

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

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

a) Name of facility/site : Town of Westford - Highway Garage		Facility/site address: 28 North Street, Westford, MA	
Location of facility/site : longitude: -71.474131 latitude: 42.601814	Facility SIC code(s): 1611	Street: 28 North Street	
b) Name of facility/site owner : Jodi Ross - Town Manager		Town: Westford	
Email address of owner: JRoss@westfordma.gov	State: MA	Zip: 01886	County: Middlesex
Telephone no. of facility/site owner : 978-692-5500			
Fax no. of facility/site owner : 978-399-2557	Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private____ 4. other, if so, describe: Town owned facility.		
Address of owner (if different from site): 55 Main Street, Westford, MA			
Street: 55 Main Street			
Town: Westford	State: MA	Zip: 01886	County: Middlesex
c) Legal name of operator : Comprehensive Environmental, Inc.		Operator telephone no: 800-725-2550 Operator fax no.: 800-331-0892 Operator email: RCote@ceiengineers.com	
Operator contact name and title: Richard Cote, P.E., LSP, Manager of Engineering			
Address of operator (if different from owner):		Street: 225 Cedar Hill Street, Marlborough, MA 01752	
Town: Marlborough	State: MA	Zip: 01752	County: Middlesex
d) Check "yes" or "no" for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No ☒ , if "yes," number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No ☒ , if "yes," date and tracking #: 3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes ☒ No___ 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes ☒ No___			

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes ☒ No ☐ If “yes,” please list: 1. site identification # assigned by the state of NH or MA: RTN 3-26268 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number: Leticia Ruiz-Boyle; MassDEP NE Regional Office, 205B Lowell Street, Wilmington, MA 01887; (978)694-3352	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. phase I or II construction storm water general permit? Y ☐ N ☒, if Y, number: 3. individual NPDES permit? Y ☐ N ☒, if Y, number: 4. any other water quality related permit? Y ☐ N ☒, if Y, number:
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage: See attached sheet.			
b) Provide the following information about each discharge:	<table border="1"> <tr> <td style="vertical-align: top;"> 1) Number of discharge points: 1 </td> <td style="vertical-align: top;"> 2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow <u>0.06684</u> Average flow <u>0.03342</u> Is maximum flow a design value? Y ☒ N ☐ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. 0.03342 ft³/sec based on calculated yield for Well#8016 (~5.5gpm) and Well#8017 (~7.2gpm). Pump sized for 15gpm each to account for precipitation events. </td> </tr> </table>	1) Number of discharge points: 1	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow <u>0.06684</u> Average flow <u>0.03342</u> Is maximum flow a design value? Y ☒ N ☐ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. 0.03342 ft³/sec based on calculated yield for Well#8016 (~5.5gpm) and Well#8017 (~7.2gpm). Pump sized for 15gpm each to account for precipitation events.
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3) Latitude and longitude of each discharge within 100 feet: pt.1:long. <u>-71.474514</u> lat. <u>42.602672</u>; pt.2: long. _____ lat. _____; pt.3: long. _____ lat. _____; pt.4:long. _____ lat. _____; pt.5: long. _____ lat. _____; pt.6:long. _____ lat. _____; pt.7: long. _____ lat. _____; pt.8:long. _____ lat. _____; 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>05/07/09</u> end <u>10/03/12</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. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites ✓	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids	✓		1	grab					ND	0
2. Total Residual Chlorine	✓		1	grab					ND	0
3. Total Petroleum Hydrocarbons	✓		1	grab					ND	0
4. Cyanide		✓	1	grab	4500CN-CE	5	10	1.63	10	1.63
5. Benzene	✓		1	grab					ND	0
6. Toluene	✓		1	grab					ND	0
7. Ethylbenzene	✓		1	grab					ND	0
8. (m,p,o) Xylenes	✓		1	grab					ND	0
9. Total BTEX ⁴	✓		1	grab					ND	0

⁴BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

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							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide ⁵ (1,2- Dibromo-methane)	✓		1	grab					ND	0
11. Methyl-tert-Butyl Ether (MtBE)	✓		1	grab					ND	0
12. tert-Butyl Alcohol (TBA)	✓		1	grab					ND	0
13. tert-Amyl Methyl Ether (TAME)	✓		1	grab					ND	0
14. Naphthalene	✓		1	grab					ND	0
15. Carbon Tetra-chloride	✓		1	grab					ND	0
16. 1,4 Dichlorobenzene	✓		1	grab					ND	0
17. 1,2 Dichlorobenzene	✓		1	grab					ND	0
18. 1,3 Dichlorobenzene	✓		1	grab					ND	0
19. 1,1 Dichloroethane	✓		1	grab					ND	0
20. 1,2 Dichloroethane	✓		1	grab					ND	0
21. 1,1 Dichloroethylene	✓		1	grab					ND	0
22. cis-1,2 Dichloro-ethylene	✓		1	grab					ND	0
23. Dichloromethane (Methylene Chloride)	✓		1	grab					ND	0
24. Tetrachloroethylene	✓		1	grab					ND	0

⁵EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

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							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		1	grab					ND	0
26. 1,1,2 Trichloroethane	✓		1	grab					ND	0
27. Trichloroethylene	✓		1	grab					ND	0
28. Vinyl Chloride	✓		1	grab					ND	0
29. Acetone	✓		1	grab					ND	0
30. 1,4 Dioxane	✓		1	grab					ND	0
31. Total Phenols	✓		1	grab					ND	0
32. Pentachlorophenol	✓		1	grab					ND	0
33. Total Phthalates ⁶ (Phthalate esthers)	✓		1	grab					ND	0
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	grab					ND	0
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	grab					ND	0
a. Benzo(a) Anthracene	✓		1	grab					ND	0
b. Benzo(a) Pyrene	✓		1	grab					ND	0
c. Benzo(b)Fluoranthene	✓		1	grab					ND	0
d. Benzo(k) Fluoranthene	✓		1	grab					ND	0
e. Chrysene	✓		1	grab					ND	0

⁶The sum of individual phthalate compounds.

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							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		1	grab					ND	0
g. Indeno(1,2,3-cd) Pyrene	✓		1	grab					ND	0
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	grab					ND	0
h. Acenaphthene	✓		1	grab					ND	0
i. Acenaphthylene	✓		1	grab					ND	0
j. Anthracene	✓		1	grab					ND	0
k. Benzo(ghi) Perylene	✓		1	grab					ND	0
l. Fluoranthene	✓		1	grab					ND	0
m. Fluorene	✓		1	grab					ND	0
n. Naphthalene-	✓		1	grab					ND	0
o. Phenanthrene	✓		1	grab					ND	0
p. Pyrene	✓		1	grab					ND	0
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	grab					ND	0
38. Antimony	✓		1	grab					ND	0
39. Arsenic		✓	1	grab	6020A	1	3	0.49	3	0.49
40. Cadmium		✓	1	grab	6020A	0.2	0.6	0.1	0.6	0.10
41. Chromium III		✓	1	grab	6020A	1	1	0.16	1	0.16
42. Chromium VI		✓	1	grab	6020A	1	1	0.16	1	0.16

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							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		✓	1	grab	6020A	1	9	1.47	9	1.47
44. Lead	✓		1	grab					ND	0
45. Mercury	✓		1	grab					ND	0
46. Nickel		✓	1	grab	6020A	1	2	0.33	2	0.33
47. Selenium		✓	1	grab	6020A	1	5	0.82	5	0.82
48. Silver	✓		1	grab					ND	0
49. Zinc		✓	1	grab	6020A	10	12	1.96	12	1.96
50. Iron		✓	2	grab	200.7	50	130	21.25	105	17.16
Other (describe): Ammonium Perchlorate		✓	2	grab	332.0	0.05	60.8	9.94	46.6	7.62

c) For discharges where **metals** are believed present, please fill out the following:

<i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y <u>✓</u> N _____	If yes, which metals? Cadmium and Copper
<i>Step 2:</i> For any metals which have reasonable potential to 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? Metals: <u>Cadmium and Copper</u> DF: <u>24.938</u>	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 <u>✓</u> If “Yes,” list which metals:

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

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator	Equalization tanks	Bag filter ☒	GAC filter
	Chlorination	Dechlorination	Other (please describe): Ion Exchange Perchlorate Remediation System			
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 <u>15</u> Maximum flow rate of treatment system <u>30</u> Design flow rate of treatment system <u>30</u>						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): Sequest-All may be used if iron fouling is an issue. See MSDS.						

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

a) Identify the discharge pathway:	Direct ☐	Within facility ☒	Storm drain ☒	River/brook ☐	Wetlands ☐	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Into existing on-site drainage system; to nearby detention pond; overland to other detention ponds; some across North St. to detention pond; Stony Brook						
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>Stony Brook (Class B)</u> ,						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water <u>1.6</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 ☒ No ☐ If yes, for which pollutant(s)? <u>cause unknown; pH, Organic Enrichment</u> Is there a TMDL? Yes ☐ No ☒ If yes, for which pollutant(s)?						

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes___ No ☒ Has any consultation with the federal services been completed ? Yes___ No ☒ or is consultation underway? Yes ☒ No___ What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one): a “no jeopardy” opinion? ___or written concurrence___ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge? Yes___ No ☒ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes___ No ☒

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.
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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: Town of Westford; Highway Garage
Operator signature:
Title: P.E., LSP, Manager of Engineering
Date:

Notice of Intent (NOI)

Section 2.a) Discharge Information.

A perchlorate removal treatment system is being installed as part of the Town's response actions under the MCP to pump and treat perchlorate contaminated groundwater from two bedrock wells. The treatment system will consist of ion exchange resin filters, with the treated water being discharged to the existing site stormwater management system. The discharge location will be through an existing catch basin that connects to Stormwater Detention Pond #3 (see Site Plan figure for location). The treated clean water discharge is subject to MCP Method 1 Standards that are protective of aquatic life. Since there is no surface water standard for perchlorate, it is appropriate to use the GW-3 standard of 1,000 ppb as the effluent limit for this NPDES discharge. However, the treatment system is designed to remove perchlorate to less than 2 ppb and this value will be used to evaluate the need for change-out of the resin. Perchlorate will be monitored in accordance with the standard permit conditions and pH will be monitored on a daily basis using a field instrument.

Material Safety Data

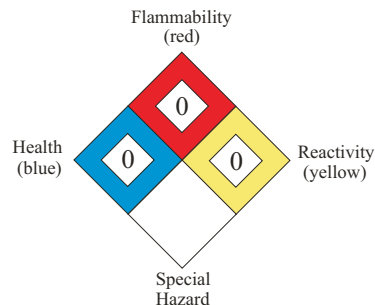
SEQUEST-ALL (granular)

NFPA Designation 704

To:

Degree of Hazard

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant



SPER Chemical Corporation Phone: (727) 535-9033 Fax: (727) 530-0741
14770 62nd Street N., Clearwater, Florida 33760

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Sequest-All Water Treatment - Granular
COMMON NAME/SYNONYMS: Blended Phosphate/Polyphosphate
FORMULA: Proprietary
BULK DENSITY: 82 Lbs./cubic foot
DESCRIPTION/APPEARANCE: White, odorless powders and granules.

