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7 February 2012
File No. 32384-403

US Environmental Protection Agency
Industrial NPDES Permits (CIP)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Attention: Ms. Shelly Puleo

Subject: Notice of Intent (NOI)
Temporary Construction Dewatering
Proposed Boston Wharf Tower
319 A Street Rear
Boston, Massachusetts
RTN 3-14285

Dear Ms. Puleo:

On behalf of our client 319 ASR, LLC, and in accordance with the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) in Massachusetts, MAG910000, this letter submits a Notice of Intent (NOI) and the applicable documentation as required by the US Environmental Protection Agency (EPA) for temporary construction site dewatering under the RGP. Temporary dewatering is planned in support of the construction of the proposed 'Boston Wharf Tower', a 21-story residential tower to be located at 319 A Street Rear in South Boston, Massachusetts as shown on Figure 1 – Site Locus.

The site consists of Parcel B and Lot G located at the intersection of West Service Road and Pastene Alley in close proximity to the Fort Point Channel. The 21,000 sq. ft site is bounded by a United States Post office parking lot to the south, West Service Road to the East and Pastene Alley to the North. The existing 319 A Street building, which is supported on wood piles, abuts the site to the west. The site is also adjacent to the I-90 westbound tunnel (CA/T Station 51+74 of Ramp D), located below grade immediately to the south. A portion of the site is currently occupied by a five-story wood and brick warehouse building known as the Bloom, South & Gurney Building. The building, approximately 7,600 sq. ft in plan, was constructed circa 1923 by the Boston Wharf Company as a warehouse for the Dwinell Wright Company to support their coffee and spice processing operations. A railroad spur supported the operations adjacent to the loading dock on the north building wall and currently exists at the site.

Surrounding site grades are relatively flat at about El. 15 to El. 17 Boston City Base Datum (BCB). Groundwater levels in the wells have typically been in the range of El. 7 to El. 8.5 or about 8 ft below ground surface. We anticipate construction dewatering will be conducted, as necessary, during utility installation and construction of below grade structures and foundation elements.

A Site and Subsurface Exploration Location Plan is included as Figure 2.

Site History

Information on site history was obtained from Sanborn Fire Insurance Maps dated 1888 through 2002. The 1888 map indicates that the site was filled and mostly unoccupied except for a railroad track traveling northeast to southwest through the site. By 1899, the site was partially occupied by two buildings for sorting, storage, and shipping. The existing building was constructed in 1923 and a railroad track was located just north of the building from 1923 to 1950, likely servicing a loading dock. There were also various wooden platforms located on the north side of the building from 1950 to 2002.

Proposed Construction

The proposed Boston Wharf Tower building footprint will occupy much of the site except a portion of Pastene Alley. The 21-story tower is planned to include one level of mixed-use (commercial, operations and management) at ground level, four (4) levels of above grade parking and 15 levels of residential space. A mechanical penthouse will also be included. The tower will be primarily steel framed with a concrete core around the elevator shaft and stairways. The concrete core is planned to be supported by a 6 ft thick mat slab. The lowest level floor slab will be founded at El. 17, about existing site grade. No below grade space is planned. Isolated slab depressions will include elevator and mechanical pits.

Regulatory Background

A portion of the former USPS property, a state disposal site RTN 3-14285, is part of the proposed development site. The former USPS property has achieved regulatory closure with implementation of an Activity and Use Limitation (AUL). It is planned to manage remedial wastewater in accordance with the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000 under a Release Abatement Measure (RAM) Plan for the subject site, RTN 3-14285.

Site Soil and Groundwater Quality

Groundwater data collected in 2010 by others on the USPS property (not located within the limits of the development site) but within 30 ft of the subject property indicated the presence of chlorinated solvents in the groundwater at concentrations that exceed Massachusetts Contingency Plan GW-2 criteria.

Groundwater samples were collected from three monitoring wells located within the limits of the proposed development site in April (one well) and November 2011 (two wells). One well sampled in November 2011 indicated levels of trichloroethylene (TCE) at a concentration above the NPDES RGP criteria. No detectable levels of TCE were encountered in the two other wells.

The soil precharacterization program conducted by Haley & Aldrich in October 2011 within the limits of the development site indicated levels of PAH compounds, TPH, and lead in soil at concentrations exceeding the applicable RCS-1 concentrations consistent with the concentrations documented under RTN 3-14285.

Temporary Construction Dewatering Notice of Intent

In support of the NOI, two unfiltered groundwater samples were collected from observation wells (designated HA11-02A(OW) and HA11-05A(OW)), on 28 November 2011. The groundwater sample from HA11-02A(OW) was submitted to Alpha Woods Hole Laboratory (Alpha Analytical) of Westborough, Massachusetts, a DEP certified laboratory, and analyzed for volatile organic compounds, extractable petroleum hydrocarbons (EPHs), and volatile petroleum hydrocarbons (VPHs). The groundwater sample collected from HA11-05A(OW) was submitted to Alpha Analytical for analysis for NPDES permit parameters including VOCs, SVOCs, PAHs, metals, TPH, pesticides, PCBs, Total Suspended Solids (TSS), chloride, total cyanide, total phenolics and total residual chlorine. The analytical results for the groundwater samples identified concentrations of trichloroethene (TCE), total iron, and TSS above applicable NPDES RGP Effluent Limits but below the applicable MCP RCGW-2 Reportable Concentrations. The results of groundwater quality testing conducted for this NOI are summarized in Table I. The locations of the observation wells are shown on Figure 2.

The concentration of iron in the non-filtered sample exceeded NPDES Discharge Criteria, however iron was below the NPDES criteria in the filtered groundwater sample. Iron in non-filtered sample is attributed to silt entrained in groundwater sample, not representative of the groundwater quality.

Temporary dewatering will be conducted from sumps located in excavations for utility trenches or foundation elements. Dewatering is necessary to control surface water runoff from precipitation, groundwater seepage and construction-generated water to enable construction in-the-dry. Construction and construction dewatering is currently anticipated to begin in April 2012.

Prior to discharge, collected water will be routed through a sedimentation tank with an oil/water separator component and/or bag filters, at a minimum, to remove suspended solids and un-dissolved chemical constituents. Supplemental pretreatment is anticipated to be required to meet discharge criteria as shown in the Proposed Treatment System Schematic included in Figure 3. Supplemental pretreatment is anticipated to include Granulated Activated Carbon (GAC) to remove TCE from the water. Construction dewatering under this RGP NOI will include piping and discharging to storm drains located near the site. The storm drains travel to the Fort Point Channel. The proposed dewatering discharge route is shown on Figure 4.

Appendices

The completed "Suggested Notice of Intent" (NOI) form as provided in the RGP is enclosed in Appendix A. The Site is owned by 319 ASR, LLC. The site operator is Suffolk Construction Company (Suffolk). Haley & Aldrich will monitor the Contractor's dewatering activities on behalf of 319 ASR, LLC. In accordance with the requirements for this NOI submission, 319 ASR, LLC as the owner and Suffolk as the operator are listed as co-permittees for this NPDES RGP, and therefore both have signed the NOI form.

A Best Management Practices Plan (BMPP), which outlines the proposed discharge operations covered under the RGP, is included in Appendix B. Appendices C and D include National Register of Historic Places and Endangered Species Act Documentation, respectively. Appendix E provides the Boston Water and Sewer Commission Dewatering Permit Application to be submitted separately to the Boston Water

and Sewer Commission. A copy of the groundwater testing laboratory data reports from samples obtained by Haley & Aldrich in November 2011 are provided in Appendix F.

Closing

Thank you very much for your consideration of this NOI. Please feel free to contact us should you wish to discuss the information contained herein or if you need additional information.

Sincerely yours,
HALEY & ALDRICH, INC

P. Sandhya

Sandhya N. Potana
Senior Engineer

Keith E. Johnson, P.E., LSP
Vice President

Attachments:

Table I – Summary of Groundwater Quality Data
Figure 1 – Site Locus
Figure 2 – Subsurface Exploration and Discharge Location Plan
Figure 3 – Proposed Treatment System Schematic
Appendix A – Notice of Intent (NOI) for Remediation General Permit (RGP)
Appendix B – Best Management Practices Plan (BMPP)
Appendix C – Endangered Species Act Documentation
Appendix D – National Register of Historic Places and Massachusetts Historical Commission Documentation
Appendix E – Boston Water and Sewer Commission Dewatering Permit Application
Appendix F – Laboratory Data Reports

c: 319 ASR, LLC; Patrick Wilde
Suffolk Construction Company; Robert Keaffer

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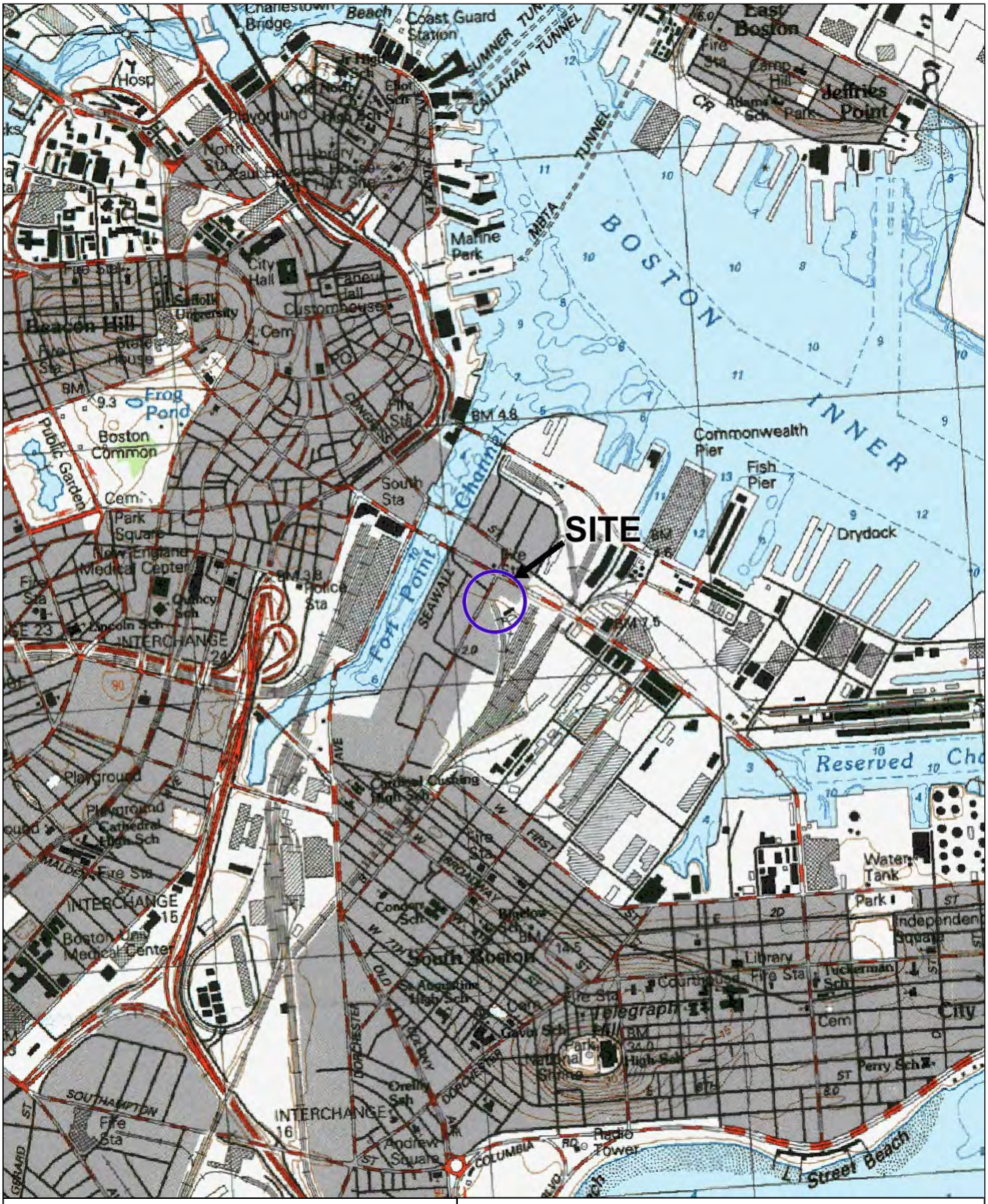
Tables

Table I
Summary of Groundwater Quality Data
Proposed Boston Wharf Tower
319 A Street Rear
Boston, Massachusetts
File No. 32384-403

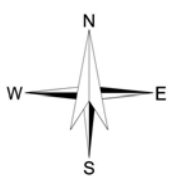
LOCATION	**2008**	**NPDES**	**HA11-02A(OW)**	**HA11-05A (OW)**
SAMPLING DATE	**RCGW-2**	**RGP**	**11/28/2011**	**11/28/2011**
LAB SAMPLE ID	**Reportable**	**Effluent**	**L1119718-02**	**L1120532-01 L1119718-01 L1200890-01**
SAMPLE TYPE	**Concentrations**	**Limits**	**Grab**	**Grab**
VOCs (mg/l)				
Trichloroethene	0.03	0.005	***0.021***	ND(0.0005)
cis-1,2-Dichloroethene	0.1	0.07	0.0036	0.003
Total VOCs	NA	NA	0.0246	0.003
SVOCs by GC/MS (mg/l)				
Total SVOCs	NA	NA	-	ND
SVOCs by GC/MS-SIM (mg/l)				
Total SVOCs	NA	NA	-	ND
Total Metals (mg/l)				
Antimony, Total	8	0.0056	-	0.0031
Arsenic, Total	0.9	0.036	-	0.0129
Cadmium, Total	0.004	0.0089	-	ND(0.00025)
Chromium, Total	0.3	0.1	-	ND(0.00025)
Copper, Total	100	0.0037	-	0.001
Iron, Total	NA	1.0	-	***2.6***
Iron, Dissolved	NA	1.0	-	0.1
Lead, Total	0.01	0.0085	-	0.0011
Mercury, Total	0.02	0.0011	-	ND(0.0001)
Nickel, Total	0.2	0.0082	-	0.0015
Selenium, Total	0.1	0.071	-	ND(0.0005)
Silver, Total	0.007	0.0022	-	ND(0.00025)
Zinc, Total	0.9	0.0856	-	0.0101
EPHs (mg/l)				
C9-C18 Aliphatics	5	NA	ND(0.05)	ND(0.05)
C19-C36 Aliphatics	50	NA	ND(0.05)	ND(0.05)
C11-C22 Aromatics	5	NA	ND(0.05)	ND(0.05)
VPHs (mg/l)				
C9-C10 Aromatics	7	NA	ND(0.025)	ND(0.025)
C5-C8 Aliphatics	3	NA	ND(0.025)	ND(0.025)
C9-C12 Aliphatics	5	NA	ND(0.025)	ND(0.025)
PCBs by GC (mg/l)				
Total PCBs	0.005	0.000000064	-	ND
Pesticides by GC (mg/l)				
1,2-Dibromoethane	0.002	0.00005	-	ND(0.000005)
General Chemistry				
Solids, Total Suspended (mg/l)	NA	30	-	***35***
Chlorine, Total Residual (mg/l)	NA	0.0075	-	ND(0.01)
TPH (mg/l)	5	5	-	ND(2)
Cyanide, Total (mg/l)	0.03	0.001	-	ND(0.0025)
Chloride (mg/l)	NA	Monitor only	-	1500
pH	NA	6.5-8.5	-	6.9
Phenolics, Total (mg/l)	NA	0.3	-	ND(0.015)
Chromium, Hexavalent (mg/l)	0.3	0.0503	-	ND(0.005)

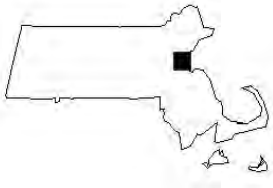
NOTES & ABBREVIATIONS:
NA: Not Applicable
-: Not Analyzed
ND: Not Detected. Number in parentheses is one-half the laboratory reporting limit.
VOCs: Volatile Organic Compounds
SVOCs: Semivolatile Organic Compounds
TPH: Total Petroleum Hydrocarbons
PCBs: Polychlorinated Biphenyls
1. Only compounds detected at least once are shown.
2. Bold italicized values indicate an exceedance of applicable NPDES RGP Effluent Limits.

Figures



SITE COORDINATES:42°20'56"N 71°2'57"W





U.S.G.S. QUADRANGLE: BOSTON SOUTH, MA

HALEY & ALDRICH

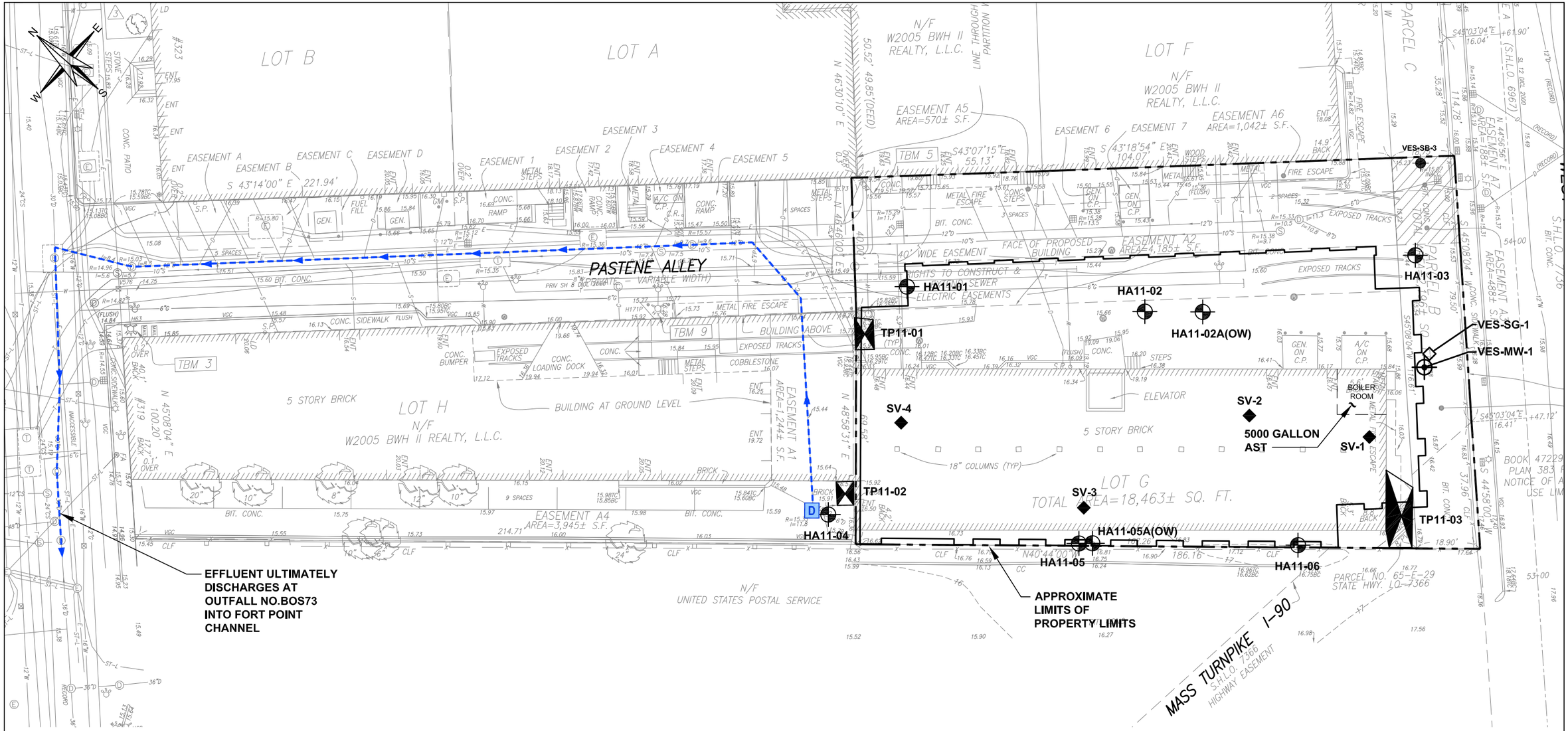
PROPOSED DEVELOPMENTS
319 A STREET REAR
BOSTON, MASSACHUSETTS

PROJECT LOCUS

SCALE: 1:24,000
DECEMBER 2011

FIGURE 1

32384-400 1.PDF



LEGEND:

SV-1 ◆	DESIGNATION AND APPROXIMATE LOCATION OF SOIL GAS VAPOR PROBE CONDUCTED BY HALEY & ALDRICH, INC. ON 8 DECEMBER 2011
HA11-01 ⊕	DESIGNATION AND APPROXIMATE LOCATION OF TEST BORING DRILLED BY GEOLOGIC-EARTH EXPLORATION BETWEEN 25 OCTOBER 2011 AND 11 NOVEMBER 2011.
TP11-01 ⋈	DESIGNATION AND APPROXIMATE LOCATION OF TEST PIT EXCAVATED DURING 31 OCTOBER THROUGH 15 NOVEMBER 2011.
(OW)	INDICATES OBSERVATION WELL INSTALLED IN COMPLETED BOREHOLE
PZ	INDICATES PIEZOMETER INSTALLED IN COMPLETED BOREHOLE
D	APPROXIMATE LOCATION OF PROPOSED POINT OF DISCHARGE
- - - →	APPROXIMATE ROUTE OF DISCHARGE TO OUTFALL

VERTEX FRC ASSESSMENT (APRIL 2011) LEGEND:

VES-SG-1 ◇	SOIL GAS
VES-SB-3 ⊕	SOIL BORING
VES-MW-1 ⊕	MONITORING WELL

NOTE:

1. BASE DRAWING TAKEN FROM A PLAN TITLED "TOPOGRAPHIC PLAN OF LAND, 319 REAR A STREET, BOSTON, MASS." PREPARED BY HARRY R. FELDMAN, INC. DATED 2 JULY 2007 REVISED 15 NOVEMBER 2011.

