

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 : Stop & Shop Fuel Facility		Facility/site address: Store # 5	
Location of facility/site : longitude: -71.918894 latitude: 42.523341	Facility SIC code(s): 5500	Street: 19 Howley Street	
b) Name of facility/site owner : The Stop & Shop Supermarket Companies		Town: Peabody	
Email address of owner: Marc.Marrocco@stopandshop.com	State: MA	Zip: 01960	County: USA
Telephone no. of facility/site owner : (617) 770-6219	Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private ☒ 4. other, if so, describe:		
Fax no. of facility/site owner : (617) 770-8945			
Address of owner (if different from site):			
Street: 1385 Hancock Street			
Town: Quincy	State: MA	Zip: 02169	County: USA
c) Legal name of operator : Marc Marracco		Operator telephone no: (617) 770-8690 Operator fax no.: (617) 770-8812 Operator email: Marc.Marrocco@stopandshop.com	
Operator contact name and title: Marc Marrocco, Development Manager			
Address of operator (if different from owner):		Street:	
Town:	State:	Zip:	County:
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 3-3319 2. permit or license # assigned: RTN 3-3319 3. state agency contact information: name, location, and telephone number: MassDEP, NERO (978) 694-3200	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: Discharge of groundwater encountered during construction/excavation activities.			
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>0.58 cfs</u> Average flow <u>0.22 cfs</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. </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>0.58 cfs</u> Average flow <u>0.22 cfs</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.
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>0.58 cfs</u> Average flow <u>0.22 cfs</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.		
3) Latitude and longitude of each discharge within 100 feet: pt.1:long. <u>-70.918863</u> lat. <u>42.523549</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): None	5) Is the discharge intermittent ☒ or seasonal _____? Is discharge ongoing Yes _____ No ☒?		
c) Expected dates of discharge (mm/dd/yy): start <u>05/12/10</u> end <u>10/01/10</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	2540D	5 mg/L	39000	53.14		
2. Total Residual Chlorine		✓	1	Grab	4500 CL-D	5 mg/L	20			
3. Total Petroleum Hydrocarbons		✓	1	Grab	1664A	< 5 mg/L	4000			
4. Cyanide	✓		1	Grab						
5. Benzene		✓	1	Grab	624	2 ug/L	10	0.013		
6. Toluene	✓		1	Grab						
7. Ethylbenzene	✓		1	Grab						
8. (m,p,o) Xylenes		✓	1	Grab	624	10 ug/L				
9. Total BTEX ⁴		✓	1	Grab	624	2 ug/L				

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

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)
10. Ethylene Dibromide ⁵ (1,2- Dibromo-methane)	✓		1	Grab						
11. Methyl-tert-Butyl Ether (MtBE)	✓		1	Grab						
12. tert-Butyl Alcohol (TBA)	✓		1	Grab						
13. tert-Amyl Methyl Ether (TAME)	✓		1	Grab						
14. Naphthalene		✓	1	Grab	8270C	0.2 ug/L				
15. Carbon Tetra-chloride	✓		1	Grab						
16. 1,4 Dichlorobenzene	✓		1	Grab						
17. 1,2 Dichlorobenzene	✓		1	Grab						
18. 1,3 Dichlorobenzene	✓		1	Grab						
19. 1,1 Dichloroethane	✓		1	Grab						
20. 1,2 Dichloroethane	✓		1	Grab						
21. 1,1 Dichloroethylene	✓		1	Grab						
22. cis-1,2 Dichloro-ethylene	✓		1	Grab						
23. Dichloromethane (Methylene Chloride)	✓		1	Grab						
24. Tetrachloroethylene	✓		1	Grab						

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

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						
g. Indeno(1,2,3-cd) Pyrene	✓		1	Grab						
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✓		1	Grab						
h. Acenaphthene	✓		1	Grab						
i. Acenaphthylene	✓		1	Grab						
j. Anthracene	✓		1	Grab						
k. Benzo(ghi) Perylene	✓		1	Grab						
l. Fluoranthene	✓		1	Grab						
m. Fluorene	✓		1	Grab						
n. Naphthalene-		✓	1	Grab	8270C	0.2 ug/L				
o. Phenanthrene	✓		1	Grab						
p. Pyrene	✓		1	Grab						
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	Grab						
38. Antimony	✓		1	Grab						
39. Arsenic		✓	1	Grab	6020	0.5 ug/L	23.3 ug/L	0.032		
40. Cadmium		✓	1	Grab	6020	0.5 ug/L	0.8 ug/L	0.001		
41. Chromium III		✓	1	Grab	6020	0.5 ug/L				
42. Chromium VI	✓		1	Grab						

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							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		✓	1	Grab	6020	0.5 ug/L	84.1	0.11		
44. Lead		✓	1	Grab	6020	0.5 ug/L	116.6	0.16		
45. Mercury	✓		1	Grab						
46. Nickel		✓	1	Grab	6020	0.5 ug/L	58.2	0.08		
47. Selenium	✓		1	Grab						
48. Silver	✓		1	Grab						
49. Zinc		✓	1	Grab	6020	0.5 ug/L	180.7	0.25		
50. Iron		✓	1	Grab	6020	0.5 ug/L	81,000	110		
Other (describe):										

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 <u> </u>	If yes, which metals? Arsenic, Cadmium, Chromium III, Copper, Iron, Lead, Nickel, Zinc.
<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>Arsenic, Cadmium, Chromium III, Copper, Iron, Lead, Nickel, and Zinc</u> DF: <u>1</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 <u>✓</u> N <u> </u> If "Yes," list which metals: Arsenic, Cadmium, Chromium III, Copper, Iron, Lead, Nickel, Zinc.

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: Treat groundwater encountered during construction.						
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): TBD by operator/treatment contractor & RGP limits			
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>100</u> Maximum flow rate of treatment system <u>250</u> Design flow rate of treatment system <u>300</u>						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets):						

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

a) Identify the discharge pathway:	Direct <u> </u>	Within facility <u> </u>	Storm drain ☒	River/brook <u> </u>	Wetlands <u> </u>	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Treated water will be discharged into the existing stormwater drainage systems which outlets to the Proctor Brook, which becomes the North River.						
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.						
d) Provide the state water quality classification of the receiving water <u>Class B</u> ,						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water <u>0</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 <u> </u> If yes, for which pollutant(s)? Nitrogen, Phosphorus, Oil slicks Is there a TMDL? Yes <u> </u> 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 <u>✓</u> Has any consultation with the federal services been completed? Yes ___ No <u>✓</u> or is consultation underway? Yes ___ No <u>✓</u> 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 <u>✓</u> Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes ___ No <u>✓</u>

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: Stop & Shop Fuel Facility

Operator signature: Mark M. M...

Title: FF Development Manager

Date: 4.22.10



Source:MassGIS 2008

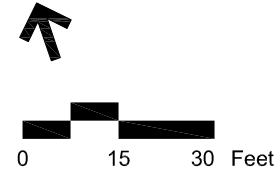
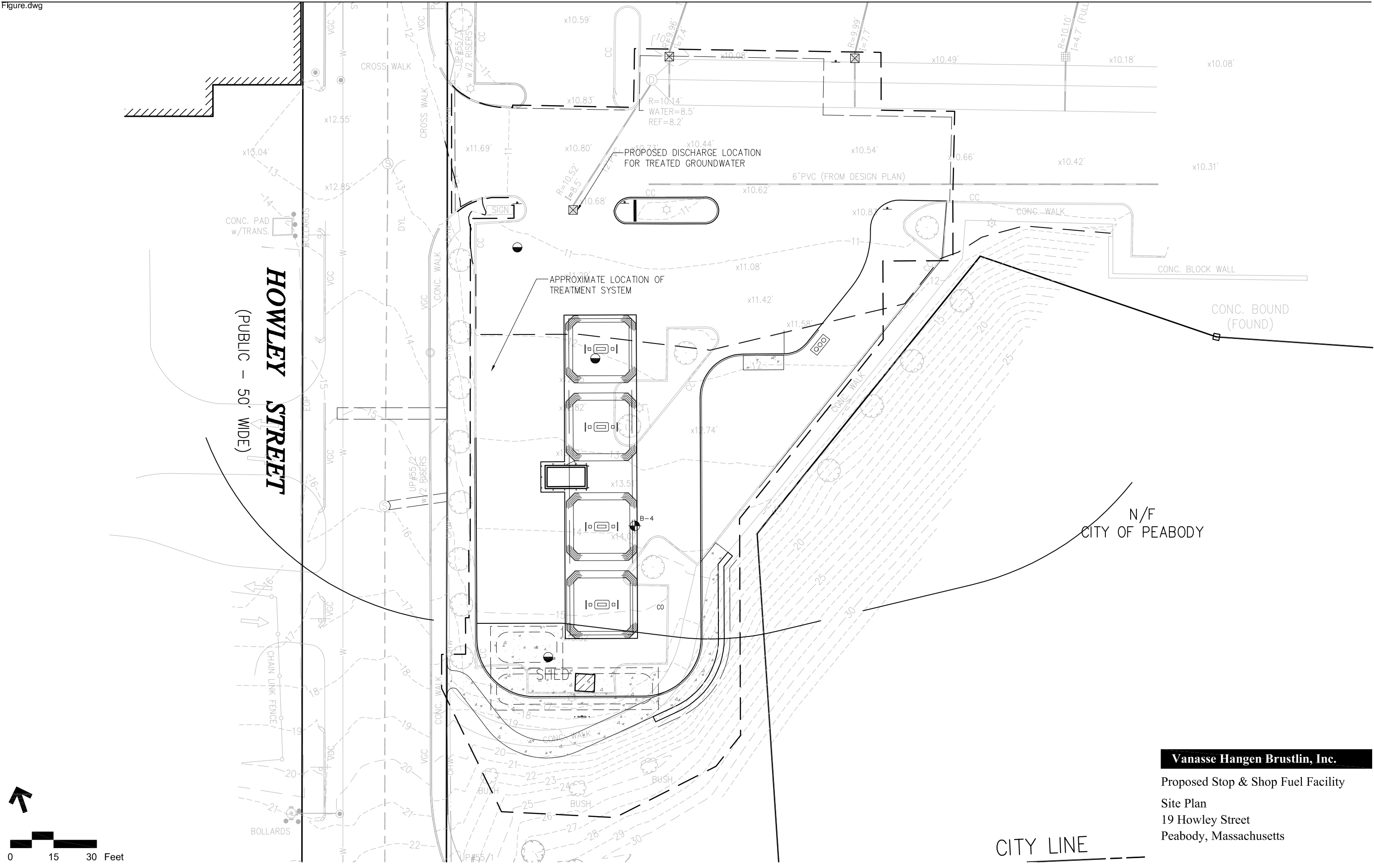
Vanasse Hangen Brustlin, Inc.



