



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

**5 Post Office Square, Suite 100
BOSTON, MA 02109-3912**

CERTIFIED MAIL

December 28, 2010

Dolores M. Branco
Senior Project Manager
Environmental Management Associates, Inc.
P.O. Box 362
Erving, MA 01344

Re: Authorization to discharge under the Remediation General Permit (RGP) – 910000.
Former D&B Mart site located at 425 Federal Street, Franklin County, Authorization #
MAG910344 - Reissuance

Dear Ms. Branco:

Based on the review of your Notice of Intent (NOI) submitted on behalf of D&B Mart 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. This 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>.

Please note that the checklist includes pollutants from Category I - Petroleum Related Site Remediation, Sub-categories A, and C, for gasoline only sites, and for petroleum sites with additional contamination, respectively. EPA determined that the pollutants from these sub-categories should be included consistent with the influent data you reported in the NOI.

Also, please note that the metals copper, lead and iron included on the list are dilution dependent pollutants and subject to limitations based on a Dilution Factor Range (DFR).

For each parameter the dilution factor of 316 for this site is greater than the allowable DFR established in the RGP. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the (ceiling value) limits for copper of 2,070 ug/L, lead of 430 ug/L, and iron of 5,000 ug/L, shall achieved compliance at your site.

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. Recertification's can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations.

This general permit and authorization to discharge will expire on September 9, 2015. This project reportedly will terminate on February 28, 2015. 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,

A handwritten signature in dark ink, appearing to read "David M. Webster", with a stylized flourish at the end.

David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP

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

NPDES Permit Number:	MAG910344-REISSUANCE
Date Permit Issued:	December, 2010
Facility/Site Name:	Former D&B Mart
Facility/Site Address:	425 Federal Street, Greenfield, MA 01301, Franklin County
	Email address of owner: Not provided; Phone n:413-625-2567
Legal Name of Operator:	Environmental Management Associates, Inc.
Operator contact name, title, and Address:	Dolores M. Branco, P.O. Box 362, Erving, MA 01344
	Email:dbema@comcast.net; Phone n.413-498-2510
Estimated Date of Completion:	02/28/2015
Category and Sub-Category:	Category I- Petroleum Related Site Remediation, Sub-category A. Gasoline Only Sites, and Sub-category C- Petroleum Sites with additional Contamination.
Receiving Water:	Stormdrain to Green 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#60.2/5mL
	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/5.0mg/LmL
	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

	<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)
✓	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) (TertiaryButanol)	Monitor Only (ug/L)/ Me#8260C/ ML 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/ML50 ug/L
	31. Total Phenols	300 ug/l Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML50 ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/l /Me#8270D/ML5ug/L,Me#604 &625/ML10ug/L
	33. Total Phthalates (Phthalate esters) ⁶	3.0 ug/L ** /Me#8270D/ML5ug/L,Me#606/ML10ug/L& Me#625/ML5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/l /Me#8270D/ML5ug/L,Me#606/ML10ug/L& Me#625/ML5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/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/ML5ug/L& Me#625/ML5ug/L
	c. Benzo(b)Fluoranthene ⁷	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	d. Benzo(k)Fluoranthene ⁷	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	e. Chrysene ⁷	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	f. Dibenzo(a,h)anthracene ⁷	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	g. Indeno(1,2,3-cd) Pyrene ⁷	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/l
	h. Acenaphthene	X/Me#8270D/ML5ug/L,Me#610/ML5ug /L & Me#625/ML5ug/L
	i. Acenaphthylene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	j. Anthracene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	l. Fluoranthene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	m. Fluorene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
✓	n. Naphthalene ⁵	20 ug/l / Me#8270D/ ML5ug/L, Me#610/ML5ug/L & Me#625/ML5ug/L
	o. Phenanthrene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/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) ¹¹</u>		
	<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	

	Metal parameter	Total Recoverable Metal Limit @ H¹⁰ = 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l) ¹¹			
		Freshwater	Saltwater		
	42. Chromium III (trivalent) **	48.8/15mL	100/15mL		
	43. Chromium VI (hexavalent) **	11.4/10mL	50.3/10mL		
✓	44. Copper **	2,070/15mL	3.7/15mL		
✓	45. Lead **	430/20mL	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 **	66.6/15mL	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.

⁹Although 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 x 1,000ug/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 x 2 =2,000 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



ENVIRONMENTAL MANAGEMENT ASSOCIATES, INC.

P.O. Box 362, Erving, Massachusetts 01344-0362

Voice (413) 498-2510 • § • Fax (413) 498-2511

November 22, 2010
EMA Project No. 0701-254
MADEP RTN – 1-11931
EMA Document No. 10/000240

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

Attention.: Remediation General Permit NOI Processing

***RE: 425 Federal Street, Greenfield, Massachusetts
MADEP RTN 1-11931
Former RGP No. MAG910344***

To Whom It May Concern:

Attached please find the following [electronic] documents for renewal of a Remediation General Permit (RGP No. MAG910344) for the above facility:

- Remediation General Permit – Notice of Intent;
- Dilution factor calculations;
- System Layout and Trench Detail;
- Process and Instrumentation Diagram;
- Treatment System Layout and Details;
- Plan showing Site Locus and approximate Discharge location;
- MCP NRS Map showing nearby sensitive resources with 500 feet and 0.05 mile radii;
- Table 1 from Dwarf Wedge Mussel Recovery Plan dated 8 February 1993;
- Laboratory Report L1014824

The facility or its' discharge location is not located within an Area of Critical Environmental Concern (Massachusetts). Although the endangered Dwarf Wedge Mussel is located within Franklin County, it is not located proximal to the facility or its discharge location. Refer to the attached excerpt from the Dwarf Wedge Mussel Recovery Plan dated 8 February 1993.

If you have any questions, or require further information, please feel free to contact me by phone at 413-498-2510, or by e-mail at dbema@comcast.net.

Sincerely,
Environmental Management Associates, Inc.



Dolores M. Branco, L.S.P., P.G.
President, Senior Project Manager
DMB:db

Enclosures

ecc: Town of Greenfield, Board of Health
Commonwealth of Massachusetts, DEP-BWSC

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

a) Name of facility/site: Former D&B Mart		Facility/site mailing address:	
Location of facility/site: longitude: 72° 35' 20.59" latitude: 42° 36' 21.07"	Facility SIC code(s): 447110	Street: 425 Federal Street	
b) Name of facility/site owner: Estate of Sebastian Ruggeri		Town: Greenfield	
Email address of owner:	State: MA	Zip: 01301	County: Franklin
Telephone No. of facility/site owner: 413-625-2567			
FAX No. of facility/site owner: 413-625-2568	Owner is (check one): 1. Federal _____ 2. State/Tribal _____ 3. Private ☒ 4. other, if so describe:		
Address of owner (if different from site):			
Street: PO Box 195			
Town: Shelburne	State: MA	Zip: 01370	County: Franklin
c) Legal name of operator: Environmental Management Associates, Inc.	Operator telephone No.: 413-498-2510		
	Operator FAX No.: 413-498-2511 Operator email: dbema@comcast.net		
Operator contact name and title: Dolores M. Branco, LSP, PG, Senior Project Manager			
Address of operator (if different from owner):	Street: P.O. Box 362		
Town: Erving	State: MA	Zip: 01344	County: Franklin

d) Check Y for "yes" or N "no" for the following:

1. Has a prior NPDES permit exclusion been granted for the Discharge? Y ☒ N ☐, if Y, number: MA-03I-079
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 MA 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 state of NH or

MA: 1-11931

2. permit or license # assigned:

3. state agency contact information: name, location, and telephone number:

Dave Slowick
MADEP-BWSC, 436 Dwight Street, Springfield, MA
413-755-2246

f) Is the site/facility covered by any other EPA permit, including:

1. multi-sector storm water 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: RGP MAG10344

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 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:	
Discharge of groundwater treated by air stripping and GAC.	
b) Provide the following information about each discharge:	
1) Number of discharge points: 1	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow <u>0.0335</u> Is maximum flow a design value ? Y ☒ N ____ Average flow (include units) <u>0.0045</u> Is average flow a design value or estimate? <u>estimate</u>
3) Latitude and longitude of each discharge within 100 feet: pt. 1: lat <u>72.2403</u> long <u>42.5925</u> ; 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 Yes ☒ No ____?
c) Expected dates of discharge (mm/dd/yy): start <u>01/21/2008</u> end <u>02/28/2015</u>	
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.

PARAMETER	CAS Number	Believe Absent	Believe 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 (µg/L)	mass (kg)	concentration (µg/L)	mass (kg)
1. Total Suspended Solids (TSS)			✓	1	grab	2540D	5.0 mg/L	14000	0.1375	14000	0.1375
2. Total Residual Chlorine (TRC)		✓		1	grab	4500CL-D	0.02 mg/L	0		0	
3. Total Petroleum Hydrocarbons (TPH)			✓	1	grab	1664A	5.20 mg/L	0		0	
4. Cyanide (CN)	57125	✓			grab	4500CN-CE	0.005 mg/L	0		0	
5. Benzene (B)	71432		✓	1	grab	624	10 µg/L	27	0.0003	27	0.0003
6. Toluene (T)	108883		✓	1	grab	624	10 µg/L	0		0	
7. Ethylbenzene (E)	100414		✓	1	grab	624	10 µg/L	370	0.0036	370	0.0036
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207		✓	1	grab	624	20 µg/L	83	0.0008	83	0.0008
9. Total BTEX ²	n/a		✓	1	grab	624	20 µg/L	480	0.0047	480	0.0047
10. Ethylene Dibromide (EDB) (1,2-Dibromo-methane) ³	106934		✓	1	grab	504.1	0.011 µg/L	0		0	
11. Methyl-tert-Butyl Ether (MtBE)	1634044		✓	1	grab	624	200 µg/L	870	0.0085	870	0.0085
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650		✓	1	grab	624	1000 µg/L	0		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	Believe Absent	Believe 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 (µg/L)	mass (kg)	concentration (µg/L)	mass (kg)
13. tert-Amyl Methyl Ether (TAME)	9940508		✓	1	grab	624	200 µg/L	0		0	
14. Naphthalene	91203		✓	1	grab	8270C-SIM	1.0 µg/L	43	0.0004	43	0.0004
15. Carbon Tetrachloride	56235	✓		1	grab	624	10 µg/L	0		0	
16. 1,4-Dichlorobenzene o-DCB)	95501	✓		1	grab	624	50 µg/L	0		0	
17. 1,2-Dichlorobenzene m-DCB)	541731	✓		1	grab	624	50 µg/L	0		0	
18. 1,3-Dichlorobenzene (p-DCB)	106467	✓		1	grab	624	50 µg/L	0		0	
18a. Total Dichlorobenzene		✓		1	grab	624	50 µg/L	0		0	
19. 1,1-Dichloroethane (DCA)	75343	✓		1	grab	624	15 µg/L	0		0	
20. 1,2-Dichloroethane (DCA)	107062	✓		1	grab	624	15 µg/L	0		0	
21. 1,1-Dichloroethene (DCE)	75354	✓		1	grab	624	10 µg/L	0		0	
22. cis-1,2-Dichloroethene (DCE)	156592	✓		1	grab	624	10 µg/L	0		0	
23. Methylene Chloride	75092	✓		1	grab	624	50 µg/L	0		0	
24. Tetrachloroethene (PCE)	127184		✓	1	grab	624	15 µg/L	0		0	
25. 1,1,1-Trichloro-ethane (TCA)	71556	✓		1	grab	624	20 µg/L	0		0	
26. 1,1,2-Trichloro-ethane (TCA)	79005	✓		1	grab	624	15 µg/L	0		0	
27. Trichloroethene (TCE)	79016		✓	1	grab	624	10 µg/L	0		0	

PARAMETER	CAS Number	Believe Absent	Believe 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 (µg/L)	mass (kg)	concentration (µg/L)	mass (kg)
28. Vinyl Chloride (Chloroethene)	75014	✓		1	grab	624	20 µg/L	0		0	
29. Acetone	67641	✓		1	grab	624	100 µg/L	0		0	
30. 1,4-Dioxane	123911	✓		1	grab	624	20000 µg/L	0		0	
31. Total Phenols	108952	✓		1	grab	420.1	0.03 mg/L	0		0	
32. Pentachlorophenol (PCP)	87865	✓		1	grab	8270C-SIM	4.0 µg/L	0		0	
33. Total Phthalates ⁴ (Phthalate esters)		✓		1	grab	8270C	5.0 µg/L	0		0	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate	117817	✓		1	grab	8270C	5.0 µg/L	0		0	
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
a. Benzo(a) Anthracene	56553	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
b. Benzo(a) Pyrene	50328	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
c. Benzo(b) Fluoranthene	205992	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
d. Benzo(k) Fluoranthene	207089	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
e. Chrysene	21801	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
f. Dibenzo(a,h)anthracene	53703	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
g. Indeno (1,2,3-cd) Pyrene	193395	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓				8270C-SIM			0		0

⁴ The Sum of individual phthalate compounds.