0 30 60
SCALE IN FEET

HALEY & ALDRICH

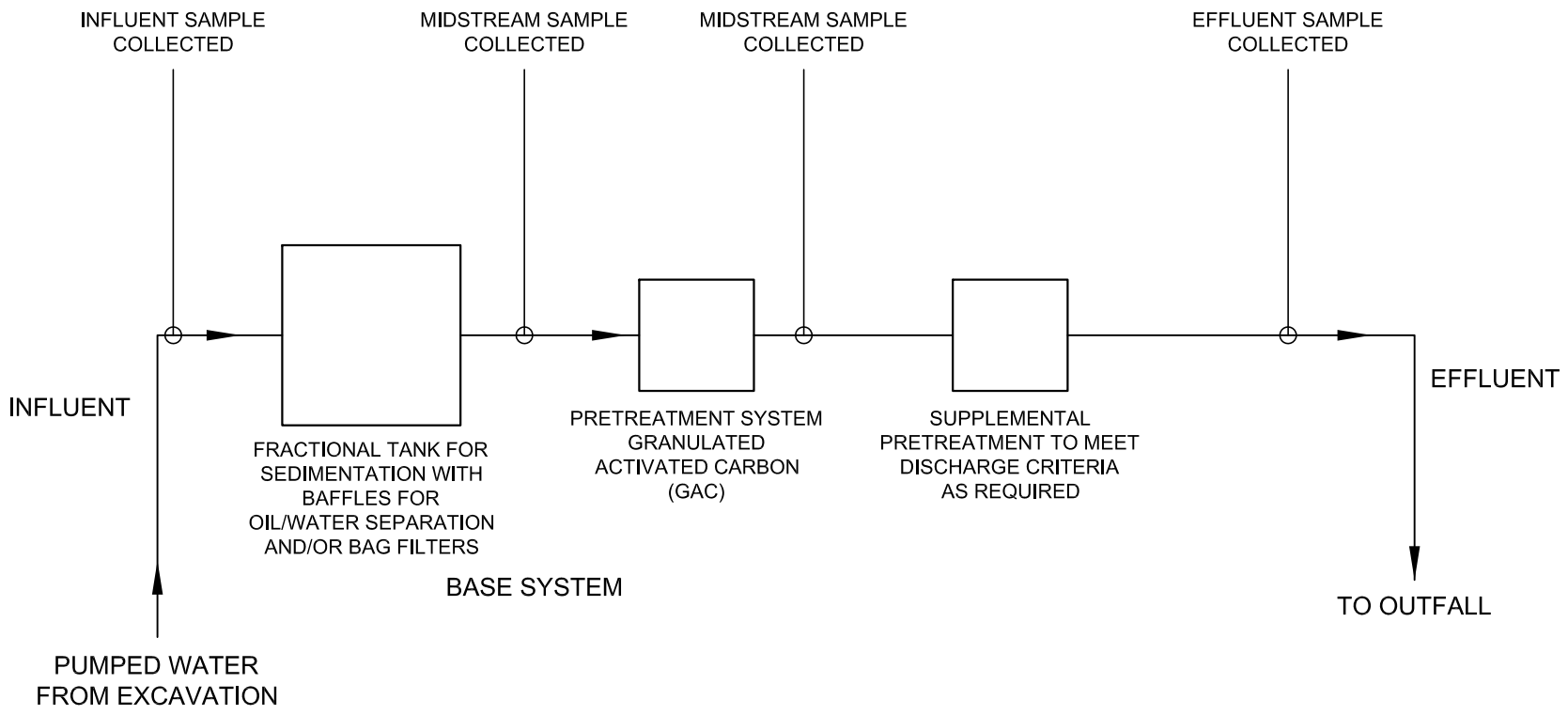
PROPOSED BOSTON WHARF TOWER
319 A STREET REAR
BOSTON, MASSACHUSETTS

SUBSURFACE EXPLORATION AND DISCHARGE LOCATION PLAN

SCALE: AS SHOWN
JANUARY 2012

FIGURE 2

J:\GRAPHICS\32384\32384-403-B031.DWG



LEGEND:

→ DIRECTION OF FLOW

NOTE:

1. DETAILS OF TREATMENT SYSTEM MAY VARY FROM SYSTEM INDICATED ABOVE. SPECIFIC MEANS AND METHODS OF TREATMENT TO BE SELECTED BY CONTRACTOR. WATER WILL BE TREATED TO MEET REQUIRED EFFLUENT STANDARDS.

HALEY & ALDRICH

PROPOSED BOSTON WHARF TOWER
319 A STREET REAR
SOUTH BOSTON, MA

PROPOSED
PRETREATMENT SYSTEM
SCHEMATIC

SCALE: NONE
JANUARY 2012

FIGURE 3

APPENDIX A

Notice of Intent (NOI) for Remediation General Permit (RGP)

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

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

a) Name of **facility/site**: Proposed Boston Wharf Tower		**Facility/site** mailing address:			
Location of **facility/site**: longitude: 71°2'57" W latitude: 42°20'56" N	Facility SIC code(s): 1522	Street: 319 A Street Rear			
b) Name of **facility/site owner:**		Town: South Boston			
Email address of facility/site owner: patrick.wilde@gerdingedlen.com		State: MA	Zip: 02210	County: Suffolk	
Telephone no. of facility/site **owner**: 503-299-6000					
Fax no. of facility/site **owner**:		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ⊙ 4. Other ○ if so, describe:			
Address of **owner** (if different from site):					
Street: 1140 SW 11th Avenue, Suite 400					
Town: Portland	State: Oregon	Zip: 97205	County: Multnomah County		
c) Legal name of **operator**: Suffolk Construction Company	**Operator** telephone no: 617-594-6775				
	Operator fax no.: 617-541-2128	**Operator** email: rkeaffer@suffolkconstruction.co			
Operator contact name and title: Robert Keaffer, Project Executive					
Address of **operator** (if different from owner):	Street: 65 Allerton Street				
Town: Boston	State: MA	Zip: 02119	County: Suffolk		

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

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

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

g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y___ N___

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

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

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

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

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

Temporary Construction Dewatering.

b) Provide the following information about each discharge:

1) Number of discharge points: 1

2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)?
Max. flow 0.07 Is maximum flow a **design value**? Y ○ N ◉
Average flow (include units) 0.03 Is average flow a design value or estimate? estimate

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat 71256 long 422056 pt.2: lat. long. ;
pt.3: lat long. pt.4: lat. long. ;
pt.5: lat long. pt.6: lat. long. ;
pt.7: lat long. pt.8: lat. long. ; etc.

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

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

c) Expected dates of discharge (mm/dd/yy): start Apr 1, 2012 end Nov 30, 2013

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

3. Contaminant information.

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

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids (TSS)		☒	☐	1	GRAB	2540D	5000	35000		35000	
2. Total Residual Chlorine (TRC)		☒	☐	1	GRAB	4500CL-D	20	ND		ND	
3. Total Petroleum Hydrocarbons (TPH)		☒	☐	1	GRAB	1664A	4000	ND		ND	
4. Cyanide (CN)	57125	☒	☐	1	GRAB	4500CN-CE	5	ND		ND	
5. Benzene (B)	71432	☒	☐	2	GRAB	8260B	1	ND		ND	
6. Toluene (T)	108883	☒	☐	2	GRAB	8260B	1.5	ND		ND	
7. Ethylbenzene (E)	100414	☒	☐	2	GRAB	8260B	1	ND		ND	
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☒	☐	2	GRAB	8260B	2	ND		ND	
9. Total BTEX [2]	n/a	☒	☐	2	GRAB	8260B	NA	ND		ND	
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	2	GRAB	8260B	4	ND		ND	
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	2	GRAB	8260B	2	ND		ND	
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	2	GRAB	8260B	20	ND		ND	

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

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

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

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
13. tert-Amyl Methyl Ether (TAME)	9940508	☒	☐	2	GRAB	8260B	4	ND		ND	
14. Naphthalene	91203	☒	☐	2	GRAB	8260B	5	ND		ND	
15. Carbon Tetrachloride	56235	☒	☐	2	GRAB	8260B	1	ND		ND	
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	2	GRAB	8260B	5	ND		ND	
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	2	GRAB	8260B	5	ND		ND	
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	2	GRAB	8260B	5	ND		ND	
18a. Total dichlorobenzene		☒	☐	2	GRAB	8260B	NA	ND		ND	
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	2	GRAB	8260B	1.5	ND		ND	
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	2	GRAB	8260B	1	ND		ND	
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	2	GRAB	8260B	1	ND		ND	
22. cis-1,2 Dichloroethene (DCE)	156592	☐	☒	2	GRAB	8260B	1	3.6		3.6	
23. Methylene Chloride	75092	☒	☐	2	GRAB	8260B	6	ND		ND	
24. Tetrachloroethene (PCE)	127184	☒	☐	2	GRAB	8260B	1	ND		ND	
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	2	GRAB	8260B	1	ND		ND	
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	2	GRAB	8260B	1.5	ND		ND	
27. Trichloroethene (TCE)	79016	☐	☒	2	GRAB	8260B	1	21		21	

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	2	GRAB	8260B	2	ND		ND	
29. Acetone	67641	☒	☐	2	GRAB	8260B	10	ND		ND	
30. 1,4 Dioxane	123911	☒	☐	2	GRAB	8260B	500	ND		ND	
31. Total Phenols	108952	☒	☐	1	GRAB	420.1	30	ND		ND	
32. Pentachlorophenol (PCP)	87865	☒	☐	1	GRAB	8270C	10	ND		ND	
33. Total Phthalates (Phthalate esters) [4]		☒	☐	1	GRAB	8270C	NA	ND		ND	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	1	GRAB	8270C	3	ND		ND	
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☐	☐	1	GRAB						
a. Benzo(a) Anthracene	56553	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
b. Benzo(a) Pyrene	50328	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
c. Benzo(b)Fluoranthene	205992	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
d. Benzo(k)Fluoranthene	207089	☒	☐	1	GRAB	8720C-SIM	0.2	ND		ND	
e. Chrysene	21801	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
f. Dibenzo(a,h)anthracene	53703	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☐	☐	1	GRAB						

[4] The sum of individual phthalate compounds.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
h. Acenaphthene	83329	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
i. Acenaphthylene	208968	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
j. Anthracene	120127	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
k. Benzo(ghi) Perylene	191242	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
l. Fluoranthene	206440	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
m. Fluorene	86737	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
n. Naphthalene	91203	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
o. Phenanthrene	85018	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
p. Pyrene	129000	☒	☐	1	GRAB	8270C-SIM	0.2	ND		ND	
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	1	GRAB	608	0.25	ND		ND	
38. Chloride	16887006	☐	☒	1	GRAB	300.0	50000	1500000		1500000	
39. Antimony	7440360	☐	☒	1	GRAB	6020	1	3.1		3.1	
40. Arsenic	7440382	☐	☒	1	GRAB	6020	1	12.9		12.9	
41. Cadmium	7440439	☒	☐	1	GRAB	6020	0.4	ND		ND	
42. Chromium III (trivalent)	16065831	☒	☐	1	GRAB	6020	1	ND		ND	
43. Chromium VI (hexavalent)	18540299	☒	☐	1	GRAB	3500CR-D	10	ND		ND	
44. Copper	7440508	☐	☒	1	GRAB	6020	1	1.0		1.0	
45. Lead	7439921	☐	☒	1	GRAB	6020	1	1.1		1.1	
46. Mercury	7439976	☒	☐	1	GRAB	245.1	0.2	ND		ND	
47. Nickel	7440020	☐	☒	1	GRAB	6020	1	1.5		1.5	
48. Selenium	7782492	☒	☐	1	GRAB	6020	2	ND		ND	
49. Silver	7440224	☒	☐	1	GRAB	6020	0.8	ND		ND	
50. Zinc	7440666	☐	☒	1	GRAB	6020	10	10.1		10.1	
51. Iron	7439896	☐	☒	1	GRAB	200.7	50	100		100	
Other (describe):		☐	☐								

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
EPH		☒	☐	2	Grab	EPA 3510C	100	ND		ND	
VPH		☒	☐	2	Grab	100,VPH-04-1.1	50	ND		ND	

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

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

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

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

See Attached Figure 3

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

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate**(s) (gallons per minute) of the treatment system:
Average flow rate of discharge 15 gpm Maximum flow rate of treatment system 30 gpm
Design flow rate of treatment system 30 gpm

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

NA

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

a) Identify the discharge pathway:	Direct to receiving water_☐__	Within facility (sewer) _☐__	Storm drain_☒__	Wetlands ☐	Other (describe):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

Effluent will be discharged to a storm drain/catch basin located near the site which discharges into the Fort Point Channel at BOS 073

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 SB

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

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y_◉__ N_○__ If yes, for which pollutant(s)?
Fecal coliform; PCB in fish tissue

Is there a final TMDL? Y_○__ N_◉__ If yes, for which pollutant(s)?

6. ESA and NHPA Eligibility.

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

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

A ___ B ___ C ___ D ___ E ___ F ___

b) If you selected Criterion D or F, has consultation with the federal services been completed? Y___ N___ Underway___

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

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

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

1 ___ 2 ___ 3 ___

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

7. Supplemental information.

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

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

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

Facility/Site Name:	Proposed Boston Wharf Tower (319 A Street Rear)
Operator signature:	
Printed Name &Title:	Patrick Wilde
Date:	2-1-12

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:	Proposed Boston Wharf Tower (319 A Street Rear)
Operator signature:	
Printed Name &Title:	Robert Keaffer, Project Executive
Date:	2/6/12

APPENDIX B

Best Management Practices Plan (BMPP)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
REMEDIATION GENERAL PERMIT
TEMPORARY CONSTRUCTION DEWATERING
PROPOSED BOSTON WHARF TOWER
319 A STREET REAR
BOSTON, MASSACHUSETTS

Best Management Practices Plan

A Notice of Intent for a Remediation General Permit (RGP) under the National Pollutant Discharge Elimination System (NPDES) has been submitted to the US Environmental Protection Agency (EPA) in anticipation of temporary construction dewatering planned to occur during the construction of the proposed Boston Wharf Tower located at 319 A Street Rear in Boston, Massachusetts. This Best Management Practices Plan (BMPP) has been prepared as an Appendix to the RGP and will be posted at the site during the time period that temporary construction dewatering is occurring at the site.

Water Treatment and Management

Construction dewatering will be conducted from sumps located inside the excavation. The treatment system will be designed by the Contractor. Prior to discharge, collected water will likely be routed through a sedimentation tank with an oil/water separator component or bag filters, at a minimum, to remove suspended solids and un-dissolved chemical constituents. Supplemental pretreatment is anticipated to be required to meet discharge criteria as shown in the Proposed Treatment System Schematic included in Figure 3. Supplemental pretreatment is anticipated to include Granulated Activated Carbon (GAC). Construction dewatering under this RGP NOI will include piping and discharging to storm drains located near the site. The storm drains travel north and discharge directly into the Charles River.

Discharge Monitoring and Compliance

Regular sampling and testing will be conducted by the Contractor at the treated effluent as required by the RGP. This includes chemical testing required within the first month of discharging, and the monthly testing to be conducted through the end of the scheduled discharge.

Monitoring will include checking the condition of the treatment system, assessing the need for treatment system adjustments based on monitoring data, observing and recording daily flow rates and discharge quantities, and verifying the flow path of the discharged effluent.

The total monthly flow will be monitored by checking and documenting the flow through the flow meter to be installed on the system. Flow will be maintained below the “system design flow” by regularly monitoring flow and adjusting the amount of construction dewatering as needed.

Monthly monitoring reports will be compiled and maintained at the site.

System Maintenance

A number of methods will be used to minimize the potential for violations for the term of this permit. Scheduled regular maintenance of the treatment system will be conducted to verify proper operation. Regular maintenance will include checking the condition of the treatment system equipment such as the fractionization tanks, filters, hoses, pumps, and flow meters. Equipment will be monitored daily for potential issues or unscheduled maintenance requirements.

Employees who have direct or indirect responsibility for ensuring compliance with the RGP will be trained by the Operator.

Miscellaneous Items

Due to the nature of the excavation, erosion control and the nature of the site and surrounding infrastructure, it is not anticipated that there will be any run off into the site from other sources, as well as no run off from the site.

Site security for the treatment system can be covered within the overall site security plan.

No adverse affects of designated water uses of surrounding surface water bodies is anticipated. The Fort Point Channel is the nearest surface water body to the site located approximately 0.2 miles from the construction activities on site. As mentioned earlier, the discharged effluent will be pumped directly to storm drains located near the site.

Management of Treatment System Materials

Groundwater at the site has chlorinated VOCs at concentrations below the applicable MCP RCGW-2 criteria but above the NPDES RGP criteria. Dewatering effluent will be pumped directly to the treatment system from the excavation with use of hoses and sumps to minimize handling. The contractor will establish staging areas on the site for any equipment or materials storage which may be possible sources of pollution away from any dewatering activities.

Sediment from the fractionalization tank used in the treatment system will be characterized and disposed of as soil at an appropriate receiving facility in accordance with applicable laws and regulations. If used, GAC will be likely recycled and/or manifested to the appropriate receiving facility. Bag filters, if used, will be placed in drums and manifested for off-site disposal.

APPENDIX C

Endangered Species Act Documentation

United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
http://www.fws.gov/newengland

January 3, 2011

To Whom It May Concern:

This project was reviewed for the presence of federally-listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

(http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm)

Based on the information currently available, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service (Service) are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required.

This concludes the review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Mr. Anthony Tur of this office at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

MASSACHUSETTS AREAS OF CRITICAL ENVIRONMENTAL CONCERN
November 2010

Total Approximate Acreage: 268,000 acres
Approximate acreage and designation date follow ACEC names below.

Bourne Back River
(1,850 acres, 1989) Bourne

Canoe River Aquifer and Associated Areas (17,200 acres, 1991) Easton, Foxborough, Mansfield, Norton, Sharon, and Taunton

Cedar Swamp
(1,650 acres, 1975) Hopkinton and Westborough

Central Nashua River Valley
(12,900 acres, 1996) Bolton, Harvard, Lancaster, and Leominster

Cranberry Brook Watershed
(1,050 acres, 1983) Braintree and Holbrook

Ellisville Harbor
(600 acres, 1980) Plymouth

Fowl Meadow and Ponkapoag Bog
(8,350 acres, 1992) Boston, Canton, Dedham, Milton, Norwood, Randolph, Sharon, and Westwood

Golden Hills
(500 acres, 1987) Melrose, Saugus, and Wakefield

Great Marsh (originally designated as Parker River/Essex Bay)
(25,500 acres, 1979) Essex, Gloucester, Ipswich, Newbury, and Rowley

Herring River Watershed
(4,450 acres, 1991) Bourne and Plymouth

Hinsdale Flats Watershed
(14,500 acres, 1992) Dalton, Hinsdale, Peru, and Washington

Hockomock Swamp
(16,950 acres, 1990) Bridgewater, Easton, Norton, Raynham, Taunton, and West Bridgewater

Inner Cape Cod Bay
(2,600 acres, 1985) Brewster, Eastham, and Orleans

Kampoosa Bog Drainage Basin
(1,350 acres, 1995) Lee and Stockbridge

Karner Brook Watershed
(7,000 acres, 1992) Egremont and Mount Washington

Miscoe, Warren, and Whitehall Watersheds
(8,700 acres, 2000) Grafton, Hopkinton, and Upton

Neponset River Estuary
(1,300 acres, 1995) Boston, Milton, and Quincy

Petapawag
(25,680 acres, 2002) Ayer, Dunstable, Groton, Pepperell, and Tyngsborough

Pleasant Bay
(9,240 acres, 1987) Brewster, Chatham, Harwich, and Orleans

Pocasset River
(160 acres, 1980) Bourne

Rumney Marshes
(2,800 acres, 1988) Boston, Lynn, Revere, Saugus, and Winthrop

Sandy Neck Barrier Beach System
(9,130 acres, 1978) Barnstable and Sandwich

Schenob Brook Drainage Basin
(13,750 acres, 1990) Mount Washington and Sheffield

Squannassit
(37,420 acres, 2002) Ashby, Ayer, Groton, Harvard, Lancaster, Lunenburg, Pepperell, Shirley, and Townsend

Three Mile River Watershed
(14,280 acres, 2008) Dighton, Norton, Taunton

Upper Housatonic River
(12,280 acres, 2009) Lee, Lenox, Pittsfield, Washington

Waquoit Bay
(2,580 acres, 1979) Falmouth and Mashpee

Weir River
(950 acres, 1986) Cohasset, Hingham, and Hull

Wellfleet Harbor
(12,480 acres, 1989) Eastham, Truro, and Wellfleet

Weymouth Back River
(800 acres, 1982) Hingham and Weymouth

ACEC acreages above are based on MassGIS calculations and may differ from numbers originally presented in designation documents and other ACEC publications due to improvements in accuracy of GIS data and boundary clarifications. Listed acreages have been rounded to the nearest 50 or 10 depending on whether boundary clarification has occurred. For more information please see, http://www.mass.gov/dcr/stewardship/acec/aboutMaps.htm.