MAXIMUM USE LEVEL: 11.6 Mg/l
(NSF Potable Use MCL)

SECTION II - NORMAL HANDLING PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE INCLUDES:

Avoid contact with eyes, skin or clothing. Do not take internally. Upon contact with skin or eyes, wash off with water.

PROTECTIVE EQUIPMENT

EYES: Goggles

GLOVES: Impervious

OTHER: NIOSH/MSHA approved dust respirator
if excessive dusting occurs.

VENTILATION REQUIREMENTS:

Local mechanical exhaust ventilation recommended.

SECTION III - HAZARDOUS INGREDIENTS

BASIC MATERIAL: Phosphate
SIGNIFICANT EFFECTS: Irritation to eyes, skin and mucous membranes.

OSHA PEL: None
LD 50: 3.5 G/KG [rat]
LC 50: No data

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT METHOD: N/A

OSHA CLASSIFICATION: Non-combustible granular.

EXTINGUISHING MEDIA: Non-combustible - choose media suitable for surrounding materials.

EXPLOSIVE LIMITS:

Lower: ND **Upper:** ND

SPECIAL FIRE HAZARD & FIRE FIGHTING PROCEDURE: Use NIOSH approved self contained breathing apparatus when material is involved in fire.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: None established

SYMPTOMS OF OVER EXPOSURE: May cause skin, eye and mucous membrane irritation.

EMERGENCY FIRST AID PROCEDURES:

SKIN: Flush with water. If an irritation develops, call a physician.

EYES: Flush with water. If eye irritation develops, call a physician.

INGESTION: Drink large quantities of water. Induce vomiting and call a physician.

SECTION VI - TOXICOLOGY / ECOLOGICAL INFORMATION

ACUTE ORAL LD 50: 3.5 G/KG

ACUTE DERMAL LD 50: 8.2 G/KG

ACUTE INHALATION LC 50: No Data

CARCINOGENIC: Non-carcinogenic

MUTAGENIC: Non-mutagenic

EYE IRRITANT: Irritant

PRIMARY SKIN IRRITANT: Irritant

EFFECTS OF ACUTE EXPOSURE: May cause skin, eye and mucous membrane irritation.

EFFECTS OF CHRONIC EXPOSURE: None known.

ECOTOXICOLOGICAL: LC50 > 100mg/L 96 hours (Rainbow Trout)

EC50 > 100mg/L 48 hours (Daphnia magna)

SECTION VII - SPILL OR LEAKAGE PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear appropriate protective equipment including goggles, gloves, and respirator to prevent contact with skin, eyes or mucous membranes. Shovel or sweep and place in an approved DOT container and seal. Keep out of sewers, storm drains, surface waters, and soil. Comply with all applicable governmental regulations on spill reporting, handling, and disposal of waste. Wash away residual with water.

DISPOSAL METHOD: Dispose of contaminated product and materials used in cleaning up spill in a manner approved for this material. Consult appropriate Federal, State, and Local regulatory agencies to ascertain proper disposal procedures.

SECTION VIII - HAZARDOUS REACTIVITY

STABILITY: Stable

POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Phosphorus oxides

SECTION IX - PHYSICAL DATA

MELTING POINT: 550C

VAPOR PRESSURE: No data

VOLATILES: Non-volatile

BOILING POINT: over 1500C

SOLUBILITY IN WATER: Yes

EVAPORATION RATE: ND

SPECIFIC GRAVITY: 1.31 @ 50°F

pH 1% SOLUTION: 6.3

VAPOR DENSITY: Non-volatile

SECTION X - REGULATORY INFORMATION

UNITED STATES FEDERAL REGULATIONS:

TSCA: All components in this product are listed on the TSCA Inventory.

OSHA: None of the components in this product are considered hazardous.

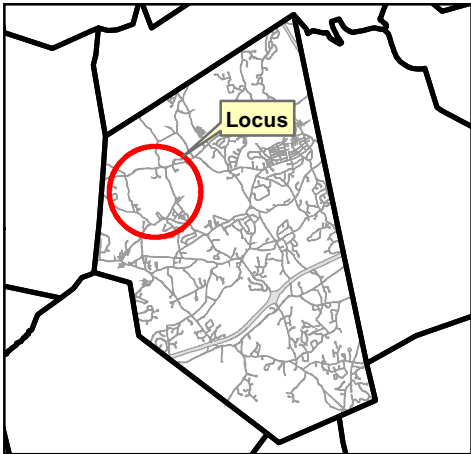
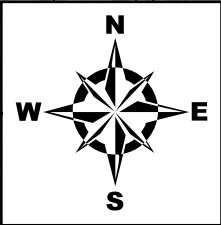
CANADA REGULATIONS:

DSL: All components are listed on DSL list.

CIDL: None of the components in this product are listed on the Canadian Ingredient Disclosure List.

NOTICE

The information herein is to our knowledge true and accurate. All information appearing on this document is based on data obtained from the manufacturer and/or recognized technical sources. Because of conditions beyond our control, we make no warranty or representation, expressed or implied, except that the product discussed herein conform to the chemical descriptions shown on their labels/product data. No agent, representative or employee of this company is authorized to vary any of the terms of this notice.



Aerial Site Locus

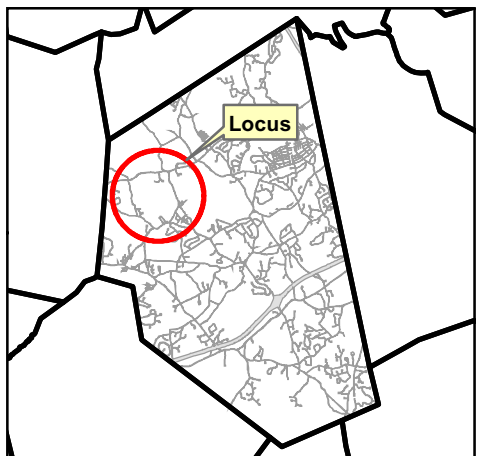
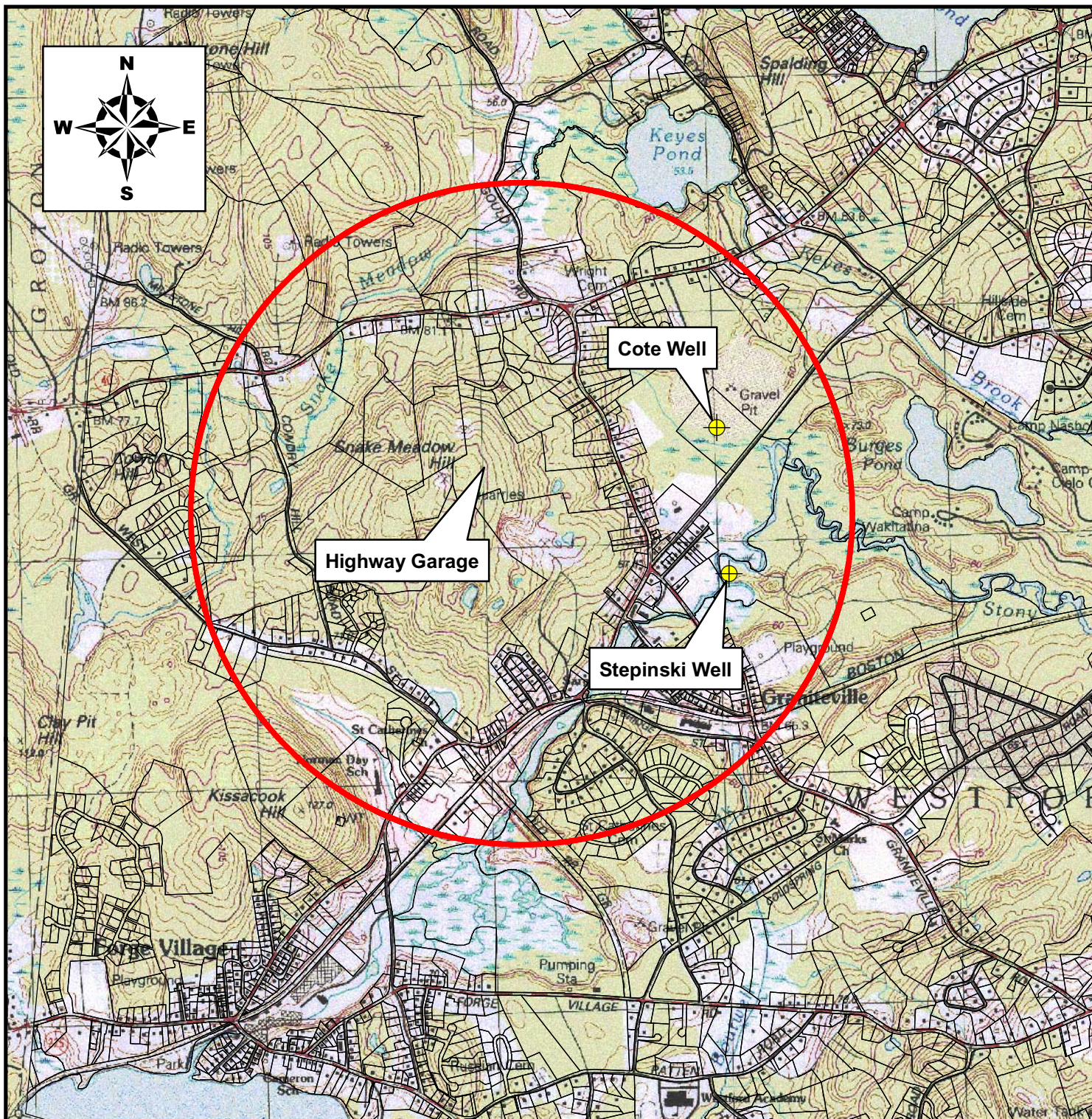
Town of
Westford, Massachusetts



Comprehensive Environmental Inc.