PARAMETER	CAS Number	Believe Absent	Believe 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 (µg/L)	mass (kg)	concentration (µg/L)	mass (kg)
h. Acenaphthene	83329	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
i. Acenaphthylene	208968	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
j. Anthracene	120127	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
k. Benzo(ghi) Perylene	191242	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
l. Fluoranthene	206440	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
m. Fluorene	86737	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
n. Naphthalene	91203		✓	1	grab	8270C-SIM	1.0 µg/L	43	0.0004	43	0.0004
o. Phenanthrene	85018	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
p. Pyrene	129000	✓		1	grab	8270C-SIM	1.0 µg/L	0		0	
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817	✓		1	grab	608	0.250 µg/L	0		0	
38. Chloride	16887006	✓		1	grab	4500CL-E	10 mg/L	640	0.0063	640	0.0063
39. Antimony	7440360	✓		1	grab	6020	0.0025 mg/L	0		0	
40. Arsenic	7440382	✓		1	grab	6020	0.0025 mg/L	0		0	
41. Cadmium	7440439	✓		1	grab	6020	0.0010 mg/L	0		0	
42. Chromium III (trivalent)	16065831	✓		1	grab	3500-CR	0.01 mg/L	0		0	
43. Chromium VI (hexavalent)	18540299	✓		1	grab	3500CR-D	0.010 mg/L	0		0	
44. Copper	7440508		✓	1	grab	6020	0.0025 mg/L	2.7	0.00003	2.7	0.00003
45. Lead	7439921		✓	1	grab	6020	0.0025 mg/L	0		0	
46. Mercury	7439976	✓		1	grab	245.1	0.0002 mg/L	0		0	
47. Nickel	7440020	✓		1	grab	6020	0.0025 mg/L	0		0	
48. Selenium	7782492	✓		1	grab	6020	0.005 mg/L	0		0	
49. Silver	7440224	✓		1	grab	6020	0.0020 mg/L	0		0	
50. Zinc	7440666	✓		1	grab	6020	0.0250 mg/L	0		0	
51. Iron	7439896		✓	1	grab	200.7	0.05 mg/L	15000	0.1473	15000	0.1473
Other (describe):											

PARAMETER	CAS Number	Believe Absent	Believe 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 (µg/L)	mass (kg)	concentration (µg/L)	mass (kg)

b) For discharges where **metals** are believed to be 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? Iron
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: Iron DF: 347.66 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 "Yes", list which metals: Iron

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: A multi-phase extraction system draws from a total of 14 extraction wells. The treatment system is composed of an oil cooled liquid ring pump, cyclonic separator, low profile air stripper, liquid GAC, and vapor GAC for treatment of air-stripper off-gas and treatment of influent air stream. Ancillary equipment includes a cartridge filter, transfer pumps, etc.						
b) Identify each applicable treatment unit (check all that apply):	Frac. Tank	Air Stripper ☒	Oil/water separator	Equilization tanks	Bag filter	GAC filter ☒
	Chlorination	De-chlorination	Other (please describe): Influent water passes through a cartridge filter, prior to GAC treatment.			

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 2 gpm Maximum flow rate of treatment system 15 gpm

Design flow rate of treatment system 15 gpm

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

none

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 <u>✓</u>	Wetlands _____	Other(describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Discharge from treatment system directly to a stormwater basin located on Silver Street, final discharge to the Green 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 <u>Class B</u>					
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water <u>10.4</u> 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? Yes <u>✓</u> No _____ If yes, for which pollutant(s)? <u>Pathogens</u>					
Is there a final TMDL? Yes _____ No <u>✓</u> If yes, for which pollutant(s)?					

6. ESA and NHPA Eligibility

Please provide the following information according to requirements of Part 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.

Attached documents: 1. Dilution Factor Calculations; 2. System Layout & Trench Detail; 3. Process & Instrumentation Diagram; 4. Treatment System Layout & Details; 5. Locus Plan showing Site and Discharge location; 6. MCP NRS Map showing nearby sensitive resources with 500 feet & 0.5 mile radii; 7. Table 1 from Dwarf Wedge Mussel Recovery Plan dated 8 Feb 1993; and 8. Analytical Lab Report L1014824.

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: **Former D&B Mart**

Operator signature:



Printed Name & Title: **Dolores M. Branco, LSP, PG, Senior Project Manager**

Date: **11/17/2010**

THIS PAGE LEFT INTENTIONALLY BLANK.

Calculation of Dilution Factor for the Metal Iron.

$$DF = (Q_d + Q_s)/Q_d$$

Where:

DF = Dilution Factor

Q_d = Maximum flow rate of the discharge in cubic feet per second (cfs)

(1.0 gpm = 0.00223 cfs)

Q_s = Receiving Water 7Q10 flow in cfs

Data used:

Q_d = 0.03 cfs (15 gpm*0.00223)

Q_s = 10.9 cfs (provided by USGS, Massachusetts STREAMSTATS)

$$DF = (0.03 \text{ cfs} + 10.4 \text{ cfs}) / 0.03 \text{ cfs}$$

$$DF = 347.66$$

Referring to Appendix IV of the RGP, a Dilution Range >100 for the metal iron results in an effluent limitation of 5,000 $\mu\text{g/L}$.

THIS PAGE LEFT INTENTIONALLY BLANK.

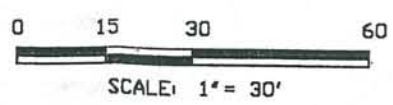
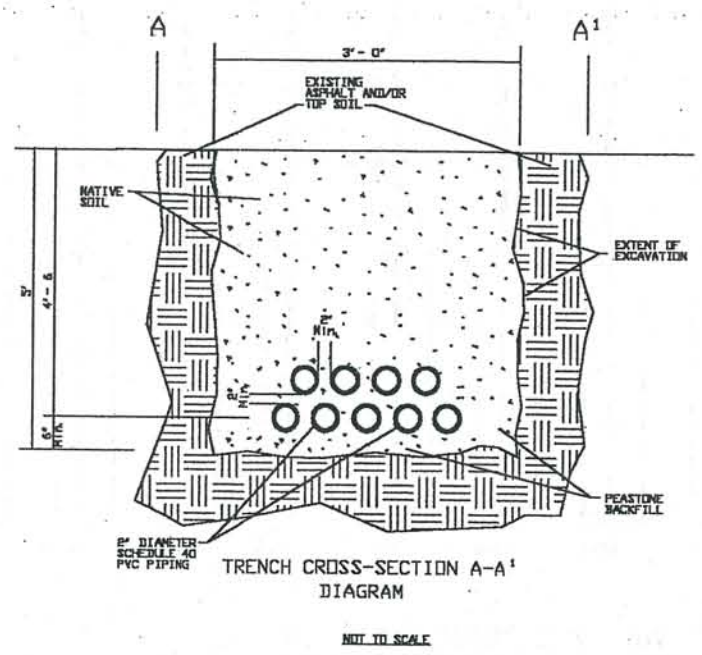
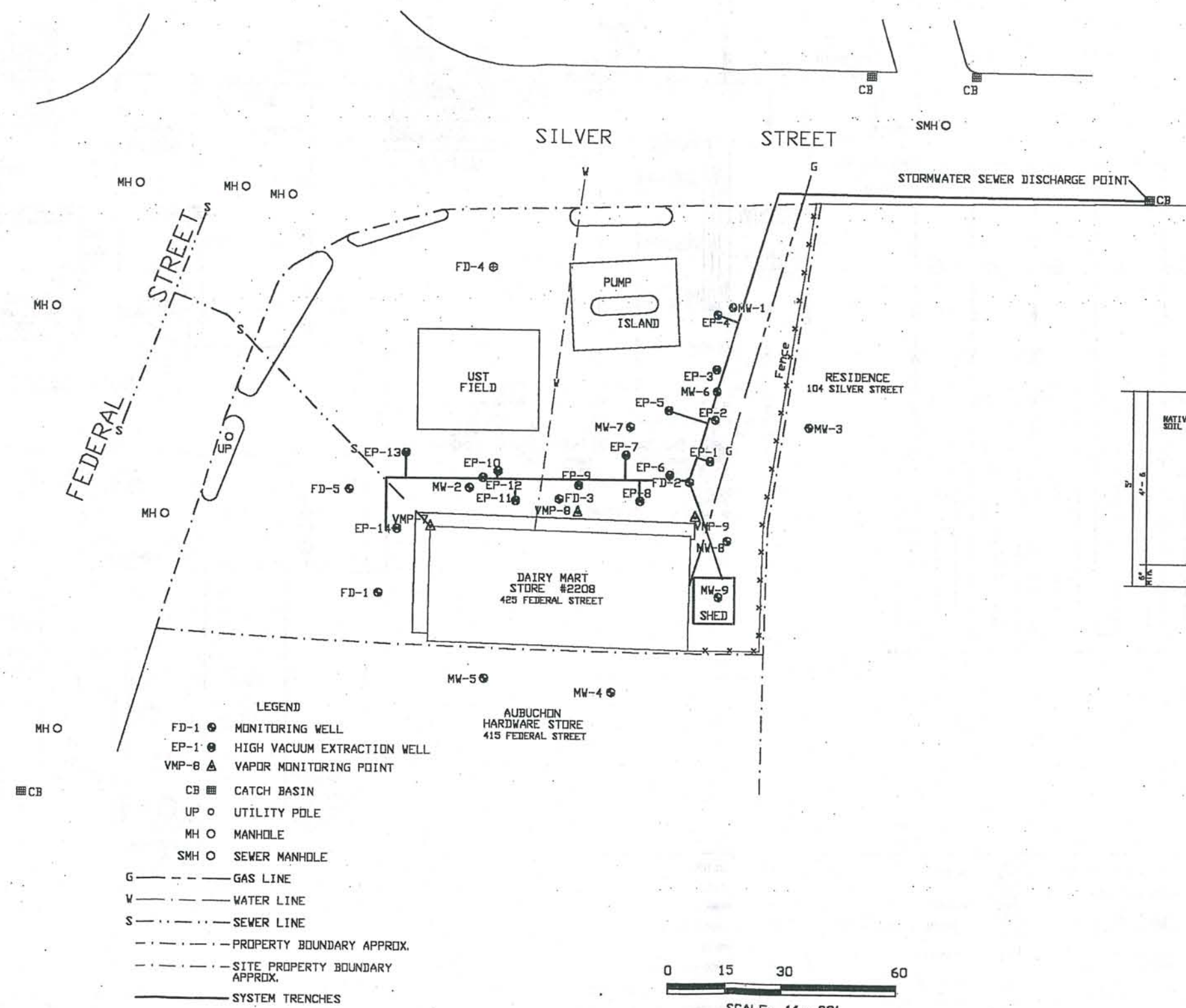
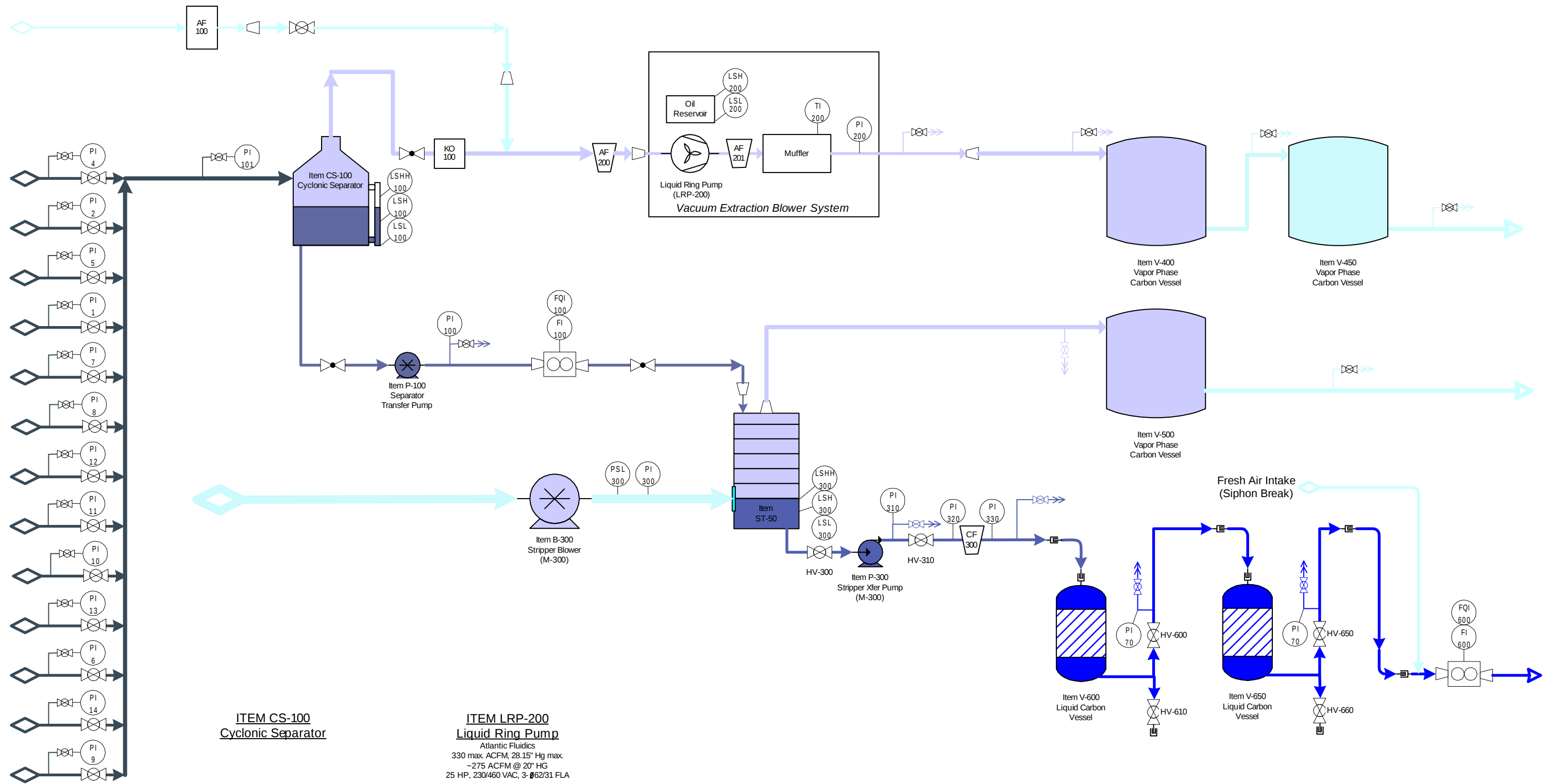