0 500 1000 Feet

Aerial Map
Proposed Stop and Shop Fuel Facility
19 Howley Street
Peabody, Massachusetts

Figure 2
May 2009



Vanasse Hangen Brustlin, Inc.

Proposed Stop & Shop Fuel Facility
Site Plan
19 Howley Street
Peabody, Massachusetts

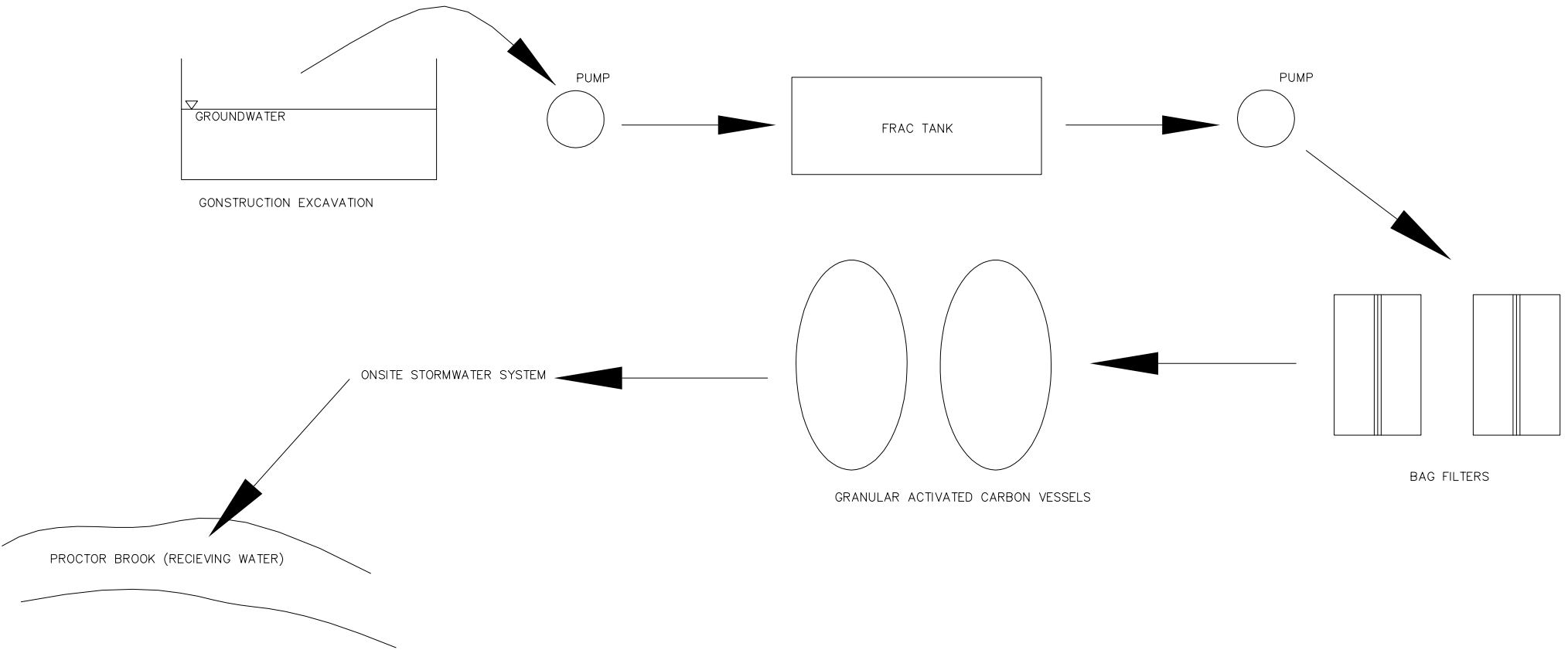
CITY LINE

RGP Effluent Analytical Results
19 Howley Street
Peabody, Massachusetts

LOCATION SAMPLING DATE LAB SAMPLE ID	CasNum	EPA RGP Effluent Limits	Units	MW-3 3/29/2010 L1004444-01	
Total Metals					
Antimony, Total	7440-36-0	5.6	ug/l	0.7	
Arsenic, Total	7440-38-2	10	ug/l	23.3	
Cadmium, Total	7440-43-9	0.2	ug/l	0.8	
Chromium, Total	7440-47-3	48.8	ug/l	76.1	
Copper, Total	7440-50-8	5.2	ug/l	84.1	
Iron, Total	7439-89-6	1000	ug/l	81000	
Lead, Total	7439-92-1	1.3	ug/l	116.6	
Mercury, Total	7439-97-6	0.9	ug/l	0.2	U
Nickel, Total	7440-02-0	29	ug/l	58.2	
Selenium, Total	7782-49-2	5	ug/l	4	
Silver, Total	7440-22-4	1.2	ug/l	0.4	U
Zinc, Total	7440-66-6	66.6	ug/l	180.7	
General Chemistry					
Solids, Total Suspended	NONE	30000	ug/l	39000	
Cyanide, Total	57-12-5	5.2	ug/l	5	U
Chlorine, Total Residual	NONE	11	ug/l	20	U
pH	12408-02-5		SU	6.9	
TPH	NONE	5000	ug/l	4000	U
Phenolics, Total	NONE	300	ug/l	30	U
Chromium, Hexavalent	18540-29-9	11.4	ug/l	10	U
Pesticides by GC					
1,2-Dibromoethane	106-93-4	0.05	ug/l	0.01	U
Polychlorinated Biphenyls by GC					
Aroclor 1016	12674-11-2	0.000064	ug/l	0.25	U
Aroclor 1221	11104-28-2	0.000064	ug/l	0.25	U
Aroclor 1232	11141-16-5	0.000064	ug/l	0.25	U
Aroclor 1242	53469-21-9	0.000064	ug/l	0.25	U
Aroclor 1248	12672-29-6	0.000064	ug/l	0.25	U
Aroclor 1254	11097-69-1	0.000064	ug/l	0.25	U
Aroclor 1260	11096-82-5	0.000064	ug/l	0.25	U
Semivolatile Organics by GC/MS					
Benzidine	92-87-5		ug/l	50	U
1,2,4-Trichlorobenzene	120-82-1		ug/l	5	U
Bis(2-chloroethyl)ether	111-44-4		ug/l	5	U
1,2-Dichlorobenzene	95-50-1		ug/l	5	U
1,3-Dichlorobenzene	541-73-1		ug/l	5	U
1,4-Dichlorobenzene	106-46-7		ug/l	5	U
3,3'-Dichlorobenzidine	91-94-1		ug/l	50	U
2,4-Dinitrotoluene	121-14-2		ug/l	6	U
2,6-Dinitrotoluene	606-20-2		ug/l	5	U
Azobenzene	103-33-3		ug/l	5	U
4-Chlorophenyl phenyl ether	7005-72-3		ug/l	5	U
4-Bromophenyl phenyl ether	101-55-3		ug/l	5	U
Bis(2-chloroisopropyl)ether	108-60-1		ug/l	5	U
Bis(2-chloroethoxy)methane	111-91-1		ug/l	5	U
Hexachlorocyclopentadiene	77-47-4		ug/l	30	U
Isophorone	78-59-1		ug/l	5	U
Nitrobenzene	98-95-3		ug/l	5	U
NitrosoDiPhenylAmine(NDPA)/Df	86-30-6		ug/l	15	U
Bis(2-Ethylhexyl)phthalate	117-81-7		ug/l	5	U
Butyl benzyl phthalate	85-68-7		ug/l	5	U
Di-n-butylphthalate	84-74-2		ug/l	5	U
Di-n-octylphthalate	117-84-0		ug/l	5	U
Diethyl phthalate	84-66-2		ug/l	5	U
Dimethyl phthalate	131-11-3		ug/l	5	U
Aniline	62-53-3		ug/l	20	U
4-Chloroaniline	106-47-8		ug/l	5	U
2-Nitroaniline	88-74-4		ug/l	5	U
3-Nitroaniline	99-09-2		ug/l	5	U
4-Nitroaniline	100-01-6		ug/l	7	U
Dibenzofuran	132-64-9		ug/l	5	U
n-Nitrosodimethylamine	62-75-9		ug/l	50	U
2,4,6-Trichlorophenol	88-06-2		ug/l	5	U
P-Chloro-M-Cresol	59-50-7		ug/l	5	U
2-Chlorophenol	95-57-8		ug/l	6	U
2,4-Dichlorophenol	120-83-2		ug/l	10	U
2,4-Dimethylphenol	105-67-9		ug/l	10	U
2-Nitrophenol	88-75-5		ug/l	20	U
4-Nitrophenol	100-02-7		ug/l	10	U
2,4-Dinitrophenol	51-28-5		ug/l	30	U
4,6-Dinitro-o-cresol	534-52-1		ug/l	20	U
Phenol	108-95-2		ug/l	7	U
2-Methylphenol	95-48-7		ug/l	6	U
3-Methylphenol/4-Methylphenol	108-39-4		ug/l	6	U
2,4,5-Trichlorophenol	95-95-4		ug/l	5	U
Benzoic Acid	65-85-0		ug/l	50	U
Benzyl Alcohol	100-51-6		ug/l	10	U
Carbazole	86-74-8		ug/l	5	U
Pyridine	110-86-1		ug/l	50	U