SCALE 1:6,000



USGS Site Locus

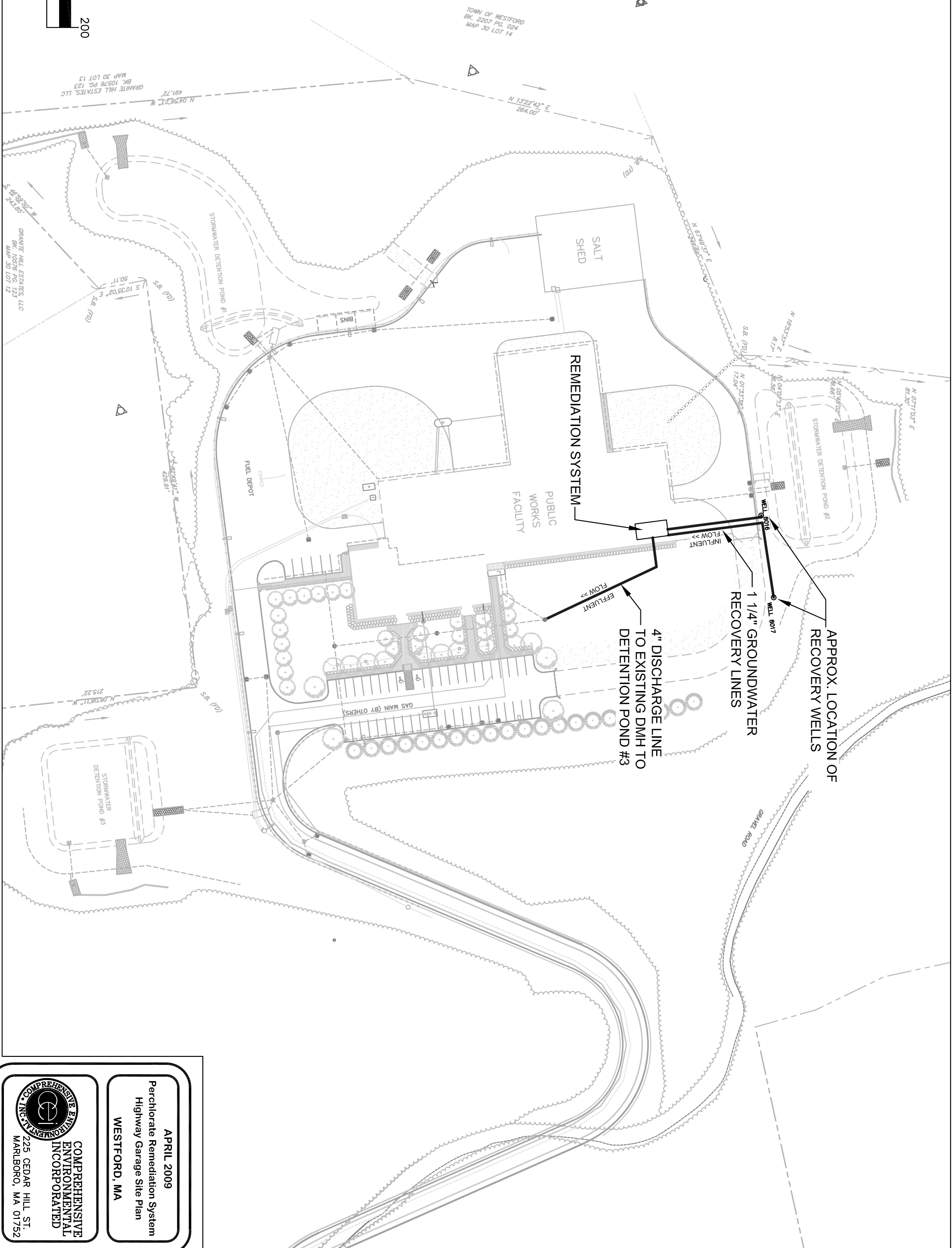
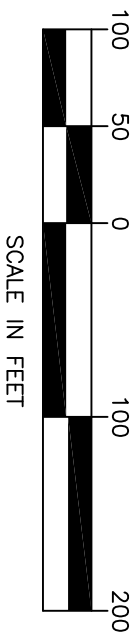
Town of
Westford, Massachusetts



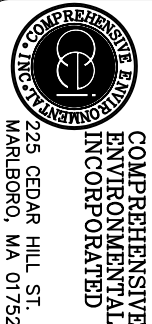
Comprehensive Environmental Inc.



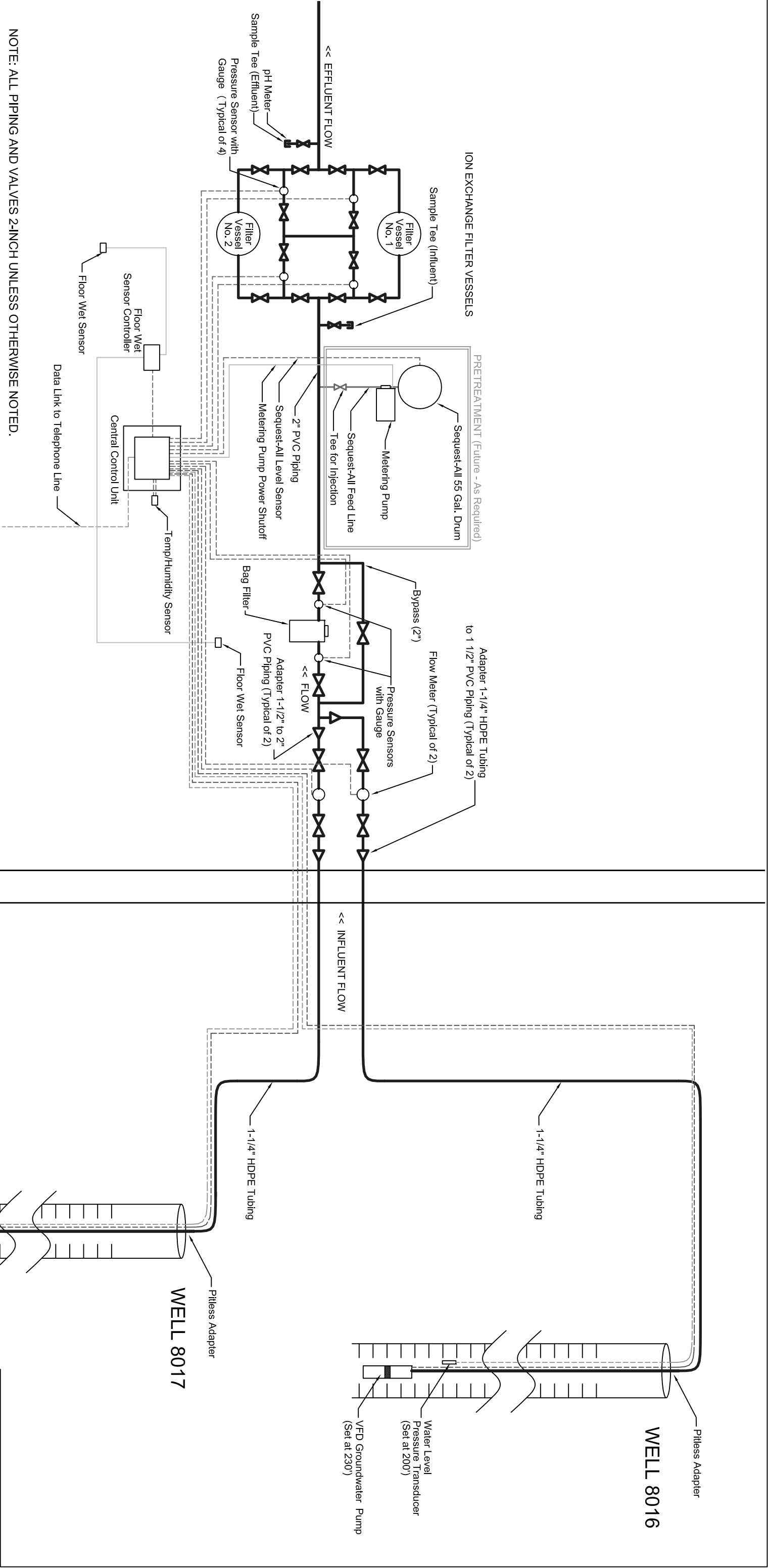
SCALE 1:24,000



APRIL 2009
Perchlorate Remediation System
Highway Garage Site Plan
WESTFORD, MA



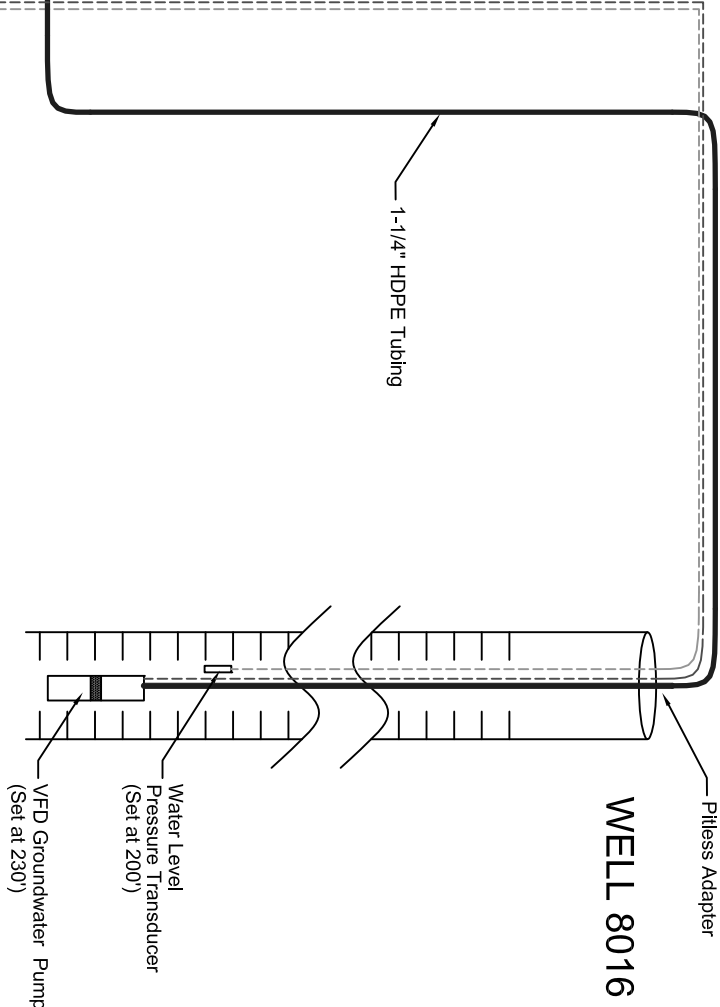
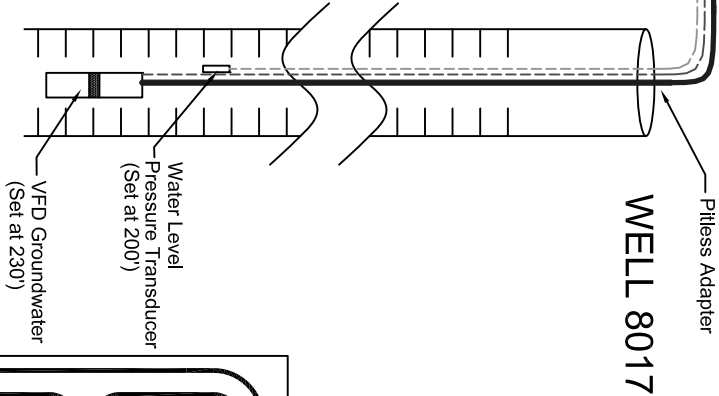
225 CEDAR HILL ST.
MARLBORO, MA 01752



DPW BUILDING

LEGEND

- Pumped Groundwater
- Intermediate Data, Power or Communication Links
- Sequest-All Line
- Data
- Power
- Communication Links



APRIL 2009
Perchlorate Remediation System
Schematic - System Components
WESTFORD, MA



**ALPHA ANALYTICAL
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:2003 CT:PH-0574 ME:MA0086 RI:LAO00065 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0901010-02