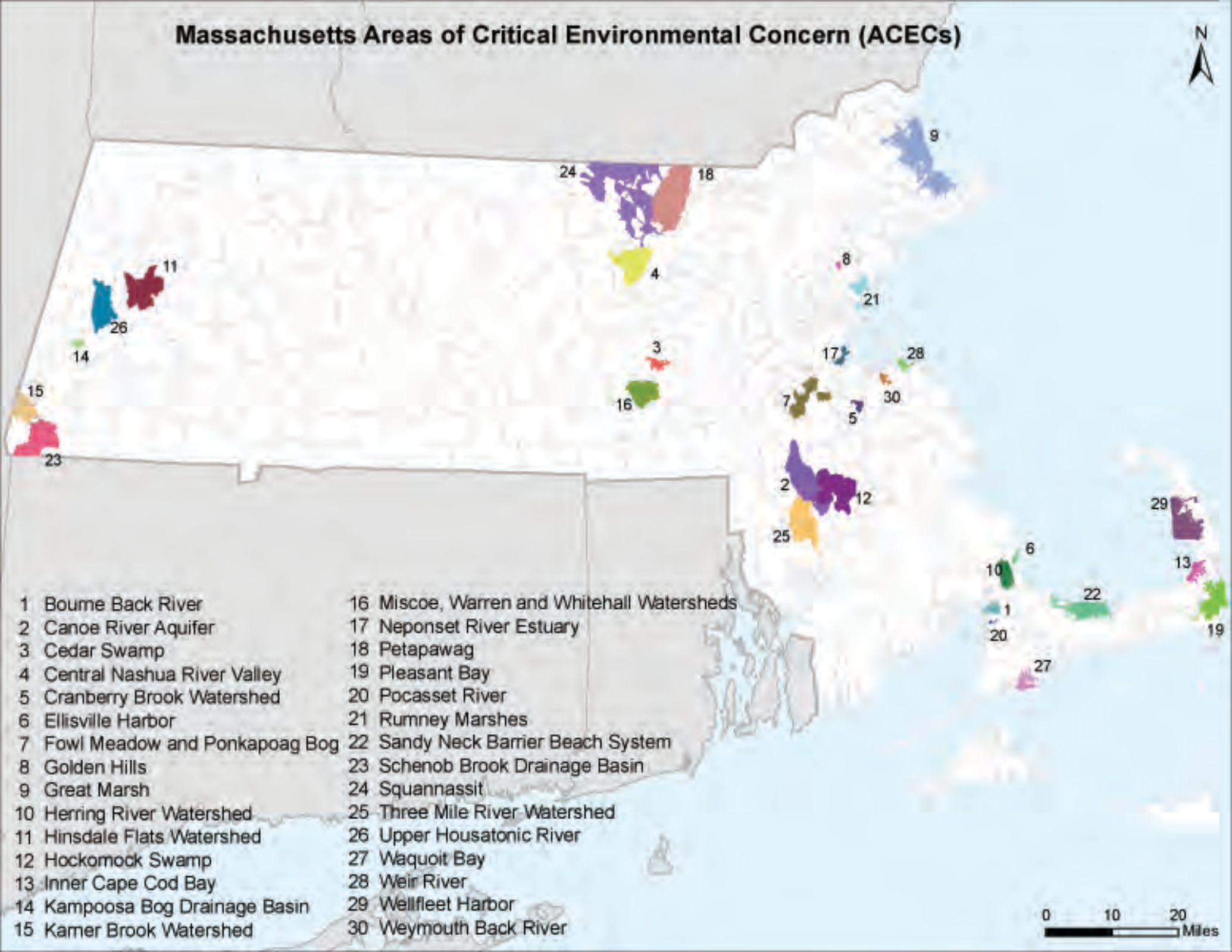
Towns with ACECs within their Boundaries November 2010

TOWN	ACEC
Ashby	Squannassit
Ayer	Petapawag
	Squannassit
Barnstable	Sandy Neck Barrier Beach System
Bolton	Central Nashua River Valley
Boston	Rumney Marshes
	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary
Bourne	Pocasset River
	Bourne Back River
	Herring River Watershed
Braintree	Cranberry Brook Watershed
Brewster	Pleasant Bay
	Inner Cape Cod Bay
Bridgewater	Hockomock Swamp
Canton	Fowl Meadow and Ponkapoag Bog
Chatham	Pleasant Bay
Cohasset	Weir River
Dalton	Hinsdale Flats Watershed
Dedham	Fowl Meadow and Ponkapoag Bog
Dighton	Three Mile River Watershed
Dunstable	Petapawag
Eastham	Inner Cape Cod Bay
	Wellfleet Harbor
Easton	Canoe River Aquifer
	Hockomock Swamp
Egremont	Karner Brook Watershed
Essex	Great Marsh
Falmouth	Waquoit Bay
Foxborough	Canoe River Aquifer
Gloucester	Great Marsh
Grafton	Miscoe-Warren-Whitehall Watersheds
Groton	Petapawag
	Squannassit
Harvard	Central Nashua River Valley
	Squannassit
Harwich	Pleasant Bay
Hingham	Weir River
	Weymouth Back River
Hinsdale	Hinsdale Flats Watershed
Holbrook	Cranberry Brook Watershed
Hopkinton	Miscoe-Warren-Whitehall Watersheds
	Cedar Swamp
Hull	Weir River
Ipswich	Great Marsh
Lancaster	Central Nashua River Valley
	Squannassit
Lee	Kampoosa Bog Drainage Basin
	Upper Housatonic River
Lenox	Upper Housatonic River
Leominster	Central Nashua River Valley
Lunenburg	Squannassit
Lynn	Rumney Marshes
Mansfield	Canoe River Aquifer
Mashpee	Waquoit Bay
Melrose	Golden Hills
Milton	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary

TOWN	ACEC
Mt. Washington	Karner Brook Watershed
	Schenob Brook
Newbury	Great Marsh
Norton	Hockomock Swamp
	Canoe River Aquifer
	Three Mile River Watershed
Norwood	Fowl Meadow and Ponkapoag Bog
Orleans	Inner Cape Cod Bay
	Pleasant Bay
Pepperell	Petapawag
	Squannassit
Peru	Hinsdale Flats Watershed
Pittsfield	Upper Housatonic River
Plymouth	Herring River Watershed
	Ellisville Harbor
Quincy	Neponset River Estuary
Randolph	Fowl Meadow and Ponkapoag Bog
Raynham	Hockomock Swamp
Revere	Rumney Marshes
Rowley	Great Marsh
Sandwich	Sandy Neck Barrier Beach System
Saugus	Rumney Marshes
	Golden Hills
Sharon	Canoe River Aquifer
	Fowl Meadow and Ponkapoag Bog
Sheffield	Schenob Brook
Shirley	Squannassit
Stockbridge	Kampoosa Bog Drainage Basin
Taunton	Hockomock Swamp
	Canoe River Aquifer
	Three Mile River Watershed
Truro	Wellfleet Harbor
Townsend	Squannassit
Tyngsborough	Petapawag
Upton	Miscoe-Warren-Whitehall Watersheds
Wakefield	Golden Hills
Washington	Hinsdale Flats Watershed
	Upper Housatonic River
Wellfleet	Wellfleet Harbor
W Bridgewater	Hockomock Swamp
Westborough	Cedar Swamp
Westwood	Fowl Meadow and Ponkapoag Bog
Weymouth	Weymouth Back River
Winthrop	Rumney Marshes

.

Massachusetts Areas of Critical Environmental Concern (ACECs)



1 Bourne Back River
2 Canoe River Aquifer
3 Cedar Swamp
4 Central Nashua River Valley
5 Cranberry Brook Watershed
6 Ellisville Harbor
7 Fowl Meadow and Ponkapoag Bog
8 Golden Hills
9 Great Marsh
10 Herring River Watershed
11 Hinsdale Flats Watershed
12 Hockomock Swamp
13 Inner Cape Cod Bay
14 Kampoosa Bog Drainage Basin
15 Karner Brook Watershed
16 Miscoe, Warren and Whitehall Watersheds
17 Neponset River Estuary
18 Petapawag
19 Pleasant Bay
20 Pocasset River
21 Rumney Marshes
22 Sandy Neck Barrier Beach System
23 Schenob Brook Drainage Basin
24 Squannassit
25 Three Mile River Watershed
26 Upper Housatonic River
27 Waquoit Bay
28 Weir River
29 Wellfleet Harbor
30 Weymouth Back River

MassDEP - Bureau of Waste Site Cleanup

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

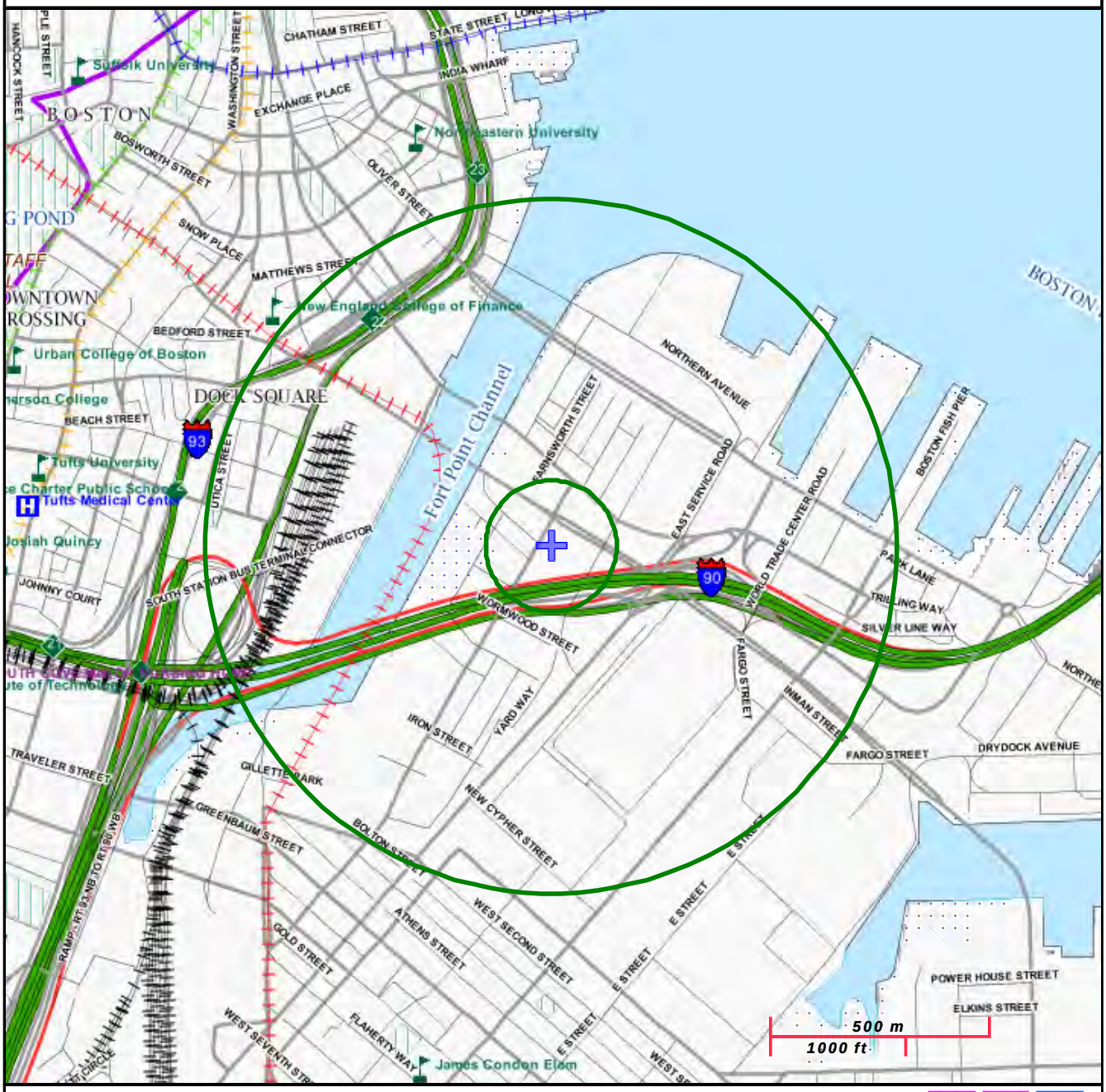
THE BOSTON WHARF TOWER (319 A STREET REAR)
319 A STREET BOSTON, MA

NAD83 UTM Meters:
4690561mN , 331230mE (Zone: 19)

January 18, 2012

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately repsponsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: http://www.mass.gov/mgis/.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam
Aquifers: Medium Yield, High Yield, EPA Sole Source
Non Potential Drinking Water Source Area: Medium, High (Yield)
PWS Protection Areas: Zone II, IWPA, Zone A
Hydrography: Open Water, PWS Reservoir, Tidal Flat
Wetlands: Freshwater, Saltwater, Cranberry Bog
FEMA 100yr Floodplain; Protected Open Space; ACEC
Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential
Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES IN MASSACHUSETTS

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Bourne (north of the Cape Cod Canal)
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Taunton
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Gloucester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague
	Dwarf wedgemussel	Endangered	Mill River	Whately
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hadley, Hatfield, Amherst and Northampton
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoisett
	Northern Red-bellied Cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, Wareham, Halifax, and Pembroke
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, Wareham, and Mattapoisett.
Suffolk	Piping Plover	Threatened	Coastal Beaches	Winthrop
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Leominster

-Eastern cougar and gray wolf are considered extirpated in Massachusetts.
-Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.
-Critical habitat for the Northern Red-bellied Cooter is present in Plymouth County.

Revised 06/22/2009

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Rare Species by Town

MESA (Massachusetts Endangered Species Act) and Federal Status

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E = Endangered T = Threatened SC = Special Concern

Most Recent Observation

This field represents the most recent observation of that species in a town. However, because they are rare, many MESA-listed species are difficult to detect even when they are present. Natural Heritage does not have the resources to be able to conduct methodical species surveys in each town on a regular basis. Therefore, the fact that the 'Most Recent Observation' recorded for a species may be several years old should not be interpreted as meaning that the species no longer occurs in a town. However, Natural Heritage regards records older than twenty-five years historic.

Click on a town below to view MESA-listed species for that town. To print the species for a particular town, highlight the species using your mouse, go to Print under the File Menu, click on 'Selection' under 'Print Range' and click OK.

For more information about a particular species, view the list of Natural Heritage Fact Sheets.

These data were extracted from the database of the Natural Heritage and Endangered Species Program in September 2009.

Barnstable | Barre | Becket | Bedford | Belchertown | Bellingham | Belmont | Berkley | Berlin | Bernardston | Beverly | Billerica | Blackstone | Blandford | Bolton | Boston | Bourne | Boxborough | Boxford | Boylston | Braintree | Brewster | Bridgewater | Brimfield | Brockton | Brookfield | Brookline | Buckland | Burlington

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BARNSTABLE	Amphibian	Scaphiopus holbrookii	Eastern Spadefoot	T		2009
BARNSTABLE	Bird	Ammodramus savannarum	Grasshopper Sparrow	T		1993
BARNSTABLE	Bird	Asio flammeus	Short-eared Owl	E		Historic
BARNSTABLE	Bird	Asio otus	Long-eared Owl	SC		1978
BARNSTABLE	Bird	Charadrius melodus	Piping Plover	T	T	2006
BARNSTABLE	Bird	Parula americana	Northern Parula	T		1989
BARNSTABLE	Bird	Sterna dougallii	Roseate Tern	E	E	2008

BARNSTABLE	Bird	Sterna hirundo	Common Tern	SC	2008
BARNSTABLE	Bird	Sterna paradisaea	Arctic Tern	SC	1901
BARNSTABLE	Bird	Sternula antillarum	Least Tern	SC	2007
BARNSTABLE	Butterfly/Moth	Abagrotis nefascia	Coastal Heathland Cutworm	SC	1982
BARNSTABLE	Butterfly/Moth	Bagisara rectifascia	Straight Lined Mallow Moth	SC	1951
BARNSTABLE	Butterfly/Moth	Cingilia catenaria	Chain Dot Geometer	SC	1954
BARNSTABLE	Butterfly/Moth	Hemileuca maia	Barrens Buckmoth	SC	1994
BARNSTABLE	Butterfly/Moth	Itame sp. 1 nr. inextricata	Pine Barrens Itame	SC	1968
BARNSTABLE	Butterfly/Moth	Papaipema stenocelis	Chain Fern Borer Moth	T	1950
BARNSTABLE	Butterfly/Moth	Papaipema sulphurata	Water-willow Stem Borer	T	2004
BARNSTABLE	Butterfly/Moth	Pieris oleracea	Mustard White	T	1949
BARNSTABLE	Butterfly/Moth	Satyrium favonius	Oak Hairstreak	SC	1982
BARNSTABLE	Butterfly/Moth	Zale sp. 1 nr. lunifera	Pine Barrens Zale	SC	1951
BARNSTABLE	Crustacean	Eulimnadia agassizii	Agassiz's Clam Shrimp	E	2009
BARNSTABLE	Dragonfly/Damselfly	Anax longipes	Comet Darner	SC	2004
BARNSTABLE	Dragonfly/Damselfly	Enallagma carunculatum	Tule Bluet	SC	1941
BARNSTABLE	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC	1989
BARNSTABLE	Dragonfly/Damselfly	Enallagma pictum	Scarlet Bluet	T	2005
BARNSTABLE	Dragonfly/Damselfly	Enallagma recurvatum	Pine Barrens Bluet	T	2004
BARNSTABLE	Fish	Notropis bifrenatus	Bridle Shiner	SC	1993
BARNSTABLE	Mussel	Alasmidonta undulata	Triangle Floater	SC	2007
BARNSTABLE	Mussel	Leptodea ochracea	Tidewater Mucket	SC	2007
BARNSTABLE	Mussel	Ligumia nasuta	Eastern Pondmussel	SC	2007
BARNSTABLE	Reptile	Malaclemys terrapin	Diamond-backed Terrapin	T	2007
BARNSTABLE	Reptile	Terrapene carolina	Eastern Box Turtle	SC	2007
BARNSTABLE	Snail	Ferrissia walkeri	Walker's Limpet	SC	2006
BARNSTABLE	Vascular Plant	Amelanchier nantucketensis	Nantucket Shadbush	SC	1993
BARNSTABLE	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T	1916
BARNSTABLE	Vascular Plant	Carex mitchelliana	Mitchell's Sedge	T	1988
BARNSTABLE	Vascular Plant	Corema conradii	Broom Crowberry	SC	1916
BARNSTABLE	Vascular Plant	Crocanthemum dumosum	Bushy Rockrose	SC	1999

BARNSTABLE	Vascular Plant	Dichanthelium ovale ssp. pseudopubescens	Commons's Panic-grass	SC	1986
BARNSTABLE	Vascular Plant	Dichanthelium wrightianum	Wright's Panic-grass	SC	2004
BARNSTABLE	Vascular Plant	Lachnanthes caroliana	Redroot	SC	2004
BARNSTABLE	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC	2006
BARNSTABLE	Vascular Plant	Linum intercursum	Sandplain Flax	SC	1989
BARNSTABLE	Vascular Plant	Linum medium var. texanum	Rigid Flax	T	1983
BARNSTABLE	Vascular Plant	Lipocarpha micrantha	Dwarf Bulrush	T	1898
BARNSTABLE	Vascular Plant	Listera cordata	Heartleaf Twayblade	E	1916
BARNSTABLE	Vascular Plant	Malaxis bayardii	Bayard's Green Adder's-mouth	E	1989
BARNSTABLE	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T	1960s
BARNSTABLE	Vascular Plant	Panicum philadelphicum ssp. philadelphicum	Philadelphia Panic-grass	SC	1989
BARNSTABLE	Vascular Plant	Polygonum puritanorum	Pondshore Knotweed	SC	2003
BARNSTABLE	Vascular Plant	Rhexia mariana	Maryland Meadow Beauty	E	1967
BARNSTABLE	Vascular Plant	Rhynchospora nitens	Short-beaked Bald-sedge	T	2002
BARNSTABLE	Vascular Plant	Rhynchospora scirpoides	Long-beaked Bald-sedge	SC	1995
BARNSTABLE	Vascular Plant	Rhynchospora torreyana	Torrey's Beak-sedge	E	2007
BARNSTABLE	Vascular Plant	Sabatia campanulata	Slender Marsh Pink	E	2008
BARNSTABLE	Vascular Plant	Sabatia kennedyana	Plymouth Gentian	SC	2008
BARNSTABLE	Vascular Plant	Sagittaria teres	Terete Arrowhead	SC	2004
BARNSTABLE	Vascular Plant	Scleria pauciflora	Papillose Nut Sedge	E	1986
BARNSTABLE	Vascular Plant	Setaria parviflora	Bristly Foxtail	SC	1919
BARNSTABLE	Vascular Plant	Sphenopholis pensylvanica	Swamp Oats	T	1988
BARNSTABLE	Vascular Plant	Spiranthes vernalis	Grass-leaved Ladies'-tresses	T	1986
BARNSTABLE	Vascular Plant	Tipularia discolor	Cranefly Orchid	E	1983
BARNSTABLE	Vascular Plant	Utricularia subulata	Subulate Bladderwort	SC	1918

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BARRE	Beetle	Cicindela duodecimguttata	Twelve-spotted Tiger Beetle	SC		2007

BARRE	Bird	Botaurus lentiginosus	American Bittern	E		1930
BARRE	Bird	Ixobrychus exilis	Least Bittern	E		2005
BARRE	Butterfly/Moth	Psectraglaea carnosa	Pink Sallow	SC		2007
BARRE	Dragonfly/Damselfly	Neurocordulia yamaskanensis	Stygian Shadowdragon	SC		2004
BARRE	Fish	Notropis bifrenatus	Bridle Shiner	SC		2005
BARRE	Mussel	Alasmidonta undulata	Triangle Floater	SC		1999
BARRE	Mussel	Strophitus undulatus	Creeper	SC		1999
BARRE	Reptile	Glyptemys insculpta	Wood Turtle	SC		2006
BARRE	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2005
BARRE	Vascular Plant	Asclepias purpurascens	Purple Milkweed	E		1865
BARRE	Vascular Plant	Clematis occidentalis	Purple Clematis	SC		2008
BARRE	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		1950
BARRE	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1870
BARRE	Vascular Plant	Viola adunca	Sand Violet	SC		2006