DIAGRAM 3


HANDEX
HANDEX OF NEW ENGLAND, INC. 298 CEDAR HILL STREET, MARLBORO, MASSACHUSETTS, 01752

SYSTEM LAYOUT and TRENCH DETAIL
DAIRY MART
425 FEDERAL STREET
GREENFIELD, MASSACHUSETTS

SCALE - AS SHOWN	JOB No. - 117421-00
DRAWN BY - JF	DISK No. -
CHECKED BY - BAC	DWG. NAME - SITESYSM
DATE - 12-12-02	DWG. No. - 125238EX



ITEM CS-100
Cyclonic Separator

ITEM P-10
Cyclonic Separator Transfer
Pump
Progressing Cavity Pump
230/460, 3-Phase, FVNR

ITEM LRP-200
Liquid Ring Pump
Atlantic Fluidics
330 max. ACFM, 28.15" Hg max.
~275 ACFM @ 20" HG
25 HP, 230/460 VAC, 3-Ø62/31 FLA

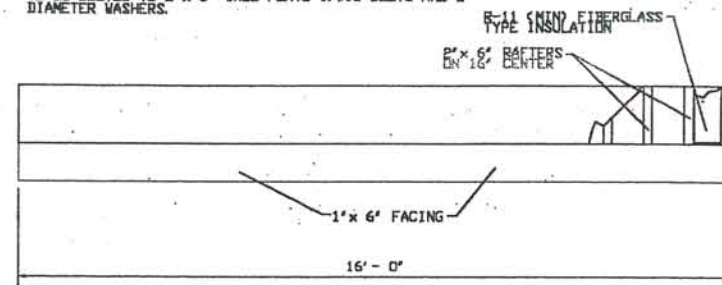
ITEM V-400, V-450, V500
Vapor Phase Carbon Vessels
48", 1000 LB capacity GACA Vessels
300 CFM, 36" Bed Height

ITEM V-600, V-650
Liquid Phase Carbon Vessels
30" Dia., 1000 LB capacity GACA Vessels
30 GPM, 66" Bed Height

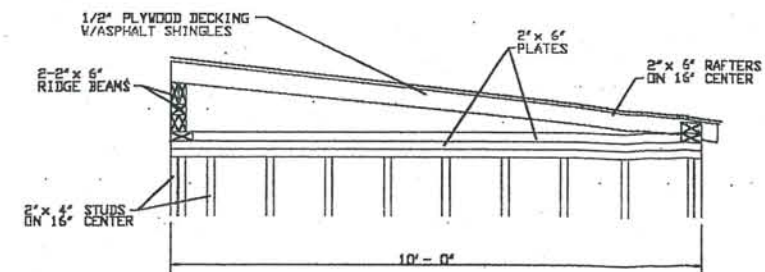
Drawing Revision Record			
Rev.	Date	Description	By

NOTE:

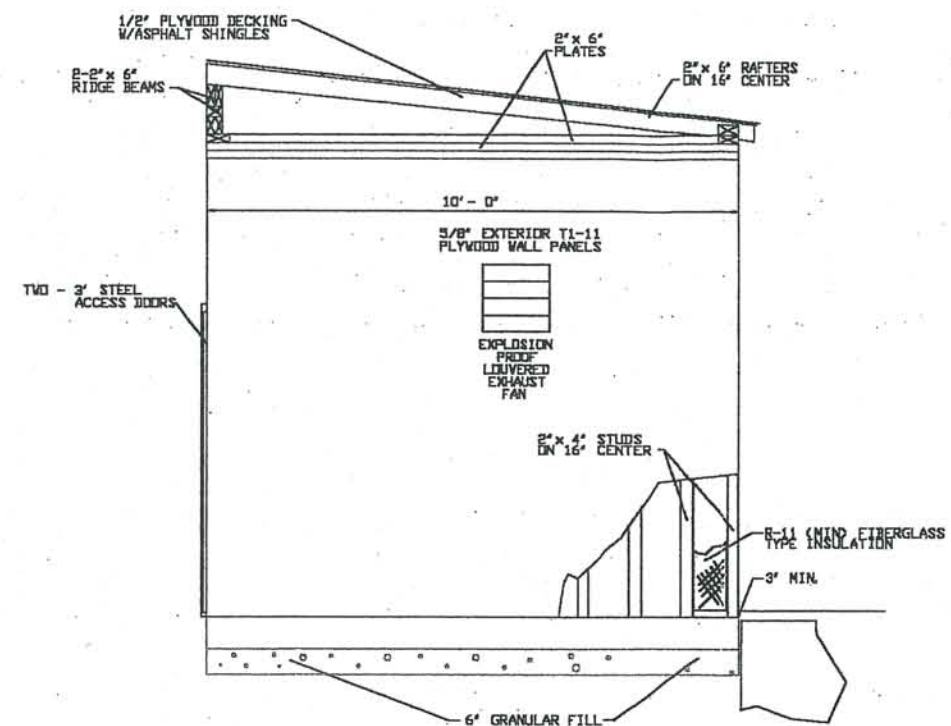
ROOF IS TO BE CONSTRUCTED TO ALLOW FOR REMOVAL AND IS TO BE BOLTED TO 2" x 6" WALL PLATE W/10 BOLTS AND 2" DIAMETER WASHERS.



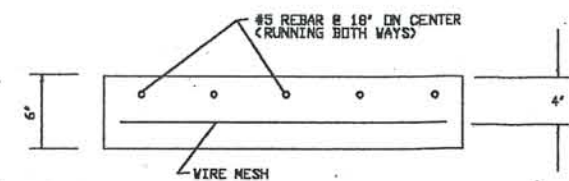
ROOF SECTION



ROOF SECTION



SIDE ELEVATION



PAD DETAIL

NOTES:

- 1) CONCRETE TO BE CLASS B 4000# @ 28 DAYS
- 2) CONCRETE TO HAVE A DEPTH OF SIX INCHES (6")
- 3) CONCRETE TO HAVE 6" x 6" WELDED WIRE MESH REINFORCING INSTALLED 2" FROM THE BOTTOM OF THE SLAB
- 4) CONCRETE SHALL HAVE A BROOM FINISH

