surrogate: 1,3-Dibromopropane [2C]	0.858		µg/L	1.00		85.8	70-130			

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
H-03	Sample received after recommended holding time was exceeded.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM18-20 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC
SM18-20 3500 Cr D in Water	
Hexavalent Chromium	NY,CT,NH,RI
SW-846 6010B in Water	
Chromium	CT,NH,NY,RI
Iron	CT,NH,NY,RI
Lead	CT,NH,NY,RI
Nickel	CT,NH,NY,RI
Zinc	CT,NH,NY,RI
SW-846 8260B in Water	
Acetone	CT,NH,NY,NC
tert-Amyl Methyl Ether (TAME)	NH,NY,NC
Benzene	CT,NH,NY,NC,RI
tert-Butyl Alcohol (TBA)	NH,NY,NC
1,2-Dibromoethane (EDB)	NC
Ethylbenzene	CT,NH,NY,NC,RI
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,NC
Naphthalene	NH,NY,NC
Toluene	CT,NH,NY,NC,RI
m+p Xylene	CT,NH,NY,NC,RI
o-Xylene	CT,NH,NY,NC,RI
SW-846 8270C in Water	
Acenaphthene	CT,NY,NH,RI
Acenaphthylene	CT,NY,NH,RI
Anthracene	CT,NY,NH,RI
Benzo(a)anthracene	CT,NY,NH,RI
Benzo(a)pyrene	CT,NY,NH,RI
Benzo(b)fluoranthene	CT,NY,NH,RI
Benzo(g,h,i)perylene	CT,NY,NH,RI
Benzo(k)fluoranthene	CT,NY,NH,RI
Chrysene	CT,NY,NH,RI
Dibenz(a,h)anthracene	CT,NY,NH,RI
Fluoranthene	CT,NY,NH,RI
Fluorene	NY,NH,RI
Indeno(1,2,3-cd)pyrene	CT,NY,NH,RI
2-Methylnaphthalene	CT,NY,NH
Naphthalene	CT,NY,NH,RI
Phenanthrene	CT,NY,NH,RI
Pyrene	CT,NY,NH,RI

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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Company Name: ETS Telephone: 508-398-5084 Project # J-06

Address: 1-Dix St. Project Location: WORCESTER, MA. 01609 Client PO#

Attention: RMA DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE

Sampled By: B. LOTTI Email:

Project Proposal Provided? (for billing purposes)
☐ Yes ☐ No

Format: ☐ OPDF ☐ EXCEL ☐ GIS

Collection: ☐ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Domic Code	Analysis Requested
	SYSTEM EFFLUENT	10:00	12-2-10		X	GW	C	TPH 1664
	SYSTEM EFFLUENT	10:30	12-2-10		X	GW	C	EDB
	SYSTEM EFFLUENT				X	GW	C	PAHS 8270
	SYSTEM EFFLUENT				X	GW	C	METALS Cr ³⁺ , Cr ⁶⁺ , Fe, Ni, Pb, Zn
	SYSTEM EFFLUENT				X	GW	C	T.S.S.
	SYSTEM EFFLUENT				X	GW	C	BTEXM 8260C
	SYSTEM EFFLUENT				X	GW	C	TBA, TAME
	SYSTEM EFFLUENT				X	GW	C	ACETONE

Comments:

Turnaround [†]
☒ 7-Day
☐ 10-Day
☐ Other: RUSH

Detection Limit Requirements
 Massachusetts: GW-2

Is your project MCP or RCP?
☐ MCP Analytical Certification Form Required
☐ RCP Analysis Certification Form Required
☐ MA State DW Form Required PWSD #

Matrix Code:
 GW = groundwater
 WW = wastewater
 DW = drinking water
 A = air
 S = soil/solid
 SL = sludge
 O = other

Preservation
☐ I = Iced
☐ H = HCL
☐ M = Methanol
☐ N = Nitric Acid
☐ S = Sulfuric Acid
☐ B = Sodium bisulfate
☐ X = Na hydroxide
☐ T = Na thiosulfate
☐ O = Other

Container
 Dissolved Metals
☐ Field Filtered
☐ Lab to Filter

Cont. Code:
☒ Amber glass
☐ Glass
☐ Plastic
☐ Sterile
☐ Vial
☐ Summa can
☐ Tedlar bag
☐ Other

Sample Receipt Checklist
 CLIENT NAME: ETS RECEIVED BY: CAB DATE: 12/3/10

 1) Was the chain(s) of custody relinquished and signed? Yes No

 2) Does the chain agree with the samples? Yes No

If not, explain:

 3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

 On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

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

 Temperature °C by Temp blank 3.0°C Temperature °C by Temp gun _____

 5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

 6) Are there any samples "On Hold"? Yes No

 Stored where:

 7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

 8) Location where samples are stored: 19

 Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____
Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>4</u>	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic	<u>4</u>	Air Cassette	
40 mL Vial - type listed below	<u>12</u>	SOC Kit	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Non-ConTest Container	
Flashpoint bottle		Other	
Encore		PM 2.5 / PM 10	
Perchlorate Kit		PUF Cartridge	

Laboratory Comments: _____

 40 mL vials: # HCl 6 # Methanol _____
 # Bisulfate 6 CAB 12/3/10 # DI Water _____
 # Thiosulfate 6 Unpreserved _____

Time and Date Frozen: _____

 Do all samples have the proper Acid pH: Yes No N/A

 Do all samples have the proper Base pH: Yes No N/A



Streamflow Statistics Report

Site Location: Massachusetts

Drainage Area: 77.44 mi²

Latitude (NAD83): 42.1927 (42 11 33)

Longitude (NAD83): -71.7555 (-71 45 19)

Low Flow Basin Characteristics			
100% Statewide Low Flow (77.4 mi ²)			
Parameter	Value	Min	Max
Drainage Area (square miles)	77.4	1.61	149
Mean Basin Slope from 250K DEM (percent)	4.33	0.32	24.6
Stratified Drift per Stream Length (square mile per mile)	0.076	0	1.29
Massachusetts Region (dimensionless)	0	0	1

Streamflow Statistics					
Statistic	Flow (ft ³ /s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
D50	80.7	18		41.1	157
D60	59.3	20		2.56	1370
D70	34.3	24		2.12	549
D75	26.4	26		1.94	353
D80	20.2	28		6.85	58.9
D85	15.9	32		5.36	46.4
D90	11.6	37		3.7	35.8
D95	7.68	46		2.23	25.6
D98	4.83	60		1.22	18.1
D99	3.84	65		0.92	15
Low-Flow Statistics					
M7D2Y	7.91	50		2.16	28
AUGD50	16.2	33		5.42	47.7
M7D10Y	3.55	71		0.8	14.6

Group	Name	Population	Status	Lead Office	Recovery Plan Name	Recovery Plan Stage
Birds	Arctic peregrine Falcon (Falco		Recovery	Fairbanks Fish And Wildlife		
Flowering Plants	Small whorled pogonia (Isotria		Threatened	New England Ecological	Small Whorled Pogonia	Final Revision 1
Flowering Plants	Sandplain gerardia (Agalinis		Endangered	Long Island Ecological Services	Sandplain Gerardia	Final

MassDEP - Bureau of Waste Site Cleanup

MCP Numerical Ranking System Map: 500 feet & 0.5 Mile Radii

Site Name:
Riverside Mart
54 Canal Street
Millbury, MA
RTN: 2-000001018
NAD83 MA Coordinates:
0mE, 0mN



The information shown on this map is the best available at the date of printing. For more information please refer to www.mass.gov/mgis/massgis.htm



January 20, 2011