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BECKET	Bird	Botaurus lentiginosus	American Bittern	E		1991
BECKET	Butterfly/Moth	Erora laeta	Early Hairstreak	T		2005
BECKET	Dragonfly/Damselfly	Boyeria grafiana	Ocellated Darner	SC		2004
BECKET	Dragonfly/Damselfly	Somatochlora forcipata	Forcipate Emerald	SC		1973
BECKET	Fish	Catostomus catostomus	Longnose Sucker	SC		1979
BECKET	Fish	Notropis bifrenatus	Bridle Shiner	SC		1994
BECKET	Reptile	Glyptemys insculpta	Wood Turtle	SC		2006
BECKET	Vascular Plant	Arceuthobium pusillum	Dwarf Mistletoe	SC		1904
BECKET	Vascular Plant	Carex livida	Glaucous Sedge	E		Historic
BECKET	Vascular Plant	Carex pauciflora	Few-flowered Sedge	E		Historic
BECKET	Vascular Plant	Lygodium palmatum	Climbing Fern	SC		Historic
BECKET	Vascular Plant	Sisyrinchium mucronatum	Slender Blue-eyed Grass	E		2001

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BEDFORD	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2009
BEDFORD	Bird	Accipiter striatus	Sharp-shinned Hawk	SC		1902
BEDFORD	Bird	Bartramia longicauda	Upland Sandpiper	E		2000
BEDFORD	Fish	Notropis bifrenatus	Bridle Shiner	SC		1998
BEDFORD	Reptile	Emydoidea blandingii	Blanding's Turtle	T		2008
BEDFORD	Reptile	Glyptemys insculpta	Wood Turtle	SC		1995
BEDFORD	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2004
BEDFORD	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T		1884

BEDFORD	Vascular Plant	Bolboschoenus fluviatilis	River Bulrush	SC		2002
BEDFORD	Vascular Plant	Carex oligosperma	Few-fruited Sedge	E		2007
BEDFORD	Vascular Plant	Gentiana andrewsii	Andrews' Bottle Gentian	E		1882
BEDFORD	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		1899
BEDFORD	Vascular Plant	Ludwigia sphaerocarpa	Round-fruited False-loosestrife	E		1885
BEDFORD	Vascular Plant	Nabalus serpentarius	Lion's Foot	E		1883
BEDFORD	Vascular Plant	Nuphar microphylla	Tiny Cow-lily	E		1883
BEDFORD	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1900
BEDFORD	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T		1888
BEDFORD	Vascular Plant	Scirpus longii	Long's Bulrush	T		2007
BEDFORD	Vascular Plant	Senna hebecarpa	Wild Senna	E		1883
BEDFORD	Vascular Plant	Viola brittoniana	Britton's Violet	T		2007

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BELCHERTOWN	Amphibian	Ambystoma opacum	Marbled Salamander	T		2006
BELCHERTOWN	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		1941
BELCHERTOWN	Bird	Botaurus lentiginosus	American Bittern	E		2008
BELCHERTOWN	Bird	Gallinula chloropus	Common Moorhen	SC		1932
BELCHERTOWN	Bird	Haliaeetus leucocephalus	Bald Eagle	E		2008
BELCHERTOWN	Bird	Ixobrychus exilis	Least Bittern	E		2007
BELCHERTOWN	Bird	Podilymbus podiceps	Pied-billed Grebe	E		1932
BELCHERTOWN	Bird	Tyto alba	Barn Owl	SC		1951
BELCHERTOWN	Crustacean	Eubranchipus intricatus	Intricate Fairy Shrimp	SC		1970s
BELCHERTOWN	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		2008
BELCHERTOWN	Fish	Notropis bifrenatus	Bridle Shiner	SC		1998
BELCHERTOWN	Mammal	Synaptomys cooperi	Southern Bog Lemming	SC		1974
BELCHERTOWN	Reptile	Glyptemys insculpta	Wood Turtle	SC		2007
BELCHERTOWN	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2006
BELCHERTOWN	Vascular Plant	Acer nigrum	Black Maple	SC		1891
BELCHERTOWN	Vascular Plant	Asclepias purpurascens	Purple Milkweed	E		1875
BELCHERTOWN	Vascular Plant	Blephilia ciliata	Downy Wood-mint	E		1891
BELCHERTOWN	Vascular Plant	Lygodium palmatum	Climbing Fern	SC		2000

BELCHERTOWN	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1883
BELCHERTOWN	Vascular Plant	Podostemum ceratophyllum	Threadfoot	SC		1925
BELCHERTOWN	Vascular Plant	Ranunculus pensylvanicus	Bristly Buttercup	SC		1871
BELCHERTOWN	Vascular Plant	Scheuchzeria palustris	Pod-grass	E		1872
BELCHERTOWN	Vascular Plant	Utricularia resupinata	Resupinate Bladderwort	T		1873

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BELLINGHAM	Amphibian	Ambystoma opacum	Marbled Salamander	T		2007
BELLINGHAM	Fish	Lampetra appendix	American Brook Lamprey	T		2001
BELLINGHAM	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T		1894
BELLINGHAM	Vascular Plant	Goodyera repens	Dwarf Rattlesnake-plantain	E		1886
BELLINGHAM	Vascular Plant	Panicum philadelphicum ssp. philadelphicum	Philadelphia Panic-grass	SC		1986

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BELMONT	Amphibian	Ambystoma jeffersonianum	Jefferson Salamander	SC		1800s
BELMONT	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		Historic
BELMONT	Bird	Tyto alba	Barn Owl	SC		1952
BELMONT	Bird	Gallinula chloropus	Common Moorhen	SC		Historic
BELMONT	Bird	Cistothorus platensis	Sedge Wren	E		1868
BELMONT	Dragonfly/Damselfly	Somatochlora linearis	Mocha Emerald	SC		2005
BELMONT	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T		1852
BELMONT	Vascular Plant	Carex gracilescens	Slender Woodland Sedge	E		1932

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BERKLEY	Beetle	Cicindela duodecimguttata	Twelve-spotted Tiger Beetle	SC		1913
BERKLEY	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		1912
BERKLEY	Reptile	Glyptemys insculpta	Wood Turtle	SC		1991
BERKLEY	Reptile	Malaclemys terrapin	Diamond-backed Terrapin	T		1982
BERKLEY	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2007
BERKLEY	Vascular Plant	Bidens eatonii	Eaton's Beggar-ticks	E		1923

BERKLEY	Vascular Plant	Cardamine longii	Long's Bitter-cress	E		1997
BERKLEY	Vascular Plant	Carex polymorpha	Variable Sedge	E		1908

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BERLIN	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		1800s
BERLIN	Amphibian	Ambystoma opacum	Marbled Salamander	T		2000
BERLIN	Bird	Accipiter striatus	Sharp-shinned Hawk	SC		1936
BERLIN	Bird	Ammodramus henslowii	Henslow's Sparrow	E		Historic
BERLIN	Mussel	Alasmidonta varicosa	Brook Floater (Swollen Wedgemussel)	E		1859
BERLIN	Reptile	Glyptemys insculpta	Wood Turtle	SC		1993
BERLIN	Reptile	Terrapene carolina	Eastern Box Turtle	SC		1991
BERLIN	Vascular Plant	Asclepias purpurascens	Purple Milkweed	E		1915
BERLIN	Vascular Plant	Panicum philadelphicum ssp. philadelphicum	Philadelphia Panic-grass	SC		1944

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BERNARDSTON	Butterfly/Moth	Erora laeta	Early Hairstreak	T		1988
BERNARDSTON	Vascular Plant	Actaea racemosa	Black Cohosh	E		1998

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BEVERLY	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		1925
BEVERLY	Bird	Vermivora chrysoptera	Golden-winged Warbler	E		1987
BEVERLY	Vascular Plant	Magnolia virginiana	Sweetbay Magnolia	E		1995
BEVERLY	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1874
BEVERLY	Vascular Plant	Potamogeton vaseyi	Vasey's Pondweed	E		1878
BEVERLY	Vascular Plant	Suaeda calceoliformis	American Sea-blite	SC		1902

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BILLERICA	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2008
BILLERICA	Fish	Notropis bifrenatus	Bridle Shiner	SC		1961
BILLERICA	Reptile	Emydoidea blandingii	Blanding's Turtle	T		1992
BILLERICA	Vascular Plant	Liatris scariosa var. novae -angliae	New England Blazing Star	SC		1917
BILLERICA	Vascular Plant	Ludwigia sphaerocarpa	Round-fruited False-loosestrife	E		1889
BILLERICA	Vascular Plant	Nabalus serpentarius	Lion's Foot	E		1871

BILLERICA	Vascular Plant	Nuphar microphylla	Tiny Cow-lily	E		1869
BILLERICA	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1900
BILLERICA	Vascular Plant	Viola brittoniana	Britton's Violet	T		1915

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BLACKSTONE	Fish	Lampetra appendix	American Brook Lamprey	T		2001
BLACKSTONE	Mussel	Alasmidonta undulata	Triangle Floater	SC		1999
BLACKSTONE	Mussel	Strophitus undulatus	Creeper	SC		1999

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BLANDFORD	Bird	Bartramia longicauda	Upland Sandpiper	E		Historic
BLANDFORD	Bird	Botaurus lentiginosus	American Bittern	E		2005
BLANDFORD	Bird	Circus cyaneus	Northern Harrier	T		1923
BLANDFORD	Bird	Cistothorus platensis	Sedge Wren	E		1982
BLANDFORD	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		2008
BLANDFORD	Reptile	Glyptemys insculpta	Wood Turtle	SC		1995
BLANDFORD	Vascular Plant	Rhododendron maximum	Great Laurel	T		1946
BLANDFORD	Vascular Plant	Sisyrinchium mucronatum	Slender Blue-eyed Grass	E		1919

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BOLTON	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2006
BOLTON	Amphibian	Ambystoma opacum	Marbled Salamander	T		2008
BOLTON	Beetle	Cicindela duodecimguttata	Twelve-spotted Tiger Beetle	SC		2007
BOLTON	Bird	Botaurus lentiginosus	American Bittern	E		1990
BOLTON	Bird	Ixobrychus exilis	Least Bittern	E		1985
BOLTON	Bird	Podilymbus podiceps	Pied-billed Grebe	E		1984
BOLTON	Bird	Rallus elegans	King Rail	T		1999
BOLTON	Reptile	Emydoidea blandingii	Blanding's Turtle	T		2009
BOLTON	Reptile	Glyptemys insculpta	Wood Turtle	SC		1999
BOLTON	Reptile	Terrapene carolina	Eastern Box Turtle	SC		1989
BOLTON	Vascular Plant	Carex typhina	Cat-tail Sedge	T		1999
BOLTON	Vascular Plant	Corallorhiza odontorhiza	Autumn Coralroot	SC		2006

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BOSTON	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2003
BOSTON	Amphibian	Scaphiopus holbrookii	Eastern Spadefoot	T		1932
BOSTON	Beetle	Cicindela duodecimguttata	Twelve-spotted Tiger Beetle	SC		1910
BOSTON	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		1928
BOSTON	Beetle	Cicindela rufiventris hentzii	Hentz's Redbelly Tiger Beetle	T		1927
BOSTON	Bird	Accipiter striatus	Sharp-shinned Hawk	SC		1898
BOSTON	Bird	Ammodramus savannarum	Grasshopper Sparrow	T		1993
BOSTON	Bird	Bartramia longicauda	Upland Sandpiper	E		1993
BOSTON	Bird	Falco peregrinus	Peregrine Falcon	E		2007
BOSTON	Bird	Gavia immer	Common Loon	SC		1824
BOSTON	Bird	Pooecetes gramineus	Vesper Sparrow	T		1985
BOSTON	Bird	Sterna hirundo	Common Tern	SC		2008
BOSTON	Bird	Sternula antillarum	Least Tern	SC		2007
BOSTON	Bird	Tyto alba	Barn Owl	SC		1989
BOSTON	Bird	Vermivora chrysoptera	Golden-winged Warbler	E		Historic
BOSTON	Butterfly/Moth	Apodrepanulatrix liberaria	New Jersey Tea Inchworm	E		Historic
BOSTON	Butterfly/Moth	Abagrotis nefascia	Coastal Heathland Cutworm	SC		2001
BOSTON	Butterfly/Moth	Metarranthis apiciaria	Barrens Metarranthis Moth	E		1934
BOSTON	Butterfly/Moth	Rhodoecia aurantiago	Orange Sallow Moth	T		1988
BOSTON	Dragonfly/Damselfly	Somatochlora linearis	Mocha Emerald	SC		2009
BOSTON	Fish	Gasterosteus aculeatus	Threespine Stickleback	T		2000
BOSTON	Mussel	Alasmidonta undulata	Triangle Floater	SC		2005
BOSTON	Mussel	Ligumia nasuta	Eastern Pondmussel	SC		1841
BOSTON	Reptile	Terrapene carolina	Eastern Box Turtle	SC		1939
BOSTON	Vascular Plant	Ageratina aromatica	Lesser Snakeroot	E		1896
BOSTON	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T		1800s
BOSTON	Vascular Plant	Aristida tuberculosa	Seabeach Needlegrass	T		1877
BOSTON	Vascular Plant	Asclepias verticillata	Linear-leaved Milkweed	T		1878
BOSTON	Vascular Plant	Boechera missouriensis	Green Rock-cress	T		1930
BOSTON	Vascular Plant	Carex striata	Walter's Sedge	E		Historic
BOSTON	Vascular Plant	Desmodium cuspidatum	Large-bracted Tick-trefoil	T		1896
BOSTON	Vascular Plant	Eriophorum gracile	Slender Cottongrass	T		1885

BOSTON	Vascular Plant	Houstonia longifolia	Long-leaved Bluet	E		1918
BOSTON	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		1933
BOSTON	Vascular Plant	Linum medium var. texanum	Rigid Flax	T		1909
BOSTON	Vascular Plant	Lycopus rubellus	Gypsywort	E		1896
BOSTON	Vascular Plant	Myriophyllum alterniflorum	Alternate-flowered Water-milfoil	E		Historic
BOSTON	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1884
BOSTON	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T		1908
BOSTON	Vascular Plant	Ranunculus micranthus	Tiny-flowered Buttercup	E		1891
BOSTON	Vascular Plant	Rumex pallidus	Seabeach Dock	T		1984
BOSTON	Vascular Plant	Sanicula odorata	Long-styled Sanicle	T		Historic
BOSTON	Vascular Plant	Scirpus longii	Long's Bulrush	T		1907
BOSTON	Vascular Plant	Setaria parviflora	Bristly Foxtail	SC		2001
BOSTON	Vascular Plant	Suaeda calceoliformis	American Sea-blite	SC		1909
BOSTON	Vascular Plant	Viola brittoniana	Britton's Violet	T		1909

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BOURNE	Amphibian	Ambystoma opacum	Marbled Salamander	T		1936
BOURNE	Amphibian	Scaphiopus holbrookii	Eastern Spadefoot	T		2003
BOURNE	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		1935
BOURNE	Bird	Accipiter striatus	Sharp-shinned Hawk	SC		2001
BOURNE	Bird	Ammodramus savannarum	Grasshopper Sparrow	T		2007
BOURNE	Bird	Charadrius melodus	Piping Plover	T	T	2006
BOURNE	Bird	Circus cyaneus	Northern Harrier	T		2007
BOURNE	Bird	Pooecetes gramineus	Vesper Sparrow	T		2006
BOURNE	Bird	Sterna dougallii	Roseate Tern	E	E	2008
BOURNE	Bird	Sterna hirundo	Common Tern	SC		2008
BOURNE	Bird	Sternula antillarum	Least Tern	SC		2007
BOURNE	Bird	Tyto alba	Barn Owl	SC		1974
BOURNE	Butterfly/Moth	Abagrotis nefascia	Coastal Heathland Cutworm	SC		1996
BOURNE	Butterfly/Moth	Acronicta albarufa	Barrens Daggermoth	T		1998
BOURNE	Butterfly/Moth	Bagisara rectifascia	Straight Lined Mallow Moth	SC		1998
BOURNE	Butterfly/Moth	Catocala herodias gerhardi	Gerhard's Underwing Moth	SC		1999
BOURNE	Butterfly/Moth	Cicinnus melsheimeri	Melsheimer's Sack Bearer	T		1998
BOURNE	Butterfly/Moth	Cingilia catenaria	Chain Dot Geometer	SC		2006
BOURNE	Butterfly/Moth	Hemileuca maia	Barrens Buckmoth	SC		2006
BOURNE	Butterfly/Moth	Itame sp. 1 nr. inextricata	Pine Barrens Itame	SC		1998

BOURNE	Butterfly/Moth	Metarranthis pilosaria	Coastal Swamp Metarranthis Moth	SC		1998
BOURNE	Butterfly/Moth	Papaipema sulphurata	Water-willow Stem Borer	T		1994
BOURNE	Butterfly/Moth	Zale sp. 1 nr. lunifera	Pine Barrens Zale	SC		1997
BOURNE	Dragonfly/Damselfly	Anax longipes	Comet Darner	SC		2007
BOURNE	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		2004
BOURNE	Dragonfly/Damselfly	Enallagma recurvatum	Pine Barrens Bluet	T		1998
BOURNE	Dragonfly/Damselfly	Rhionaeschna mutata	Spatterdock Darner	SC		2007
BOURNE	Fish	Notropis bifrenatus	Bridle Shiner	SC		1993
BOURNE	Mussel	Leptodea ochracea	Tidewater Mucket	SC		1996
BOURNE	Mussel	Ligumia nasuta	Eastern Pondmussel	SC		1997
BOURNE	Reptile	Malaclemys terrapin	Diamond-backed Terrapin	T		2004
BOURNE	Reptile	Pseudemys rubriventris pop. 1	Northern Red-bellied Cooter	E	E	2003
BOURNE	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2009
BOURNE	Vascular Plant	Aristida purpurascens	Purple Needlegrass	T		1901
BOURNE	Vascular Plant	Asclepias verticillata	Linear-leaved Milkweed	T		1915
BOURNE	Vascular Plant	Crocanthemum dumosum	Bushy Rockrose	SC		2000
BOURNE	Vascular Plant	Eleocharis ovata	Ovate Spike-sedge	E		1992
BOURNE	Vascular Plant	Hypericum adpressum	Creeping St. John's-wort	T		2007
BOURNE	Vascular Plant	Juncus debilis	Weak Rush	E		1993
BOURNE	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		2005
BOURNE	Vascular Plant	Lygodium palmatum	Climbing Fern	SC		1992
BOURNE	Vascular Plant	Malaxis bayardii	Bayard's Green Adder's-mouth	E		1919
BOURNE	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		2006
BOURNE	Vascular Plant	Polygonum glaucum	Sea-beach Knotweed	SC		1913
BOURNE	Vascular Plant	Polygonum puritanorum	Pondshore Knotweed	SC		1994
BOURNE	Vascular Plant	Rhynchospora scirpoides	Long-beaked Bald-sedge	SC		1986
BOURNE	Vascular Plant	Sabatia kennedyana	Plymouth Gentian	SC		1996
BOURNE	Vascular Plant	Sagittaria teres	Terete Arrowhead	SC		1994
BOURNE	Vascular Plant	Setaria parviflora	Bristly Foxtail	SC		1913
BOURNE	Vascular Plant	Spiranthes vernalis	Grass-leaved Ladies'-tresses	T		1896
BOURNE	Vascular Plant	Suaeda calceoliformis	American Sea-blite	SC		1995
BOURNE	Vascular Plant	Triosteum perfoliatum	Broad Tinker's-weed	E		2004

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation

BOXBOROUGH	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2007
BOXBOROUGH	Reptile	Emydoidea blandingii	Blanding's Turtle	T		2003
BOXBOROUGH	Reptile	Glyptemys insculpta	Wood Turtle	SC		2002
BOXBOROUGH	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2001

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BOXFORD	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2008
BOXFORD	Amphibian	Ambystoma opacum	Marbled Salamander	T		1983
BOXFORD	Bird	Tyto alba	Barn Owl	SC		1957
BOXFORD	Fish	Notropis bifrenatus	Bridle Shiner	SC		1999
BOXFORD	Mussel	Ligumia nasuta	Eastern Pondmussel	SC		Historic
BOXFORD	Reptile	Emydoidea blandingii	Blanding's Turtle	T		2008
BOXFORD	Reptile	Glyptemys insculpta	Wood Turtle	SC		2000
BOXFORD	Vascular Plant	Asclepias purpurascens	Purple Milkweed	E		1883
BOXFORD	Vascular Plant	Carex livida	Glaucous Sedge	E		1890
BOXFORD	Vascular Plant	Eriophorum gracile	Slender Cottongrass	T		1909
BOXFORD	Vascular Plant	Gentiana andrewsii	Andrews' Bottle Gentian	E		1881
BOXFORD	Vascular Plant	Houstonia longifolia	Long-leaved Bluet	E		1882
BOXFORD	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		2004
BOXFORD	Vascular Plant	Myriophyllum alterniflorum	Alternate-flowered Water-milfoil	E		2004
BOXFORD	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1905
BOXFORD	Vascular Plant	Panicum philadelphicum ssp. philadelphicum	Philadelphia Panic-grass	SC		1953
BOXFORD	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T		1881
BOXFORD	Vascular Plant	Potamogeton vaseyi	Vasey's Pondweed	E		2004
BOXFORD	Vascular Plant	Senna hebecarpa	Wild Senna	E		1882
BOXFORD	Vascular Plant	Sparganium natans	Small Bur-reed	E		1997
BOXFORD	Vascular Plant	Viola adunca	Sand Violet	SC		2004

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BOYLSTON	Amphibian	Ambystoma opacum	Marbled Salamander	T		1995
BOYLSTON	Bird	Gavia immer	Common Loon	SC		2008
BOYLSTON	Bird	Haliaeetus leucocephalus	Bald Eagle	E		2009
BOYLSTON	Bird	Podilymbus podiceps	Pied-billed Grebe	E		1978
BOYLSTON	Butterfly/Moth	Rhodoecia aurantiago	Orange Sallow Moth	T		2008
BOYLSTON	Fish	Notropis bifrenatus	Bridle Shiner	SC		1951
BOYLSTON	Reptile	Glyptemys insculpta	Wood Turtle	SC		1983