RGP Effluent Analytical Results
19 Howley Street
Peabody, Massachusetts

LOCATION	CasNum	EPA RGP Effluent Limits	Units	MW-3 3/29/2010 L1004444-01	
SAMPLING DATE					
LAB SAMPLE ID					
Semivolatile Organics by GC/MS-SIM					
Acenaphthene	83-32-9		ug/l	0.2	U
2-Chloronaphthalene	91-58-7		ug/l	0.2	U
Fluoranthene	206-44-0		ug/l	0.2	U
Hexachlorobutadiene	87-68-3		ug/l	0.5	U
Naphthalene	91-20-3	20	ug/l	0.35	
Benzo(a)anthracene	56-55-3	0.0038	ug/l	0.2	U
Benzo(a)pyrene	50-32-8	0.0038	ug/l	0.2	U
Benzo(b)fluoranthene	205-99-2	0.0038	ug/l	0.2	U
Benzo(k)fluoranthene	207-08-9	0.0038	ug/l	0.2	U
Chrysene	218-01-9	0.0038	ug/l	0.2	U
Acenaphthylene	208-96-8		ug/l	0.2	U
Anthracene	120-12-7		ug/l	0.2	U
Benzo(ghi)perylene	191-24-2		ug/l	0.2	U
Fluorene	86-73-7		ug/l	0.2	U
Phenanthrene	85-01-8		ug/l	0.2	U
Dibenzo(a,h)anthracene	53-70-3	0.0038	ug/l	0.2	U
Indeno(1,2,3-cd)Pyrene	193-39-5	0.0038	ug/l	0.2	U
Pyrene	129-00-0		ug/l	0.2	U
1-Methylnaphthalene	90-12-0		ug/l	2.8	
2-Methylnaphthalene	91-57-6		ug/l	0.2	U
Pentachlorophenol	87-86-5	1	ug/l	0.8	U
Hexachlorobenzene	118-74-1		ug/l	0.8	U
Hexachloroethane	67-72-1		ug/l	0.8	U
Volatile Organics by GC/MS					
Methylene chloride	75-09-2	4.6	ug/l	5	U
1,1-Dichloroethane	75-34-3	70	ug/l	1.5	U
Chloroform	67-66-3		ug/l	1.5	U
Carbon tetrachloride	56-23-5	4.4	ug/l	1	U
1,2-Dichloropropane	78-87-5		ug/l	3.5	U
Dibromochloromethane	124-48-1		ug/l	1	U
1,1,2-Trichloroethane	79-00-5	200	ug/l	1.5	U
2-Chloroethylvinyl ether	110-75-8		ug/l	10	U
Tetrachloroethene	127-18-4	5	ug/l	1.5	U
Chlorobenzene	108-90-7		ug/l	3.5	U
Trichlorofluoromethane	75-69-4		ug/l	5	U
1,2-Dichloroethane	107-06-2	5	ug/l	1.5	U
1,1,1-Trichloroethane	71-55-6	200	ug/l	2	U
Bromodichloromethane	75-27-4		ug/l	1	U
trans-1,3-Dichloropropene	10061-02-6		ug/l	1.5	U
cis-1,3-Dichloropropene	10061-01-5		ug/l	1.5	U
Bromoform	75-25-2		ug/l	1	U
1,1,2,2-Tetrachloroethane	79-34-5		ug/l	1	U
Benzene	71-43-2	5	ug/l	10	
Toluene	108-88-3		ug/l	1	U
Ethylbenzene	100-41-4		ug/l	1	U
Chloromethane	74-87-3		ug/l	10	U
Bromomethane	74-83-9		ug/l	5	U
Vinyl chloride	75-01-4	2	ug/l	2	U
Chloroethane	75-00-3		ug/l	2	U
1,1-Dichloroethene	75-35-4	3.2	ug/l	1	U
trans-1,2-Dichloroethene	156-60-5		ug/l	1.5	U
cis-1,2-Dichloroethene	156-59-2	70	ug/l	1	U
Trichloroethene	79-01-6	5	ug/l	1	U
1,2-Dichlorobenzene	95-50-1	600	ug/l	5	U
1,3-Dichlorobenzene	541-73-1	320	ug/l	5	U
1,4-Dichlorobenzene	106-46-7	50	ug/l	5	U
p/m-Xylene	106-42-3/108-38-3		ug/l	4.2	
o-xylene	95-47-6		ug/l	1	U
Xylene (Total)	1330-20-7		ug/l	4.2	
Styrene	100-42-5		ug/l	1	U
Acetone	67-64-1		ug/l	10	U
Carbon disulfide	75-15-0		ug/l	5	U
2-Butanone	78-93-3		ug/l	11	
Vinyl acetate	108-05-4		ug/l	20	U
4-Methyl-2-pentanone	108-10-1		ug/l	10	U
2-Hexanone	591-78-6		ug/l	10	U
Acrolein	107-02-8		ug/l	8	U
Acrylonitrile	107-13-1		ug/l	10	U
Methyl tert butyl ether	1634-04-4	70	ug/l	20	U
1,4-Dioxane	123-91-1		ug/l	2000	U
Tert-Butyl Alcohol	75-65-0		ug/l	100	U
Tertiary-Amyl Methyl Ether	994-05-8		ug/l	20	U



PROPOSED TREAMENT SYSTEM SCHEMATIC

NOTE: SCHEMATIC IS MOST LIKELY TREATMENT SYSTEM. FINAL TREATMENT TO BE DETERMINED BY OPERATOR/CONTRACTOR AND RCP EFFLUENT LIMITS.



ANALYTICAL REPORT

Lab Number:	L1005687
Client:	VHB Environmental Engineering 101 Walnut Street PO Box 9151 Watertown, MA 02471
ATTN:	Bill Taber
Phone:	(617) 924-1770
Project Name:	19 HOWLEY STREET
Project Number:	10667.00
Report Date:	04/21/10

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

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



Project Name: 19 HOWLEY STREET
Project Number: 10667.00

Lab Number: L1005687
Report Date: 04/21/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1005687-01	MW-3	PEABODY, MA	04/20/10 11:45

Project Name: 19 HOWLEY STREET
Project Number: 10667.00

Lab Number: L1005687
Report Date: 04/21/10

Case Narrative

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

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

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

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

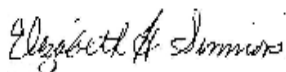
Metals

The WG409007-4 MS recovery for Iron (0%), associated with L1005687-01, is invalid because the sample concentration is greater than four times the spike amount added.

The WG409008-4 MS recovery for Antimony (66%), associated with L1005687-01, is below the acceptance criteria. A post digestion spike was performed with an acceptable recovery of 99%.