DIAGRAM 7

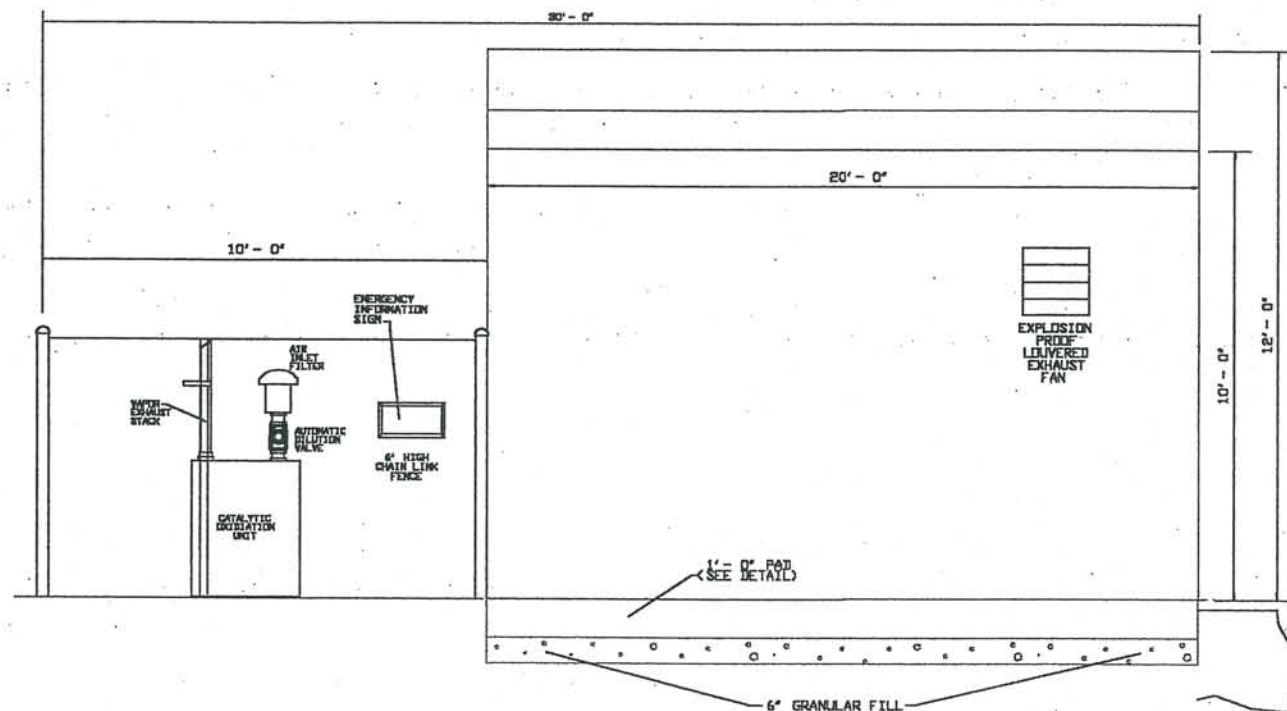


HANDEX

HANDEX OF NEW ENGLAND, INC. 990 OLD HILL STREET, MARLBOROUGH, MASSACHUSETTS, 01702

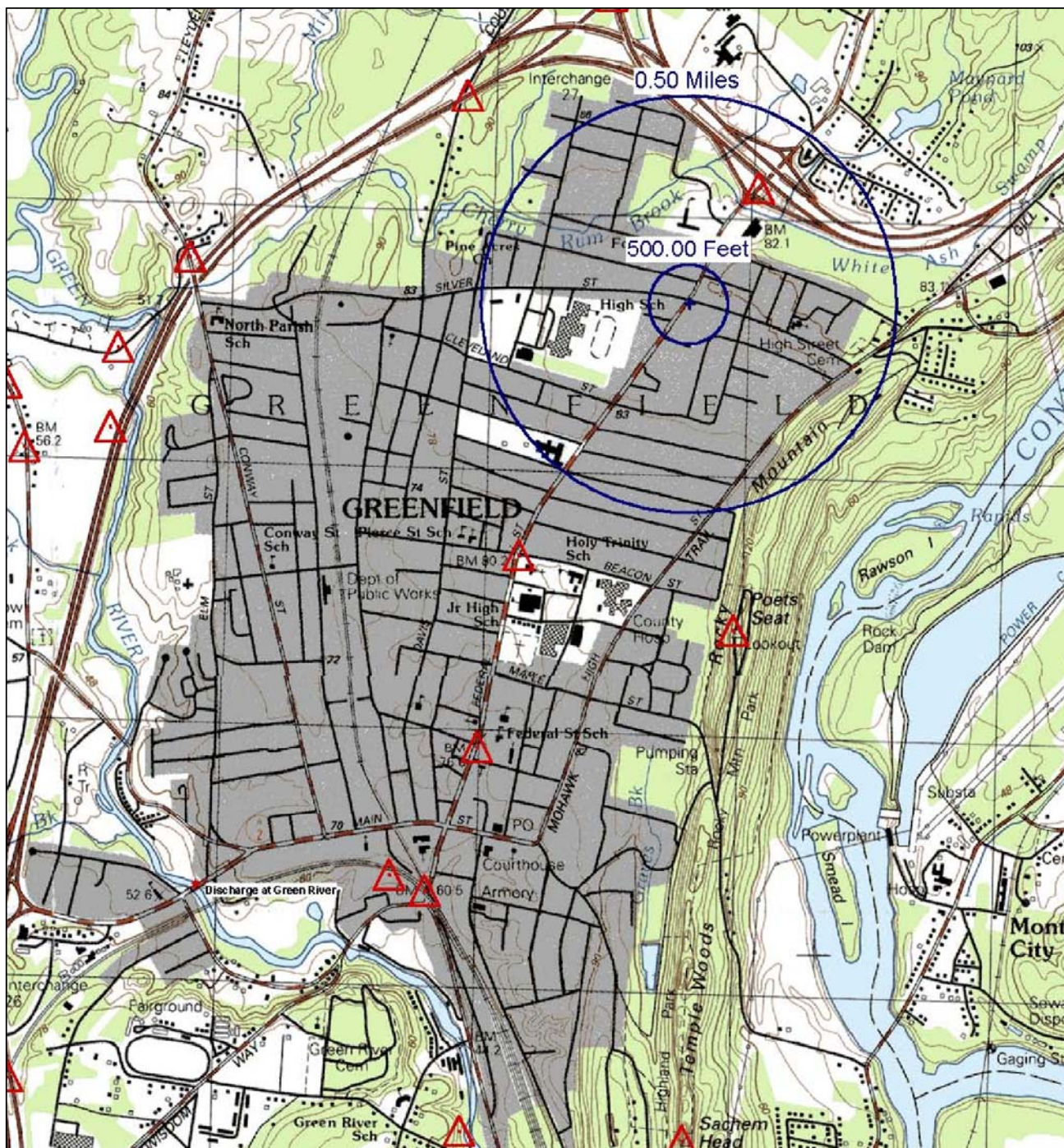
TREATMENT SYSTEM LAYOUT and DETAILS
DAIRY MART
425 FEDERAL STREET
GREENFIELD, MASSACHUSETTS

SCALE - Not To Scale	JOB No. -125238, 001
DRAWN BY - JF	DISK No. -
CHECKED BY - BAC	DWG. NAME-SITESYSM
DATE - 5-17-004	DWG. No. -117421ES



FLOOR PLAN

THIS PAGE LEFT INTENTIONALLY BLANK.



SITE LOCUS PLAN

USGS QUADRANGLE
GREENFIELD, MASSACHUSETTS, 1990
42073 - D3 - TM - 025
7.5 x 15 Minute Series

SITE LOCATION:

42° 36' 21.07" latitude
72° 35' 20.59" longitude

APPROXIMATE DISCHARGE LOCATION:

42° 35' 8.60" latitude
72° 36' 44.28" longitude



= PROPERTY LOCATION



ENVIRONMENTAL
MANAGEMENT
ASSOCIATES, INC.

ERVING, MA
888-755-3067

LOCATION:

425 FEDERAL STREET

GREENFIELD, MASSACHUSETTS

DATE:

7 JAN 2008

SCALE:

1:25,000

DRAWN BY:

DMB

PROJ. #:

0701-254

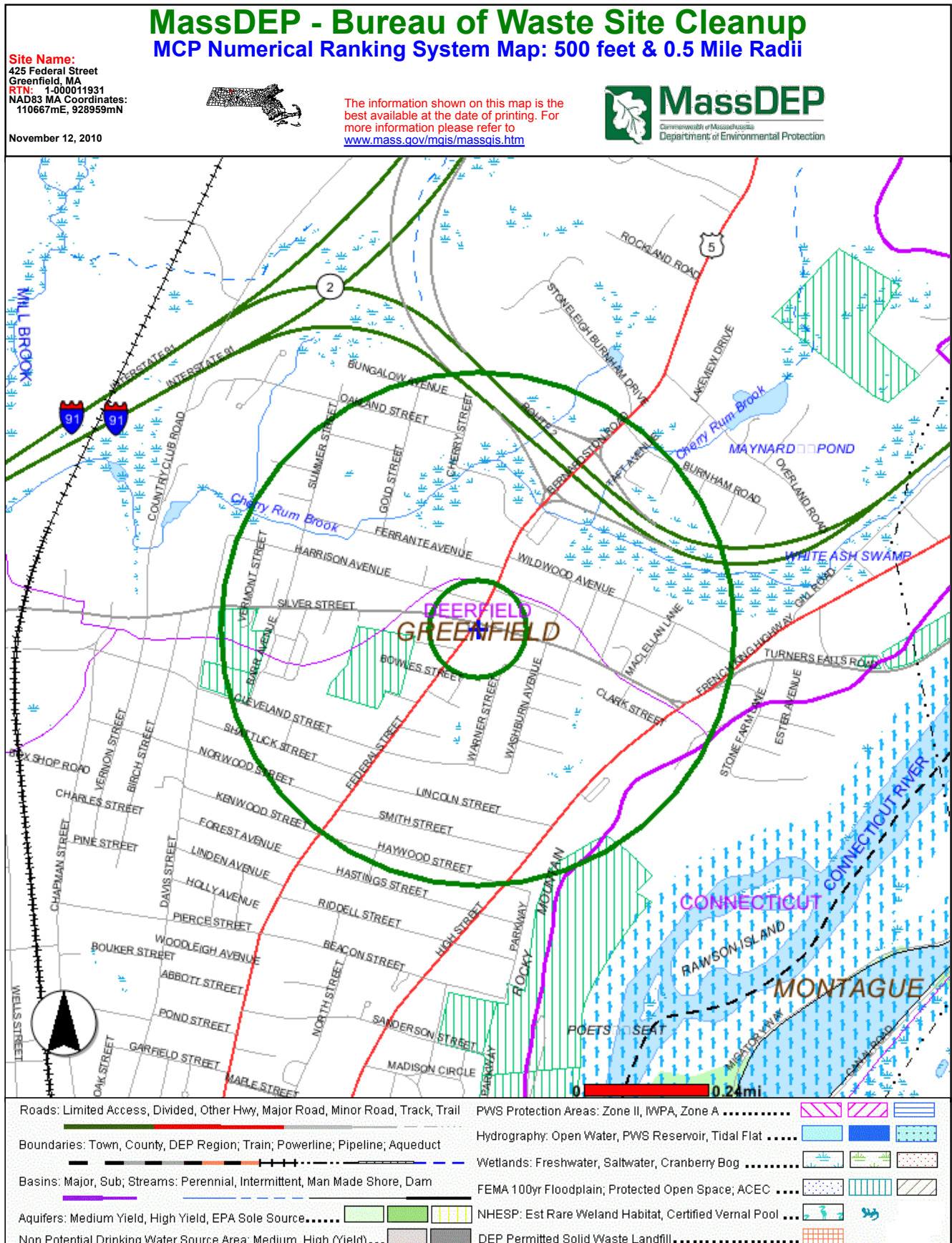
FIG. #:

1

CHK'D BY:

DMB

THIS PAGE LEFT INTENTIONALLY BLANK.