BOYLSTON	Vascular Plant	Hydrophyllum canadense	Broad Waterleaf	E		1943
BOYLSTON	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		1932
BOYLSTON	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		2000

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BRAINTREE	Dragonfly/Damselfly	Anax longipes	Comet Darner	SC		1970
BRAINTREE	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		1969
BRAINTREE	Dragonfly/Damselfly	Somatochlora linearis	Mocha Emerald	SC		1989
BRAINTREE	Mussel	Ligumia nasuta	Eastern Pondmussel	SC		2000
BRAINTREE	Reptile	Terrapene carolina	Eastern Box Turtle	SC		1997
BRAINTREE	Vascular Plant	Asclepias purpurascens	Purple Milkweed	E		1922
BRAINTREE	Vascular Plant	Houstonia longifolia	Long-leaved Bluet	E		1886

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BREWSTER	Bird	Charadrius melodus	Piping Plover	T	T	2006
BREWSTER	Bird	Parula americana	Northern Parula	T		2006
BREWSTER	Bird	Sterna dougallii	Roseate Tern	E	E	2008
BREWSTER	Bird	Sterna hirundo	Common Tern	SC		2008
BREWSTER	Butterfly/Moth	Abagrotis nefascia	Coastal Heathland Cutworm	SC		1981
BREWSTER	Butterfly/Moth	Apamea inebriata	Drunk Apamea Moth	SC		1981
BREWSTER	Butterfly/Moth	Bagisara rectifascia	Straight Lined Mallow Moth	SC		1982
BREWSTER	Butterfly/Moth	Papaipema sulphurata	Water-willow Stem Borer	T		1994
BREWSTER	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		2000
BREWSTER	Dragonfly/Damselfly	Enallagma pictum	Scarlet Bluet	T		2003
BREWSTER	Dragonfly/Damselfly	Enallagma recurvatum	Pine Barrens Bluet	T		2005
BREWSTER	Dragonfly/Damselfly	Rhionaeschna mutata	Spatterdock Darner	SC		1987
BREWSTER	Fish	Notropis bifrenatus	Bridle Shiner	SC		1961
BREWSTER	Reptile	Malaclemys terrapin	Diamond-backed Terrapin	T		2002
BREWSTER	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2008
BREWSTER	Vascular Plant	Carex mitchelliana	Mitchell's Sedge	T		2006
BREWSTER	Vascular Plant	Corema conradii	Broom Crowberry	SC		1994
BREWSTER	Vascular Plant	Crocanthemum dumosum	Bushy Rockrose	SC		2006
BREWSTER	Vascular Plant	Dichanthelium dichotomum ssp. mattamuskeetense	Mattamuskeet Panic-grass	E		1918

BREWSTER	Vascular Plant	Dichanthelium ovale ssp. pseudopubescens	Commons's Panic-grass	SC		2006
BREWSTER	Vascular Plant	Gamochaeta purpurea	Purple Cudweed	E		1924
BREWSTER	Vascular Plant	Isoetes acadiensis	Acadian Quillwort	E		1989
BREWSTER	Vascular Plant	Lachnanthes caroliana	Redroot	SC		2002
BREWSTER	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		1931
BREWSTER	Vascular Plant	Lipocarpha micrantha	Dwarf Bulrush	T		2006
BREWSTER	Vascular Plant	Mertensia maritima	Oysterleaf	E		2001
BREWSTER	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1992
BREWSTER	Vascular Plant	Opuntia humifusa	Prickly Pear	E		1989
BREWSTER	Vascular Plant	Polygonum puritanorum	Pondshore Knotweed	SC		2003
BREWSTER	Vascular Plant	Rhexia mariana	Maryland Meadow Beauty	E		2008
BREWSTER	Vascular Plant	Rhynchospora scirpoides	Long-beaked Bald-sedge	SC		1986
BREWSTER	Vascular Plant	Rumex pallidus	Seabeach Dock	T		1994
BREWSTER	Vascular Plant	Sabatia kennedyana	Plymouth Gentian	SC		2004
BREWSTER	Vascular Plant	Sagittaria teres	Terete Arrowhead	SC		2008
BREWSTER	Vascular Plant	Spartina cynosuroides	Salt Reedgrass	T		2004
BREWSTER	Vascular Plant	Utricularia resupinata	Resupinate Bladderwort	T		2002

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BRIDGEWATER	Bird	Ammodramus savannarum	Grasshopper Sparrow	T		1997
BRIDGEWATER	Bird	Asio otus	Long-eared Owl	SC		1978
BRIDGEWATER	Bird	Bartramia longicauda	Upland Sandpiper	E		1980
BRIDGEWATER	Bird	Tyto alba	Barn Owl	SC		1981
BRIDGEWATER	Butterfly/Moth	Papaipema sulphurata	Water-willow Stem Borer	T		1994
BRIDGEWATER	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		1994
BRIDGEWATER	Dragonfly/Damselfly	Enallagma pictum	Scarlet Bluet	T		2004
BRIDGEWATER	Mussel	Alasmidonta undulata	Triangle Floater	SC		1999
BRIDGEWATER	Mussel	Leptodea ochracea	Tidewater Mucket	SC		1997
BRIDGEWATER	Mussel	Ligumia nasuta	Eastern Pondmussel	SC		1997

BRIDGEWATER	Reptile	Glyptemys insculpta	Wood Turtle	SC		2004
BRIDGEWATER	Reptile	Pseudemys rubriventris pop. 1	Northern Red-bellied Cooter	E	E	2005
BRIDGEWATER	Reptile	Terrapene carolina	Eastern Box Turtle	SC		2009
BRIDGEWATER	Vascular Plant	Ludwigia sphaerocarpa	Round-fruited False-loosestrife	E		2005
BRIDGEWATER	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T		1912
BRIDGEWATER	Vascular Plant	Sabatia kennedyana	Plymouth Gentian	SC		2005
BRIDGEWATER	Vascular Plant	Scirpus longii	Long's Bulrush	T		1988

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BRIMFIELD	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		2000
BRIMFIELD	Bird	Botaurus lentiginosus	American Bittern	E		1997
BRIMFIELD	Bird	Ixobrychus exilis	Least Bittern	E		2007
BRIMFIELD	Dragonfly/Damselfly	Ophiogomphus aspersus	Brook Snaketail	SC		2004
BRIMFIELD	Fish	Notropis bifrenatus	Bridle Shiner	SC		1999
BRIMFIELD	Mussel	Alasmidonta undulata	Triangle Floater	SC		1982
BRIMFIELD	Mussel	Strophitus undulatus	Creeper	SC		1982
BRIMFIELD	Reptile	Glyptemys insculpta	Wood Turtle	SC		2006
BRIMFIELD	Vascular Plant	Isoetes lacustris	Lake Quillwort	E		1930

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BROCKTON	Butterfly/Moth	Metarranthis apiciaria	Barrens Metarranthis Moth	E		1909
BROCKTON	Dragonfly/Damselfly	Enallagma laterale	New England Bluet	SC		2003
BROCKTON	Vascular Plant	Liatris scariosa var. novae-angliae	New England Blazing Star	SC		1900
BROCKTON	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T		1902

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BROOKFIELD	Amphibian	Ambystoma laterale	Blue-spotted Salamander	SC		1990

BROOKFIELD	Amphibian	Ambystoma opacum	Marbled Salamander	T	1996
BROOKFIELD	Bird	Bartramia longicauda	Upland Sandpiper	E	Historic
BROOKFIELD	Bird	Botaurus lentiginosus	American Bittern	E	2008
BROOKFIELD	Bird	Cistothorus platensis	Sedge Wren	E	1992
BROOKFIELD	Bird	Haliaeetus leucocephalus	Bald Eagle	E	2008
BROOKFIELD	Bird	Ixobrychus exilis	Least Bittern	E	2007
BROOKFIELD	Bird	Podilymbus podiceps	Pied-billed Grebe	E	1993
BROOKFIELD	Bird	Rallus elegans	King Rail	T	2007
BROOKFIELD	Dragonfly/Damselfly	Rhionaeschna mutata	Spatterdock Darner	SC	2003
BROOKFIELD	Fish	Notropis bifrenatus	Bridle Shiner	SC	2003
BROOKFIELD	Mussel	Alasmidonta undulata	Triangle Floater	SC	1999
BROOKFIELD	Vascular Plant	Carex polymorpha	Variable Sedge	E	2004
BROOKFIELD	Vascular Plant	Clematis occidentalis	Purple Clematis	SC	2007
BROOKFIELD	Vascular Plant	Lipocarpha micrantha	Dwarf Bulrush	T	2007
BROOKFIELD	Vascular Plant	Myriophyllum alterniflorum	Alternate-flowered Water-milfoil	E	1898
BROOKFIELD	Vascular Plant	Poa saltuensis ssp. languida	Drooping Speargrass	E	2000
BROOKFIELD	Vascular Plant	Potamogeton vaseyi	Vasey's Pondweed	E	1998
BROOKFIELD	Vascular Plant	Ranunculus pensylvanicus	Bristly Buttercup	SC	2007
BROOKFIELD	Vascular Plant	Scirpus longii	Long's Bulrush	T	2000

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BROOKLINE	Beetle	Cicindela purpurea	Purple Tiger Beetle	SC		Historic
BROOKLINE	Beetle	Cicindela rufiventris hentzii	Hentz's Redbelly Tiger Beetle	T		Historic
BROOKLINE	Bird	Accipiter striatus	Sharp-shinned Hawk	SC		1905
BROOKLINE	Bird	Vermivora chrysoptera	Golden-winged Warbler	E		1932
BROOKLINE	Vascular Plant	Houstonia longifolia	Long-leaved Bluet	E		1897
BROOKLINE	Vascular Plant	Linum medium var. texanum	Rigid Flax	T		1903
BROOKLINE	Vascular Plant	Lipocarpha micrantha	Dwarf Bulrush	T		1902
BROOKLINE	Vascular Plant	Platanthera flava var. herbiola	Pale Green Orchis	T		1912

BROOKLINE	Vascular Plant	Viola brittoniana	Britton's Violet	T		1913

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BUCKLAND	Amphibian	Ambystoma jeffersonianum	Jefferson Salamander	SC		1989
BUCKLAND	Beetle	Cicindela duodecimguttata	Twelve-spotted Tiger Beetle	SC		2001
BUCKLAND	Butterfly/Moth	Erora laeta	Early Hairstreak	T		1988
BUCKLAND	Dragonfly/Damselfly	Boyeria grafiana	Ocellated Darner	SC		2004
BUCKLAND	Dragonfly/Damselfly	Gomphus abbreviatus	Spine-crowned Clubtail	E		2004
BUCKLAND	Dragonfly/Damselfly	Neurocordulia yamaskanensis	Stygian Shadowdragon	SC		2004
BUCKLAND	Dragonfly/Damselfly	Rhionaeschna mutata	Spatterdock Darner	SC		2004
BUCKLAND	Fish	Catostomus catostomus	Longnose Sucker	SC		1989
BUCKLAND	Reptile	Glyptemys insculpta	Wood Turtle	SC		2007
BUCKLAND	Vascular Plant	Alnus viridis ssp. crispa	Mountain Alder	T		2004
BUCKLAND	Vascular Plant	Amelanchier sanguinea	Roundleaf Shadbush	SC		1911
BUCKLAND	Vascular Plant	Aplectrum hyemale	Putty-root	E		1904
BUCKLAND	Vascular Plant	Corallorhiza odontorhiza	Autumn Coralroot	SC		2006
BUCKLAND	Vascular Plant	Huperzia selago	Mountain Firmoss	E		1899
BUCKLAND	Vascular Plant	Ophioglossum pusillum	Adder's-tongue Fern	T		1913
BUCKLAND	Vascular Plant	Platanthera dilatata	Leafy White Orchis	T		1932
BUCKLAND	Vascular Plant	Sanicula odorata	Long-styled Sanicle	T		1907
BUCKLAND	Vascular Plant	Symphyotrichum tradescantii	Tradescant's Aster	T		2002

Town	Taxonomic Group	Scientific Name	Common Name	MESA Status	Federal Status	Most Recent Observation
BURLINGTON	Fish	Notropis bifrenatus	Bridle Shiner	SC		1994
BURLINGTON	Reptile	Terrapene carolina	Eastern Box Turtle	SC		1998
BURLINGTON	Vascular Plant	Carex polymorpha	Variable Sedge	E		2008
BURLINGTON	Vascular Plant	Nabalus serpentarius	Lion's Foot	E		1906

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Updated: October 27, 2009

APPENDIX D

National Register of Historic Places and Massachusetts Historical Commission Documentation

Massachusetts Cultural Resource Information System
MACRIS

MACRIS Search Results

Search Criteria: Town(s): Boston; Place: South Boston; Street Name: A;

Inv. No.	Property Name	Street	Town	Year
BOS.6815	Dahlquist Coppersmiths Manufacturing Company	87-97 A St	Boston	1895
BOS.6816	United States Post Office Garage	135 A St	Boston	1941
BOS.5498	Boston Wharf Company Warehouse	168-170 A St	Boston	1897
BOS.5499	Boston Wharf Company Warehouse	169 A St	Boston	1919
BOS.5500	Boston Wharf Company Warehouse	172-174 A St	Boston	1897
BOS.5501	Boston Wharf Company Warehouse	176-178 A St	Boston	1897
BOS.5502	Boston Wharf Company Warehouse	191-205 A St	Boston	1919
BOS.5503	Boston Wharf Company Building	207-209 A St	Boston	1916
BOS.5504	Boston Wharf Company Building	211-213 A St	Boston	1915
BOS.5505	Boston Wharf Company Warehouse	215-225 A St	Boston	1922
BOS.5506	Boston Wharf Company Warehouse	227-229 A St	Boston	1903
BOS.5507	Barlow, Frederick Building	239-241 A St	Boston	1895
BOS.5508	Factory Buildings Trust Industrial Building #5	249-255 A St	Boston	1895
BOS.5509	Keith, George E. Shoe Factory	288-304 A St	Boston	1912
BOS.5510	Boston Wharf Company Warehouse	289-293 A St	Boston	1893
BOS.5511	Boston Wharf Company Warehouse	319-321 A St	Boston	1913
BOS.15340	Dwinell - Wright Company Warehouse	319R A St	Boston	1923
BOS.15341	Dwinell - Wright Company Warehouse	323 A St	Boston	1904
BOS.15342	A Street Deli	324 A St	Boston	1945
BOS.15343	Boston Button Company Warehouse	326 A St	Boston	1889
BOS.12944	McDonald, Matt J. Company Special Steel Company	3 Anchor Way	Boston	1980

Verbal Boundary Description and Justification

The boundaries of the Fort Point Channel National Register district were drawn to encompass the land, buildings, and structures created by the Boston Wharf Company and associated with the development of this area between the mid 19th and the mid 20th centuries. See enclosed maps.

Starting at the northwest corner of the Fort Point Channel National Register District:

From a point at the northeast corner of parcel #030296000 on Atlantic Avenue, at the outer, western edge of the sea wall on the west side of Fort Point Channel, the northern boundary extends due east across the channel to include the seawall on the east side of Fort Point Channel, just north of the Northern Avenue Bridge and encompassing the pier beneath the bridge. The boundary turns south and continues along the outer, eastern edge of the seawall on the eastern side of the channel to the northwestern edge of parcel #0602635000 on Congress Street; at this corner the boundary turns east to follow the northern edge of this lot, crosses Sleeper Street, and turns north again to follow the eastern side of Sleeper Street, to the northwestern corner of parcel #0602670000, then turns east to follow the rear, southern lot lines of properties on Seaport Boulevard to the corner parcel #0602652003 on Stillings Street, two lots past the Pittsburgh Street (Thompson Place)/Seaport Boulevard intersection. The district boundary turns south at the northeast corner of parcel #0602652003.

The eastern boundary, from north to south, begins at the northeastern edge of the lot at parcel #06026552003 at Stillings Street and continues south through the western side of Stillings Street until it crosses over to the northeastern edge of parcel #0602650000. Following the northern edge of parcel #0602650000, the boundary travels east to West Service Road.

The boundary then turns south at the northeastern corner of parcel #0602650000 and continues directly south, in line with the western side of West Service Road, until it reaches the north side of Wormwood Street to parcel #0602754010. The boundary encompasses all of parcel #0602754010 to Binford Street, where it turns west, following the same parcel to its southwestern corner. Here, the boundary turns south to cross Binford Street and continues south along the eastern edge of parcel #0602750020. At the southern edge of parcel #0602750020, the boundary turns west to Channel Center Street (Midway Street), turns north briefly and crosses the street to follow the southern edge of parcel #0602757010. Where parcel #0602757010 meets A Street, the boundary turns north to follow the western edge of A Street to the northwestern edge of parcel #0602756010, where it turns westerly and crosses A Street. The boundary travels west along the southern edge of parcel #0601166035 and parcel #0601166045. At the southwestern corner of parcel #0601166045, the boundary turns north along the eastern edge of Necco Street, then turns westerly across Necco Street to follow the rear of the buildings at 5 and 6 Necco Place; it turns northerly along the western edge of 6 Necco Place. Directly across from the northwest edge of 6 Necco Place, the boundary crosses the street and follows the northern edge of Necco Place to the seawall.

Where Necco Place ends at the seawall, the boundary turns south and travels along the eastern outer edge of the seawall, bearing west to follow the seawall toward Dorchester Avenue. At Dorchester Avenue, the boundary turns north and follows the western, outer edge of the seawall back to parcel #0302960000.

(end)

Parcel ID#	MHC#	St.#	Property Address	Historic Name	Date	Architect	Construction	Architectural Style	C/NC/Resource Type
0602757010	5502	205	A Street	Boston Wharf Company	1919	Howard B. Prescott	warehouse	Classical Revival	C/B
0602757010	5503	207-209	A Street	Boston Wharf Company	1916	Morton D. Safford	warehouse	Classical Revival	C/B
0602757010	5504	211-213	A Street	Boston Wharf Company	1915	Morton D. Safford	warehouse	Classical Revival	C/B
0602757010	5505	215-225	A Street	Boston Wharf Company	1922	Howard B. Prescott	warehouse	Classical influence	C/B
0602757010	5506(229)	227-229	A Street	W. S. Coringley & Son/BWCo	1903	Morton D. Safford	warehouse	Classical Revival	C/B
0602758000	5507	239-241	A St.	Frederick Barlow Building	ca. 1895		ordinary	Romanesque Revival	C/B
0602759000		245	A Street	vacant lot					V
0602752000	5508	249-255	A Street	Fctry Bldgs Tr. IndusBldg.#1	ca. 1895		warehouse	Italianate	C/B
0602756001	5509	261	A Street	vacant lot					V
0602756010		287	A Street	vacant lot					V
0601166035		288-304	A Street	Boston Wharf Company	1912	Morton D. Safford	warehouse	Classical Revival	C/B
0602746000		289	A Street	vacant lot					V
0602747000		295-297	A Street	vacant lot					V
0602760000		309	A Street	Deli-Zioso lunchroom	20thc.		wood frame		NC/B
0602761000	5511(321)	319-321	A Street	Kistler Leather Co./BWC	1913	Morton D. Safford	warehouse	Classical Revival	C/B
0602761001		319R	A Street	Dwinell-Wright Co. warehouse	1923		warehouse	Classical Revival	C/B
0602763000		323	A Street	Dwinell-Wright Co./BWC	1904	Morton D. Safford	warehouse	Classical Revival	C/B
0602707000		324	A Street	A Street Deli	1945		concrete block		NC/B
0602706000		326	A Street	Boston Button Co.	1889, 1890	Morton D. Safford	warehouse	Romanesque Revival	C/B
	9002		Congress St.	Congress Street Bridge	1930		Single leaf bascule		C/St
				& Tenders hse			utilitarian		C/B
			Congress St.	The *Beaver*			reproduction vessel		NC/St
0602691000		305	Congress Street		1983/2000		new construction		NC/B
0602635000		308	Congress Street	H. P. Hood Milk Bottle	1934		wood frame	Roadside Fantasy	C/B
0602692000		313	Congress Street	Lombard's Congress St. Sto.	1886/1985		warehouse	Italianate/Panel Brick	C/B
0602635001	5516	316	Congress Street	Atlas Stores General Storage	1890/93/19	Morton D. Safford	warehouse	Panel Brick	C/B
0602669000	5517	320-324	Congress Street	Joseph S. Williams Stores	1888/1998	Morton D. Safford	warehouse	Italianate/Panel Brick	C/B
0602693000		321	Congress Street	vacant lot					V
0602668000	5518	326-330	Congress Street	Putnam & Co./Bost. R. E. Tr.	1888	Morton D. Safford	warehouse	Romanesque Revival	C/B
0602667000	5519	332-336	Congress Street	Boston Wharf Company	1892-1893	Morton D. Safford	warehouse	Classical Revival	C/B
0602666000		342	Congress Street	vacant lot					V
0602694000	5520	343	Congress Street	American Railway Express Co.	1888/36/20	Bradlee, Winslow et	fireproof/steel/conc.	Romanesque Revival	C/B
0602658000	5521	344	Congress Street	Congress St. Fire Sta.	1891	H. H. Atwood	suspended floors	Romanesque Revival	NR 1987
0602657000		346	Congress Street	vacant lot					V
0602695000	5522	347-351	Congress Street	Chase & Co. candy factory	1887/1890		warehouse	Italianate	C/B
0602656000	5523	348-352	Congress Street	Boston Wharf Company	1894	Morton D. Safford	warehouse	Classical influence	C/B
0602655003	5524	354-358	Congress Street	Boston Wharf Company	1900	Morton D. Safford	warehouse	Classical Revival	C/B
0602684000	5525	355	Congress Street	Tremont Electrical Co. Bldg.	ca.1905		ordinary & wareho.	Italianate	C/B
0602685000		359	Congress Street	vacant lot					V