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:

 Elizabeth Simmons

Title: Technical Director/Representative

Date: 04/21/10

METALS

Project Name: 19 HOWLEY STREET

Lab Number: L1005687

Project Number: 10667.00

Report Date: 04/21/10

SAMPLE RESULTS

Lab ID: L1005687-01

Date Collected: 04/20/10 11:45

Client ID: MW-3

Date Received: 04/20/10

Sample Location: PEABODY, MA

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab										
Antimony, Total	0.0007		mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:23	EPA 3005A	1,6020	BM
Arsenic, Total	0.0233		mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:23	EPA 3005A	1,6020	BM
Cadmium, Total	0.0008		mg/l	0.0002	1	04/20/10 17:00	04/21/10 15:23	EPA 3005A	1,6020	BM
Chromium, Total	0.0761		mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:23	EPA 3005A	1,6020	BM
Copper, Total	0.0841		mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:23	EPA 3005A	1,6020	BM
Iron, Total	81		mg/l	0.05	1	04/20/10 17:00	04/21/10 09:28	EPA 3005A	19,200.7	AI
Lead, Total	0.1166		mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:23	EPA 3005A	1,6020	BM
Mercury, Total	ND		mg/l	0.0002	1	04/20/10 17:30	04/21/10 10:18	EPA 245.1	3,245.1	EZ
Nickel, Total	0.0582		mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:23	EPA 3005A	1,6020	BM
Selenium, Total	0.004		mg/l	0.001	1	04/20/10 17:00	04/21/10 15:23	EPA 3005A	1,6020	BM
Silver, Total	ND		mg/l	0.0004	1	04/20/10 17:00	04/21/10 15:23	EPA 3005A	1,6020	BM
Zinc, Total	0.1807		mg/l	0.0050	1	04/20/10 17:00	04/21/10 15:23	EPA 3005A	1,6020	BM



Project Name: 19 HOWLEY STREET

Lab Number: L1005687

Project Number: 10667.00

Report Date: 04/21/10

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: WG408996-1								
Mercury, Total	ND	mg/l	0.0002	1	04/20/10 17:30	04/21/10 10:14	3,245.1	EZ

Prep Information

Digestion Method: EPA 245.1

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG409007-1								
Iron, Total	ND	mg/l	0.05	1	04/20/10 17:00	04/21/10 09:22	19,200.7	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG409008-1								
Antimony, Total	ND	mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:05	1,6020	BM
Arsenic, Total	ND	mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:05	1,6020	BM
Cadmium, Total	ND	mg/l	0.0002	1	04/20/10 17:00	04/21/10 15:05	1,6020	BM
Chromium, Total	ND	mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:05	1,6020	BM
Copper, Total	ND	mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:05	1,6020	BM
Lead, Total	ND	mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:05	1,6020	BM
Nickel, Total	ND	mg/l	0.0005	1	04/20/10 17:00	04/21/10 15:05	1,6020	BM
Selenium, Total	ND	mg/l	0.001	1	04/20/10 17:00	04/21/10 15:05	1,6020	BM
Silver, Total	ND	mg/l	0.0004	1	04/20/10 17:00	04/21/10 15:05	1,6020	BM
Zinc, Total	ND	mg/l	0.0050	1	04/20/10 17:00	04/21/10 15:05	1,6020	BM

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis **Batch Quality Control**

Project Name: 19 HOWLEY STREET

Project Number: 10667.00

Lab Number: L1005687

Report Date: 04/21/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG408996-2								
Mercury, Total	98		-		85-115	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG409007-2								
Iron, Total	91		-		85-115	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG409008-2								
Antimony, Total	92		-		80-120	-		
Arsenic, Total	98		-		80-120	-		
Cadmium, Total	108		-		80-120	-		
Chromium, Total	96		-		80-120	-		
Copper, Total	99		-		80-120	-		
Lead, Total	102		-		80-120	-		
Nickel, Total	99		-		80-120	-		
Selenium, Total	102		-		80-120	-		
Silver, Total	97		-		80-120	-		
Zinc, Total	103		-		80-120	-		

Matrix Spike Analysis Batch Quality Control

Project Name: 19 HOWLEY STREET

Project Number: 10667.00

Lab Number: L1005687

Report Date: 04/21/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG408996-4 QC Sample: L1005687-01 Client ID: MW-3												
Mercury, Total	ND	0.001	0.0012	123		-	-		70-130	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG409007-4 QC Sample: L1005687-01 Client ID: MW-3												
Iron, Total	81	1	81	0		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG409008-4 QC Sample: L1005687-01 Client ID: MW-3												
Antimony, Total	0.0007	0.5	0.3307	66	Q	-	-		80-120	-		20
Arsenic, Total	0.0233	0.12	0.1416	99		-	-		80-120	-		20
Cadmium, Total	0.0008	0.051	0.0553	107		-	-		80-120	-		20
Chromium, Total	0.0761	0.2	0.2674	96		-	-		80-120	-		20
Copper, Total	0.0841	0.25	0.3285	98		-	-		80-120	-		20
Lead, Total	0.1166	0.51	0.6343	102		-	-		80-120	-		20
Nickel, Total	0.0582	0.5	0.5420	97		-	-		80-120	-		20
Selenium, Total	0.004	0.12	0.115	93		-	-		80-120	-		20
Silver, Total	ND	0.05	0.0471	94		-	-		80-120	-		20
Zinc, Total	0.1807	0.5	0.7015	104		-	-		80-120	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: 19 HOWLEY STREET

Project Number: 10667.00

Lab Number: L1005687

Report Date: 04/21/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG408996-3 QC Sample: L1005687-01 Client ID: MW-3						
Mercury, Total	ND	0.0002	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG409007-3 QC Sample: L1005687-01 Client ID: MW-3						
Iron, Total	81	80	mg/l	1		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG409008-3 QC Sample: L1005687-01 Client ID: MW-3						
Antimony, Total	0.0007	0.0006	mg/l	20		20
Arsenic, Total	0.0233	0.0237	mg/l	2		20
Cadmium, Total	0.0008	0.0008	mg/l	0		20
Chromium, Total	0.0761	0.0759	mg/l	0		20
Copper, Total	0.0841	0.0826	mg/l	2		20
Lead, Total	0.1166	0.1144	mg/l	2		20
Nickel, Total	0.0582	0.0570	mg/l	2		20
Selenium, Total	0.004	0.004	mg/l	2		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.1807	0.1805	mg/l	0		20

Project Name: 19 HOWLEY STREET**Project Number:** 10667.00**Lab Number:** L1005687**Report Date:** 04/21/10**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA**Cooler Information Custody Seal****Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L1005687-01A	Plastic 500ml HNO3 preserved	A	<2	5	Y	Absent	SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),FE-UI(180),PB-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180)

*Hold days indicated by values in parentheses

Project Name: 19 HOWLEY STREET
Project Number: 10667.00

Lab Number: L1005687
Report Date: 04/21/10

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	· Not Ignitable.
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

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

Report Format: Data Usability Report



Project Name: 19 HOWLEY STREET
Project Number: 10667.00

Lab Number: L1005687
Report Date: 04/21/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 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.

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 March 16, 2010 - Westboro Facility

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

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

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: 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, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.)

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), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

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

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 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, Fluoride, Sulfate)

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

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

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

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

Non-Potable Water

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

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

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

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

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

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

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

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

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

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

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

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 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, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

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

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

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

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

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

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

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

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

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

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

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

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

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

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

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

Utah Department of Health Certificate/Lab ID: AAMA. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

Department of Defense Certificate/Lab ID: L2217.

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

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B.)

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

Analytes Not Accredited by NELAP

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



CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA
TEL: 508-834-9220
FAX: 508-834-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3289

Client Information

Client: **VHB, Inc.**

Address: **101 Walnut St.**

City: **Watertown, MA**

Phone: **(617) 924-7110**

Fax: **(617) 924-2286**

Email: **KKudrma@vhb.com**

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, include in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

Project Information

Project Name: **19 Howley Street**

Project Location: **Peabody, MA**

Project #: **10667-00**

Project Manager: **Bill Tober**

ALPHA Quote #:

Turn-Around Time

☐ Standard

Date Due: **4/21/2010** Rush **24-hour** Time: **13:45**

ALPHA Lab ID (Lab Use Only)

Sample ID

Collection Date

Time

Sample Matrix

Sampler's Initials

05687

1

MW-3

4/20/10

11:45

SW

DC

X

ANALYSIS

Total Metals (Rep)

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEX ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State Fed Program **MA DEP**

MA MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☒ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocol) Required?

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

☐ Yes ☒ No

Billing Information

Same as Client Info

PO # **10667-00**

Client: **VHB, Inc.**

Address: **101 Walnut St.**

City: **Watertown, MA**

Phone: **(617) 924-7110**

Fax: **(617) 924-2286**

Email: **KKudrma@vhb.com**

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, include in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MAMCP or CT RCP?

FORM NO: UT-01 (Rev. 15-Jan-2010)

Relinquished By:

[Signature]

Date/Time

4/20/10 13:40

Received By:

[Signature]

Date/Time

4/20/10 15:40

Please print clearly legibly and completely. Samples cannot be logged in and turnaround time clock will not start until all inquiries are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number:	L1004444
Client:	VHB Environmental Engineering 101 Walnut Street PO Box 9151 Watertown, MA 02471
ATTN:	Paul McKinlay
Phone:	(617) 924-1770
Project Name:	STOP & SHOP FUEL
Project Number:	10667.00
Report Date:	04/28/10

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

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



Project Name: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1004444-01	MW-3	PEABODY, MA	03/29/10 12:20
L1004444-02	TRIP BLANK	PEABODY, MA	03/29/10 00:00

Project Name: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

Case Narrative

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

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

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

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

Report Submission

This report replaces the report issued April 5, 2010. At the client's request, the Client ID has been changed on L1004444-01.