Date Collected: 27-JAN-2009 12:58

MW 8016

Date Received : 27-JAN-2009

Sample Matrix: WATER

Date Reported : 04-FEB-2009

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 4-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Alkalinity, Total	37	mg CaCO3/L2.0		30 2320B		0127 20:27	JO
Chloride	2300	mg/l	100	1 9251		0130 19:32	DD
pH	6.0	SU	-	1 9040B		0127 22:35	JO
Nitrogen, Nitrate	3.4	mg/l	0.10	30 4500NO3-F		0127 22:00	DD
Sulfate	160	mg/l	100	1 9038	0130 09:30	0130 09:30	SD
Total Metals							
Calcium, Total	95	mg/l	0.10	1 6010B	0128 13:25	0130 17:34	AI
Chromium, Total	ND	mg/l	0.01	1 6010B	0128 13:25	0130 17:34	AI
Iron, Total	0.08	mg/l	0.05	1 6010B	0128 13:25	0130 17:34	AI
Magnesium, Total	82	mg/l	0.10	1 6010B	0128 13:25	0130 17:34	AI
Manganese, Total	0.138	mg/l	0.010	1 6010B	0128 13:25	0130 17:34	AI
Potassium, Total	36	mg/l	2.5	1 6010B	0128 13:25	0130 17:34	AI
Sodium, Total	1300	mg/l	20	1 6010B	0128 13:25	0202 15:42	AI
Dissolved Metals							
Calcium, Dissolved	91	mg/l	0.10	1 6010B	0128 13:25	0130 16:58	AI
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0128 13:25	0130 16:58	AI
Iron, Dissolved	ND	mg/l	0.05	1 6010B	0128 13:25	0130 16:58	AI
Magnesium, Dissolved	78	mg/l	0.10	1 6010B	0128 13:25	0130 16:58	AI
Manganese, Dissolved	0.131	mg/l	0.010	1 6010B	0128 13:25	0130 16:58	AI
Potassium, Dissolved	35	mg/l	2.5	1 6010B	0128 13:25	0130 16:58	AI
Sodium, Dissolved	1300	mg/l	20	1 6010B	0128 13:25	0202 14:38	AI

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0901010

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Alkalinity, Total for sample(s) 02 (L0901010-02, WG351165-4)					
Alkalinity, Total	37	35	mg CaCO3/L	6	4
Chloride for sample(s) 02 (L0901010-02, WG351530-4)					
Chloride	2300	2300	mg/l	0	7
pH for sample(s) 02 (L0901010-02, WG351163-2)					
pH	6.0	6.0	SU	0	5
Nitrogen, Nitrate for sample(s) 02 (L0901005-02, WG351117-4)					
Nitrogen, Nitrate	0.38	0.38	mg/l	0	6
Sulfate for sample(s) 02 (L0901005-02, WG351491-4)					
Sulfate	13	13	mg/l	0	14
Total Metals for sample(s) 02 (L0901010-02, WG351240-3)					
Calcium, Total	95	91	mg/l	4	20
Chromium, Total	ND	ND	mg/l	NC	20
Iron, Total	0.08	0.09	mg/l	9	20
Magnesium, Total	82	78	mg/l	5	20
Manganese, Total	0.138	0.133	mg/l	4	20
Potassium, Total	36	35	mg/l	3	20
Sodium, Total	1300	1300	mg/l	0	20
Dissolved Metals for sample(s) 02 (L0901010-02, WG351237-3)					
Calcium, Dissolved	91	91	mg/l	0	20
Chromium, Dissolved	ND	ND	mg/l	NC	20
Iron, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	78	77	mg/l	1	20
Manganese, Dissolved	0.131	0.129	mg/l	2	20
Potassium, Dissolved	35	35	mg/l	0	20
Sodium, Dissolved	1300	1300	mg/l	0	20

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0901010

Parameter	% Recovery	QC Criteria
Alkalinity, Total LCS for sample(s) 02 (WG351165-1)		
Alkalinity, Total	104	80-115
Chloride LCS for sample(s) 02 (WG351530-1)		
Chloride	100	90-110
pH LCS for sample(s) 02 (WG351163-1)		
pH	101	99-101
Nitrogen, Nitrate LCS for sample(s) 02 (WG351117-1)		
Nitrogen, Nitrate	96	90-110
Sulfate LCS for sample(s) 02 (WG351491-2)		
Sulfate	95	90-115
Total Metals LCS for sample(s) 02 (WG351240-2)		
Calcium, Total	94	80-120
Chromium, Total	105	80-120
Iron, Total	100	80-120
Magnesium, Total	100	80-120
Manganese, Total	100	80-120
Potassium, Total	94	80-120
Sodium, Total	93	80-120
Dissolved Metals LCS for sample(s) 02 (WG351237-2)		
Calcium, Dissolved	92	80-120
Chromium, Dissolved	100	80-120
Iron, Dissolved	100	80-120
Magnesium, Dissolved	98	80-120
Manganese, Dissolved	99	80-120
Potassium, Dissolved	93	80-120
Sodium, Dissolved	93	80-120
Alkalinity, Total SPIKE for sample(s) 02 (L0901010-02, WG351165-3)		
Alkalinity, Total	101	86-116
Chloride SPIKE for sample(s) 02 (L0901010-02, WG351530-3)		
Chloride	0	58-140
Nitrogen, Nitrate SPIKE for sample(s) 02 (L0901005-01, WG351117-3)		
Nitrogen, Nitrate	96	83-120
Sulfate SPIKE for sample(s) 02 (L0901005-02, WG351491-3)		
Sulfate	110	55-147
Total Metals SPIKE for sample(s) 02 (L0901010-02, WG351240-4)		
Calcium, Total	50	75-125
Chromium, Total	100	75-125
Iron, Total	102	75-125

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0901010

Continued

Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 02 (L0901010-02, WG351240-4)		
Magnesium, Total	50	75-125
Manganese, Total	95	75-125
Potassium, Total	90	75-125
Sodium, Total	0	75-125
Dissolved Metals SPIKE for sample(s) 02 (L0901010-02, WG351237-4)		
Calcium, Dissolved	90	75-125
Chromium, Dissolved	100	75-125
Iron, Dissolved	100	75-125
Magnesium, Dissolved	120	75-125
Manganese, Dissolved	97	75-125
Potassium, Dissolved	110	75-125
Sodium, Dissolved	0	75-125

ALPHA ANALYTICAL
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0901010

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02 (WG351165-2)							
Alkalinity, Total	ND	mg CaCO3/L2.0		30 2320B		0127 20:27	JO
Blank Analysis for sample(s) 02 (WG351530-2)							
Chloride	ND	mg/l	1.0	1 9251		0130 19:03	DD
Blank Analysis for sample(s) 02 (WG351117-2)							
Nitrogen, Nitrate	ND	mg/l	0.10	30 4500NO3-F		0127 21:23	DD
Blank Analysis for sample(s) 02 (WG351491-1)							
Sulfate	ND	mg/l	10	1 9038	0130 09:30	0130 09:30	SD
Blank Analysis for sample(s) 02 (WG351240-1)							
Total Metals							
Calcium, Total	ND	mg/l	0.10	1 6010B	0128 13:25	0130 17:26	AI
Chromium, Total	ND	mg/l	0.01	1 6010B	0128 13:25	0130 17:26	AI
Iron, Total	ND	mg/l	0.05	1 6010B	0128 13:25	0130 17:26	AI
Magnesium, Total	ND	mg/l	0.10	1 6010B	0128 13:25	0130 17:26	AI
Manganese, Total	ND	mg/l	0.010	1 6010B	0128 13:25	0130 17:26	AI
Potassium, Total	ND	mg/l	2.5	1 6010B	0128 13:25	0130 17:26	AI
Sodium, Total	ND	mg/l	2.0	1 6010B	0128 13:25	0130 17:26	AI
Blank Analysis for sample(s) 02 (WG351237-1)							
Dissolved Metals							
Calcium, Dissolved	ND	mg/l	0.10	1 6010B	0128 13:25	0130 16:49	AI
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0128 13:25	0130 16:49	AI
Iron, Dissolved	ND	mg/l	0.05	1 6010B	0128 13:25	0130 16:49	AI
Magnesium, Dissolved	ND	mg/l	0.10	1 6010B	0128 13:25	0130 16:49	AI
Manganese, Dissolved	ND	mg/l	0.010	1 6010B	0128 13:25	0130 16:49	AI
Potassium, Dissolved	ND	mg/l	2.5	1 6010B	0128 13:25	0130 16:49	AI
Sodium, Dissolved	ND	mg/l	2.0	1 6010B	0128 13:25	0130 16:49	AI

**ALPHA ANALYTICAL
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. 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, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. 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, Inc.

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

Certificate/Approval Program Summary

Last revised December 31, 2008

The following list includes only those analytes/methods for which certification/approval is 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.

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: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium 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.)

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, 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), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), 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: MA0086.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 150.1, 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. Organic Parameters: 504.1, 524.2, SM 6251B.)

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.)

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, Nitrite-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.

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

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

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,Ti,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-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, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

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

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water)

600/4-81-045-PCB-Oil

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

Drinking Water

Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

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

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 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, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, 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.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500CI-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, EPA 350.2/.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.)

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, 3540C, 3545, 3550B, 3580A, 5035L, 5035H.)

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

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500CI-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, 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-NO3OF, EPA 354.1, SM4500-NO2-B, EPA 365.2, SM4500P-E, EPA 160.3, SM2540B, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

Analytical Services Protocol: CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

Rhode Island Department of Health Certificate/Lab ID: LAO00065.

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

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

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. Registered Laboratory.



CHAIN OF CUSTODY

PAGE ____ OF ____

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: CEI

Address: 21 Depot St.

Merrimack, NH 03054

Phone: 800 725 2550

Fax: 800 331 0892

Email: KSNYDE@CEIENGINEERS.COM

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Metals list per Bottle Order # 47390

Project Information

Project Name: Westford, MA

Project Location: Westford, MA

Project #: 190-15

Project Manager: Curt Busto

Alpha Quote #:

Turn-Around Time

☐ Standard

☐ RUSH (only confirmed if pre-approved!)

Date Due: 2/3/09

Time:

Date Rec'd in Lab: 1/27/09

ALPHA Job #: LC901010

Report Information - Data Deliverables

Billing Information

☐ FAX ☐ EMAIL

☐ ADEX ☐ Add'l Deliverables

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MA/MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RSL (Reasonable Confidence Protocols) Required?