0602654000	5526	364-372	Congress St./1 Thomson Place	Stillings Bldg./BWC	1901	Morton D. Safford	warehouse	Romanesque Revival	C/B
0602686000	5527	369-375	Congress Street	BWC wool warehouse	1918	Howard B. Prescott	fireproof/reinf.conc.	Italianate	C/B
0602646000	5528	374-384	Congress Street	Harvey Bldg./ BWC	ca.1903	Morton D. Safford	warehouse	Classical Revival	C/B
0602687000	5529	381-389	Congress Street	Boston Wharf Company	1907	Morton D. Safford	warehouse	Classical Revival	C/B
0602658001	5530	11--15	Farnsworth Street	Brown-Durrell Co. Wareho.	1893	Morton D. Safford	warehouse	Italianate	C/B
0602665000	5531	12--22	Farnsworth Street	Boston Wharf Company	1917		warehouse	Classical	C/B
0602658002,		17-31	Farnsworth Street	Farnsworth St. Garage	1987		new construction		NC/B
0602659000, and 0602660000									
0602664000	5532	24-32	Farnsworth Street	Bell Tel./N.E.T.&T. Co.	c1895/1987		warehouse	Classical/Rsque	C/B
0602660001	5533	33-39	Farnsworth Street	Boston Wharf Company	1909		warehouse		C/B
0602663000	5534	34-36	Farnsworth Street	Boston Wharf Company	1909		warehouse/		C/B
0602662002		38	Farnsworth Street	vacant lot					V
0602660002	5535	41-45	Farnsworth Street	Jones/McD. & Stratton Co.	1908		warehouse	Classical Revival	C/B
0602662001	5536	44-54	Farnsworth Street	B.W.C./E.T. Ward Sons Co.	1915/2000	Morton D. Safford	fireproof	Classical influence	C/B
0602661000	5537	47-53	Farnsworth Street	Boston Wharf Company	1895		warehouse	Romanesque influenc	C/B
9692662000		end of	Farnsworth Street	vacant lot					V
0602702000		10	Melcher Street	Boston Wharf Co. Offices	1905	Morton D. Safford	fireproof	Classical Revival	C/B
		10	Melcher Street	BWCo. Roof sign	20thc.		Structure		C/St
0601163015		11--17	Melcher Street	N.E. Confectionary Co./BWC	1902		warehouse	Classical Revival	C/B
0601163025		19-27	Melcher Street	N.E. Confectionary Co./BWC	1902		warehouse	Classical Revival	C/B
0601164005		29-37	Melcher Street	N.E. Confectionary Co./BWC	1902		warehouse	Classical Revival	C/B
0601166005		49	Melcher Street	Boston Wharf Co.	1910		warehouse	Classical Revival	C/B
0601166015		51-61	Melcher Street	Boston Wharf Co.	1916		fire prf/steel fr/conc	Classical influence	C/B
0601166025		63	Melcher Street	French,Shriner&Urner shoe fac.	1909		warehouse	Classical Revival	C/B
0602750020		2--14	Midway Street/ 2 Channel Street	American Can Co./BWC	1902	Morton D. Safford	warehouse	Romanesque influenc	C/B
0602750020		24-26	Midway Street/ 2 Channel Street	U.S. Leather Co./BWC	1914	Morton D. Safford	warehouse	Classical influence	C/B
0602750020		28-32	Midway Street/ 2 Channel Street	U.S. Leather Co./BWC	1911	Morton D. Safford	warehouse	Classical Revival	C/B
0602750020		34-38	Midway Street/ 2 Channel Street	U.S. Leather Co./BWC	1912	Morton D. Safford	warehouse	Classical Revival	C/B
0602750020		40-44	Midway Street/ 2 Channel Street	Boston Wharf Co.	1916	Morton D. Safford	warehouse	Classical Revival	C/B
0602750020		46-48	Midway Street/ 2 Channel Street	Boston Wharf Co.	1914	Morton D. Safford	warehouse	Classical Revival	C/B
0602750020		50-52	Midway Street/ 2 Channel Street	W. Herbert Abbott Inc.	1913	Morton D. Safford	warehouse	Classical Revival	C/B
		5	Necco Court	N.E. Confec. Co./B.W.C.	1907		warehouse	Classical influence	C/B
		6	Necco Court	N.E. Confec. Co./B.W.C.	1907		warehouse	Classical influence	C/B
0601164015			end of Necco Pl., nr seawall	vacant lot					V
0601166045		10	Necco Street	Necco St. Garage	1992		modern		NC/B
			Northern Avenue	Northern Avenue Bridge	1908 & 193	William Jackson	Triple barreled pivot		C/St
				& Tenders Hse	ca. 1908		Building	Shingle Style	C/B
0602670001			end of Northern Ave., on seawall	vacant/dock					V
			Seaport Boulevard	Evelyn Moakley Bridge	1996	Amman& Whitney	conc. & steel girder		NC/St
			Sea Wall Dorchester Avenue	Sea Wall			timber/granite/conc.		C/St
			Sea Wall South Boston	Sea Wall			timber/granite/conc.		C/St
0602669001		11	Sleeper Street	vacant lot					V

0602669005	5561	15-21	Sleeper Street	Boston Wharf Co.	1911/1983		new construc./conc.	Classical Revival	C/B
through 0602669068									
0602669005	5562	29-31	Sleeper Street	Boston Wharf Co.	1915/1983		warehouse	Classical Revival	C/B
0602669092	5563	33	Sleeper Street	Boston Wharf Co.	1911/1983		warehouse	Classical Revival	C/B
through 0602669206									
0602670000	5564	51	Sleeper Street	United Shoe Mach. Corp.	1929/ca.1988 alterations		fireproof/reinf. Conc	Classical/Modern	C/B
0602647000	5565	5--9	Stillings Street	Boston Wharf Co.	1907		warehouse	Classical influence	C/B
0602648000,		11--23	Stillings Street	Stillings Street Garage etc.	2001	Jung/Brannen	new construction	Modern	NC/B
0602649000, and 0602650000									
0602652003	5571(44)	44-48	Stillings Street	BWC Grocery wareho.	1914	J.M.&C.J. Buckley	warehouse	Classical influence	C/B
	9001		Summer Street	Summer Street Bridge	1899	W.J. Lawler	retractible	Utilitarian	C/St
0602701002	5573(250)	250-254	Summer Street	BWC wool warehouse	1899	Morton D. Safford	fireproof	Classical Revival	C/B
0601163005	5574	253	Summer Street	N.E. Confec.Co./B.W.C.	1902	Morton D. Safford	warehouse	Classical Revival	C/B
0602701001	5575(256)	256-260	Summer Street	BWC wool warehouse	1899	Morton D. Safford	fireproof	Classical Revival	C/B
0602701000	5577(262)	262-266	Summer Street	BWC wool warehouse	1899	Morton D. Safford	fireproof	Classical Revival	C/B
0602700000	5578(268)	268-272	Summer Street	BWC wool warehouse	1898	Morton D. Safford	fireproof	Classical Revival	C/B
0602703000	5579	269-273	Summer Street	BWC wool warehouse	1910	Morton D. Safford	fireproof	Classical Revival	C/B
0602699000	5580(274)	274-278	Summer Street	BWC wool warehouse	1898	Morton D. Safford	fireproof	Classical Revival	C/B
0602697000,	5581(280)	280-290	Summer Street	BWC wool warehouse	1898	Morton D. Safford	fireproof	Classical Revival	C/B
0602688000									
0602704000	5582(281)	281-283	Summer Street	BWC wool warehouse	1904	Morton D. Safford	fireproof	Classical Revival	C/B
0602705000	5583(285)	285-297	Summer Street	BWC wool warehouse	1903	Morton D. Safford	warehouse	Classical/Romanesqu	C/B
0602696000	5584	292-302	Summer Street	J. Williams & Co. wool merch.	1898	Morton D. Safford	firprf./steel/conc.	Classical Revival	C/B
			Summer Street	Summer St. Bridge over A St.	ca. 1890		steel girder span	no style	C/St
0602690000	5586	312-320	Summer Street	BWC wool warehouse	1904	Morton D. Safford	warehouse	Classical Revival	C/B
0602764000	5587(321)	321-325	Summer Street	BWC wool warehouse	1911	J.M.&C.J. Buckley	fireproof	Classical Revival	C/B
0602689000	5588	322-330	Summer Street	F.A. Foster & Co. Dry Goods	1910	Morton D. Safford	warehouse	Classical Revival	C/B
0602765000	5589(327)	327-333	Summer Street	Jos. Middleby Jr. Inc./BWC	1911		warehouse	Classical Revival	C/B
0602688000		332	Summer Street	vacant lot					V
0602766000		337-347	Summer Street	Jos. Middleby Jr. Inc./BWC	1907	Morton D. Safford	warehouse	Classical Revival	C/B
0602762000			behind 337 Summer St.	vacant lot					V
0602655002	5552	12--18	Thomson Place	Boston Wharf Co.	1907		warehouse	Classical/Rsqe	C/B
0602653000			Thomson Place	vacant lot					V
0602652007	5553(19)	19-23	Thomson Place	Boston Wharf Co.	1907	Morton D. Safford	warehouse	Classical Revival	C/B
0602655001		22-24	Thomson Place	Thomson Financial Offices	1992		new construction	Modern	NC/B
0602652006	5554	25-27	Thomson Place	Boston Wharf Co.	1909	Morton D. Safford	warehouse	Italianate influence	C/B
0602655000	5555	26-28	Thomson Place	Boston Wharf Co.	1908		warehouse	Classical influence	C/B
0602652005		29-33	Thomson Place	Boston Wharf Co.	1912	Morton D. Safford	warehouse	Italianate influence	C/B
0602654005	5556	30-34	Thomson Place	Boston Wharf Co.	1916		warehouse	Classical Revival	C/B
0602652004		35-37	Thomson Place	Boston Wharf Co.	1913	Morton D. Safford	warehouse	Classical Revival	C/B
0602654004	5557	36-40	Thomson Place	Boston Wharf Co.	1900		warehouse	Romanesque influenc	C/B
0602654003	5559	42-56	Thomson Place	Pittsburgh Plate Glass warehous	1909		warehouse	Italianate influence	C/B

0602654001	5560(51)	47-55	Thomson Place	Boston Wharf Co. wareho.	1924/ca. 19	Howard B. Prescott	warehouse	Classical/Modern	C/B
0602654002			Thomson Place	vacant lot					V
0602753012,		21, 23-27	Wormwood Street	Fact.Bldgs.Tr.Indus bldgs.#2,#3	ca. 1896		warehouse	Italianate	2C/B
0602753014, and 0602753016					with ca. 2000 connector				
0602754010		33-37	Wormwood Street	Fact. Bldgs. Tr. Indus bldg. #4	ca. 1897		warehouse	Italianate	C/B
0602756000		40	Wormwood Street	vacant lot					V
0602754010		41-45	Wormwood Street	Fact. Bldgs. Tr. Indus bldg. #5	ca. 1896		warehouse		C/B
0602754010		41-45	Wormwood Street	Fact. Bldgs. Tr. Chimney	ca. 1896		brick	Utilitarian	C/St
Resource totals:									
			Contributing	Noncontributing					
Buildings			89	7					
Structures			9	2					
Total			98	9					
Vacant lots			19						
Previously listed in the National Register: Congress St. Fire Station									

PHOTOGRAPHS (Date: 2003)

1. Seawall, Boston side (facing NE)
2. Seawall, South Boston side
3. Congress Street Bridge (facing SE)
4. Summer Street Bridge (facing SE)
5. Northern Avenue Bridge (facing NE)
6. 347-351 Congress Street, Chase & Co. Building (facing NW)
7. 355 Congress St.
8. 364-372 Congress St.
9. 374-384 Congress St.
10. 326 A Street, Boston Button Co. Building (facing N)
11. Melcher Street at Summer Street (facing W)
12. 249-255 A Street at Wormwood Street (facing SW)
13. 239-241 A Street, Barlow Building (facing SE)
14. 292-302 Summer Street at A Street bridge (facing NE)
15. 326-330 Congress Street, Putnam & Co. Building (facing E)
16. 33 Sleeper St.
17. 313 Congress Street, Lombard Stores (facing N)
18. 320-324 Congress Street, J.S. Williams Building (facing SE)
19. 42-56 Thomson Place, PPG Building (facing E)
20. 25-27, 29-33 Thomson Place (facing NW)
21. 316 Congress Street, Atlas Stores (facing NE)
22. 343 Congress Street, Railway Express Building (facing N)
23. 344 Congress Street, Boston Fire Museum [NR] (facing E)
24. 47-53 Farnsworth St.
25. 348-352 Congress Street (facing SE)
26. 348-352 Congress Street, detail (facing E)
27. 354 Congress Street (facing NE)
28. 326-330 Summer Street, Putnam & Co. (facing E)
29. 250-290 Summer Street (facing S)
30. 280-290 Summer Street (facing NE)
31. 250-254 Summer Street (facing SE)
32. 250-260 Summer Street (facing SE)
33. 262-266 Summer Street (facing E)
34. 281-283 Summer St.

No Photo #35

36. 63 Melcher Street
37. 28-32 Midway
38. 34-38 Midway
39. 319-321 A Street, Kistler Leather Co., (facing S)

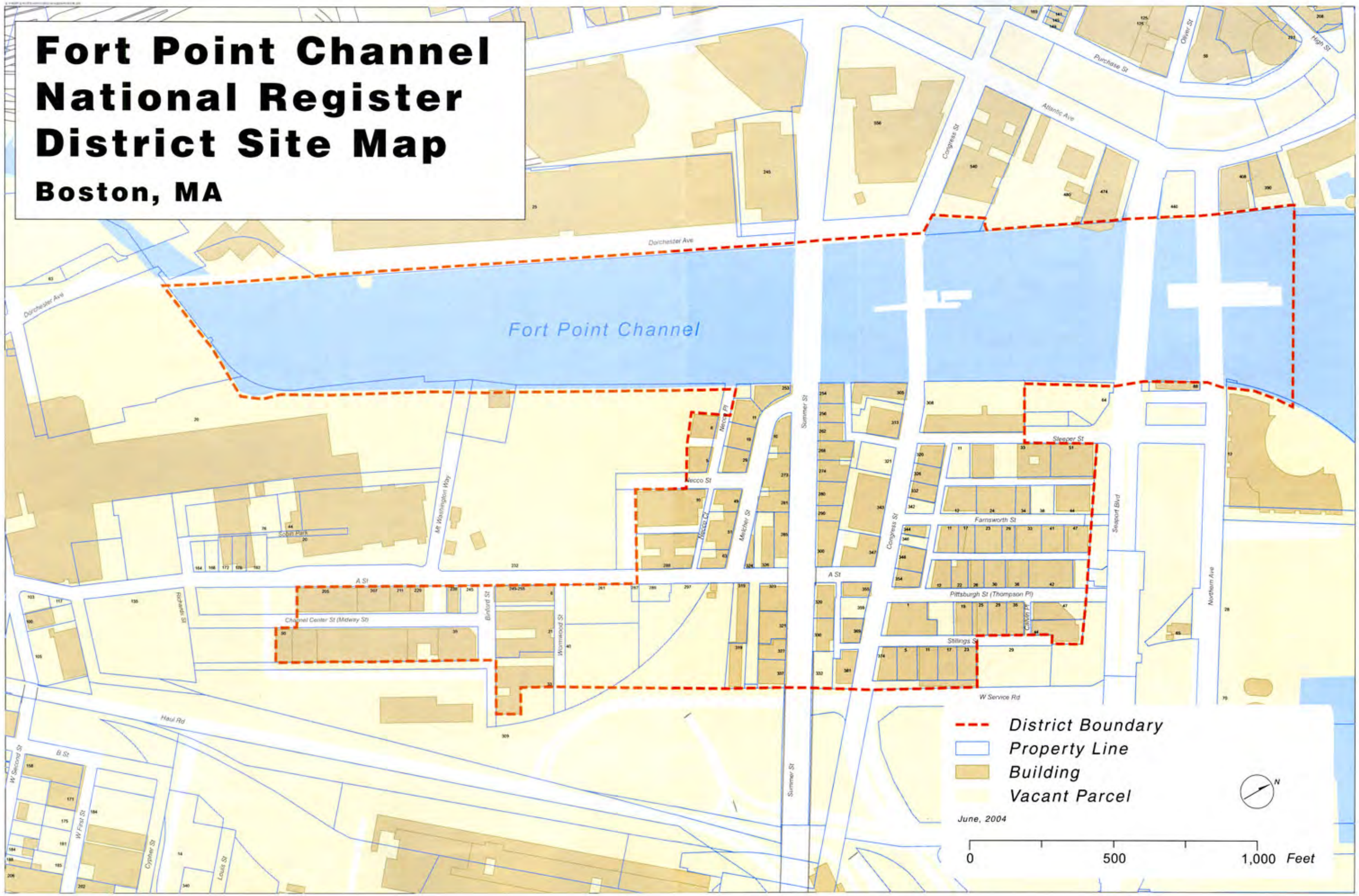
No Photo #s 40, 41, 42

43. 191-227 A Street (facing W)
44. Necco Street (facing E)
45. Summer Street, Boston Wharf Co. sign (facing S)
46. 41-55 Thomson Street

(end)

Fort Point Channel National Register District Site Map

Boston, MA



Fort Point Channel Historic District

A: 19/ 331100 4691040
B: 19/ 331420 4690540
C: 19/ 331020 4689920
D: 19/ 330600 4690120

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Inventory No:	BOS.5511
Historic Name:	Boston Wharf Company Warehouse
Common Name:	Kistler Leather Company Warehouse
Address:	319-321 A St
City/Town:	Boston
Village/Neighborhood:	Fort Point Channel; South Boston
Local No:	602761000
Year Constructed:	1913
Architect(s):	Safford, Morton D.
Architectural Style(s):	Classical Revival
Use(s):	Undetermined; Warehouse
Significance:	Architecture; Industry
Area(s):	BOS.CX: Fort Point Channel District BOS.WZ: Fort Point Channel Historic District BOS.ZG: Fort Point Channel Landmark District
Designation(s):	Local Historic District (12/9/2008); Nat'l Register District (9/10/2004)

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Inventory No:	BOS.15340
Historic Name:	Dwinell - Wright Company Warehouse
Common Name:	
Address:	319R A St
City/Town:	Boston
Village/Neighborhood:	Fort Point Channel; South Boston
Local No:	602761001; WZ
Year Constructed:	1923
Architect(s):	
Architectural Style(s):	Classical Revival
Use(s):	Warehouse
Significance:	Architecture; Industry
Area(s):	BOS.CX: Fort Point Channel District BOS.WZ: Fort Point Channel Historic District BOS.ZG: Fort Point Channel Landmark District
Designation(s):	Local Historic District (12/9/2008); Nat'l Register District (9/10/2004)

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Inventory No:	BOS.5510
Historic Name:	Boston Wharf Company Warehouse
Common Name:	
Address:	289-293 A St
City/Town:	Boston
Village/Neighborhood:	Fort Point Channel; South Boston
Local No:	
Year Constructed:	1893
Architect(s):	Safford, Morton D.
Architectural Style(s):	Panel Brick
Use(s):	Undetermined; Warehouse
Significance:	Architecture; Industry
Area(s):	BOS.CX: Fort Point Channel District
Designation(s):	

Digital Photo Not Yet Available

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APPENDIX E

Boston Water and Sewer Commission
Dewatering Permit Application

Boston Water and
Sewer Commission
980 Harrison Avenue
Boston, MA 02119-2540

DEWATERING DISCHARGE PERMIT APPLICATION

OWNER / AUTHORIZED APPLICANT PROVIDE INFORMATION HERE:

Company Name: 319 ASR, LLC Address: 1140 SW 11th Avenue, Suite 400, Portland, Oregon 97205

Phone number: 503.299.6000 Fax number: _____

Contact person name: Patrick Wilde Title: _____

Cell number: 503.539.5647 Email address: patrick.wilde@gerdingedlen.com

Permit Request (check one): ☒ New Application ☐ Permit Extension ☐ Other (Specify):_____

Owner's Information (if different from above):

Owner of property being dewatered: _____

Owner's mailing address: _____ Phone number: _____

Location of Discharge & Proposed Treatment System(s):

Street number and name: 319 A STREET REAR Neighborhood SOUTH BOSTON, MA

Discharge is to a: ☐ Sanitary Sewer ☐ Combined Sewer ☒ Storm Drain ☐ Other (specify):_____

Describe Proposed Pre-Treatment System(s): SEDIMENTATION TANK, BAG FILTERS, GRANULATED ACTIVATED CARBON

BWSC Outfall No. BOS073 Receiving Waters FORT POINT CHANNEL`

Temporary Discharges (Provide Anticipated Dates of Discharge): From APRIL 2012 To NOVEMBER 2013

- ☐ Groundwater Remediation
- ☐ Utility/Manhole Pumping
- ☐ Accumulated Surface Water
- ☐ Tank Removal/Installation
- ☐ Test Pipe
- ☐ Hydrogeologic Testing
- ☒ Foundation Excavation
- ☒ Trench Excavation
- ☐ Other _____

Permanent Discharges

- ☐ Foundation Drainage
- ☐ Accumulated Surface Water
- ☐ Non-contact/Uncontaminated Process
- ☐ Crawl Space/Footing Drain
- ☐ Non-contact/Uncontaminated Cooling
- ☐ Other; _____

---

1. Attach a Site Plan showing the source of the discharge and the location of the point of discharge (i.e. the sewer pipe or catch basin). Include meter type, meter number, size, make and start reading. Note. All discharges to the Commission's sewer system will be assessed current sewer charges.
2. If discharging to a sanitary or combined sewer, attach a copy of MWRA's Sewer Use Discharge permit or application.
3. If discharging to a separate storm drain, attach a copy of EPA's NPDES Permit or NOI application, or NPDES Permit exclusion letter for the discharge, as well as other relevant information.
4. Dewatering Drainage Permit will be denied or revoked if applicant fails to obtain the necessary permits from MWRA or EPA.