DEP MCP 21e Map Legend

 Zone IIs  IWPA's  Zone A  Sole Source Aquifers  Solid Waste Sites  Protected Openspace  ACECs  NHESP Estimated Habitat of Rare Wildlife in Wetland Areas  Certified Vernal Pools 2003 NHESP  Subbasins  Mass Major Basins  DEP Region  Town Arcs  County Boundaries	Aquifers, By Yield  HIGH YIELD  MEDIUM YIELD Non Potential Drinking Water Source Area  HIGH YIELD  MEDIUM YIELD FEMA Floodplains  100 YEAR FLOODPLAIN Public Water Supplies  Community Groundwater  Community Surface Water  Emergency Surface Water  Non Community	Hydrography  WATER  RESERVOIR  WETLANDS  SALTWATER WETLANDS  FLATS, SHOALS Rivers and Streams  PERENNIAL  INTERMITTENT  SHORELINE  MAN MADE SHORE  DAM  AQUEDUCT	EOT-OTP Roads  LIMITED ACCESS HIGHWAY  MULTILANE HWY, NOT LIMITED ACCESS  OTHER NUMBERED HWY  MAJOR ROAD - COLLECTOR  MINOR STREET OR ROAD, RAMP Tracks and Trails MHD  TRACK  TRAIL Transmission Lines  PIPELINE  POWERLINE  TRAIN
---	--	---	--



Table 1. Historical (H) and present (P) occurrences of the dwarf wedge mussel

<u>Petitcodiac River System, New Brunswick, Canada</u>		
(H) 1953	North River NW of Salisbury	Westmoreland County, NB
(H) 1960	Petitcodiac River at River Glade	Westmoreland County, NB
<u>Merrimack River System</u>		
(H)	Merrimack River at Andover	Essex County, MA
<u>Taunton River System</u>		
(H) 1969	Canoe river near Norton	Bristol County, MA
<u>Agawam River System</u>		
(H)	Agawam River	Plymouth County, MA
<u>Connecticut River System</u>		
(H)	Connecticut River at Bloomfield	Essex County, VT
(H)	Connecticut River at Northumberland	Coos County, NH
(H)	Connecticut River at Ryegate	Caledonia County, VT
(H)	Connecticut River N of Monroe	Grafton County, NH
(P)	Connecticut River from confluence with the Ottauquechee River to Weathersfield Bow	Sullivan County, NH and Windsor County, VT
(P)	Ashuelot River near Keene	Cheshire County, NH
(H) 1948	Connecticut River at Northfield	Franklin County, MA
(H) 1979	Connecticut River at Sunderland	Franklin County, MA
(H)	Connecticut River at Chicopee	Hampden County, MA
(H) 1940	Canal at Westfield	Hampden County, MA
(H)	Connecticut River at Springfield	Hampden County, MA
(H) 1951	Scantic River near Hampden	Hampden County, MA
(H) 1984	Fort River in Amherst	Hampshire County, MA
(H) 1973	Mill River at Northampton	Hampshire County, MA
(H)	Connecticut River at Hadley	Hampshire County, MA
(H)	Connecticut River at Granby	Hartford County, CT
(H) 1959	Philo Brook at Suffield	Hartford County, CT
(P)	Muddy Brook	Hartford County, CT
<u>Quinnipiac River System</u>		
(H)	Ten Mile River at Mixville	New Haven County, CT
(H)	Quinnipiac River at Meriden	New Haven County, CT
(H)	Wilmot Brook at New Haven	New Haven County, CT
<u>Hackensack River System</u>		
(H)	Brook flowing W from Closter to Hackensack	Bergen County, NJ
<u>Delaware River System</u>		
(P)	Neversink River	Orange County, NY
(H) 1919	Delaware River at Shawnee	Monroe County, PA
(H) 1919	Princess Creek at Kunkleton	Monroe County, PA
(H)	Pohopoco Creek near Leighton	Carbon County, PA
(H)	Delaware River	Bucks County, PA

THIS PAGE LEFT INTENTIONALLY BLANK.



ANALYTICAL REPORT

Lab Number:	L1014824
Client:	Environmental Management Associates, Inc P.O. Box 362 Erving, MA 01344
ATTN:	Dolores M. Branco, L.S.P.
Phone:	(413) 498-2510
Project Name:	425 FEDERAL ST.
Project Number:	0701-254
Report Date:	10/04/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 425 FEDERAL ST.
Project Number: 0701-254

Lab Number: L1014824
Report Date: 10/04/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1014824-01	MW6	GREENFIELD, MA	09/23/10 11:15

Project Name: 425 FEDERAL ST.
Project Number: 0701-254

Lab Number: L1014824
Report Date: 10/04/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

The analysis of EPA 504.1 was performed at the client's request.

Volatile Organics

L1014824-01 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The WG434033-3 LCS recovery, associated with L1014824-01, was above the acceptance criteria for Carbon tetrachloride (152%); however, the associated sample was non-detect for this target compound. The results of the original analysis are reported.

Semivolatile Organics -SIM

L1014824-01 has elevated detection limits due to the dilution required by the elevated concentrations of target

Project Name: 425 FEDERAL ST.
Project Number: 0701-254

Lab Number: L1014824
Report Date: 10/04/10

Case Narrative (continued)

compounds in the sample.

The surrogate recovery for the WG434829-1 Method Blank, associated with L1014824-01, is above the acceptance criteria for 4-Terphenyl-d14 (147%). Since the Method Blank was non-detect for all target analytes, re-analysis is not required.

The WG434829-2/-3 LCS/LCSD recoveries, associated with L1014824-01, were above the acceptance criteria for 2-Chloronaphthalene (LCS at 141%) and Pentachlorophenol (109%/116%); however, the associated sample was non-detect for these target compounds. The results of the original analysis are reported.

Metals

L1014824-01 has elevated detection limits for all analytes, with the exception of Iron and Mercury, due to the dilution required by the high concentrations of non-target analytes. The requested reporting limits were not achieved.

Chloride

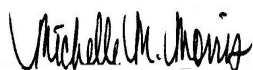
L1014824-01 has an elevated detection limit due to the dilution required to quantitate the result within the calibration range.

Chlorine, Total Residual

WG434022: A laboratory duplicate could not be performed due to insufficient sample volume available for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 10/04/10

ORGANICS

VOLATILES

Project Name: 425 FEDERAL ST.**Lab Number:** L1014824**Project Number:** 0701-254**Report Date:** 10/04/10**SAMPLE RESULTS**

Lab ID: L1014824-01
Client ID: MW6
Sample Location: GREENFIELD, MA
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 09/29/10 19:39
Analyst: SS

Date Collected: 09/23/10 11:15
Date Received: 09/23/10
Field Prep: Not Specified
Extraction Date: 09/29/10 15:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Pesticides by GC - Westborough Lab						
1,2-Dibromoethane	ND		ug/l	0.011	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	0.011	--	1

Project Name: 425 FEDERAL ST.**Lab Number:** L1014824**Project Number:** 0701-254**Report Date:** 10/04/10**SAMPLE RESULTS**

Lab ID: L1014824-01 D
Client ID: MW6
Sample Location: GREENFIELD, MA
Matrix: Water
Analytical Method: 5,624
Analytical Date: 09/24/10 15:47
Analyst: TT

Date Collected: 09/23/10 11:15
Date Received: 09/23/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	--	10
1,1-Dichloroethane	ND		ug/l	15	--	10
Chloroform	ND		ug/l	15	--	10
Carbon tetrachloride	ND		ug/l	10	--	10
1,2-Dichloropropane	ND		ug/l	35	--	10
Dibromochloromethane	ND		ug/l	10	--	10
1,1,2-Trichloroethane	ND		ug/l	15	--	10
2-Chloroethylvinyl ether	ND		ug/l	100	--	10
Tetrachloroethene	ND		ug/l	15	--	10
Chlorobenzene	ND		ug/l	35	--	10
Trichlorofluoromethane	ND		ug/l	50	--	10
1,2-Dichloroethane	ND		ug/l	15	--	10
1,1,1-Trichloroethane	ND		ug/l	20	--	10
Bromodichloromethane	ND		ug/l	10	--	10
trans-1,3-Dichloropropene	ND		ug/l	15	--	10
cis-1,3-Dichloropropene	ND		ug/l	15	--	10
Bromoform	ND		ug/l	10	--	10
1,1,2,2-Tetrachloroethane	ND		ug/l	10	--	10
Benzene	27		ug/l	10	--	10
Toluene	ND		ug/l	10	--	10
Ethylbenzene	370		ug/l	10	--	10
Chloromethane	ND		ug/l	100	--	10
Bromomethane	ND		ug/l	50	--	10
Vinyl chloride	ND		ug/l	20	--	10
Chloroethane	ND		ug/l	20	--	10
1,1-Dichloroethene	ND		ug/l	10	--	10
trans-1,2-Dichloroethene	ND		ug/l	15	--	10
cis-1,2-Dichloroethene	ND		ug/l	10	--	10
Trichloroethene	ND		ug/l	10	--	10
1,2-Dichlorobenzene	ND		ug/l	50	--	10

Project Name: 425 FEDERAL ST.**Lab Number:** L1014824**Project Number:** 0701-254**Report Date:** 10/04/10**SAMPLE RESULTS****Lab ID:** L1014824-01 D**Date Collected:** 09/23/10 11:15**Client ID:** MW6**Date Received:** 09/23/10**Sample Location:** GREENFIELD, MA**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	50	--	10
1,4-Dichlorobenzene	ND		ug/l	50	--	10
p/m-Xylene	63		ug/l	20	--	10
o-xylene	20		ug/l	10	--	10
Xylene (Total)	83		ug/l	20	--	10
Styrene	ND		ug/l	10	--	10
Acetone	ND		ug/l	100	--	10
Carbon disulfide	ND		ug/l	50	--	10
2-Butanone	ND		ug/l	100	--	10
Vinyl acetate	ND		ug/l	200	--	10
4-Methyl-2-pentanone	ND		ug/l	100	--	10
2-Hexanone	ND		ug/l	100	--	10
Acrolein	ND		ug/l	80	--	10
Acrylonitrile	ND		ug/l	100	--	10
Methyl tert butyl ether	870		ug/l	200	--	10
Dibromomethane	ND		ug/l	10	--	10
1,4-Dioxane	ND		ug/l	20000	--	10
Tert-Butyl Alcohol	ND		ug/l	1000	--	10
Tertiary-Amyl Methyl Ether	ND		ug/l	200	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	109		80-120
Fluorobenzene	107		80-120
4-Bromofluorobenzene	95		80-120

Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

Method Blank Analysis Batch Quality Control

Analytical Method: 5,624

Analytical Date: 09/24/10 07:30

Analyst: TT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG434033-4					
Methylene chloride	ND		ug/l	5.0	--
1,1-Dichloroethane	ND		ug/l	1.5	--
Chloroform	ND		ug/l	1.5	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	3.5	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.5	--
2-Chloroethylvinyl ether	ND		ug/l	10	--
Tetrachloroethene	ND		ug/l	1.5	--
Chlorobenzene	ND		ug/l	3.5	--
Trichlorofluoromethane	ND		ug/l	5.0	--
1,2-Dichloroethane	ND		ug/l	1.5	--
1,1,1-Trichloroethane	ND		ug/l	2.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	1.5	--
cis-1,3-Dichloropropene	ND		ug/l	1.5	--
Bromoform	ND		ug/l	1.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	10	--
Bromomethane	ND		ug/l	5.0	--
Vinyl chloride	ND		ug/l	2.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.5	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	5.0	--
1,3-Dichlorobenzene	ND		ug/l	5.0	--

Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

Method Blank Analysis Batch Quality Control

Analytical Method: 5,624

Analytical Date: 09/24/10 07:30

Analyst: TT

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG434033-4					
1,4-Dichlorobenzene	ND		ug/l	5.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Acetone	ND		ug/l	10	--
Carbon disulfide	ND		ug/l	5.0	--
2-Butanone	ND		ug/l	10	--
Vinyl acetate	ND		ug/l	20	--
4-Methyl-2-pentanone	ND		ug/l	10	--
2-Hexanone	ND		ug/l	10	--
Acrolein	ND		ug/l	8.0	--
Acrylonitrile	ND		ug/l	10	--
Methyl tert butyl ether	ND		ug/l	20	--
Dibromomethane	ND		ug/l	1.0	--
1,4-Dioxane	ND		ug/l	2000	--
Tert-Butyl Alcohol	ND		ug/l	100	--
Tertiary-Amyl Methyl Ether	ND		ug/l	20	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	104		80-120
Fluorobenzene	103		80-120
4-Bromofluorobenzene	99		80-120

Project Name: 425 FEDERAL ST.**Lab Number:** L1014824**Project Number:** 0701-254**Report Date:** 10/04/10**Method Blank Analysis**
Batch Quality Control**Analytical Method:** 14,504.1**Analytical Date:** 09/29/10 18:37**Analyst:** SS**Extraction Date:** 09/29/10 15:00