ANALYSIS

Perc - 332 (Post Filter)
Ph, Cl, NO3, SO4, ALK - 7
Dissolved (Post Filter)
Total Ca, Cr, Fe, Mg, Mn, Ni, Pb, Se, V, Zn
Dissolved Metals (Pre Filter)

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
--------------------------------	-----------	--------------------	------	------------------	-----------------------

01010-1	DPW 6-WMMW 1-88446	1-27-09	1:57	MW	SK
2	MW 8016	1-27-09	1:00	MW	SK
23	MW 8016	1-04	MW	SK	
24	MW 8016	12:58	MW	SK	
25	MW 8016	12:59	MW	SK	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

[Signature]

Date/Time

1/27/09 3:30

Received By:

[Signature]

Date/Time

1/27/09 1:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

Project Name: WESTFORD, MA
Project Number: 190-15

Lab Number: L0900511
Report Date: 01/26/09

SAMPLE RESULTS

Lab ID: L0900511-21
Client ID: WELL # 8016
Sample Location: WESTFORD, MA
Matrix: Water

Date Collected: 01/09/09 14:10
Date Received: 01/14/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC-MS-MS									
Perchlorate	60.8		ug/l	1.00	20	-	01/23/09 16:21	71,332.0	GT





ANALYTICAL REPORT

Lab Number:	L0904448
Client:	Comprehensive Environmental, Inc. 21 Depot Street Merrimack, NH 03054
ATTN:	Katie Snyder
Project Name:	WESTFORD HIGHWAY GARAGE
Project Number:	190-15
Report Date:	04/17/09

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: WESTFORD HIGHWAY GARAGE
Project Number: 190-15

Lab Number: L0904448
Report Date: 04/17/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0904448-01	8016	WESTFOR, MA	04/10/09 11:38

Project Name: WESTFORD HIGHWAY GARAGE
Project Number: 190-15

Lab Number: L0904448
Report Date: 04/17/09

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.

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.

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

The samples were received at the laboratory above the required temperature range. The samples were delivered directly from the sampling site but were not on ice.

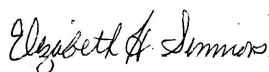
The chain of custody did not list any analyses. The analyses performed were according to the bottle order.

Perchlorate

L0904448-01 has elevated detection limits due to the 10x dilution required by the elevated concentrations of target compounds in the sample.

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:



Title: Technical Director/Representative

Date: 04/17/09

ORGANICS

VOLATILES

Project Name: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09**SAMPLE RESULTS**

Lab ID: L0904448-01
Client ID: 8016
Sample Location: WESTFOR, MA
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 04/15/09 13:08
Analyst: JB

Date Collected: 04/10/09 11:38
Date Received: 04/10/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Pesticides by GC - Westborough Lab

1,2-Dibromoethane	ND		ug/l	0.020	1
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Project Name: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09**SAMPLE RESULTS**

Lab ID: L0904448-01
Client ID: 8016
Sample Location: WESTFOR, MA
Matrix: Water
Analytical Method: 5,624
Analytical Date: 04/13/09 16:06
Analyst: TT

Date Collected: 04/10/09 11:38
Date Received: 04/10/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	1.5	1
Chloroform	ND		ug/l	1.5	1
Carbon tetrachloride	ND		ug/l	1.0	1
1,2-Dichloropropane	ND		ug/l	3.5	1
Dibromochloromethane	ND		ug/l	1.0	1
1,1,2-Trichloroethane	ND		ug/l	1.5	1
2-Chloroethylvinyl ether	ND		ug/l	10	1
Tetrachloroethene	ND		ug/l	1.5	1
Chlorobenzene	ND		ug/l	3.5	1
Trichlorofluoromethane	ND		ug/l	5.0	1
1,2-Dichloroethane	ND		ug/l	1.5	1
1,1,1-Trichloroethane	ND		ug/l	2.0	1
Bromodichloromethane	ND		ug/l	1.0	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	1
Bromoform	ND		ug/l	1.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	1
Benzene	ND		ug/l	1.0	1
Toluene	ND		ug/l	1.0	1
Ethylbenzene	ND		ug/l	1.0	1
Chloromethane	ND		ug/l	10	1
Bromomethane	ND		ug/l	5.0	1
Vinyl chloride	ND		ug/l	2.0	1
Chloroethane	ND		ug/l	2.0	1
1,1-Dichloroethene	ND		ug/l	1.0	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	1
Trichloroethene	ND		ug/l	1.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1

Project Name: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09**SAMPLE RESULTS****Lab ID:** L0904448-01**Date Collected:** 04/10/09 11:38**Client ID:** 8016**Date Received:** 04/10/09**Sample Location:** WESTFOR, MA**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
p/m-Xylene	ND		ug/l	2.0	1
o-xylene	ND		ug/l	1.0	1
Xylene (Total)	ND		ug/l	2.0	1
Styrene	ND		ug/l	1.0	1
Acetone	ND		ug/l	10	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	10	1
Vinyl acetate	ND		ug/l	20	1
4-Methyl-2-pentanone	ND		ug/l	10	1
2-Hexanone	ND		ug/l	10	1
Acrolein	ND		ug/l	8.0	1
Acrylonitrile	ND		ug/l	10	1
Methyl tert butyl ether	ND		ug/l	20	1
1,4-Dioxane	ND		ug/l	2000	1
Tert-Butyl Alcohol	ND		ug/l	100	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	91		80-120
Fluorobenzene	96		80-120
4-Bromofluorobenzene	108		80-120

Project Name: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Method Blank Analysis Batch Quality Control

Analytical Method: 5,624

Analytical Date: 04/13/09 08:38

Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG358747-2				
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: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Method Blank Analysis Batch Quality Control

Analytical Method: 5,624
 Analytical Date: 04/13/09 08:38
 Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG358747-2				
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
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	96		80-120
Fluorobenzene	101		80-120
4-Bromofluorobenzene	108		80-120

Project Name: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09**Method Blank Analysis**
Batch Quality Control

Analytical Method: 14,504.1

Analytical Date: 04/15/09 11:52

Analyst: JB

Parameter	Result	Qualifier	Units	RDL
Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG358947-1				

1,2-Dibromoethane	ND		ug/l	0.020
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1,2-Dibromo-3-chloropropane	ND		ug/l	0.020
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Lab Control Sample Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG358747-1					
Methylene chloride	109	-	1-221	-	30
1,1-Dichloroethane	110	-	59-155	-	30
Chloroform	104	-	51-138	-	30
Carbon tetrachloride	112	-	70-140	-	30
1,2-Dichloropropane	114	-	1-210	-	30
Dibromochloromethane	108	-	53-149	-	30
1,1,2-Trichloroethane	108	-	52-150	-	30
2-Chloroethylvinyl ether	98	-	1-305	-	30
Tetrachloroethene	106	-	64-148	-	30
Chlorobenzene	110	-	37-160	-	30
Trichlorofluoromethane	101	-	17-181	-	30
1,2-Dichloroethane	112	-	49-155	-	30
1,1,1-Trichloroethane	110	-	52-162	-	30
Bromodichloromethane	111	-	35-155	-	30
trans-1,3-Dichloropropene	112	-	17-183	-	30
cis-1,3-Dichloropropene	112	-	1-227	-	30
Bromoform	106	-	45-169	-	30
1,1,2,2-Tetrachloroethane	110	-	46-157	-	30
Benzene	110	-	37-151	-	30
Toluene	112	-	47-150	-	30
Ethylbenzene	114	-	37-162	-	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG358747-1					
Chloromethane	115	-	1-273	-	30
Bromomethane	118	-	1-242	-	30
Vinyl chloride	91	-	1-251	-	30
Chloroethane	99	-	14-230	-	30
1,1-Dichloroethene	111	-	1-234	-	30
trans-1,2-Dichloroethene	111	-	54-156	-	30
cis-1,2-Dichloroethene	107	-	60-140	-	30
Trichloroethene	105	-	71-157	-	30
1,2-Dichlorobenzene	114	-	18-190	-	30
1,3-Dichlorobenzene	111	-	59-156	-	30
1,4-Dichlorobenzene	114	-	18-190	-	30
p/m-Xylene	113	-	40-160	-	30
o-Xylene	106	-	40-160	-	30
XYLENE (TOTAL)	110	-	40-160	-	30
Styrene	106	-	40-160	-	30
Acetone	137	-	40-160	-	30
Carbon disulfide	111	-	40-160	-	30
2-Butanone	112	-	40-160	-	30
Vinyl acetate	103	-	40-160	-	30
4-Methyl-2-pentanone	118	-	40-160	-	30
2-Hexanone	114	-	40-160	-	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG358747-1					
Acrolein	157	-	40-160	-	30
Acrylonitrile	103	-	40-160	-	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	102				80-120
Fluorobenzene	102				80-120
4-Bromofluorobenzene	98				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG358947-2					
1,2-Dibromoethane	82	-	70-130	-	20
1,2-Dibromo-3-chloropropane	81	-	70-130	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: WESTFORD HIGHWAY GARAGE
Project Number: 190-15

Lab Number: L0904448
Report Date: 04/17/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01				QC Batch ID: WG358747-3		QC Sample: L0904367-01		Client ID: MS Sample	
Methylene chloride	ND	20	19	96	-	-	1-221	-	30
1,1-Dichloroethane	ND	20	20	98	-	-	59-155	-	30
Chloroform	ND	20	19	94	-	-	51-138	-	30
Carbon tetrachloride	ND	20	21	107	-	-	70-140	-	30
1,2-Dichloropropane	ND	20	20	100	-	-	1-210	-	30
Dibromochloromethane	ND	20	19	97	-	-	53-149	-	30
1,1,2-Trichloroethane	ND	20	20	99	-	-	52-150	-	30
2-Chloroethylvinyl ether	ND	20	14	73	-	-	1-305	-	30
Tetrachloroethene	ND	20	20	102	-	-	64-148	-	30
Chlorobenzene	ND	20	20	103	-	-	37-160	-	30
Trichlorofluoromethane	ND	20	19	97	-	-	17-181	-	30
1,2-Dichloroethane	ND	20	19	94	-	-	49-155	-	30
1,1,1-Trichloroethane	ND	20	20	100	-	-	52-162	-	30
Bromodichloromethane	ND	20	20	102	-	-	35-155	-	30
trans-1,3-Dichloropropene	ND	20	19	95	-	-	17-183	-	30
cis-1,3-Dichloropropene	ND	20	19	95	-	-	1-227	-	30
Bromoform	ND	20	19	97	-	-	45-169	-	30
1,1,2,2-Tetrachloroethane	ND	20	21	103	-	-	46-157	-	30
Benzene	ND	20	20	99	-	-	35-151	-	30
Toluene	ND	20	21	104	-	-	47-150	-	30
Ethylbenzene	ND	20	22	111	-	-	37-162	-	30

Matrix Spike Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE
Project Number: 190-15