Sample Receipt

A Trip Blank was received in the laboratory but not listed on the Chain of Custody. At the client's request, the Trip Blank was not analyzed.

The sample was Field Filtered for Dissolved Metals only.

Volatile Organics

The WG405811-5 LCS recovery, associated with L1004444-01, was above the acceptance criteria for Carbon disulfide (171%); however, the associated sample was non-detect for this target compound. The results of the

Project Name: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

Case Narrative (continued)

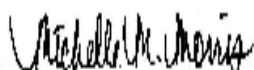
original analysis are reported.

Metals

The WG406035-4 MS recovery for Iron (0%), associated with L1004444-01, is invalid because the sample concentration is greater than four times the spike amount added.

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

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 04/28/10

ORGANICS

VOLATILES

Project Name: STOP & SHOP FUEL**Lab Number:** L1004444**Project Number:** 10667.00**Report Date:** 04/28/10**SAMPLE RESULTS**

Lab ID: L1004444-01
Client ID: MW-3
Sample Location: PEABODY, MA
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 04/01/10 11:46
Analyst: JB

Date Collected: 03/29/10 12:20
Date Received: 03/29/10
Field Prep: See Narrative
Extraction Date: 04/01/10 09:30

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Pesticides by GC - Westborough Lab					
1,2-Dibromoethane	ND		ug/l	0.010	1

Project Name: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

SAMPLE RESULTS

Lab ID: L1004444-01
Client ID: MW-3
Sample Location: PEABODY, MA
Matrix: Water
Analytical Method: 5,624
Analytical Date: 03/30/10 13:25
Analyst: TT

Date Collected: 03/29/10 12:20
Date Received: 03/29/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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	10		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: STOP & SHOP FUEL**Lab Number:** L1004444**Project Number:** 10667.00**Report Date:** 04/28/10**SAMPLE RESULTS****Lab ID:** L1004444-01**Date Collected:** 03/29/10 12:20**Client ID:** MW-3**Date Received:** 03/29/10**Sample Location:** PEABODY, MA**Field Prep:** See Narrative

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	4.2		ug/l	2.0	1
o-xylene	ND		ug/l	1.0	1
Xylene (Total)	4.2		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	11		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	112		80-120
Fluorobenzene	106		80-120
4-Bromofluorobenzene	106		80-120

Project Name: STOP & SHOP FUEL

Lab Number: L1004444

Project Number: 10667.00

Report Date: 04/28/10

Method Blank Analysis Batch Quality Control

Analytical Method: 5,624

Analytical Date: 03/30/10 07:16

Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG405811-6				
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: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,624
Analytical Date: 03/30/10 07:16
Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG405811-6				
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	10
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	110		80-120
Fluorobenzene	101		80-120
4-Bromofluorobenzene	106		80-120

Project Name: STOP & SHOP FUEL**Lab Number:** L1004444**Project Number:** 10667.00**Report Date:** 04/28/10**Method Blank Analysis**
Batch Quality Control

Analytical Method: 14,504.1

Analytical Date: 04/01/10 10:30

Analyst: JB

Extraction Date: 04/01/10 09:30

Parameter	Result	Qualifier	Units	RDL
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Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG406357-1				
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1,2-Dibromoethane	ND		ug/l	0.010
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Lab Control Sample Analysis Batch Quality Control

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG405811-5								
Methylene chloride	172		-		1-221	-		30
1,1-Dichloroethane	106		-		59-155	-		30
Chloroform	106		-		51-138	-		30
Carbon tetrachloride	128		-		70-140	-		30
1,2-Dichloropropane	106		-		1-210	-		30
Dibromochloromethane	97		-		53-149	-		30
1,1,2-Trichloroethane	92		-		52-150	-		30
2-Chloroethylvinyl ether	94		-		1-305	-		30
Tetrachloroethene	100		-		64-148	-		30
Chlorobenzene	115		-		37-160	-		30
Trichlorofluoromethane	166		-		17-181	-		30
1,2-Dichloroethane	102		-		49-155	-		30
1,1,1-Trichloroethane	125		-		52-162	-		30
Bromodichloromethane	98		-		35-155	-		30
trans-1,3-Dichloropropene	103		-		17-183	-		30
cis-1,3-Dichloropropene	102		-		1-227	-		30
Bromoform	122		-		45-169	-		30
1,1,2,2-Tetrachloroethane	105		-		46-157	-		30
Benzene	107		-		37-151	-		30
Toluene	94		-		47-150	-		30
Ethylbenzene	115		-		37-162	-		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG405811-5								
Chloromethane	182		-		1-273	-		30
Bromomethane	175		-		1-242	-		30
Vinyl chloride	147		-		1-251	-		30
Chloroethane	180		-		14-230	-		30
1,1-Dichloroethene	206		-		1-234	-		30
trans-1,2-Dichloroethene	115		-		54-156	-		30
cis-1,2-Dichloroethene	100		-		60-140	-		30
Trichloroethene	103		-		71-157	-		30
1,2-Dichlorobenzene	110		-		18-190	-		30
1,3-Dichlorobenzene	113		-		59-156	-		30
1,4-Dichlorobenzene	109		-		18-190	-		30
p/m-Xylene	125		-		40-160	-		30
o-Xylene	111		-		40-160	-		30
XYLENE (TOTAL)	120		-		40-160	-		30
Styrene	98		-		40-160	-		30
Acetone	139		-		40-160	-		30
Carbon disulfide	171	Q	-		40-160	-		30
2-Butanone	101		-		40-160	-		30
Vinyl acetate	95		-		40-160	-		30
4-Methyl-2-pentanone	86		-		40-160	-		30
2-Hexanone	91		-		40-160	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG405811-5								
Acrolein	153		-		40-160	-		30
Acrylonitrile	130		-		40-160	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Pentafluorobenzene	109				80-120
Fluorobenzene	101				80-120
4-Bromofluorobenzene	106				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG406357-2

1,2-Dibromoethane	118		-		70-130	-		20
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Matrix Spike Analysis

Batch Quality Control

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405811-3 QC Sample: L1004237-01 Client ID: MS Sample												
Methylene chloride	ND	20	34	168		-	-		1-221	-		30
1,1-Dichloroethane	ND	20	22	110		-	-		59-155	-		30
Chloroform	ND	20	22	113		-	-		51-138	-		30
Carbon tetrachloride	ND	20	32	158	Q	-	-		70-140	-		30
1,2-Dichloropropane	ND	20	22	108		-	-		1-210	-		30
Dibromochloromethane	ND	20	19	97		-	-		53-149	-		30
1,1,2-Trichloroethane	ND	20	17	87		-	-		52-150	-		30
2-Chloroethylvinyl ether	ND	20	ND	11		-	-		1-305	-		30
Tetrachloroethene	ND	20	20	99		-	-		64-148	-		30
Chlorobenzene	ND	20	22	110		-	-		37-160	-		30
Trichlorofluoromethane	ND	20	35	176		-	-		17-181	-		30
1,2-Dichloroethane	ND	20	21	107		-	-		49-155	-		30
1,1,1-Trichloroethane	ND	20	29	147		-	-		52-162	-		30
Bromodichloromethane	ND	20	20	100		-	-		35-155	-		30
trans-1,3-Dichloropropene	ND	20	22	109		-	-		17-183	-		30
cis-1,3-Dichloropropene	ND	20	21	104		-	-		1-227	-		30
Bromoform	ND	20	24	121		-	-		45-169	-		30
1,1,2,2-Tetrachloroethane	ND	20	21	103		-	-		46-157	-		30
Benzene	ND	20	22	113		-	-		35-151	-		30
Toluene	ND	20	18	92		-	-		47-150	-		30
Ethylbenzene	ND	20	22	112		-	-		37-162	-		30