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG435010-1					
1,2-Dibromoethane	ND		ug/l	0.010	--
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG434033-3								
Methylene chloride	65		-		1-221	-		30
1,1-Dichloroethane	121		-		59-155	-		30
Chloroform	126		-		51-138	-		30
Carbon tetrachloride	152	Q	-		70-140	-		30
1,2-Dichloropropane	113		-		1-210	-		30
Dibromochloromethane	116		-		53-149	-		30
1,1,2-Trichloroethane	103		-		52-150	-		30
2-Chloroethylvinyl ether	106		-		1-305	-		30
Tetrachloroethene	118		-		64-148	-		30
Chlorobenzene	93		-		37-160	-		30
Trichlorofluoromethane	71		-		17-181	-		30
1,2-Dichloroethane	137		-		49-155	-		30
1,1,1-Trichloroethane	138		-		52-162	-		30
Bromodichloromethane	124		-		35-155	-		30
trans-1,3-Dichloropropene	128		-		17-183	-		30
cis-1,3-Dichloropropene	114		-		1-227	-		30
Bromoform	97		-		45-169	-		30
1,1,2,2-Tetrachloroethane	86		-		46-157	-		30
Benzene	105		-		37-151	-		30
Toluene	104		-		47-150	-		30
Ethylbenzene	100		-		37-162	-		30

Lab Control Sample Analysis Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG434033-3								
Chloromethane	107		-		1-273	-		30
Bromomethane	90		-		1-242	-		30
Vinyl chloride	80		-		1-251	-		30
Chloroethane	81		-		14-230	-		30
1,1-Dichloroethene	76		-		1-234	-		30
trans-1,2-Dichloroethene	120		-		54-156	-		30
cis-1,2-Dichloroethene	110		-		60-140	-		30
Trichloroethene	112		-		71-157	-		30
1,2-Dichlorobenzene	98		-		18-190	-		30
1,3-Dichlorobenzene	97		-		59-156	-		30
1,4-Dichlorobenzene	97		-		18-190	-		30
p/m-Xylene	85		-		40-160	-		30
o-Xylene	85		-		40-160	-		30
XYLENE (TOTAL)	85		-		40-160	-		30
Styrene	83		-		40-160	-		30
Acetone	70		-		40-160	-		30
Carbon disulfide	72		-		40-160	-		30
2-Butanone	100		-		40-160	-		30
Vinyl acetate	124		-		40-160	-		30
4-Methyl-2-pentanone	94		-		40-160	-		30
2-Hexanone	97		-		40-160	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG434033-3								
Acrolein	56		-		40-160	-		30
Acrylonitrile	92		-		40-160	-		30
Dibromomethane	109		-		70-130	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	107				80-120
Fluorobenzene	103				80-120
4-Bromofluorobenzene	99				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG435010-2

1,2-Dibromoethane	110		-		70-130	-		20
1,2-Dibromo-3-chloropropane	120		-		70-130	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434033-5 QC Sample: L1014752-01 Client ID: MS Sample												
Methylene chloride	ND	200	140	71		-	-		1-221	-		30
1,1-Dichloroethane	ND	200	250	127		-	-		59-155	-		30
Chloroform	ND	200	270	133		-	-		51-138	-		30
Carbon tetrachloride	ND	200	340	169	Q	-	-		70-140	-		30
1,2-Dichloropropane	ND	200	230	117		-	-		1-210	-		30
Dibromochloromethane	ND	200	250	126		-	-		53-149	-		30
1,1,2-Trichloroethane	ND	200	220	112		-	-		52-150	-		30
2-Chloroethylvinyl ether	ND	200	220	109		-	-		1-305	-		30
Tetrachloroethene	ND	200	250	126		-	-		64-148	-		30
Chlorobenzene	ND	200	180	92		-	-		37-160	-		30
Trichlorofluoromethane	ND	200	190	94		-	-		17-181	-		30
1,2-Dichloroethane	ND	200	280	143		-	-		49-155	-		30
1,1,1-Trichloroethane	ND	200	300	151		-	-		52-162	-		30
Bromodichloromethane	ND	200	270	133		-	-		35-155	-		30
trans-1,3-Dichloropropene	ND	200	280	140		-	-		17-183	-		30
cis-1,3-Dichloropropene	ND	200	250	123		-	-		1-227	-		30
Bromoform	ND	200	200	102		-	-		45-169	-		30
1,1,2,2-Tetrachloroethane	ND	200	180	89		-	-		46-157	-		30
Benzene	ND	200	220	110		-	-		35-151	-		30
Toluene	ND	200	220	110		-	-		47-150	-		30
Ethylbenzene	ND	200	200	100		-	-		37-162	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434033-5 QC Sample: L1014752-01 Client ID: MS Sample												
Chloromethane	ND	200	210	107		-	-		1-273	-		30
Bromomethane	ND	200	150	75		-	-		1-242	-		30
Vinyl chloride	ND	200	170	85		-	-		1-251	-		30
Chloroethane	ND	200	170	83		-	-		14-230	-		30
1,1-Dichloroethene	ND	200	170	84		-	-		1-234	-		30
trans-1,2-Dichloroethene	ND	200	260	128		-	-		54-156	-		30
cis-1,2-Dichloroethene	ND	200	230	113		-	-		60-140	-		30
Trichloroethene	ND	200	230	115		-	-		71-157	-		30
1,2-Dichlorobenzene	ND	200	190	96		-	-		18-190	-		30
1,3-Dichlorobenzene	ND	200	190	94		-	-		59-156	-		30
1,4-Dichlorobenzene	ND	200	190	96		-	-		18-190	-		30
p/m-Xylene	ND	400	340	84		-	-		40-160	-		30
o-Xylene	ND	200	170	84		-	-		40-160	-		30
XYLENE (TOTAL)	ND	600	500	84		-	-		40-160	-		30
Styrene	ND	200	170	83		-	-		40-160	-		30
Acetone	ND	500	390	77		-	-		40-160	-		30
Carbon disulfide	ND	200	160	82		-	-		40-160	-		30
2-Butanone	ND	500	550	109		-	-		40-160	-		30
Vinyl acetate	ND	400	520	131		-	-		40-160	-		30
4-Methyl-2-pentanone	ND	500	510	103		-	-		40-160	-		30
2-Hexanone	ND	500	530	105		-	-		40-160	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434033-5 QC Sample: L1014752-01 Client ID: MS Sample												
Acrolein	ND	400	220	56		-	-		40-160	-		30
Acrylonitrile	ND	400	360	91		-	-		40-160	-		30
Dibromomethane	ND	200	210	104		-	-			-		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
4-Bromofluorobenzene	93				80-120
Fluorobenzene	101				80-120
Pentafluorobenzene	104				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG435010-3 QC Sample: L1014897-01 Client ID: MS Sample												
1,2-Dibromoethane	ND	2.58	0.295	11	Q	-	-		70-130	-		20
1,2-Dibromo-3-chloropropane	ND	2.58	0.295	11	Q	-	-		70-130	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434033-6 QC Sample: L1014752-01 Client ID: DUP Sample						
Methylene chloride	ND	ND	ug/l	NC		30
1,1-Dichloroethane	ND	ND	ug/l	NC		30
Chloroform	ND	ND	ug/l	NC		30
Carbon tetrachloride	ND	ND	ug/l	NC		30
1,2-Dichloropropane	ND	ND	ug/l	NC		30
Dibromochloromethane	ND	ND	ug/l	NC		30
1,1,2-Trichloroethane	ND	ND	ug/l	NC		30
2-Chloroethylvinyl ether	ND	ND	ug/l	NC		30
Tetrachloroethene	ND	ND	ug/l	NC		30
Chlorobenzene	ND	ND	ug/l	NC		30
Trichlorofluoromethane	ND	ND	ug/l	NC		30
1,2-Dichloroethane	ND	ND	ug/l	NC		30
1,1,1-Trichloroethane	ND	ND	ug/l	NC		30
Bromodichloromethane	ND	ND	ug/l	NC		30
trans-1,3-Dichloropropene	ND	ND	ug/l	NC		30
cis-1,3-Dichloropropene	ND	ND	ug/l	NC		30
Bromoform	ND	ND	ug/l	NC		30
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC		30
Benzene	ND	ND	ug/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434033-6 QC Sample: L1014752-01 Client ID: DUP Sample					
Toluene	ND	ND	ug/l	NC	30
Ethylbenzene	ND	ND	ug/l	NC	30
Chloromethane	ND	ND	ug/l	NC	30
Bromomethane	ND	ND	ug/l	NC	30
Vinyl chloride	ND	ND	ug/l	NC	30
Chloroethane	ND	ND	ug/l	NC	30
1,1-Dichloroethene	ND	ND	ug/l	NC	30
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	30
cis-1,2-Dichloroethene	ND	ND	ug/l	NC	30
Trichloroethene	ND	ND	ug/l	NC	30
1,2-Dichlorobenzene	ND	ND	ug/l	NC	30
1,3-Dichlorobenzene	ND	ND	ug/l	NC	30
1,4-Dichlorobenzene	ND	ND	ug/l	NC	30
p/m-Xylene	ND	ND	ug/l	NC	30
o-xylene	ND	ND	ug/l	NC	30
Xylene (Total)	ND	ND	ug/l	NC	30
Styrene	ND	ND	ug/l	NC	30
Acetone	ND	ND	ug/l	NC	30
Carbon disulfide	ND	ND	ug/l	NC	30

Lab Duplicate Analysis Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434033-6 QC Sample: L1014752-01 Client ID: DUP Sample					
2-Butanone	ND	ND	ug/l	NC	30
Vinyl acetate	ND	ND	ug/l	NC	30
4-Methyl-2-pentanone	ND	ND	ug/l	NC	30
2-Hexanone	ND	ND	ug/l	NC	30
Acrolein	ND	ND	ug/l	NC	30
Acrylonitrile	ND	ND	ug/l	NC	30
Dibromomethane	ND	ND	ug/l	NC	30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	103		103		80-120
Fluorobenzene	103		102		80-120
4-Bromofluorobenzene	100		99		80-120

SEMIVOLATILES

Project Name: 425 FEDERAL ST.**Lab Number:** L1014824**Project Number:** 0701-254**Report Date:** 10/04/10**SAMPLE RESULTS**

Lab ID: L1014824-01
Client ID: MW6
Sample Location: GREENFIELD, MA
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 10/03/10 15:55
Analyst: JB

Date Collected: 09/23/10 11:15
Date Received: 09/23/10
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/29/10 13:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/l	50	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	--	1
1,2-Dichlorobenzene	ND		ug/l	5.0	--	1
1,3-Dichlorobenzene	ND		ug/l	5.0	--	1
1,4-Dichlorobenzene	ND		ug/l	5.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	50	--	1
2,4-Dinitrotoluene	ND		ug/l	6.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	5.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	30	--	1
Isophorone	ND		ug/l	5.0	--	1
Nitrobenzene	ND		ug/l	5.0	--	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	--	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Aniline	ND		ug/l	20	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	7.0	--	1
Dibenzofuran	ND		ug/l	5.0	--	1

Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

SAMPLE RESULTS

Lab ID: L1014824-01
 Client ID: MW6
 Sample Location: GREENFIELD, MA

Date Collected: 09/23/10 11:15
 Date Received: 09/23/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
n-Nitrosodimethylamine	ND		ug/l	50	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
P-Chloro-M-Cresol	ND		ug/l	5.0	--	1
2-Chlorophenol	ND		ug/l	6.0	--	1
2,4-Dichlorophenol	ND		ug/l	10	--	1
2,4-Dimethylphenol	ND		ug/l	10	--	1
2-Nitrophenol	ND		ug/l	20	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	30	--	1
4,6-Dinitro-o-cresol	ND		ug/l	20	--	1
Phenol	ND		ug/l	7.0	--	1
2-Methylphenol	ND		ug/l	6.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	10	--	1
Carbazole	ND		ug/l	5.0	--	1
Pyridine	ND		ug/l	50	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	84		33-120