Lab Number: L0904448
Report Date: 04/17/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01				QC Batch ID: WG358747-3		QC Sample: L0904367-01		Client ID: MS Sample	
Chloromethane	ND	20	21	104	-	-	1-273	-	30
Bromomethane	ND	20	17	85	-	-	1-242	-	30
Vinyl chloride	ND	20	16	82	-	-	1-251	-	30
Chloroethane	ND	20	18	91	-	-	14-230	-	30
1,1-Dichloroethene	ND	20	21	104	-	-	1-234	-	30
trans-1,2-Dichloroethene	ND	20	20	101	-	-	54-156	-	30
cis-1,2-Dichloroethene	ND	20	19	95	-	-	60-140	-	30
Trichloroethene	ND	20	19	93	-	-	71-157	-	30
1,2-Dichlorobenzene	ND	20	21	106	-	-	18-190	-	30
1,3-Dichlorobenzene	ND	20	20	101	-	-	59-156	-	30
1,4-Dichlorobenzene	ND	20	21	104	-	-	18-190	-	30
p/m-Xylene	ND	40	42	106	-	-	40-160	-	30
o-Xylene	ND	20	20	101	-	-	40-160	-	30
XYLENE (TOTAL)	ND	60	63	105	-	-	40-160	-	30
Styrene	ND	20	20	101	-	-	40-160	-	30
Acetone	ND	50	45	91	-	-	40-160	-	30
Carbon disulfide	ND	20	18	90	-	-	40-160	-	30
2-Butanone	ND	50	44	88	-	-	40-160	-	30
Vinyl acetate	ND	40	32	79	-	-	40-160	-	30
4-Methyl-2-pentanone	ND	50	51	102	-	-	40-160	-	30
2-Hexanone	ND	50	50	100	-	-	40-160	-	30

Matrix Spike Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE
Project Number: 190-15

Lab Number: L0904448
Report Date: 04/17/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01				QC Batch ID: WG358747-3		QC Sample: L0904367-01		Client ID: MS Sample	
Acrolein	ND	40	53	133	-	-	40-160	-	30
Acrylonitrile	ND	40	39	98	-	-	40-160	-	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
4-Bromofluorobenzene	99				80-120
Fluorobenzene	96				80-120
Pentafluorobenzene	98				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01				QC Batch ID: WG358947-3		QC Sample: L0904356-01		Client ID: MS Sample	
1,2-Dibromoethane	ND	0.241	0.180	75	-	-	70-130	-	20
1,2-Dibromo-3-chloropropane	ND	0.241	0.171	71	-	-	70-130	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358747-4 QC Sample: L0904367-01 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: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358747-4 QC Sample: L0904367-01 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: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358747-4 QC Sample: L0904367-01 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
Methyl tert butyl ether	ND	ND	ug/l	NC	30
1,4-Dioxane	ND	ND	ug/l	NC	30
Tert-Butyl Alcohol	ND	ND	ug/l	NC	30
Tertiary-Amyl Methyl Ether	ND	ND	ug/l	NC	30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	91		96		80-120
Fluorobenzene	96		100		80-120
4-Bromofluorobenzene	107		108		80-120

SEMIVOLATILES

Project Name: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09**SAMPLE RESULTS**

Lab ID: L0904448-01
Client ID: 8016
Sample Location: WESTFOR, MA
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 04/15/09 13:44
Analyst: HL

Date Collected: 04/10/09 11:38
Date Received: 04/10/09
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/14/09 15:11

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Acenaphthene	ND		ug/l	0.19	1
2-Chloronaphthalene	ND		ug/l	0.19	1
Fluoranthene	ND		ug/l	0.19	1
Hexachlorobutadiene	ND		ug/l	0.48	1
Naphthalene	ND		ug/l	0.19	1
Benzo(a)anthracene	ND		ug/l	0.19	1
Benzo(a)pyrene	ND		ug/l	0.19	1
Benzo(b)fluoranthene	ND		ug/l	0.19	1
Benzo(k)fluoranthene	ND		ug/l	0.19	1
Chrysene	ND		ug/l	0.19	1
Acenaphthylene	ND		ug/l	0.19	1
Anthracene	ND		ug/l	0.19	1
Benzo(ghi)perylene	ND		ug/l	0.19	1
Fluorene	ND		ug/l	0.19	1
Phenanthrene	ND		ug/l	0.19	1
Dibenzo(a,h)anthracene	ND		ug/l	0.19	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.19	1
Pyrene	ND		ug/l	0.19	1
1-Methylnaphthalene	ND		ug/l	0.19	1
2-Methylnaphthalene	ND		ug/l	0.19	1
Pentachlorophenol	ND		ug/l	0.77	1
Hexachlorobenzene	ND		ug/l	0.77	1
Hexachloroethane	ND		ug/l	0.77	1

Project Name: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09**SAMPLE RESULTS**

Lab ID: L0904448-01

Date Collected: 04/10/09 11:38

Client ID: 8016

Date Received: 04/10/09

Sample Location: WESTFOR, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	46		43-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	60		33-120

Project Name: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09**SAMPLE RESULTS**

Lab ID: L0904448-01
Client ID: 8016
Sample Location: WESTFOR, MA
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 04/15/09 16:14
Analyst: AK

Date Collected: 04/10/09 11:38
Date Received: 04/10/09
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/14/09 15:06

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Benzidine	ND		ug/l	48	1
1,2,4-Trichlorobenzene	ND		ug/l	4.8	1
Bis(2-chloroethyl)ether	ND		ug/l	4.8	1
1,2-Dichlorobenzene	ND		ug/l	4.8	1
1,3-Dichlorobenzene	ND		ug/l	4.8	1
1,4-Dichlorobenzene	ND		ug/l	4.8	1
3,3'-Dichlorobenzidine	ND		ug/l	48	1
2,4-Dinitrotoluene	ND		ug/l	5.8	1
2,6-Dinitrotoluene	ND		ug/l	4.8	1
Azobenzene	ND		ug/l	4.8	1
4-Chlorophenyl phenyl ether	ND		ug/l	4.8	1
4-Bromophenyl phenyl ether	ND		ug/l	4.8	1
Bis(2-chloroisopropyl)ether	ND		ug/l	4.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.8	1
Hexachlorocyclopentadiene	ND		ug/l	29	1
Isophorone	ND		ug/l	4.8	1
Nitrobenzene	ND		ug/l	4.8	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	14	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	4.8	1
Butyl benzyl phthalate	ND		ug/l	4.8	1
Di-n-butylphthalate	ND		ug/l	4.8	1
Di-n-octylphthalate	ND		ug/l	4.8	1
Diethyl phthalate	ND		ug/l	4.8	1
Dimethyl phthalate	ND		ug/l	4.8	1
Aniline	ND		ug/l	19	1
4-Chloroaniline	ND		ug/l	4.8	1
2-Nitroaniline	ND		ug/l	4.8	1
3-Nitroaniline	ND		ug/l	4.8	1
4-Nitroaniline	ND		ug/l	6.7	1
Dibenzofuran	ND		ug/l	4.8	1

Project Name: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09**SAMPLE RESULTS****Lab ID:** L0904448-01**Date Collected:** 04/10/09 11:38**Client ID:** 8016**Date Received:** 04/10/09**Sample Location:** WESTFOR, MA**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
n-Nitrosodimethylamine	ND		ug/l	48	1
2,4,6-Trichlorophenol	ND		ug/l	4.8	1
P-Chloro-M-Cresol	ND		ug/l	4.8	1
2-Chlorophenol	ND		ug/l	5.8	1
2,4-Dichlorophenol	ND		ug/l	9.6	1
2,4-Dimethylphenol	ND		ug/l	9.6	1
2-Nitrophenol	ND		ug/l	19	1
4-Nitrophenol	ND		ug/l	9.6	1
2,4-Dinitrophenol	ND		ug/l	29	1
4,6-Dinitro-o-cresol	ND		ug/l	19	1
Phenol	ND		ug/l	6.7	1
2-Methylphenol	ND		ug/l	5.8	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.8	1
2,4,5-Trichlorophenol	ND		ug/l	4.8	1
Benzoic Acid	ND		ug/l	48	1
Benzyl Alcohol	ND		ug/l	9.6	1
Carbazole	ND		ug/l	4.8	1
Pyridine	ND		ug/l	48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	55		43-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	70		33-120

Project Name: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 04/15/09 13:08
 Analyst: AK

Extraction Method: EPA 3510C
 Extraction Date: 04/14/09 15:06

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG358845-1				
Acenaphthene	ND		ug/l	5.0
Benzidine	ND		ug/l	50
1,2,4-Trichlorobenzene	ND		ug/l	5.0
Hexachlorobenzene	ND		ug/l	5.0
Bis(2-chloroethyl)ether	ND		ug/l	5.0
2-Chloronaphthalene	ND		ug/l	6.0
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
Fluoranthene	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
Hexachlorobutadiene	ND		ug/l	10
Hexachlorocyclopentadiene	ND		ug/l	30
Hexachloroethane	ND		ug/l	5.0
Isophorone	ND		ug/l	5.0
Naphthalene	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

Project Name: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 04/15/09 13:08
 Analyst: AK

Extraction Method: EPA 3510C
 Extraction Date: 04/14/09 15:06

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG358845-1				
Benzo(a)anthracene	ND		ug/l	5.0
Benzo(a)pyrene	ND		ug/l	5.0
Benzo(b)fluoranthene	ND		ug/l	5.0
Benzo(k)fluoranthene	ND		ug/l	5.0
Chrysene	ND		ug/l	5.0
Acenaphthylene	ND		ug/l	5.0
Anthracene	ND		ug/l	5.0
Benzo(ghi)perylene	ND		ug/l	5.0
Fluorene	ND		ug/l	5.0
Phenanthrene	ND		ug/l	5.0
Dibenzo(a,h)anthracene	ND		ug/l	5.0
Indeno(1,2,3-cd)Pyrene	ND		ug/l	7.0
Pyrene	ND		ug/l	5.0
Aniline	ND		ug/l	20
4-Chloroaniline	ND		ug/l	5.0
1-Methylnaphthalene	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
2-Methylnaphthalene	ND		ug/l	5.0
n-Nitrosodimethylamine	ND		ug/l	50
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

Project Name: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 04/15/09 13:08
 Analyst: AK

Extraction Method: EPA 3510C
 Extraction Date: 04/14/09 15:06

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG358845-1				
Pentachlorophenol	ND		ug/l	10
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	32		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	58		43-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	81		33-120

Project Name: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 04/15/09 09:50
 Analyst: HL

Extraction Method: EPA 3510C
 Extraction Date: 04/14/09 15:11

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG358846-1				
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: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 04/15/09 09:50
 Analyst: HL

Extraction Method: EPA 3510C
 Extraction Date: 04/14/09 15:11

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG358846-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	53		43-120
2,4,6-Tribromophenol	77		10-120
4-Terphenyl-d14	64		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG358845-2 WG358845-3					
Acenaphthene	65	78	46-118	18	30
1,2,4-Trichlorobenzene	49	60	39-98	20	30
2-Chloronaphthalene	62	74	40-140	18	30
1,2-Dichlorobenzene	51	58	40-140	13	30
1,4-Dichlorobenzene	48	54	36-97	12	30
2,4-Dinitrotoluene	82	85	24-96	4	30
2,6-Dinitrotoluene	73	74	40-140	1	30
Fluoranthene	90	91	40-140	1	30
4-Chlorophenyl phenyl ether	69	79	40-140	14	30
n-Nitrosodi-n-propylamine	64	80	41-116	22	30
Butyl benzyl phthalate	86	89	40-140	3	30
Anthracene	83	86	40-140	4	30
Pyrene	83	88	26-127	6	30
P-Chloro-M-Cresol	69	78	23-97	12	30
2-Chlorophenol	57	62	27-123	8	30
2-Nitrophenol	62	72	30-130	15	30
4-Nitrophenol	46	46	10-80	0	30
2,4-Dinitrophenol	43	45	30-130	5	30
Pentachlorophenol	61	63	9-103	3	30
Phenol	37	38	12-110	3	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG358845-2 WG358845-3