Matrix Spike Analysis**Batch Quality Control****Project Name:** STOP & SHOP FUEL**Project Number:** 10667.00**Lab Number:** L1004444**Report Date:** 04/28/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405811-3 QC Sample: L1004237-01 Client ID: MS Sample												
Chloromethane	ND	20	37	187		-	-		1-273	-		30
Bromomethane	ND	20	36	180		-	-		1-242	-		30
Vinyl chloride	ND	20	32	160		-	-		1-251	-		30
Chloroethane	ND	20	36	180		-	-		14-230	-		30
1,1-Dichloroethene	ND	20	43	216		-	-		1-234	-		30
trans-1,2-Dichloroethene	ND	20	23	113		-	-		54-156	-		30
cis-1,2-Dichloroethene	ND	20	20	102		-	-		60-140	-		30
Trichloroethene	ND	20	21	106		-	-		71-157	-		30
1,2-Dichlorobenzene	ND	20	20	102		-	-		18-190	-		30
1,3-Dichlorobenzene	ND	20	21	106		-	-		59-156	-		30
1,4-Dichlorobenzene	ND	20	20	103		-	-		18-190	-		30
p/m-Xylene	ND	40	48	121		-	-		40-160	-		30
o-Xylene	ND	20	21	106		-	-		40-160	-		30
XYLENE (TOTAL)	ND	60	70	116		-	-		40-160	-		30
Styrene	ND	20	18	92		-	-		40-160	-		30
Acetone	ND	50	70	137		-	-		40-160	-		30
Carbon disulfide	ND	20	33	164	Q	-	-		40-160	-		30
2-Butanone	ND	50	54	109		-	-		40-160	-		30
Vinyl acetate	ND	40	57	142		-	-		40-160	-		30
4-Methyl-2-pentanone	ND	50	43	86		-	-		40-160	-		30
2-Hexanone	ND	50	44	89		-	-		40-160	-		30

Matrix Spike Analysis**Batch Quality Control****Project Name:** STOP & SHOP FUEL**Project Number:** 10667.00**Lab Number:** L1004444**Report Date:** 04/28/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405811-3 QC Sample: L1004237-01 Client ID: MS Sample												
Acrolein	ND	40	59	148		-	-		40-160	-		30
Acrylonitrile	ND	40	40	99		-	-		40-160	-		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
4-Bromofluorobenzene	106				80-120
Fluorobenzene	103				80-120
Pentafluorobenzene	113				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406357-3 QC Sample: L1004357-01 Client ID: MS Sample												
1,2-Dibromoethane	ND	0.254	0.315	124		-	-		70-130	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405811-4 QC Sample: L1004237-01 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: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405811-4 QC Sample: L1004237-01 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: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405811-4 QC Sample: L1004237-01 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

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	111		114		80-120
Fluorobenzene	102		105		80-120
4-Bromofluorobenzene	100		104		80-120

SEMIVOLATILES

Project Name: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

SAMPLE RESULTS

Lab ID: L1004444-01
Client ID: MW-3
Sample Location: PEABODY, MA
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 04/01/10 13:21
Analyst: HL

Date Collected: 03/29/10 12:20
Date Received: 03/29/10
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 03/31/10 17:13

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Acenaphthene	ND		ug/l	0.20	1
2-Chloronaphthalene	ND		ug/l	0.20	1
Fluoranthene	ND		ug/l	0.20	1
Hexachlorobutadiene	ND		ug/l	0.50	1
Naphthalene	0.35		ug/l	0.20	1
Benzo(a)anthracene	ND		ug/l	0.20	1
Benzo(a)pyrene	ND		ug/l	0.20	1
Benzo(b)fluoranthene	ND		ug/l	0.20	1
Benzo(k)fluoranthene	ND		ug/l	0.20	1
Chrysene	ND		ug/l	0.20	1
Acenaphthylene	ND		ug/l	0.20	1
Anthracene	ND		ug/l	0.20	1
Benzo(ghi)perylene	ND		ug/l	0.20	1
Fluorene	ND		ug/l	0.20	1
Phenanthrene	ND		ug/l	0.20	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	1
Pyrene	ND		ug/l	0.20	1
1-Methylnaphthalene	2.8		ug/l	0.20	1
2-Methylnaphthalene	ND		ug/l	0.20	1
Pentachlorophenol	ND		ug/l	0.80	1
Hexachlorobenzene	ND		ug/l	0.80	1
Hexachloroethane	ND		ug/l	0.80	1

Project Name: STOP & SHOP FUEL**Lab Number:** L1004444**Project Number:** 10667.00**Report Date:** 04/28/10**SAMPLE RESULTS**

Lab ID: L1004444-01

Date Collected: 03/29/10 12:20

Client ID: MW-3

Date Received: 03/29/10

Sample Location: PEABODY, MA

Field Prep: See Narrative

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	46		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	88		33-120

Project Name: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

SAMPLE RESULTS

Lab ID: L1004444-01
Client ID: MW-3
Sample Location: PEABODY, MA
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 04/02/10 21:49
Analyst: PS

Date Collected: 03/29/10 12:20
Date Received: 03/29/10
Field Prep: See Narrative
Extraction Method: EPA 3510C
Extraction Date: 03/31/10 17:09

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

Benzidine	ND		ug/l	50	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1
Bis(2-chloroethyl)ether	ND		ug/l	5.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
3,3'-Dichlorobenzidine	ND		ug/l	50	1
2,4-Dinitrotoluene	ND		ug/l	6.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1
Azobenzene	ND		ug/l	5.0	1
4-Chlorophenyl phenyl ether	ND		ug/l	5.0	1
4-Bromophenyl phenyl ether	ND		ug/l	5.0	1
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1
Hexachlorocyclopentadiene	ND		ug/l	30	1
Isophorone	ND		ug/l	5.0	1
Nitrobenzene	ND		ug/l	5.0	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0	1
Butyl benzyl phthalate	ND		ug/l	5.0	1
Di-n-butylphthalate	ND		ug/l	5.0	1
Di-n-octylphthalate	ND		ug/l	5.0	1
Diethyl phthalate	ND		ug/l	5.0	1
Dimethyl phthalate	ND		ug/l	5.0	1
Aniline	ND		ug/l	20	1
4-Chloroaniline	ND		ug/l	5.0	1
2-Nitroaniline	ND		ug/l	5.0	1
3-Nitroaniline	ND		ug/l	5.0	1
4-Nitroaniline	ND		ug/l	7.0	1
Dibenzofuran	ND		ug/l	5.0	1

Project Name: STOP & SHOP FUEL**Lab Number:** L1004444**Project Number:** 10667.00**Report Date:** 04/28/10**SAMPLE RESULTS****Lab ID:** L1004444-01**Date Collected:** 03/29/10 12:20**Client ID:** MW-3**Date Received:** 03/29/10**Sample Location:** PEABODY, MA**Field Prep:** See Narrative

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	100		33-120

Project Name: STOP & SHOP FUEL

Lab Number: L1004444

Project Number: 10667.00

Report Date: 04/28/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 04/01/10 10:20
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 03/31/10 17:09

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG406250-1				
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
1,2-Dichlorobenzene	ND		ug/l	5.0
1,3-Dichlorobenzene	ND		ug/l	5.0
1,4-Dichlorobenzene	ND		ug/l	5.0
3,3'-Dichlorobenzidine	ND		ug/l	50
2,4-Dinitrotoluene	ND		ug/l	6.0
2,6-Dinitrotoluene	ND		ug/l	5.0
Azobenzene	ND		ug/l	5.0
4-Chlorophenyl phenyl ether	ND		ug/l	5.0
4-Bromophenyl phenyl ether	ND		ug/l	5.0
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0
Hexachlorobutadiene	ND		ug/l	10
Hexachlorocyclopentadiene	ND		ug/l	30
Hexachloroethane	ND		ug/l	5.0
Isophorone	ND		ug/l	5.0
Nitrobenzene	ND		ug/l	5.0
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0
Butyl benzyl phthalate	ND		ug/l	5.0
Di-n-butylphthalate	ND		ug/l	5.0
Di-n-octylphthalate	ND		ug/l	5.0
Diethyl phthalate	ND		ug/l	5.0
Dimethyl phthalate	ND		ug/l	5.0
Aniline	ND		ug/l	20
4-Chloroaniline	ND		ug/l	5.0
2-Nitroaniline	ND		ug/l	5.0
3-Nitroaniline	ND		ug/l	5.0

Project Name: STOP & SHOP FUEL

Lab Number: L1004444

Project Number: 10667.00

Report Date: 04/28/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 04/01/10 10:20
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 03/31/10 17:09

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG406250-1				
4-Nitroaniline	ND		ug/l	7.0
Dibenzofuran	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
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

Project Name: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 04/01/10 10:20
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 03/31/10 17:09

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG406250-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	55		10-120
4-Terphenyl-d14	67		33-120

Project Name: STOP & SHOP FUEL

Lab Number: L1004444

Project Number: 10667.00

Report Date: 04/28/10

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 04/01/10 09:23
 Analyst: HL

Extraction Method: EPA 3510C
 Extraction Date: 03/31/10 17:13

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG406252-1				
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: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 04/01/10 09:23
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 03/31/10 17:13