Project Name: 425 FEDERAL ST.**Lab Number:** L1014824**Project Number:** 0701-254**Report Date:** 10/04/10**SAMPLE RESULTS**

Lab ID: L1014824-01 D
Client ID: MW6
Sample Location: GREENFIELD, MA
Matrix: Water
Analytical Method: 1,8270C-SIM
Analytical Date: 10/01/10 01:19
Analyst: HL

Date Collected: 09/23/10 11:15
Date Received: 09/23/10
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/29/10 13:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	1.0	--	5
2-Chloronaphthalene	ND		ug/l	1.0	--	5
Fluoranthene	ND		ug/l	1.0	--	5
Hexachlorobutadiene	ND		ug/l	2.5	--	5
Naphthalene	43		ug/l	1.0	--	5
Benzo(a)anthracene	ND		ug/l	1.0	--	5
Benzo(a)pyrene	ND		ug/l	1.0	--	5
Benzo(b)fluoranthene	ND		ug/l	1.0	--	5
Benzo(k)fluoranthene	ND		ug/l	1.0	--	5
Chrysene	ND		ug/l	1.0	--	5
Acenaphthylene	ND		ug/l	1.0	--	5
Anthracene	ND		ug/l	1.0	--	5
Benzo(ghi)perylene	ND		ug/l	1.0	--	5
Fluorene	ND		ug/l	1.0	--	5
Phenanthrene	ND		ug/l	1.0	--	5
Dibenzo(a,h)anthracene	ND		ug/l	1.0	--	5
Indeno(1,2,3-cd)Pyrene	ND		ug/l	1.0	--	5
Pyrene	ND		ug/l	1.0	--	5
1-Methylnaphthalene	13		ug/l	1.0	--	5
2-Methylnaphthalene	3.3		ug/l	1.0	--	5
Pentachlorophenol	ND		ug/l	4.0	--	5
Hexachlorobenzene	ND		ug/l	4.0	--	5
Hexachloroethane	ND		ug/l	4.0	--	5

Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

SAMPLE RESULTS

Lab ID: L1014824-01 D

Date Collected: 09/23/10 11:15

Client ID: MW6

Date Received: 09/23/10

Sample Location: GREENFIELD, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	21		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	97		33-120

Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 10/01/10 08:12
 Analyst: JB

Extraction Method: EPA 3510C
 Extraction Date: 09/29/10 13:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG434828-1					
Benzidine	ND		ug/l	50	--
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Bis(2-chloroethyl)ether	ND		ug/l	5.0	--
1,2-Dichlorobenzene	ND		ug/l	5.0	--
1,3-Dichlorobenzene	ND		ug/l	5.0	--
1,4-Dichlorobenzene	ND		ug/l	5.0	--
3,3'-Dichlorobenzidine	ND		ug/l	50	--
2,4-Dinitrotoluene	ND		ug/l	6.0	--
2,6-Dinitrotoluene	ND		ug/l	5.0	--
Azobenzene	ND		ug/l	5.0	--
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	--
4-Bromophenyl phenyl ether	ND		ug/l	5.0	--
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	--
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--
Hexachlorocyclopentadiene	ND		ug/l	30	--
Isophorone	ND		ug/l	5.0	--
Nitrobenzene	ND		ug/l	5.0	--
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	--
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--
Dimethyl phthalate	ND		ug/l	5.0	--
Aniline	ND		ug/l	20	--
4-Chloroaniline	ND		ug/l	5.0	--
2-Nitroaniline	ND		ug/l	5.0	--
3-Nitroaniline	ND		ug/l	5.0	--
4-Nitroaniline	ND		ug/l	7.0	--
Dibenzofuran	ND		ug/l	5.0	--
n-Nitrosodimethylamine	ND		ug/l	50	--

Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 10/01/10 08:12
 Analyst: JB

Extraction Method: EPA 3510C
 Extraction Date: 09/29/10 13:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG434828-1					
2,4,6-Trichlorophenol	ND		ug/l	5.0	--
P-Chloro-M-Cresol	ND		ug/l	5.0	--
2-Chlorophenol	ND		ug/l	6.0	--
2,4-Dichlorophenol	ND		ug/l	10	--
2,4-Dimethylphenol	ND		ug/l	10	--
2-Nitrophenol	ND		ug/l	20	--
4-Nitrophenol	ND		ug/l	10	--
2,4-Dinitrophenol	ND		ug/l	30	--
4,6-Dinitro-o-cresol	ND		ug/l	20	--
Phenol	ND		ug/l	7.0	--
2-Methylphenol	ND		ug/l	6.0	--
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0	--
2,4,5-Trichlorophenol	ND		ug/l	5.0	--
Benzoic Acid	ND		ug/l	50	--
Benzyl Alcohol	ND		ug/l	10	--
Carbazole	ND		ug/l	5.0	--
Pyridine	ND		ug/l	50	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	103		10-120
4-Terphenyl-d14	95		33-120

Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C-SIM
 Analytical Date: 09/30/10 11:27
 Analyst: HL

Extraction Method: EPA 3510C
 Extraction Date: 09/29/10 13:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG434829-1					
Acenaphthene	ND		ug/l	0.20	--
2-Chloronaphthalene	ND		ug/l	0.20	--
Fluoranthene	ND		ug/l	0.20	--
Hexachlorobutadiene	ND		ug/l	0.50	--
Naphthalene	ND		ug/l	0.20	--
Benzo(a)anthracene	ND		ug/l	0.20	--
Benzo(a)pyrene	ND		ug/l	0.20	--
Benzo(b)fluoranthene	ND		ug/l	0.20	--
Benzo(k)fluoranthene	ND		ug/l	0.20	--
Chrysene	ND		ug/l	0.20	--
Acenaphthylene	ND		ug/l	0.20	--
Anthracene	ND		ug/l	0.20	--
Benzo(ghi)perylene	ND		ug/l	0.20	--
Fluorene	ND		ug/l	0.20	--
Phenanthrene	ND		ug/l	0.20	--
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	--
Pyrene	ND		ug/l	0.20	--
1-Methylnaphthalene	ND		ug/l	0.20	--
2-Methylnaphthalene	ND		ug/l	0.20	--
Pentachlorophenol	ND		ug/l	0.80	--
Hexachlorobenzene	ND		ug/l	0.80	--
Hexachloroethane	ND		ug/l	0.80	--

Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C-SIM
 Analytical Date: 09/30/10 11:27
 Analyst: HL

Extraction Method: EPA 3510C
 Extraction Date: 09/29/10 13:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG434829-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	147	Q	33-120

Lab Control Sample Analysis Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG434828-2 WG434828-3								
Acenaphthene	88		87		37-111	1		30
1,2,4-Trichlorobenzene	77		71		39-98	8		30
2-Chloronaphthalene	100		95		40-140	5		30
1,2-Dichlorobenzene	85		80		40-140	6		30
1,4-Dichlorobenzene	82		79		36-97	4		30
2,4-Dinitrotoluene	91		94		24-96	3		30
2,6-Dinitrotoluene	78		78		40-140	0		30
Fluoranthene	92		96		40-140	4		30
4-Chlorophenyl phenyl ether	86		87		40-140	1		30
n-Nitrosodi-n-propylamine	78		74		41-116	5		30
Butyl benzyl phthalate	89		88		40-140	1		30
Anthracene	96		94		40-140	2		30
Pyrene	87		86		26-127	1		30
P-Chloro-M-Cresol	80		78		23-97	3		30
2-Chlorophenol	87		80		27-123	8		30
2-Nitrophenol	90		82		30-130	9		30
4-Nitrophenol	29		34		10-80	16		30
2,4-Dinitrophenol	61		57		20-130	7		30
Pentachlorophenol	58		57		9-103	2		30
Phenol	37		35		12-110	6		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	------------

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG434828-2 WG434828-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		51		21-120
Phenol-d6	39		33		10-120
Nitrobenzene-d5	84		75		23-120
2-Fluorobiphenyl	86		76		15-120
2,4,6-Tribromophenol	114		107		10-120
4-Terphenyl-d14	94		87		33-120

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG434829-2 WG434829-3

Acenaphthene	96		85		37-111	12	40
2-Chloronaphthalene	141	Q	126		40-140	11	40
Fluoranthene	113		119		40-140	5	40
Anthracene	88		93		40-140	6	40
Pyrene	106		115		26-127	8	40
Pentachlorophenol	109	Q	116	Q	9-103	6	40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
-----------	------------------	------	-------------------	------	---------------------	-----	------	------------

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG434829-2 WG434829-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		49		21-120
Phenol-d6	39		36		10-120
Nitrobenzene-d5	94		87		23-120
2-Fluorobiphenyl	96		89		15-120
2,4,6-Tribromophenol	107		104		10-120
4-Terphenyl-d14	111		119		33-120

PCBS

Project Name: 425 FEDERAL ST.**Lab Number:** L1014824**Project Number:** 0701-254**Report Date:** 10/04/10**SAMPLE RESULTS**

Lab ID: L1014824-01
Client ID: MW6
Sample Location: GREENFIELD, MA
Matrix: Water
Analytical Method: 5,608
Analytical Date: 09/29/10 07:34
Analyst: SH

Date Collected: 09/23/10 11:15
Date Received: 09/23/10
Field Prep: Not Specified
Extraction Method: EPA 608
Extraction Date: 09/28/10 13:57
Cleanup Method1: EPA 3665A
Cleanup Date1: 09/29/10
Cleanup Method2: EPA 3660B
Cleanup Date2: 09/29/10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	-------	----	-----	-----------------

Polychlorinated Biphenyls by GC - Westborough Lab

Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	60		30-150	A

Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

Method Blank Analysis Batch Quality Control

Analytical Method: 5,608
 Analytical Date: 09/29/10 06:32
 Analyst: SH

Extraction Method: EPA 608
 Extraction Date: 09/28/10 13:57
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 09/29/10
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 09/29/10

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG434605-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	65		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434605-3 QC Sample: L1014912-08 Client ID: MS Sample												
Aroclor 1016	ND	2	2.31	116		-	-		40-126	-		30
Aroclor 1260	ND	2	2.06	103		-	-		40-127	-		30

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	84				30-150	A
Decachlorobiphenyl	56				30-150	A

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 425 FEDERAL ST.**Project Number:** 0701-254**Lab Number:** L1014824**Report Date:** 10/04/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG434605-2								
Aroclor 1016	114		-		40-126	-		30
Aroclor 1260	108		-		40-127	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89				30-150	A
Decachlorobiphenyl	62				30-150	A

Lab Duplicate Analysis Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434605-4 QC Sample: L1014912-08 Client ID: DUP Sample						
Aroclor 1016	ND	ND	ug/l	NC		30
Aroclor 1221	ND	ND	ug/l	NC		30
Aroclor 1232	ND	ND	ug/l	NC		30
Aroclor 1242	ND	ND	ug/l	NC		30
Aroclor 1248	ND	ND	ug/l	NC		30
Aroclor 1254	ND	ND	ug/l	NC		30
Aroclor 1260	ND	ND	ug/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		90		30-150	A
Decachlorobiphenyl	56		60		30-150	A