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		49		21-120
Phenol-d6	35		36		10-120
Nitrobenzene-d5	59		72		23-120
2-Fluorobiphenyl	61		79		43-120
2,4,6-Tribromophenol	82		86		10-120
4-Terphenyl-d14	82		86		33-120

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG358846-2 WG358846-3

Acenaphthene	81	78	40-140	4	40
2-Chloronaphthalene	74	77	40-140	4	40
Fluoranthene	106	107	40-140	1	40
Anthracene	83	86	40-140	4	40
Pyrene	107	108	40-140	1	40
Pentachlorophenol	76	70	30-130	8	40

Lab Control Sample Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG358846-2 WG358846-3

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
2-Fluorophenol	44	44	21-120
Phenol-d6	35	33	10-120
Nitrobenzene-d5	70	66	23-120
2-Fluorobiphenyl	57	58	43-120
2,4,6-Tribromophenol	90	95	10-120
4-Terphenyl-d14	85	83	33-120

PCBS

Project Name: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09**SAMPLE RESULTS**

Lab ID: L0904448-01
Client ID: 8016
Sample Location: WESTFOR, MA
Matrix: Water
Analytical Method: 5,608
Analytical Date: 04/16/09 10:17
Analyst: JB

Date Collected: 04/10/09 11:38
Date Received: 04/10/09
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 04/14/09 00:57
Cleanup Method1: EPA 3665A
Cleanup Date1: 04/15/09

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab					
Aroclor 1016	ND		ug/l	0.258	1
Aroclor 1221	ND		ug/l	0.258	1
Aroclor 1232	ND		ug/l	0.258	1
Aroclor 1242	ND		ug/l	0.258	1
Aroclor 1248	ND		ug/l	0.258	1
Aroclor 1254	ND		ug/l	0.258	1
Aroclor 1260	ND		ug/l	0.258	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	47		30-150	A

Project Name: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Method Blank Analysis Batch Quality Control

Analytical Method: 5,608
 Analytical Date: 04/16/09 09:26
 Analyst: JB

Extraction Method: EPA 3510C
 Extraction Date: 04/14/09 00:57
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 04/15/09

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG358734-1				
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	62		30-150	A
Decachlorobiphenyl	114		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE
Project Number: 190-15

Lab Number: L0904448
Report Date: 04/17/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358734-3 QC Sample: L0904448-01 Client ID: 8016									
Aroclor 1016	ND	2.02	1.86	92	-	-	40-126	-	30
Aroclor 1260	ND	2.02	1.66	82	-	-	40-127	-	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69				30-150	A
Decachlorobiphenyl	32				30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG358734-2					
Aroclor 1016	111	-	40-126	-	
Aroclor 1260	118	-	40-127	-	

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73				30-150	A
Decachlorobiphenyl	117				30-150	A

Lab Duplicate Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358734-4 QC Sample: L0904448-01 Client ID: 8016					
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	80		77		30-150	A
Decachlorobiphenyl	47		32		30-150	A

METALS

Project Name: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09**SAMPLE RESULTS**

Lab ID: L0904448-01

Date Collected: 04/10/09 11:38

Client ID: 8016

Date Received: 04/10/09

Sample Location: WESTFOR, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Westborough Lab

Iron, Total	0.13		mg/l	0.05	1	04/14/09 11:00	04/15/09 10:59	EPA 3005A	19,200.7	TD
Mercury, Total	ND		mg/l	0.0002	1	04/13/09 16:45	04/14/09 12:48	EPA 245.2	3,245.1	EZ

Total Metals - Mansfield Lab

Antimony, Total	ND		mg/l	0.001	1	04/14/09 11:30	04/17/09 12:53	EPA 3020A	1,6020A	LP
Arsenic, Total	0.003		mg/l	0.001	1	04/14/09 11:30	04/17/09 12:53	EPA 3020A	1,6020A	LP
Cadmium, Total	0.0006		mg/l	0.0002	1	04/14/09 11:30	04/17/09 12:53	EPA 3020A	1,6020A	LP
Chromium, Total	0.001		mg/l	0.001	1	04/14/09 11:30	04/17/09 12:53	EPA 3020A	1,6020A	LP
Copper, Total	0.009		mg/l	0.001	1	04/14/09 11:30	04/17/09 12:53	EPA 3020A	1,6020A	LP
Lead, Total	ND		mg/l	0.001	1	04/14/09 11:30	04/17/09 12:53	EPA 3020A	1,6020A	LP
Nickel, Total	0.002		mg/l	0.001	1	04/14/09 11:30	04/17/09 12:53	EPA 3020A	1,6020A	LP
Selenium, Total	0.005		mg/l	0.001	1	04/14/09 11:30	04/17/09 12:53	EPA 3020A	1,6020A	LP
Silver, Total	ND		mg/l	0.0002	1	04/14/09 11:30	04/17/09 12:53	EPA 3020A	1,6020A	LP
Zinc, Total	0.012		mg/l	0.010	1	04/14/09 11:30	04/17/09 12:53	EPA 3020A	1,6020A	LP



Project Name: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG358715-1								
Mercury, Total	ND	mg/l	0.0002	1	04/13/09 16:45	04/14/09 12:44	3,245.1	EZ

Prep Information

Digestion Method: EPA 245.2

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG358809-1								
Iron, Total	ND	mg/l	0.05	1	04/14/09 11:00	04/15/09 10:32	19,200.7	TD

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG359281-1								
Antimony, Total	ND	mg/l	0.001	1	04/14/09 11:30	04/17/09 12:51	1,6020A	LP
Arsenic, Total	ND	mg/l	0.001	1	04/14/09 11:30	04/17/09 12:51	1,6020A	LP
Cadmium, Total	ND	mg/l	0.0002	1	04/14/09 11:30	04/17/09 12:51	1,6020A	LP
Chromium, Total	ND	mg/l	0.001	1	04/14/09 11:30	04/17/09 12:51	1,6020A	LP
Copper, Total	ND	mg/l	0.001	1	04/14/09 11:30	04/17/09 12:51	1,6020A	LP
Lead, Total	ND	mg/l	0.001	1	04/14/09 11:30	04/17/09 12:51	1,6020A	LP
Nickel, Total	ND	mg/l	0.001	1	04/14/09 11:30	04/17/09 12:51	1,6020A	LP
Selenium, Total	ND	mg/l	0.001	1	04/14/09 11:30	04/17/09 12:51	1,6020A	LP
Silver, Total	ND	mg/l	0.0002	1	04/14/09 11:30	04/17/09 12:51	1,6020A	LP
Zinc, Total	ND	mg/l	0.010	1	04/14/09 11:30	04/17/09 12:51	1,6020A	LP

Prep Information

Digestion Method: EPA 3020A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG358715-2					
Mercury, Total	100	-		-	
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG358809-2					
Iron, Total	100	-	85-115	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG359281-2					
Antimony, Total	100	-	80-120	-	20
Arsenic, Total	100	-	80-120	-	20
Cadmium, Total	115	-	80-120	-	20
Chromium, Total	108	-	80-120	-	20
Copper, Total	107	-	80-120	-	20
Lead, Total	102	-	80-120	-	20
Nickel, Total	107	-	80-120	-	20
Selenium, Total	99	-	80-120	-	20
Silver, Total	101	-	80-120	-	20
Zinc, Total	106	-	80-120	-	20

Matrix Spike Analysis **Batch Quality Control**

Project Name: WESTFORD HIGHWAY GARAGE
Project Number: 190-15

Lab Number: L0904448
Report Date: 04/17/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358715-4 QC Sample: L0904448-01 Client ID: 8016									
Mercury, Total	ND	0.001	0.0011	112	-	-	-	-	-
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358809-4 QC Sample: L0904430-01 Client ID: MS Sample									
Iron, Total	ND	1	1.0	100	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG359281-4 QC Sample: L0904448-01 Client ID: 8016									
Antimony, Total	0.001	0.5	0.524	105	-	-	75-125	-	20
Arsenic, Total	0.003	0.12	0.132	108	-	-	75-125	-	20
Cadmium, Total	0.001	0.051	0.058	113	-	-	75-125	-	20
Chromium, Total	0.001	0.2	0.224	111	-	-	75-125	-	20
Copper, Total	0.009	0.25	0.272	105	-	-	75-125	-	20
Lead, Total	ND	0.51	0.510	100	-	-	75-125	-	20
Nickel, Total	0.002	0.5	0.530	106	-	-	75-125	-	20
Selenium, Total	0.005	0.12	0.131	105	-	-	75-125	-	20
Silver, Total	ND	0.05	0.048	96	-	-	75-125	-	20
Zinc, Total	0.012	0.5	0.534	104	-	-	75-125	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358715-3 QC Sample: L0904448-01 Client ID: 8016					
Mercury, Total	ND	ND	mg/l	NC	
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358809-3 QC Sample: L0904430-01 Client ID: DUP Sample					
Iron, Total	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG359281-3 QC Sample: L0904448-01 Client ID: 8016					
Antimony, Total	0.001	ND	mg/l	NC	20
Arsenic, Total	0.003	0.003	mg/l	4	20
Cadmium, Total	0.001	0.001	mg/l	5	20
Chromium, Total	0.001	0.001	mg/l	0	20
Copper, Total	0.009	0.010	mg/l	10	20
Lead, Total	ND	ND	mg/l	NC	20
Nickel, Total	0.002	0.002	mg/l	1	20
Selenium, Total	0.005	0.006	mg/l	19	20
Silver, Total	ND	0.000	mg/l	NC	20
Zinc, Total	0.012	0.012	mg/l	2	20

INORGANICS & MISCELLANEOUS

Project Name: WESTFORD HIGHWAY GARAGE
Project Number: 190-15

Lab Number: L0904448
Report Date: 04/17/09

SAMPLE RESULTS

Lab ID: L0904448-01
Client ID: 8016
Sample Location: WESTFOR, MA
Matrix: Water

Date Collected: 04/10/09 11:38
Date Received: 04/10/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Perchlorate by IC-MS-MS - Westborough Lab									
Perchlorate	32.4		ug/l	0.500	10	-	04/15/09 15:48	71,332.0	SS
General Chemistry - Westborough Lab									
Solids, Total Suspended	ND		mg/l	5.0	1	-	04/14/09 20:25	30,2540D	DW
Cyanide, Total	0.010		mg/l	0.005	1	04/12/09 09:45	04/14/09 13:28	30,4500CN-CE	AT
Chlorine, Total Residual	ND		mg/l	0.02	1	-	04/10/09 20:00	30,4500CL-D	JO
pH (H)	6.3		SU	-	1	-	04/10/09 21:34	30,4500H+-B	JO
TPH	ND		mg/l	4.00	1	04/16/09 19:45	04/17/09 02:00	74,1664A	JO
Phenolics, Total	ND		mg/l	0.03	1	-	04/16/09 14:12	4,420.1	TH
Chromium, Hexavalent	ND		mg/l	0.010	1	04/11/09 01:00	04/11/09 01:00	30,3500CR-D	JT