Submit Completed Application to: Boston Water and Sewer Commission
Engineering Customer Services
980 Harrison Avenue, Boston, MA 02119
Attn: Francis M. McLaughlin, Manager Engineering Customer Services
E-mail: MclaughlinF@bwsc.org
Phone: 617-989-7208 Fax: 617-989-7716

BWSC Use Only: Date Received _____ Comments: _____

APPENDIX F

Laboratory Data Reports

ANALYTICAL REPORT

Lab Number:	L1119718
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Denis Bell
Phone:	(617) 886-7300
Project Name:	319 A STREET
Project Number:	32384-403
Report Date:	12/02/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1119718-01	HA11-05A(OW)	Not Specified	11/28/11 13:30
L1119718-02	HA11-02A(OW)	Not Specified	11/28/11 11:30
L1119718-03	TRIP BLANK	Not Specified	11/28/11 00:00

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	YES
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: 319 A STREET **Lab Number:** L1119718
Project Number: 32384-403 **Report Date:** 12/02/11

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.

MCP Related Narratives

Volatile Organics

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG505547-1/-2 LCS/LCSD recoveries, associated with L1119718-01, -02, and -03, are below the acceptance criteria for Carbon disulfide (63%/69%); however, they have been identified as "difficult" analytes and are within the 40-160% acceptance limits. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG505547-2 LCSD recovery, associated with L1119718-01, -02, and -03, is below the individual acceptance criteria for Naphthalene (66%), but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this

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Case Narrative (continued)

compound.
The WG505547-1/-2 LCS/LCSD RPDs, associated with L1119718-01, -02, and -03, are above the acceptance criteria for 2-Butanone (21%), 4-Methyl-2-pentanone (25%), 2-Hexanone (22%), and 1,4-Dioxane (25%).
The initial calibration, associated with L1119718-01, -02, and -03, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-Dioxane (0.00332), as well as the average response factor for 1,4-Dioxane. In addition, a quadratic fit was utilized for trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, Acetone, Bromochloromethane, and Vinyl acetate.
The continuing calibration standard, associated with L1119718-01, -02, and -03, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

VPH
In reference to question I:
All samples were analyzed for a subset of MCP compounds per the Chain of Custody.

EPH
In reference to question H:
The WG504877-2/-3 LCS/LCSD recoveries, associated with L1119718-01,02, were outside the acceptance criteria for Nonane (C9) (24%/16%) and Decane (C10) (31%/21%); however, the target carbon ranges and analytes were within overall method allowances. The results of the original analysis are reported.
The WG504877-2/-3 LCS/LCSD RPDs, associated with L1119718-01 and -02, are above the acceptance criteria for Nonane (C9) (40%) and Decane (C10) (38%).
In reference to question I:
All samples were analyzed for a subset of MCP compounds per the Chain of Custody.

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: Cynthia McQueen

Title: Technical Director/Representative Date: 12/02/11

ORGANICS

VOLATILES

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

SAMPLE RESULTS

Lab ID:	L1119718-01	Date Collected:	11/28/11 13:30
Client ID:	HA11-05A(OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	12/01/11 16:20		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

SAMPLE RESULTS

Lab ID: L1119718-01 Date Collected: 11/28/11 13:30

Client ID: HA11-05A(OW) Date Received: 11/28/11

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	3.0		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

SAMPLE RESULTS

Lab ID:	L1119718-01	Date Collected:	11/28/11 13:30
Client ID:	HA11-05A(OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	115		70-130

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

SAMPLE RESULTS

Lab ID:	L1119718-02	Date Collected:	11/28/11 11:30
Client ID:	HA11-02A(OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	12/01/11 16:52		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	21		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

SAMPLE RESULTS

Lab ID: L1119718-02 Date Collected: 11/28/11 11:30

Client ID: HA11-02A(OW) Date Received: 11/28/11

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	3.6		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

SAMPLE RESULTS

Lab ID:	L1119718-02	Date Collected:	11/28/11 11:30
Client ID:	HA11-02A(OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	112		70-130

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

SAMPLE RESULTS

Lab ID:	L1119718-03	Date Collected:	11/28/11 00:00
Client ID:	TRIP BLANK	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	14,504.1		
Analytical Date:	11/30/11 16:55		
Analyst:	SS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Pesticides by GC - Westborough Lab						
1,2-Dibromoethane	ND		ug/l	0.010	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--	1

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

SAMPLE RESULTS

Lab ID:	L1119718-03	Date Collected:	11/28/11 00:00
Client ID:	TRIP BLANK	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	97,8260B		
Analytical Date:	12/01/11 15:47		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

SAMPLE RESULTS

Lab ID: L1119718-03 Date Collected: 11/28/11 00:00

Client ID: TRIP BLANK Date Received: 11/28/11

Sample Location: Not Specified Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	5.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

SAMPLE RESULTS

Lab ID:	L1119718-03	Date Collected:	11/28/11 00:00
Client ID:	TRIP BLANK	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	113		70-130

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 14,504.1
Analytical Date: 11/30/11 14:04
Analyst: SS

Extraction Date: 11/30/11 11:00

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG505365-1					
1,2-Dibromoethane	ND		ug/l	0.010	--
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 12/01/11 07:08
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG505547-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 12/01/11 07:08
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG505547-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	5.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 12/01/11 07:08
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG505547-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG505365-2								
1,2-Dibromoethane	100		-		70-130	-		20
1,2-Dibromo-3-chloropropane	111		-		70-130	-		20
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG505547-1 WG505547-2								
Methylene chloride	100		97		70-130	3		20
1,1-Dichloroethane	95		95		70-130	0		20
Chloroform	102		102		70-130	0		20
Carbon tetrachloride	107		107		70-130	0		20
1,2-Dichloropropane	97		93		70-130	4		20
Dibromochloromethane	89		90		70-130	1		20
1,1,2-Trichloroethane	94		89		70-130	5		20
Tetrachloroethene	100		98		70-130	2		20
Chlorobenzene	89		90		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG505547-1 WG505547-2								
Trichlorofluoromethane	110		114		70-130	4		20
1,2-Dichloroethane	106		104		70-130	2		20
1,1,1-Trichloroethane	103		101		70-130	2		20
Bromodichloromethane	98		97		70-130	1		20
trans-1,3-Dichloropropene	85		84		70-130	1		20
cis-1,3-Dichloropropene	94		90		70-130	4		20
1,1-Dichloropropene	97		94		70-130	3		20
Bromoform	86		80		70-130	7		20
1,1,2,2-Tetrachloroethane	92		80		70-130	14		20
Benzene	99		97		70-130	2		20
Toluene	88		90		70-130	2		20
Ethylbenzene	91		93		70-130	2		20
Chloromethane	79		75		70-130	5		20
Bromomethane	106		115		70-130	8		20
Vinyl chloride	88		89		70-130	1		20
Chloroethane	101		87		70-130	15		20
1,1-Dichloroethene	100		104		70-130	4		20
trans-1,2-Dichloroethene	93		96		70-130	3		20
Trichloroethene	110		99		70-130	11		20
1,2-Dichlorobenzene	91		86		70-130	6		20
1,3-Dichlorobenzene	89		88		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG505547-1 WG505547-2								
1,4-Dichlorobenzene	89		88		70-130	1		20
Methyl tert butyl ether	102		88		70-130	15		20
p/m-Xylene	92		95		70-130	3		20
o-Xylene	95		92		70-130	3		20
cis-1,2-Dichloroethene	100		98		70-130	2		20
Dibromomethane	109		107		70-130	2		20
1,2,3-Trichloropropane	94		83		70-130	12		20
Styrene	94		96		70-130	2		20
Dichlorodifluoromethane	71		74		70-130	4		20
Acetone	110		98		70-130	12		20
Carbon disulfide	**63**	Q	**69**	Q	70-130	9		20
2-Butanone	111		90		70-130	**21**	Q	20
4-Methyl-2-pentanone	105		82		70-130	**25**	Q	20
2-Hexanone	92		74		70-130	**22**	Q	20
Bromochloromethane	101		101		70-130	0		20
Tetrahydrofuran	108		88		70-130	20		20
2,2-Dichloropropane	111		108		70-130	3		20
1,2-Dibromoethane	101		94		70-130	7		20
1,3-Dichloropropane	91		88		70-130	3		20
1,1,1,2-Tetrachloroethane	92		90		70-130	2		20
Bromobenzene	87		87		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG505547-1 WG505547-2								
n-Butylbenzene	92		90		70-130	2		20
sec-Butylbenzene	88		84		70-130	5		20
tert-Butylbenzene	92		89		70-130	3		20
o-Chlorotoluene	85		82		70-130	4		20
p-Chlorotoluene	80		89		70-130	11		20
1,2-Dibromo-3-chloropropane	96		80		70-130	18		20
Hexachlorobutadiene	84		99		70-130	16		20
Isopropylbenzene	98		94		70-130	4		20
p-Isopropyltoluene	94		90		70-130	4		20
Naphthalene	80		**66**	Q	70-130	19		20
n-Propylbenzene	89		82		70-130	8		20
1,2,3-Trichlorobenzene	86		71		70-130	19		20
1,2,4-Trichlorobenzene	80		76		70-130	5		20
1,3,5-Trimethylbenzene	85		82		70-130	4		20
1,2,4-Trimethylbenzene	90		87		70-130	3		20
Ethyl ether	113		107		70-130	5		20
Isopropyl Ether	89		86		70-130	3		20
Ethyl-Tert-Butyl-Ether	95		90		70-130	5		20
Tertiary-Amyl Methyl Ether	101		96		70-130	5		20
1,4-Dioxane	108		84		70-130	**25**	Q	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 319 A STREET

Project Number: 32384-403

Lab Number: L1119718

Report Date: 12/02/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG505547-1 WG505547-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		107		70-130
Toluene-d8	94		97		70-130
4-Bromofluorobenzene	91		93		70-130
Dibromofluoromethane	109		108		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 03 QC Batch ID: WG505365-3 QC Sample: L1119444-01 Client ID: MS Sample												
1,2-Dibromoethane	ND	0.245	0.249	101		-	-		70-130	-		20
1,2-Dibromo-3-chloropropane	ND	0.245	0.270	110		-	-		70-130	-		20

PETROLEUM HYDROCARBONS

Project Name: 319 A STREET
Project Number: 32384-403
Lab Number: L1119718
Report Date: 12/02/11

SAMPLE RESULTS

Lab ID:	L1119718-01	Date Collected:	11/28/11 13:30
Client ID:	HA11-05A(OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	11/30/11 00:01		
Analyst:	TB		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	106		70-130
2,5-Dibromotoluene-FID	118		70-130

Project Name: 319 A STREET
Project Number: 32384-403
Lab Number: L1119718
Report Date: 12/02/11

SAMPLE RESULTS

Lab ID:	L1119718-01	Date Collected:	11/28/11 13:30
Client ID:	HA11-05A(OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1	Extraction Date:	11/28/11 23:22
Analytical Date:	11/30/11 09:53	Cleanup Method1:	EPH-04-1
Analyst:	AS	Cleanup Date1:	11/29/11

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	72		40-140
o-Terphenyl	74		40-140
2-Fluorobiphenyl	81		40-140
2-Bromonaphthalene	79		40-140

Project Name: 319 A STREET
Project Number: 32384-403
Lab Number: L1119718
Report Date: 12/02/11

SAMPLE RESULTS

Lab ID:	L1119718-02	Date Collected:	11/28/11 11:30
Client ID:	HA11-02A(OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	100,VPH-04-1.1		
Analytical Date:	11/30/11 00:40		
Analyst:	TB		

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Petroleum Hydrocarbons - Westborough Lab						
C5-C8 Aliphatics	ND		ug/l	50.0	--	1
C9-C12 Aliphatics	ND		ug/l	50.0	--	1
C9-C10 Aromatics	ND		ug/l	50.0	--	1
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--	1
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	107		70-130
2,5-Dibromotoluene-FID	119		70-130

Project Name: 319 A STREET
Project Number: 32384-403
Lab Number: L1119718
Report Date: 12/02/11

SAMPLE RESULTS

Lab ID:	L1119718-02	Date Collected:	11/28/11 11:30
Client ID:	HA11-02A(OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	98,EPH-04-1.1	Extraction Date:	11/28/11 23:22
Analytical Date:	11/30/11 10:24	Cleanup Method1:	EPH-04-1
Analyst:	AS	Cleanup Date1:	11/29/11

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous Preservative:	Laboratory Provided Preserved Container
Sample Temperature upon receipt:	Received on Ice
Sample Extraction method:	Extracted Per the Method

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Extractable Petroleum Hydrocarbons - Westborough Lab						
C9-C18 Aliphatics	ND		ug/l	100	--	1
C19-C36 Aliphatics	ND		ug/l	100	--	1
C11-C22 Aromatics	ND		ug/l	100	--	1
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	82		40-140
o-Terphenyl	80		40-140
2-Fluorobiphenyl	80		40-140
2-Bromonaphthalene	79		40-140

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 98,EPH-04-1.1
Analytical Date: 11/30/11 08:18
Analyst: AS

Extraction Method: EPA 3510C
Extraction Date: 11/28/11 23:22
Cleanup Method1: EPH-04-1
Cleanup Date1: 11/29/11

Parameter	Result	Qualifier	Units	RL	MDL
Extractable Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-02 Batch: WG504877-1					
C9-C18 Aliphatics	ND		ug/l	100	--
C19-C36 Aliphatics	ND		ug/l	100	--
C11-C22 Aromatics	ND		ug/l	100	--
C11-C22 Aromatics, Adjusted	ND		ug/l	100	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	70		40-140
o-Terphenyl	71		40-140
2-Fluorobiphenyl	78		40-140
2-Bromonaphthalene	76		40-140

Project Name: 319 A STREET **Lab Number:** L1119718

Project Number: 32384-403 **Report Date:** 12/02/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 100,VPH-04-1.1
Analytical Date: 11/29/11 12:44
Analyst: TB

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Petroleum Hydrocarbons - Westborough Lab for sample(s): 01-02 Batch: WG504954-3					
C5-C8 Aliphatics	ND		ug/l	50.0	--
C9-C12 Aliphatics	ND		ug/l	50.0	--
C9-C10 Aromatics	ND		ug/l	50.0	--
C5-C8 Aliphatics, Adjusted	ND		ug/l	50.0	--
C9-C12 Aliphatics, Adjusted	ND		ug/l	50.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2,5-Dibromotoluene-PID	101		70-130
2,5-Dibromotoluene-FID	108		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-02 Batch: WG504877-2 WG504877-3								
C9-C18 Aliphatics	51		46		40-140	10		25
C19-C36 Aliphatics	84		82		40-140	2		25
C11-C22 Aromatics	81		94		40-140	15		25
Naphthalene	63		64		40-140	2		25
2-Methylnaphthalene	73		75		40-140	3		25
Acenaphthylene	74		81		40-140	9		25
Acenaphthene	78		85		40-140	9		25
Fluorene	78		90		40-140	14		25
Phenanthrene	82		95		40-140	15		25
Anthracene	81		93		40-140	14		25
Fluoranthene	83		97		40-140	16		25
Pyrene	86		99		40-140	14		25
Benzo(a)anthracene	80		97		40-140	19		25
Chrysene	82		100		40-140	20		25
Benzo(b)fluoranthene	84		102		40-140	19		25
Benzo(k)fluoranthene	85		102		40-140	18		25
Benzo(a)pyrene	82		100		40-140	20		25
Indeno(1,2,3-cd)Pyrene	84		103		40-140	20		25
Dibenzo(a,h)anthracene	78		97		40-140	22		25
Benzo(ghi)perylene	82		101		40-140	21		25
Nonane (C9)	**24**	Q	**16**	Q	30-140	**40**	Q	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Extractable Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-02 Batch: WG504877-2 WG504877-3								
Decane (C10)	**31**	Q	**21**	Q	40-140	**38**	Q	25
Dodecane (C12)	50		41		40-140	20		25
Tetradecane (C14)	67		64		40-140	5		25
Hexadecane (C16)	74		73		40-140	1		25
Octadecane (C18)	80		80		40-140	0		25
Nonadecane (C19)	82		81		40-140	1		25
Eicosane (C20)	84		82		40-140	2		25
Docosane (C22)	85		84		40-140	1		25
Tetracosane (C24)	88		86		40-140	2		25
Hexacosane (C26)	88		87		40-140	1		25
Octacosane (C28)	87		85		40-140	2		25
Triacontane (C30)	89		87		40-140	2		25
Hexatriacontane (C36)	74		73		40-140	1		25

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	82		80		40-140
o-Terphenyl	87		98		40-140
2-Fluorobiphenyl	82		87		40-140
2-Bromonaphthalene	83		86		40-140
% Naphthalene Breakthrough	0		0		
% 2-Methylnaphthalene Breakthrough	0		0		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-02 Batch: WG504954-1 WG504954-2								
C5-C8 Aliphatics	108		103		70-130	5		25
C9-C12 Aliphatics	96		93		70-130	3		25
C9-C10 Aromatics	108		103		70-130	5		25
Benzene	111		104		70-130	7		25
Toluene	110		104		70-130	6		25
Ethylbenzene	105		101		70-130	4		25
p/m-Xylene	108		103		70-130	5		25
o-Xylene	105		100		70-130	5		25
Methyl tert butyl ether	103		103		70-130	0		25
Naphthalene	85		99		70-130	15		25
1,2,4-Trimethylbenzene	108		103		70-130	5		25
Pentane	104		99		70-130	5		25
2-Methylpentane	110		105		70-130	5		25
2,2,4-Trimethylpentane	116		110		70-130	5		25
n-Nonane	101		95		30-130	6		25
n-Decane	91		90		70-130	1		25
n-Butylcyclohexane	101		96		70-130	5		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 319 A STREET

Project Number: 32384-403

Lab Number: L1119718

Report Date: 12/02/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Petroleum Hydrocarbons - Westborough Lab Associated sample(s): 01-02 Batch: WG504954-1 WG504954-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2,5-Dibromotoluene-PID	94		97		70-130
2,5-Dibromotoluene-FID	99		103		70-130

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

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(*)
L1119718-01A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1119718-01B	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1119718-01C	Vial HCl preserved	A	N/A	2.8	Y	Absent	VPH-10(14)
L1119718-01D	Vial HCl preserved	A	N/A	2.8	Y	Absent	VPH-10(14)
L1119718-01E	Amber 1000ml HCl preserved	A	<2	2.8	Y	Absent	EPH-10(14)
L1119718-01F	Amber 1000ml HCl preserved	A	<2	2.8	Y	Absent	EPH-10(14)
L1119718-01G	Vial Na2S2O3 preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(7)
L1119718-01H	Vial Na2S2O3 preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(7)
L1119718-01I	Amber 1000ml HCl preserved	A	<2	2.8	Y	Absent	MCP-8260-10(14)
L1119718-01J	Amber 1000ml HCl preserved	A	<2	2.8	Y	Absent	MCP-8260-10(14)
L1119718-01K	Plastic 250ml unpreserved	A	7	2.8	Y	Absent	MCP-8260-10(7)
L1119718-01L	Plastic 250ml HNO3 preserved	A	<2	2.8	Y	Absent	MCP-8260-10(14)
L1119718-01M	Plastic 250ml NaOH preserved	A	>12	2.8	Y	Absent	MCP-8260-10(14)
L1119718-01N	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	MCP-8260-10(7)
L1119718-01O	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	MCP-8260-10(7)
L1119718-01P	Amber 1000ml H2SO4 preserved	A	<2	2.8	Y	Absent	MCP-8260-10(14)
L1119718-01Q	Amber 1000ml unpreserved	A	7	2.8	Y	Absent	MCP-8260-10(7)
L1119718-01R	Amber 1000ml unpreserved	A	7	2.8	Y	Absent	MCP-8260-10(7)
L1119718-01S	Amber 1000ml unpreserved	A	7	2.8	Y	Absent	MCP-8260-10(7)
L1119718-01T	Amber 1000ml unpreserved	A	7	2.8	Y	Absent	MCP-8260-10(7)
L1119718-01U	Amber 1000ml Na2S2O3	A	7	2.8	Y	Absent	MCP-8260-10(7)
L1119718-01V	Amber 1000ml Na2S2O3	A	7	2.8	Y	Absent	MCP-8260-10(7)
L1119718-01X	Plastic 120ml unpreserved split	A	7	2.8	Y	Absent	-
L1119718-01Z	Plastic 120ml HNO3 preserved	A	<2	2.8	Y	Absent	-
L1119718-02A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1119718-02B	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1119718-02C	Vial HCl preserved	A	N/A	2.8	Y	Absent	VPH-10(14)

*Values in parentheses indicate holding time in days

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1119718
Report Date: 12/02/11

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1119718-02D	Vial HCl preserved	A	N/A	2.8	Y	Absent	VPH-10(14)
L1119718-02E	Amber 1000ml HCl preserved	A	<2	2.8	Y	Absent	EPH-10(14)
L1119718-02F	Amber 1000ml HCl preserved	A	<2	2.8	Y	Absent	EPH-10(14)
L1119718-03A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1119718-03B	Vial Na2S2O3 preserved	A	N/A	2.8	Y	Absent	504(14)

*Values in parentheses indicate holding time in days

Project Name:	319 A STREET	**Lab Number:**	L1119718
Project Number:	32384-403	**Report Date:**	12/02/11

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

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

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. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
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.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	319 A STREET	**Lab Number:**	L1119718
Project Number:	32384-403	**Report Date:**	12/02/11

Data Qualifiers

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. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: 319 A STREET **Lab Number:** L1119718
Project Number: 32384-403 **Report Date:** 12/02/11

REFERENCES

14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

98 Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of EPH under the Massachusetts Contingency Plan, WSC-CAM-IVB, July 2010.