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG406252-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	84		33-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG406250-2 WG406250-3								
Acenaphthene	53		52		37-111	2		30
1,2,4-Trichlorobenzene	47		47		39-98	0		30
2-Chloronaphthalene	66		68		40-140	3		30
1,2-Dichlorobenzene	49		49		40-140	0		30
1,4-Dichlorobenzene	47		47		36-97	0		30
2,4-Dinitrotoluene	75		75		24-96	0		30
2,6-Dinitrotoluene	63		67		40-140	6		30
Fluoranthene	66		70		40-140	6		30
4-Chlorophenyl phenyl ether	59		56		40-140	5		30
n-Nitrosodi-n-propylamine	57		57		41-116	0		30
Butyl benzyl phthalate	67		71		40-140	6		30
Anthracene	62		58		40-140	7		30
Pyrene	60		63		26-127	5		30
P-Chloro-M-Cresol	62		63		23-97	2		30
2-Chlorophenol	51		50		27-123	2		30
2-Nitrophenol	57		58		30-130	2		30
4-Nitrophenol	32		34		10-80	6		30
2,4-Dinitrophenol	41		47		20-130	14		30
Pentachlorophenol	58		58		9-103	0		30
Phenol	25		26		12-110	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG406250-2 WG406250-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	32		33		21-120
Phenol-d6	23		22		10-120
Nitrobenzene-d5	58		54		23-120
2-Fluorobiphenyl	57		52		15-120
2,4,6-Tribromophenol	65		60		10-120
4-Terphenyl-d14	64		67		33-120

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG406252-2 WG406252-3

Acenaphthene	87		74		37-111	16	40
2-Chloronaphthalene	111		98		40-140	12	40
Fluoranthene	98		97		40-140	1	40
Anthracene	82		79		40-140	4	40
Pyrene	95		94		26-127	1	40
Pentachlorophenol	68		67		9-103	1	40

Lab Control Sample Analysis **Batch Quality Control**

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG406252-2 WG406252-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	45		41		21-120
Phenol-d6	34		32		10-120
Nitrobenzene-d5	73		67		23-120
2-Fluorobiphenyl	70		64		15-120
2,4,6-Tribromophenol	85		85		10-120
4-Terphenyl-d14	81		86		33-120

PCBS

Project Name: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

SAMPLE RESULTS

Lab ID: L1004444-01
Client ID: MW-3
Sample Location: PEABODY, MA
Matrix: Water
Analytical Method: 5,608
Analytical Date: 04/05/10 12:32
Analyst: JB

Date Collected: 03/29/10 12:20
Date Received: 03/29/10
Field Prep: See Narrative
Extraction Method: EPA 608
Extraction Date: 04/01/10 21:40
Cleanup Method1: EPA 3665A
Cleanup Date1: 04/02/10
Cleanup Method2: EPA 3660B
Cleanup Date2: 04/02/10

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

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	35		30-150	A
Decachlorobiphenyl	81		30-150	A

Project Name: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,608
Analytical Date: 04/05/10 11:41
Analyst: JB

Extraction Method: EPA 608
Extraction Date: 04/01/10 21:40
Cleanup Method1: EPA 3665A
Cleanup Date1: 04/02/10
Cleanup Method2: EPA 3660B
Cleanup Date2: 04/02/10

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG406446-1				
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	33		30-150	A
Decachlorobiphenyl	79		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406446-3 QC Sample: L1004581-01 Client ID: MS Sample												
Aroclor 1016	ND	2	1.47	74		-	-		40-126	-		30
Aroclor 1260	ND	2	1.53	76		-	-		40-127	-		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	35				30-150	A
Decachlorobiphenyl	65				30-150	A

Lab Control Sample Analysis**Batch Quality Control****Project Name:** STOP & SHOP FUEL**Lab Number:** L1004444**Project Number:** 10667.00**Report Date:** 04/28/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG406446-2								
Aroclor 1016	84		-		40-126	-		30
Aroclor 1260	87		-		40-127	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	30				30-150	A
Decachlorobiphenyl	72				30-150	A

Lab Duplicate Analysis Batch Quality Control

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406446-4 QC Sample: L1004581-01 Client ID: DUP Sample						
Aroclor 1016	ND	ND	ug/l	NC		30
Aroclor 1221	ND	ND	ug/l	NC		30
Aroclor 1232	ND	ND	ug/l	NC		30
Aroclor 1242	ND	ND	ug/l	NC		30
Aroclor 1248	ND	ND	ug/l	NC		30
Aroclor 1254	ND	ND	ug/l	NC		30
Aroclor 1260	ND	ND	ug/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	40		55		30-150	A
Decachlorobiphenyl	76		109		30-150	A

METALS

Project Name: STOP & SHOP FUEL

Lab Number: L1004444

Project Number: 10667.00

Report Date: 04/28/10

SAMPLE RESULTS

Lab ID: L1004444-01

Date Collected: 03/29/10 12:20

Client ID: MW-3

Date Received: 03/29/10

Sample Location: PEABODY, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab										
Antimony, Dissolved	ND		mg/l	0.0005	1	03/30/10 11:10	03/31/10 22:38	EPA 3005A	1,6020	BM
Arsenic, Dissolved	0.0021		mg/l	0.0005	1	03/30/10 11:10	03/31/10 22:38	EPA 3005A	1,6020	BM
Cadmium, Dissolved	ND		mg/l	0.0002	1	03/30/10 11:10	03/31/10 22:38	EPA 3005A	1,6020	BM
Chromium, Dissolved	0.0021		mg/l	0.0005	1	03/30/10 11:10	03/31/10 22:38	EPA 3005A	1,6020	BM
Copper, Dissolved	0.0010		mg/l	0.0005	1	03/30/10 11:10	03/31/10 22:38	EPA 3005A	1,6020	BM
Iron, Dissolved	20		mg/l	0.05	1	03/30/10 10:45	03/31/10 14:01	EPA 3005A	19,200.7	MG
Lead, Dissolved	ND		mg/l	0.0005	1	03/30/10 11:10	03/31/10 22:38	EPA 3005A	1,6020	BM
Mercury, Dissolved	ND		mg/l	0.0002	1	03/30/10 17:00	03/31/10 11:44	EPA 245.1	3,245.1	EZ
Nickel, Dissolved	0.0017		mg/l	0.0005	1	03/30/10 11:10	03/31/10 22:38	EPA 3005A	1,6020	BM
Selenium, Dissolved	ND		mg/l	0.001	1	03/30/10 11:10	03/31/10 22:38	EPA 3005A	1,6020	BM
Silver, Dissolved	ND		mg/l	0.0004	1	03/30/10 11:10	03/31/10 22:38	EPA 3005A	1,6020	BM
Zinc, Dissolved	0.0249		mg/l	0.0050	1	03/30/10 11:10	03/31/10 22:38	EPA 3005A	1,6020	BM



Project Name: STOP & SHOP FUEL

Lab Number: L1004444

Project Number: 10667.00

Report Date: 04/28/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG406035-1									
Iron, Dissolved	ND		mg/l	0.05	1	03/30/10 10:45	03/31/10 13:46	19,200.7	MG

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG406044-1									
Antimony, Dissolved	ND		mg/l	0.0005	1	03/30/10 11:10	03/31/10 19:32	1,6020	BM
Arsenic, Dissolved	ND		mg/l	0.0005	1	03/30/10 11:10	03/31/10 19:32	1,6020	BM
Cadmium, Dissolved	ND		mg/l	0.0002	1	03/30/10 11:10	03/31/10 19:32	1,6020	BM
Chromium, Dissolved	ND		mg/l	0.0005	1	03/30/10 11:10	03/31/10 19:32	1,6020	BM
Copper, Dissolved	ND		mg/l	0.0005	1	03/30/10 11:10	03/31/10 19:32	1,6020	BM
Lead, Dissolved	ND		mg/l	0.0005	1	03/30/10 11:10	03/31/10 19:32	1,6020	BM
Nickel, Dissolved	ND		mg/l	0.0005	1	03/30/10 11:10	03/31/10 19:32	1,6020	BM
Selenium, Dissolved	ND		mg/l	0.001	1	03/30/10 11:10	03/31/10 19:32	1,6020	BM
Silver, Dissolved	ND		mg/l	0.0004	1	03/30/10 11:10	03/31/10 19:32	1,6020	BM
Zinc, Dissolved	ND		mg/l	0.0050	1	03/30/10 11:10	03/31/10 19:32	1,6020	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG406062-1									
Mercury, Dissolved	ND		mg/l	0.0002	1	03/30/10 17:00	03/31/10 11:40	3,245.1	EZ

Prep Information

Digestion Method: EPA 245.1



Lab Control Sample Analysis **Batch Quality Control**

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG406035-2								
Iron, Dissolved	98		-			-		
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG406044-2								
Antimony, Dissolved	101		-		80-120	-		
Arsenic, Dissolved	104		-		80-120	-		
Cadmium, Dissolved	112		-		80-120	-		
Chromium, Dissolved	102		-		80-120	-		
Copper, Dissolved	104		-		80-120	-		
Lead, Dissolved	110		-		80-120	-		
Nickel, Dissolved	103		-		80-120	-		
Selenium, Dissolved	108		-		80-120	-		
Silver, Dissolved	98		-		80-120	-		
Zinc, Dissolved	108		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG406062-2								
Mercury, Dissolved	100		-			-		