Project Name: WESTFORD HIGHWAY GARAGE**Lab Number:** L0904448**Project Number:** 190-15**Report Date:** 04/17/09

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG358564-2									
Chlorine, Total Residual	ND		mg/l	0.02	1	-	04/10/09 20:00	30,4500CL-D	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG358565-2									
Chromium, Hexavalent	ND		mg/l	0.010	1	04/11/09 01:00	04/11/09 01:00	30,3500CR-D	JT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG358600-1									
Cyanide, Total	ND		mg/l	0.005	1	04/12/09 09:45	04/14/09 13:17	30,4500CN-CE	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG358623-1									
Solids, Total Suspended	ND		mg/l	5.0	1	-	04/14/09 20:25	30,2540D	DW
Perchlorate by IC-MS-MS - Westborough Lab for sample(s): 01 Batch: WG358925-1									
Perchlorate	ND		ug/l	0.050	1	-	04/15/09 12:10	71,332.0	SS
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG359112-1									
Phenolics, Total	ND		mg/l	0.03	1	-	04/16/09 14:08	4,420.1	TH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG359193-2									
TPH	ND		mg/l	4.00	1	04/16/09 19:45	04/17/09 02:00	74,1664A	JO

Lab Control Sample Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG358561-1					
pH	100	-	99-101	-	5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG358564-1					
Chlorine, Total Residual	97	-		-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG358565-1					
Chromium, Hexavalent	100	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG358600-2					
Cyanide, Total	104	-	80-120	-	
Perchlorate by IC-MS-MS - Westborough Lab Associated sample(s): 01 Batch: WG358925-2					
Perchlorate	90	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG359112-2					
Phenolics, Total	92	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG359193-1					
TPH	80	-	64-132	-	34

Matrix Spike Analysis

Batch Quality Control

Project Name: WESTFORD HIGHWAY GARAGE
Project Number: 190-15

Lab Number: L0904448
Report Date: 04/17/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358565-3 QC Sample: L0904448-01 Client ID: 8016									
Chromium, Hexavalent	ND	0.1	0.098	98	-	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358600-3 QC Sample: L0904448-01 Client ID: 8016									
Cyanide, Total	0.010	0.2	0.202	96	-	-	80-120	-	30
Perchlorate by IC-MS-MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358925-3 QC Sample: L0904347-01 Client ID: MS Sample									
Perchlorate	0.111	1	1.04	93	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG359112-3 QC Sample: L0904448-01 Client ID: 8016									
Phenolics, Total	ND	0.8	0.81	101	-	-	77-124	-	12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG359193-3 QC Sample: L0904448-01 Client ID: 8016									
TPH	ND	20.6	ND	78	-	-	64-132	-	34

Lab Duplicate Analysis **Batch Quality Control**

Project Name: WESTFORD HIGHWAY GARAGE

Project Number: 190-15

Lab Number: L0904448

Report Date: 04/17/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358561-2 QC Sample: L0904430-01 Client ID: DUP Sample					
pH (H)	7.0	7.0	SU	0	5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358564-3 QC Sample: L0904448-01 Client ID: 8016					
Chlorine, Total Residual	ND	ND	mg/l	NC	
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358565-4 QC Sample: L0904448-01 Client ID: 8016					
Chromium, Hexavalent	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358600-4 QC Sample: L0904448-01 Client ID: 8016					
Cyanide, Total	0.010	0.010	mg/l	0	30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358623-2 QC Sample: L0904435-01 Client ID: DUP Sample					
Solids, Total Suspended	70	52	mg/l	30	32
Perchlorate by IC-MS-MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG358925-4 QC Sample: L0904347-01 Client ID: DUP Sample					
Perchlorate	0.111	0.111	ug/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG359112-4 QC Sample: L0904430-01 Client ID: DUP Sample					
Phenolics, Total	ND	ND	mg/l	NC	12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG359193-4 QC Sample: L0904663-02 Client ID: DUP Sample					
TPH	9.60	9.78	mg/l	2	34

Project Name: WESTFORD HIGHWAY GARAGE

Lab Number: L0904448

Project Number: 190-15

Report Date: 04/17/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0904448-01A	Vial Na2S2O3 preserved	A	N/A	13	Y	Absent	504(14)
L0904448-01B	Vial Na2S2O3 preserved	A	N/A	13	Y	Absent	504(14)
L0904448-01C	Vial Na2S2O3 preserved	A	N/A	13	Y	Absent	624(7)
L0904448-01D	Vial Na2S2O3 preserved	A	N/A	13	Y	Absent	624(7)
L0904448-01E	Amber 1000ml unpreserved	A	7	13	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0904448-01F	Amber 1000ml unpreserved	A	7	13	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0904448-01G	Amber 1000ml unpreserved	A	7	13	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0904448-01H	Amber 1000ml unpreserved	A	7	13	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0904448-01I	Plastic 250ml HNO3 preserved	A	<2	13	Y	Absent	A2-PB-6020T(180),A2-NI-6020T(180),A2-SB-6020T(180),A2-ZN-6020T(180),A2-CR-6020T(180),FE-UI(180),A2-AS-6020T(180),HG-U(28),A2-CD-6020T(180),A2-SE-6020T(180),A2-AG-6020T(180),A2-CU-6020T(180)
L0904448-01J	Plastic 1000ml unpreserved	A	7	13	Y	Absent	TSS-2540(7)
L0904448-01K	Plastic 500ml unpreserved	A	7	13	Y	Absent	PH-4500(1),HEXCR-3500(1),TRC-4500(1)
L0904448-01L	Amber 1000ml H2SO4 preserved	A	<2	13	Y	Absent	TPHENOL-420(28)
L0904448-01M	Amber 1000ml HCl preserved	A	<2	13	Y	Absent	TPH-1664(28)
L0904448-01N	Amber 1000ml HCl preserved	A	<2	13	Y	Absent	TPH-1664(28)
L0904448-01O	Plastic 250ml NaOH preserved	A	>12	13	Y	Absent	TCN-4500(14)
L0904448-01P	Amber 1000ml Na2S2O3	A	7	13	Y	Absent	PCB-608(7)
L0904448-01Q	Amber 1000ml Na2S2O3	A	7	13	Y	Absent	PCB-608(7)
L0904448-01R	Plastic 120ml unpreserved	A	7	13	Y	Absent	PERC-332(28)
L0904448-01S	Bacteria Cup unpreserved	A	7	13	Y	Absent	PERC-332(28)

Container Comments

L0904448-01L

*Hold days indicated by values in parentheses



Project Name: WESTFORD HIGHWAY GARAGE
Project Number: 190-15

Lab Number: L0904448
Report Date: 04/17/09

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.
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.
ND	- Not detected at the reported detection limit for the sample.
NI	- Not Ignitable.
RDL	- Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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

*	- The batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)
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.
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.
N	- The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	- The RPD between the results for the two columns exceeds the method-specified criteria.
R	- Analytical results are from sample re-analysis.
RE	- Analytical results are from sample re-extraction.
J	- Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Report Format: Data Usability Report



Project Name: WESTFORD HIGHWAY GARAGE
Project Number: 190-15

Lab Number: L0904448
Report Date: 04/17/09

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.
- 71 Determination of Perchlorate in Drinking Water by Ion Chromatography with Suppressed Conductivity and Electrospray Ionization Mass Spectrometry. EPA Method 332.0, EPA/600/R-05/049. Revision 1.0, March 2005.
- 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 Woods Hole Labs 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 Woods Hole Labs.

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 February 18, 2009 - 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.

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: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium 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.)

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, 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), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), 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: MA0086.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 150.1, 180.1, 300.0, 353.2, SM2130B, 2320B, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)

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, 4500Cl-D, 4500Cl-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.)

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, Nitrite-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.

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

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

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,Tl,Ti,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-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, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

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

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water) 600/4-81-045-PCB-Oil

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

Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

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

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 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, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, 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.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO₃-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500CI-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, EPA 350.2/1, 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.)

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, 3540C, 3545, 3550B, 3580A, 5035L, 5035H.)

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

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO₃-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500CI-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, 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-NO₃F, EPA 354.1, SM4500-NO₂-B, EPA 365.2, SM4500P-E, EPA 160.3, SM2540B, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

Analytical Services Protocol: CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

Rhode Island Department of Health Certificate/Lab ID: LAO00065.

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

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

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-03671. Registered Laboratory.

Certificate/Approval Program Summary

Last revised February 18, 2009 – Mansfield 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-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Chloride, Fluoride, Sulfate, Sulfite, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), Total Cyanide, Bromide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Ignitability, Corrosivity, TCLP 1311, Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814.

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH₃-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 365.2, EPA 150.1, 160.1, SM2540C, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 624, 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 9050, 7470, 7471, 9045, EPA 7.3.3.2, EPA 7.3.4.2, 9014, 9065. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206.

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015.

Non-Potable Water (Inorganic Parameters: SW-846 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

New York Department of Health Certificate/Lab ID: 11627.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299.

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. Registered Laboratory.

U.S. Army Corps of Engineers



Bottle Order Request

APR-13-09 16:58:38

Bottle Order # 48758

Page 1 of 2

Acctnum : CEI-GB
 Contact Name : Katie Snyder
 Projectnum :

Company : Comprehensive Environmental, Inc.

Projectname : Westford Highway Garage NPDES RGP

Request date : 04/09/09
 Order taken by : Mary Davis
 Frequency :

Status : NEED

Sample delivery date :

Linked Call :

Completed by :
 Date Completed :

Delivery method : Client pickup

Samples	Matrix	Analytes
1	EFFLUENT	pH, HexCr, EDB/DBCP-504, 624, Total Metals
1	EFFLUENT	8270 w/PAH Low, PCBs, TCN, TPH-1664, Total Phenols, TRC, TSS

Bottles	Container type	Sample ID	Analyte label
2	Vial Na2S2O3 preserved		624
2	Amber 1000ml Na2S2O3		PCBs
1	Plastic 250ml HNO3 preserved		Total Metals (RGP)
1	Plastic 1000ml unpreserved		TSS
1	Plastic 1000ml unpreserved		pH, HexCr, TRC
1	Plastic 250ml unpreserved		Pre-Filtered Sample
1	Disposable Sterile Syringe Filter		
1	20 mL Disposable Sterile Syringe		
2	Amber 1000ml unpreserved		PAH Sim
2	Amber 1000ml unpreserved		SVOCs-8270
2	Amber 1000ml HCl preserved		TPH-1664
1	Plastic 250ml NaOH preserved		TCN
1	Amber 1000ml H2SO4 preserved		Total Phenol
1	Bacteria Cup unpreserved		Perchlorate 332
2	Vial Na2S2O3 preserved		EDB by 504

**PLEASE PUT SAMPLES ON ICE
 EXCEPT CANISTER OR BAG SAMPLES**