METALS

Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

SAMPLE RESULTS

Lab ID: L1014824-01

Date Collected: 09/23/10 11:15

Client ID: MW6

Date Received: 09/23/10

Sample Location: GREENFIELD, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Antimony, Total	ND		mg/l	0.0025	--	5	09/24/10 12:00	09/28/10 00:19	EPA 3005A	1,6020	BM
Arsenic, Total	ND		mg/l	0.0025	--	5	09/24/10 12:00	09/28/10 00:19	EPA 3005A	1,6020	BM
Cadmium, Total	ND		mg/l	0.0010	--	5	09/24/10 12:00	09/28/10 00:19	EPA 3005A	1,6020	BM
Chromium, Total	ND		mg/l	0.0025	--	5	09/24/10 12:00	09/28/10 00:19	EPA 3005A	1,6020	BM
Copper, Total	0.0027		mg/l	0.0025	--	5	09/24/10 12:00	09/28/10 00:19	EPA 3005A	1,6020	BM
Iron, Total	15		mg/l	0.05	--	1	09/27/10 11:00	09/28/10 11:27	EPA 3005A	19,200.7	AI
Lead, Total	ND		mg/l	0.0025	--	5	09/24/10 12:00	09/28/10 00:19	EPA 3005A	1,6020	BM
Mercury, Total	ND		mg/l	0.0002	--	1	09/29/10 18:17	09/30/10 10:14	EPA 245.1	3,245.1	EZ
Nickel, Total	ND		mg/l	0.0025	--	5	09/24/10 12:00	09/28/10 00:19	EPA 3005A	1,6020	BM
Selenium, Total	ND		mg/l	0.005	--	5	09/24/10 12:00	09/28/10 00:19	EPA 3005A	1,6020	BM
Silver, Total	ND		mg/l	0.0020	--	5	09/24/10 12:00	09/28/10 00:19	EPA 3005A	1,6020	BM
Zinc, Total	ND		mg/l	0.0250	--	5	09/24/10 12:00	09/28/10 00:19	EPA 3005A	1,6020	BM



Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG434123-1									
Antimony, Total	ND	mg/l	0.0005	--	1	09/24/10 12:00	09/27/10 15:53	1,6020	BM
Arsenic, Total	ND	mg/l	0.0005	--	1	09/24/10 12:00	09/27/10 15:53	1,6020	BM
Cadmium, Total	ND	mg/l	0.0002	--	1	09/24/10 12:00	09/27/10 15:53	1,6020	BM
Chromium, Total	ND	mg/l	0.0005	--	1	09/24/10 12:00	09/27/10 15:53	1,6020	BM
Copper, Total	ND	mg/l	0.0005	--	1	09/24/10 12:00	09/27/10 15:53	1,6020	BM
Lead, Total	ND	mg/l	0.0005	--	1	09/24/10 12:00	09/27/10 15:53	1,6020	BM
Nickel, Total	ND	mg/l	0.0005	--	1	09/24/10 12:00	09/27/10 15:53	1,6020	BM
Selenium, Total	ND	mg/l	0.001	--	1	09/24/10 12:00	09/27/10 15:53	1,6020	BM
Silver, Total	ND	mg/l	0.0004	--	1	09/24/10 12:00	09/27/10 15:53	1,6020	BM
Zinc, Total	ND	mg/l	0.0050	--	1	09/24/10 12:00	09/27/10 15:53	1,6020	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG434375-1									
Iron, Total	ND	mg/l	0.05	--	1	09/27/10 11:00	09/28/10 11:21	19,200.7	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG434900-1									
Mercury, Total	ND	mg/l	0.0002	--	1	09/29/10 18:17	09/30/10 10:04	3,245.1	EZ

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG434123-2								
Antimony, Total	95		-		80-120	-		
Arsenic, Total	97		-		80-120	-		
Cadmium, Total	107		-		80-120	-		
Chromium, Total	95		-		80-120	-		
Copper, Total	101		-		80-120	-		
Lead, Total	98		-		80-120	-		
Nickel, Total	101		-		80-120	-		
Selenium, Total	103		-		80-120	-		
Silver, Total	96		-		80-120	-		
Zinc, Total	101		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG434375-2								
Iron, Total	100		-		85-115	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG434900-2								
Mercury, Total	111		-		85-115	-		

Matrix Spike Analysis **Batch Quality Control**

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434123-4 QC Sample: L1014738-02 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.4832	97		-	-		80-120	-		20
Arsenic, Total	ND	0.12	0.1262	105		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.0551	108		-	-		80-120	-		20
Chromium, Total	0.0006	0.2	0.1893	94		-	-		80-120	-		20
Copper, Total	ND	0.25	0.2527	101		-	-		80-120	-		20
Lead, Total	ND	0.51	0.5060	99		-	-		80-120	-		20
Nickel, Total	0.0008	0.5	0.5004	100		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.123	102		-	-		80-120	-		20
Silver, Total	ND	0.05	0.0482	96		-	-		80-120	-		20
Zinc, Total	ND	0.5	0.5108	102		-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434375-4 QC Sample: L1014824-01 Client ID: MW6												
Iron, Total	15	1	16	100		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434900-4 QC Sample: L1014618-07 Client ID: MS Sample												
Mercury, Total	ND	0.001	0.0012	122		-	-		70-130	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434123-3 QC Sample: L1014738-02 Client ID: DUP Sample						
Antimony, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434375-3 QC Sample: L1014824-01 Client ID: MW6						
Iron, Total	15	15	mg/l	0		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434900-3 QC Sample: L1014618-07 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

SAMPLE RESULTS

Lab ID: L1014824-01
 Client ID: MW6
 Sample Location: GREENFIELD, MA
 Matrix: Water

Date Collected: 09/23/10 11:15
 Date Received: 09/23/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	14		mg/l	5.0	NA	1	-	09/28/10 10:20	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005	--	1	09/24/10 15:30	09/27/10 17:40	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	09/23/10 23:15	30,4500CL-D	JW
Chloride	640		mg/l	10	--	10	-	09/27/10 18:04	30,4500CL-E	LA
TPH	ND		mg/l	5.20	--	1.3	09/28/10 17:00	09/29/10 14:00	74,1664A	JO
Phenolics, Total	ND		mg/l	0.03	--	1	-	09/29/10 17:53	4,420.1	TP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	09/23/10 23:30	09/23/10 23:30	30,3500CR-D	DD
General Chemistry										
Trivalent Chromium	ND		mg/l	0.01	--	1	-	09/30/10 13:00	30,3500-Cr	EL



Project Name: 425 FEDERAL ST.

Lab Number: L1014824

Project Number: 0701-254

Report Date: 10/04/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG434022-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	09/23/10 23:15	30,4500CL-D	JW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG434024-2										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	09/23/10 23:30	09/23/10 23:30	30,3500CR-D	DD
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG434138-2										
Cyanide, Total	ND		mg/l	0.005	--	1	09/24/10 15:30	09/27/10 17:20	30,4500CN-CE	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG434352-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	09/28/10 10:20	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG434436-2										
Chloride	ND		mg/l	1.0	--	1	-	09/27/10 17:38	30,4500CL-E	LA
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG434653-2										
TPH	ND		mg/l	4.00	--	1	09/28/10 17:00	09/29/10 14:00	74,1664A	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG434876-1										
Phenolics, Total	ND		mg/l	0.03	--	1	-	09/29/10 17:46	4,420.1	TP

Lab Control Sample Analysis

Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG434022-2								
Chlorine, Total Residual	109		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG434024-1								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG434138-1								
Cyanide, Total	94		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG434436-1								
Chloride	107		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG434653-1								
TPH	85		-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG434876-2								
Phenolics, Total	100		-		82-111	-		12

Matrix Spike Analysis

Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434024-3 QC Sample: L1014824-01 Client ID: MW6												
Chromium, Hexavalent	ND	0.1	0.102	102		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434138-3 QC Sample: L1014655-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.194	97		-	-		90-110	-		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434436-3 QC Sample: L1014810-02 Client ID: MS Sample												
Chloride	67	20	86	95		-	-		58-140	-		7
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434653-3 QC Sample: L1014827-01 Client ID: MS Sample												
TPH	ND	22.2	19.3	87		-	-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434876-3 QC Sample: L1014998-01 Client ID: MS Sample												
Phenolics, Total	ND	0.8	0.82	102		-	-		77-124	-		12

Lab Duplicate Analysis Batch Quality Control

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434024-4 QC Sample: L1014824-01 Client ID: MW6						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434138-4 QC Sample: L1014749-02 Client ID: DUP Sample						
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434352-2 QC Sample: L1014889-01 Client ID: DUP Sample						
Solids, Total Suspended	1600	1600	mg/l	0		32
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434436-4 QC Sample: L1014810-02 Client ID: DUP Sample						
Chloride	67	67	mg/l	0		7
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434653-4 QC Sample: L1014827-01 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG434876-4 QC Sample: L1014998-02 Client ID: DUP Sample						
Phenolics, Total	0.14	0.14	mg/l	0		12

Project Name: 425 FEDERAL ST.

Project Number: 0701-254

Lab Number: L1014824

Report Date: 10/04/10

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1014824-01A	Vial Na2S2O3 preserved	A	N/A	3	Y	Absent	624(7)
L1014824-01B	Vial Na2S2O3 preserved	A	N/A	3	Y	Absent	504(14)
L1014824-01C	Plastic 250ml NaOH preserved	A	>12	3	Y	Absent	TCN-4500(14)
L1014824-01D	Plastic 500ml unpreserved	A	7	3	Y	Absent	SPECWC(),HEXCR-3500(1)
L1014824-01E	Plastic 500ml unpreserved	A	7	3	Y	Absent	CL-4500(28),TRC-4500(1)
L1014824-01F	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),FE-UI(180),PB-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180)
L1014824-01G	Plastic 1000ml unpreserved	A	7	3	Y	Absent	TSS-2540(7)
L1014824-01H	Amber 1000ml H2SO4 preserved	A	<2	3	Y	Absent	TPHENOL-420(28)
L1014824-01I	Amber 1000ml HCl preserved	A	<2	3	Y	Absent	TPH-1664(28)
L1014824-01J	Amber 1000ml HCl preserved	A	<2	3	Y	Absent	TPH-1664(28)
L1014824-01K	Amber 1000ml Na2S2O3	A	7	3	Y	Absent	PCB-608(7)
L1014824-01L	Amber 1000ml Na2S2O3	A	7	3	Y	Absent	PCB-608(7)
L1014824-01M	Amber 1000ml unpreserved	A	7	3	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1014824-01N	Amber 1000ml unpreserved	A	7	3	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1014824-01O	Amber 1000ml unpreserved	A	7	3	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1014824-01P	Amber 1000ml unpreserved	A	7	3	Y	Absent	8270TCL(7),8270TCL-SIM(7)

*Values in parentheses indicate holding time in days



Project Name: 425 FEDERAL ST.
Project Number: 0701-254

Lab Number: L1014824
Report Date: 10/04/10

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MDL	· Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	· Not Ignitable.
RL	· Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	· Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	· Spectra identified as "Aldol Condensation Product".
B	· The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	· Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	· Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	· The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	· The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
P	· The RPD between the results for the two columns exceeds the method-specified criteria.
Q	· The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	· Analytical results are from sample re-analysis.

Report Format: Data Usability Report



Project Name: 425 FEDERAL ST.**Lab Number:** L1014824**Project Number:** 0701-254**Report Date:** 10/04/10***Data Qualifiers*****RE** - Analytical results are from sample re-extraction.**J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).**ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: 425 FEDERAL ST.
Project Number: 0701-254

Lab Number: L1014824
Report Date: 10/04/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).
- 14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 74 Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO₃-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH₃-H, 4500NH₃-E, 4500NO₂-B, 4500P-E, 4500-S₂-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B₅+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S₂⁻D, 510C, 5210B, 5220D, 5310C, 5540C. *Organic Parameters:* EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, *Organic Parameters:* EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methyl naphthalenes, Total Dimethyl naphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.

THIS PAGE LEFT INTENTIONALLY BLANK.