Matrix Spike Analysis Batch Quality Control

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406035-4 QC Sample: L1004444-01 Client ID: MW-3												
Iron, Dissolved	20	1	20	0		-	-			-		
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406044-4 QC Sample: L1004444-01 Client ID: MW-3												
Antimony, Dissolved	ND	0.5	0.4862	97		-	-		80-120	-		20
Arsenic, Dissolved	0.0021	0.12	0.1295	106		-	-		80-120	-		20
Cadmium, Dissolved	ND	0.051	0.0552	108		-	-		80-120	-		20
Chromium, Dissolved	0.0021	0.2	0.1917	95		-	-		80-120	-		20
Copper, Dissolved	0.0010	0.25	0.2422	96		-	-		80-120	-		20
Lead, Dissolved	ND	0.51	0.5300	104		-	-		80-120	-		20
Nickel, Dissolved	0.0017	0.5	0.4794	96		-	-		80-120	-		20
Selenium, Dissolved	ND	0.12	0.128	107		-	-		80-120	-		20
Silver, Dissolved	ND	0.05	0.0472	94		-	-		80-120	-		20
Zinc, Dissolved	0.0249	0.5	0.5211	99		-	-		80-120	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406062-4 QC Sample: L1004444-01 Client ID: MW-3												
Mercury, Dissolved	ND	0.001	0.0011	108		-	-			-		

Lab Duplicate Analysis Batch Quality Control

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406035-3 QC Sample: L1004444-01 Client ID: MW-3						
Iron, Dissolved	20	19	mg/l	5		
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406044-3 QC Sample: L1004444-01 Client ID: MW-3						
Antimony, Dissolved	ND	ND	mg/l	NC		20
Arsenic, Dissolved	0.0021	0.0023	mg/l	6		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Chromium, Dissolved	0.0021	0.0021	mg/l	3		20
Copper, Dissolved	0.0010	0.001	mg/l	1		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Nickel, Dissolved	0.0017	0.0017	mg/l	3		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Zinc, Dissolved	0.0249	0.0266	mg/l	7		20
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406062-3 QC Sample: L1004444-01 Client ID: MW-3						
Mercury, Dissolved	ND	ND	mg/l	NC		

INORGANICS & MISCELLANEOUS

Project Name: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

SAMPLE RESULTS

Lab ID: L1004444-01
Client ID: MW-3
Sample Location: PEABODY, MA
Matrix: Water

Date Collected: 03/29/10 12:20
Date Received: 03/29/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Solids, Total Suspended	39		mg/l	5.0	1	-	03/31/10 14:45	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005	1	03/31/10 10:30	03/31/10 14:41	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	1	-	03/30/10 01:20	30,4500CL-D	BH
pH	6.9		SU	-	1	-	03/30/10 01:40	1,9040B	BH
TPH	ND		mg/l	4.00	1	04/02/10 15:30	04/05/10 13:00	74,1664A	JO
Phenolics, Total	ND		mg/l	0.03	1	-	03/30/10 13:10	4,420.1	TH
Chromium, Hexavalent	ND		mg/l	0.010	1	03/30/10 03:10	03/30/10 03:10	30,3500CR-D	BH



Project Name: STOP & SHOP FUEL

Lab Number: L1004444

Project Number: 10667.00

Report Date: 04/28/10

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: WG405902-1									
Chlorine, Total Residual	ND		mg/l	0.02	1	-	03/30/10 01:20	30,4500CL-D	BH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG405905-1									
Chromium, Hexavalent	ND		mg/l	0.010	1	03/30/10 03:10	03/30/10 03:10	30,3500CR-D	BH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG405996-1									
Phenolics, Total	ND		mg/l	0.03	1	-	03/30/10 13:06	4,420.1	TH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG406119-1									
Solids, Total Suspended	ND		mg/l	5.0	1	-	03/31/10 14:45	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG406126-2									
Cyanide, Total	ND		mg/l	0.005	1	03/31/10 10:30	03/31/10 14:31	30,4500CN-CE	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG406591-2									
TPH	ND		mg/l	4.00	1	04/02/10 15:30	04/05/10 13:00	74,1664A	JO

Lab Control Sample Analysis **Batch Quality Control**

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG405902-2								
Chlorine, Total Residual	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG405905-2								
Chromium, Hexavalent	102		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG405914-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG405996-2								
Phenolics, Total	105		-		82-111	-		12
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG406126-1								
Cyanide, Total	100		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG406591-1								
TPH	90		-		64-132	-		34

Matrix Spike Analysis Batch Quality Control

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405905-4 QC Sample: L1004444-01 Client ID: MW-3												
Chromium, Hexavalent	ND	0.1	0.103	103		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405996-3 QC Sample: L1004387-01 Client ID: MS Sample												
Phenolics, Total	ND	0.8	0.80	100		-	-		77-124	-		12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406126-3 QC Sample: L1004517-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.196	98		-	-		80-120	-		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406591-3 QC Sample: L1004517-01 Client ID: MS Sample												
TPH	ND	4	16.4	80		-	-		64-132	-		34

Lab Duplicate Analysis Batch Quality Control

Project Name: STOP & SHOP FUEL

Project Number: 10667.00

Lab Number: L1004444

Report Date: 04/28/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405902-3 QC Sample: L1004444-01 Client ID: MW-3						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405905-3 QC Sample: L1004444-01 Client ID: MW-3						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405914-2 QC Sample: L1004444-01 Client ID: MW-3						
pH	6.9	6.9	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG405996-4 QC Sample: L1004387-02 Client ID: DUP Sample						
Phenolics, Total	0.16	0.16	mg/l	0		12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406119-2 QC Sample: L1004273-01 Client ID: DUP Sample						
Solids, Total Suspended	98	95	mg/l	3		32
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406126-4 QC Sample: L1004518-02 Client ID: DUP Sample						
Cyanide, Total	0.016	0.010	mg/l	42	Q	30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG406591-4 QC Sample: L1004517-01 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34

Project Name: STOP & SHOP FUEL

Lab Number: L1004444

Project Number: 10667.00

Report Date: 04/28/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L1004444-01A	Vial Na2S2O3 preserved	A	N/A	3.8	Y	Absent	504(14)
L1004444-01B	Vial Na2S2O3 preserved	A	N/A	3.8	Y	Absent	504(14)
L1004444-01C	Vial Na2S2O3 preserved	A	N/A	3.8	Y	Absent	624(7)
L1004444-01D	Vial Na2S2O3 preserved	A	N/A	3.8	Y	Absent	624(7)
L1004444-01E	Amber 1000ml unpreserved	A	7	3.8	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1004444-01F	Amber 1000ml unpreserved	A	7	3.8	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1004444-01G	Amber 1000ml unpreserved	A	7	3.8	Y	Absent	PCB-608(7)
L1004444-01H	Amber 1000ml unpreserved	A	7	3.8	Y	Absent	PCB-608(7)
L1004444-01I	Amber 1000ml HCl preserved	A	<2	3.8	Y	Absent	TPH-1664(28)
L1004444-01J	Amber 1000ml HCl preserved	A	<2	3.8	Y	Absent	TPH-1664(28)
L1004444-01K	Amber 500ml H2SO4preserved	A	<2	3.8	Y	Absent	TPHENOL-420(28)
L1004444-01L	Plastic 1000ml unpreserved	A	7	3.8	Y	Absent	TSS-2540(7)
L1004444-01M	Plastic 1000ml unpreserved	A	7	3.8	Y	Absent	HEXCR-3500(1),TRC-4500(1),PH-9040(.025)
L1004444-01N	Plastic 1000ml NaOH preserved	A	>12	3.8	Y	Absent	TCN-4500(14)
L1004444-01O	Plastic 250ml HNO3 preserved	A	<2	3.8	Y	Absent	CU-6020S(180),FE-RI(180),SE-6020S(180),ZN-6020S(180),CR-6020S(180),NI-6020S(180),PB-6020S(180),AG-6020S(180),AS-6020S(180),HG-R(28),SB-6020S(180),CD-6020S(180)
L1004444-02A	Vial Na2S2O3 preserved	A	N/A	3.8	Y	Absent	HOLD(14)
L1004444-02B	Vial Na2S2O3 preserved	A	N/A	3.8	Y	Absent	HOLD(14)

*Hold days indicated by values in parentheses



Project Name: STOP & SHOP FUEL
Project Number: 10667.00

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Report Date: 04/28/10

GLOSSARY

Acronyms

EPA	· Environmental Protection Agency.
LCS	· Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	· Laboratory Control Sample Duplicate: Refer to LCS.
MS	· Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	· Matrix Spike Sample Duplicate: Refer to MS.
NA	· Not Applicable.
NC	· Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	· Not Ignitable.
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

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

Report Format: Data Usability Report



Project Name: STOP & SHOP FUEL
Project Number: 10667.00

Lab Number: L1004444
Report Date: 04/28/10

REFERENCES

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

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha 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 March 16, 2010 - Westboro Facility

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

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

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: 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, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH.)

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), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

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

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 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, Fluoride, Sulfate)

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

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

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

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

Non-Potable Water

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

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

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

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

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

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

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

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

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

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

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

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 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, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

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

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

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

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

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

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

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

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

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

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

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

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

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

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

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

Utah Department of Health Certificate/Lab ID: AAMA. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

Department of Defense Certificate/Lab ID: L2217.

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

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 314, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B.)

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

Analytes Not Accredited by NELAP

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