100 Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MassDEP, May 2004, Revision 1.1 with QC Requirements & Performance Standards for the Analysis of VPH under the Massachusetts Contingency Plan, WSC-CAM-IVA, July 2010.

LIMITATION OF LIABILITIES

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

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

Certificate/Approval Program Summary

Last revised November 17, 2011 - Westboro Facility

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

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

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

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

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 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, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

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); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 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), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; 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,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 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-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, 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, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

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 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-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, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 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.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 6010B, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3545, 3546, 3550B**,** 3580A, 3630C, 5035, 8015B, 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 NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson 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, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

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

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
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 Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

ALPHA Job # L1119718

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-
Phone (617) 886-7400
Fax (617) 886-7600

CHAIN OF CUSTODY RECORD

H&A FILE NO.	32384-403	LABORATORY	Alpha Woodshole Labs	DELIVERY DATE	11/28/11
PROJECT NAME	319 A Street	ADDRESS	Westborough, MA	TURNAROUND TIME	5-Day
H&A CONTACT	Denis Bell/Sandhya Potana	CONTACT	Gina Bartalameo	PROJECT MANAGER	Denis Bell

Sample No.	Date	Time	Depth	Type	1	2	3	4	5	6	7	8	Number of Containers
HA11-05A(OW)	11/28/2011	1330	NA	GW	x	x	x						6
HA11-02A (OW)	11/28/2011	1130	NA	GW	x	x	x						6
HA11-05A(OW)	11/28/2011	1330	NA	GW				x	x	x			18
8260 Trip Blank	11/28/11		NA	—									1
504 EDB Trip Blank	11/28/11		NA										1

Analysis Requested

1. VOCs
2. EPH carbon ranges
3. VPH carbon ranges
4. NPDES RGP Suite (PLEASE PUT THIS ANALYSIS ON HOLD UNTIL WE CONFIRM)
5. Oil & grease (put on hold)
6. Dissolved metals (put on hold)

30 pcs

Comments (special instructions, precautions, additional method numbers, etc.)

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

Sampled and Relinquished by	Received by
Sign [signature]	Sign [signature]
Print Owen Lawson	Print Wayne Plumer
Firm H&A	Firm Alpha
Date 11/28/11 Time 1530	Date 11/28/11 Time 1530
Relinquished by	**Received by**
Sign [signature]	Sign [signature]
Print Wayne Plumer	Print Jim Angell
Firm Alpha	Firm Alpha
Date 11/28/11 Time 1700	Date 11/28/11 Time 1700
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	
VOA Vial	
Amber Glass	
Plastic Bottle	
Preservative	
Volume	

SOLID	
VOA Vial	
Amber Glass	
Clear Glass	
Preservative	
Volume	

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Sodium Bisulfate

Sampling Comments

Please lab filter HA11-05A(OW) RGP sample for running dissolved metals.

Evidence samples were tampered with?
If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ of Presumptive Certainty.
_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyze _____ hold for contingency testing the Drinking Water Field Duplicate and Drinking Water Trip Blank samples.

Required Reporting Limits and Data Quality Objectives

- ☐ RC-S1
- ☐ RC-S2
- ☐ RC-GW1
- ■ RC-GW2
- ☐ S1
- ☐ S2
- ☐ S3
- ☐ GW1
- ☐ GW2
- ☐ GW3

WHITE - Laboratory **CANARY** - Project Manager **PINK** - Haley & Aldrich Laboratory **GOLDENROD** - Haley & Aldrich Contact **AUGUST 2003**

Form 3003

Serial_No:12021112:27

7A
Volatile CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1119718

Instrument ID: Jack.i Calibration Date: 01-DEC-2011 Time: 05:31

Lab File ID: 1201A02 Init. Calib. Date(s): 10-NOV-2 10-NOV-2

Sample No: 8260 ccal Init. Calib. Times : 14:21 21:23

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.54449	.38516	.1	29	20	F
chloromethane	.78667	.62084	.1	21	20	F
vinyl chloride	.65073	.57514	.1	12	20	
bromomethane	.25658	.27167	.1	-6	20	
chloroethane	.34979	.35328	.1	-1	20	
trichlorofluoromethane	.79379	.87362	.1	-10	20	
ethyl ether	.25455	.28794	.05	-13	20	
1,1,-dichloroethene	.50184	.50077	.1	0	20	
carbon disulfide	1.3580	.85996	.05	37	20	F
methylene chloride	.59628	.59833	.05	0	20	
acetone	100	110	.1	-10	20	
trans-1,2-dichloroethene	100	92.873	.1	7	20	
methyl tert butyl ether	1.3218	1.3456	.1	-2	20	
Ethyl-Tert-Butyl-Ether	1.6760	1.5884	.05	5	20	
Diisopropyl Ether	2.1385	1.8940	.05	11	20	
1,1-dichloroethane	1.1527	1.0926	.2	5	20	
cis-1,2-dichloroethene	100	100	.1	0	20	
2,2-dichloropropane	.85191	.94767	.05	-11	20	
bromochloromethane	100	101	.05	-1	20	
chloroform	1.0755	1.0951	.2	-2	20	
carbontetrachloride	.76203	.8182	.1	-7	20	
tetrahydrofuran	.17502	.18976	.05	-8	20	
1,1,1-trichloroethane	.91812	.94518	.1	-3	20	
Tertiary-Amyl Methyl Ether	1.2683	1.2860	.05	-1	20	
1,1-dichloropropene	.7968	.77474	.05	3	20	
2-butanone	.22243	.24758	.1	-11	20	
benzene	2.2903	2.2606	.5	1	20	
1,2-dichloroethane	.75397	.79691	.1	-6	20	
trichloroethene	.63792	.70178	.2	-10	20	
dibromomethane	.31609	.3447	.05	-9	20	
1,2-dichloropropane	.61333	.5968	.1	3	20	
bromodichloromethane	.74607	.73464	.2	2	20	
1,4-dioxane	.00319	.00344	.05	-8	20	F
cis-1,3-dichloropropene	.87416	.82615	.2	5	20	
toluene	1.8157	1.5949	.4	12	20	
tetrachloroethene	.74796	.7497	.2	0	20	
4-methyl-2-pentanone	.16749	.17564	.1	-5	20	
trans-1,3-dichloropropene	.92796	.78606	.1	15	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1119718

Instrument ID: Jack.i Calibration Date: 01-DEC-2011 Time: 05:31

Lab File ID: 1201A02 Init. Calib. Date(s): 10-NOV-2 10-NOV-2

Sample No: 8260 ccal Init. Calib. Times : 14:21 21:23

Compound	$\overline{RRF}$	RRF	MIN RRF	%D	MAX %D	
1,1,2-trichloroethane	.45137	.42485	.1	6	20	
chlorodibromomethane	.64857	.57438	.1	11	20	
1,3-dichloropropane	.93918	.85855	.05	9	20	
1,2-dibromoethane	.54407	.54818	.1	-1	20	
2-hexanone	.4117	.37761	.1	8	20	
chlorobenzene	2.0752	1.8414	.5	11	20	
ethyl benzene	3.2981	3.0144	.1	9	20	
1,1,1,2-tetrachloroethane	.69042	.63618	.05	8	20	
p/m xylene	1.3257	1.2173	.1	8	20	
o xylene	1.3137	1.2497	.3	5	20	
styrene	2.1822	2.0433	.3	6	20	
bromoform	.64151	.55323	.1	14	20	
isopropylbenzene	2.9459	2.8897	.1	2	20	
bromobenzene	1.6159	1.4092	.05	13	20	
n-propylbenzene	5.8297	5.1809	.05	11	20	
1,1,2,2,-tetrachloroethane	1.1047	1.0179	.3	8	20	
2-chlorotoluene	4.3792	3.7243	.05	15	20	
1,2,3-trichloropropane	.90969	.85268	.05	6	20	
1,3,5-trimethybenzene	4.4275	3.7551	.05	15	20	
4-chorotoluene	4.1184	3.3133	.05	20	20	
tert-butylbenzene	3.4029	3.1344	.05	8	20	
1,2,4-trimethylbenzene	4.3644	3.9208	.05	10	20	
sec-butylbenzene	4.4185	3.9069	.05	12	20	
p-isopropyltoluene	3.8239	3.6011	.05	6	20	
1,3-dichlorobenzene	2.7419	2.4486	.6	11	20	
1,4-dichlorobenzene	2.8112	2.5128	.5	11	20	
n-butylbenzene	2.8295	2.5908	.05	8	20	
1,2-dichlorobenzene	2.5926	2.3509	.4	9	20	
1,2-dibromo-3-chloropropane	.15731	.15065	.05	4	20	
hexachlorobutadiene	.39755	.33545	.05	16	20	
1,2,4-trichlorobenzene	1.1345	.90701	.2	20	20	F
naphthalene	2.4775	1.9701	.05	20	20	F
1,2,3-trichlorobenzene	.856	.73921	.05	14	20	
dibromofluoromethane	.25814	.28095	.05	-9	20	
1,2-dichloroethane-d4	.28047	.31084	.05	-11	20	
toluene-d8	1.2197	1.1414	.05	6	20	
4-bromofluorobenzene	.87305	.79529	.05	9	20	

FORM VII MCP-8260-10

ANALYTICAL REPORT

Lab Number:	L1120532
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Denis Bell
Phone:	(617) 886-7300
Project Name:	319 A STREET
Project Number:	32384-403
Report Date:	12/13/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1120532-01	HA11-05A (OW)	Not Specified	11/28/11 13:30

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

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.

Semivolatile Organics

The surrogate recoveries for the WG507133-1 Method Blank, associated with L1120532-01, are below the acceptance criteria for 2-Fluorophenol, Phenol-d6, and 2,4,6-Tribromophenol (All at 0%). The associated sample is non-detect and has acceptable surrogate recoveries; therefore, no further actions were taken.

The WG507133-2/-3 LCS/LCSD recoveries, associated with L1120532-01, were above the acceptance criteria for 2,4-Dinitrotoluene (108%/108%), p-Chloro-m-cresol (100%/99%) and 4-Nitrophenol (LCS at 93%); however, the associated sample was non-detect for these target compounds. The results of the original analysis are reported.

The WG507133-2/-3 LCS/LCSD RPDs, associated with L1120532-01, are above the acceptance criteria for 1,2,4-Trichlorobenzene (47%), 1,2-Dichlorobenzene (40%), 1,4-Dichlorobenzene (49%), 4-Nitrophenol (82%), and Phenol (95%).

Project Name: 319 A STREET **Lab Number:** L1120532
Project Number: 32384-403 **Report Date:** 12/13/11

Case Narrative (continued)

PCBs

The surrogate recoveries for the WG507167-4 Laboratory Duplicate, performed on L1120532-01, are above the acceptance criteria for 2,4,5,6-Tetrachloro-m-xylene (174%) and Decachlorobiphenyl (214%). The associated sample has acceptable surrogate recoveries, and the Duplicate RPDs are within method criteria; therefore, no further action was taken.

Metals

The WG507274-3 Laboratory Duplicate RPD, performed on L1120532-01, is outside the acceptance criteria for Antimony (54%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

Chloride

L1120532-01 has an elevated detection limit due to the dilution required to quantitate the result within the calibration range.

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: 12/13/11

ORGANICS

VOLATILES

Project Name: 319 A STREET
Project Number: 32384-403
Lab Number: L1120532
Report Date: 12/13/11

SAMPLE RESULTS

Lab ID:	L1120532-01	Date Collected:	11/28/11 13:30
Client ID:	HA11-05A (OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	14,504.1	Extraction Date:	12/12/11 11:30
Analytical Date:	12/12/11 13:01		
Analyst:	SH		

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

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 14,504.1
Analytical Date: 12/12/11 12:14
Analyst: SH

Extraction Date: 12/12/11 11:30

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG507479-1					
1,2-Dibromoethane	ND		ug/l	0.010	--
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010	--

Lab Control Sample Analysis

Batch Quality Control

Project Name: 319 A STREET

Project Number: 32384-403

Lab Number: L1120532

Report Date: 12/13/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG507479-2 WG507479-3								
1,2-Dibromoethane	104		103		70-130	1		20
1,2-Dibromo-3-chloropropane	111		109		70-130	2		20

SEMIVOLATILES

Project Name: 319 A STREET **Lab Number:** L1120532

Project Number: 32384-403 **Report Date:** 12/13/11

SAMPLE RESULTS

Lab ID:	L1120532-01	Date Collected:	11/28/11 13:30
Client ID:	HA11-05A (OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C	Extraction Date:	12/09/11 14:45
Analytical Date:	12/10/11 16:54		
Analyst:	JB		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzidine	ND		ug/l	20	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	20	--	1
Isophorone	ND		ug/l	5.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	--	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	--	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	2.0	--	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	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
n-Nitrosodimethylamine	ND		ug/l	2.0	--	1

Project Name: 319 A STREET **Lab Number:** L1120532

Project Number: 32384-403 **Report Date:** 12/13/11

SAMPLE RESULTS

Lab ID:	L1120532-01	Date Collected:	11/28/11 13:30
Client ID:	HA11-05A (OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
P-Chloro-M-Cresol	ND		ug/l	2.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
4,6-Dinitro-o-cresol	ND		ug/l	10	--	1
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	2.0	--	1
Carbazole	ND		ug/l	2.0	--	1
Pyridine	ND		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	96		15-120
2,4,6-Tribromophenol	119		10-120
4-Terphenyl-d14	114		41-149

Project Name: 319 A STREET
Project Number: 32384-403
Lab Number: L1120532
Report Date: 12/13/11

SAMPLE RESULTS

Lab ID:	L1120532-01	Date Collected:	11/28/11 13:30
Client ID:	HA11-05A (OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270C-SIM	Extraction Date:	12/12/11 16:06
Analytical Date:	12/13/11 09:53		
Analyst:	HL		

Parameter	Result	Qualifier	Units	RL	MDL	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	ND		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	ND		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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	81		41-149

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 12/10/11 15:40
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 12/09/11 14:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG507133-1					
Acenaphthene	ND		ug/l	2.0	--
Benzidine	ND		ug/l	20	--
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Hexachlorobenzene	ND		ug/l	2.0	--
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--
2-Chloronaphthalene	ND		ug/l	2.0	--
1,2-Dichlorobenzene	ND		ug/l	2.0	--
1,3-Dichlorobenzene	ND		ug/l	2.0	--
1,4-Dichlorobenzene	ND		ug/l	2.0	--
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--
2,4-Dinitrotoluene	ND		ug/l	5.0	--
2,6-Dinitrotoluene	ND		ug/l	5.0	--
Azobenzene	ND		ug/l	2.0	--
Fluoranthene	ND		ug/l	2.0	--
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--
Hexachlorobutadiene	ND		ug/l	2.0	--
Hexachlorocyclopentadiene	ND		ug/l	20	--
Hexachloroethane	ND		ug/l	2.0	--
Isophorone	ND		ug/l	5.0	--
Naphthalene	ND		ug/l	2.0	--
Nitrobenzene	ND		ug/l	2.0	--
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	--
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--
Dimethyl phthalate	ND		ug/l	5.0	--

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 12/10/11 15:40
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 12/09/11 14:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG507133-1					
Benzo(a)anthracene	ND		ug/l	2.0	--
Benzo(a)pyrene	ND		ug/l	2.0	--
Benzo(b)fluoranthene	ND		ug/l	2.0	--
Benzo(k)fluoranthene	ND		ug/l	2.0	--
Chrysene	ND		ug/l	2.0	--
Acenaphthylene	ND		ug/l	2.0	--
Anthracene	ND		ug/l	2.0	--
Benzo(ghi)perylene	ND		ug/l	2.0	--
Fluorene	ND		ug/l	2.0	--
Phenanthrene	ND		ug/l	2.0	--
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	--
Pyrene	ND		ug/l	2.0	--
Aniline	ND		ug/l	2.0	--
4-Chloroaniline	ND		ug/l	5.0	--
1-Methylnaphthalene	ND		ug/l	2.0	--
2-Nitroaniline	ND		ug/l	5.0	--
3-Nitroaniline	ND		ug/l	5.0	--
4-Nitroaniline	ND		ug/l	5.0	--
Dibenzofuran	ND		ug/l	2.0	--
2-Methylnaphthalene	ND		ug/l	2.0	--
n-Nitrosodimethylamine	ND		ug/l	2.0	--
2,4,6-Trichlorophenol	ND		ug/l	5.0	--
P-Chloro-M-Cresol	ND		ug/l	2.0	--
2-Chlorophenol	ND		ug/l	2.0	--
2,4-Dichlorophenol	ND		ug/l	5.0	--
2,4-Dimethylphenol	ND		ug/l	5.0	--
2-Nitrophenol	ND		ug/l	10	--
4-Nitrophenol	ND		ug/l	10	--
2,4-Dinitrophenol	ND		ug/l	20	--
4,6-Dinitro-o-cresol	ND		ug/l	10	--

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 12/10/11 15:40
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 12/09/11 14:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG507133-1					
Pentachlorophenol	ND		ug/l	10	--
Phenol	ND		ug/l	5.0	--
2-Methylphenol	ND		ug/l	5.0	--
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--
2,4,5-Trichlorophenol	ND		ug/l	5.0	--
Benzoic Acid	ND		ug/l	50	--
Benzyl Alcohol	ND		ug/l	2.0	--
Carbazole	ND		ug/l	2.0	--
Pyridine	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	21-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	93		15-120
2,4,6-Tribromophenol	**0**	Q	10-120
4-Terphenyl-d14	104		41-149

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C-SIM
Analytical Date: 12/13/11 00:45
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 12/12/11 16:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG507566-1					
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: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C-SIM
Analytical Date: 12/13/11 00:45
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 12/12/11 16:06

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG507566-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	85		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

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: WG507133-2 WG507133-3								
Acenaphthene	85		70		37-111	19		30
1,2,4-Trichlorobenzene	86		53		39-98	**47**	Q	30
2-Chloronaphthalene	109		82		40-140	28		30
1,2-Dichlorobenzene	84		56		40-140	**40**	Q	30
1,4-Dichlorobenzene	84		51		36-97	**49**	Q	30
2,4-Dinitrotoluene	**108**	Q	**108**	Q	24-96	0		30
2,6-Dinitrotoluene	101		103		40-140	2		30
Fluoranthene	98		102		40-140	4		30
4-Chlorophenyl phenyl ether	97		88		40-140	10		30
n-Nitrosodi-n-propylamine	75		73		41-116	3		30
Butyl benzyl phthalate	107		114		40-140	6		30
Anthracene	96		95		40-140	1		30
Pyrene	97		99		26-127	2		30
P-Chloro-M-Cresol	**100**	Q	**99**	Q	23-97	1		30
2-Chlorophenol	84		72		27-123	15		30
2-Nitrophenol	88		83		30-130	6		30
4-Nitrophenol	**93**	Q	39		10-80	**82**	Q	30
2,4-Dinitrophenol	77		92		20-130	18		30
Pentachlorophenol	89		95		9-103	7		30
Phenol	82		29		12-110	**95**	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 319 A STREET

Project Number: 32384-403

Lab Number: L1120532

Report Date: 12/13/11

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: WG507133-2 WG507133-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		47		21-120
Phenol-d6	85		31		10-120
Nitrobenzene-d5	88		89		23-120
2-Fluorobiphenyl	97		102		15-120
2,4,6-Tribromophenol	109		115		10-120
4-Terphenyl-d14	104		118		41-149

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG507566-2 WG507566-3

Acenaphthene	76		74		37-111	3		40
2-Chloronaphthalene	101		101		40-140	0		40
Fluoranthene	93		96		40-140	3		40
Anthracene	82		83		40-140	1		40
Pyrene	90		94		26-127	4		40
Pentachlorophenol	85		79		9-103	7		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 319 A STREET

Project Number: 32384-403

Lab Number: L1120532

Report Date: 12/13/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG507566-2 WG507566-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	39		37		21-120
Phenol-d6	27		25		10-120
Nitrobenzene-d5	79		77		23-120
2-Fluorobiphenyl	73		73		15-120
2,4,6-Tribromophenol	95		103		10-120
4-Terphenyl-d14	85		89		41-149

PCBS

Project Name: 319 A STREET
Project Number: 32384-403
Lab Number: L1120532
Report Date: 12/13/11

SAMPLE RESULTS

Lab ID:	L1120532-01	Date Collected:	11/28/11 13:30
Client ID:	HA11-05A (OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 608
Analytical Method:	5,608	Extraction Date:	12/09/11 15:37
Analytical Date:	12/11/11 11:45	Cleanup Method1:	EPA 3665A
Analyst:	SH	Cleanup Date1:	12/10/11
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	12/10/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.250	--	1
Aroclor 1221	ND		ug/l	0.250	--	1
Aroclor 1232	ND		ug/l	0.250	--	1
Aroclor 1242	ND		ug/l	0.250	--	1
Aroclor 1248	ND		ug/l	0.250	--	1
Aroclor 1254	ND		ug/l	0.250	--	1
Aroclor 1260	ND		ug/l	0.250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	61		30-150	A

Project Name: 319 A STREET

Project Number: 32384-403

Lab Number: L1120532

Report Date: 12/13/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,608
Analytical Date: 12/11/11 10:42
Analyst: SH

Extraction Method: EPA 608
Extraction Date: 12/09/11 15:37
Cleanup Method1: EPA 3665A
Cleanup Date1: 12/10/11
Cleanup Method2: EPA 3660B
Cleanup Date2: 12/10/11

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG507167-1					
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	59		30-150	A
Decachlorobiphenyl	123		30-150	A

Matrix Spike Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403
Lab Number: L1120532
Report Date: 12/13/11

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: WG507167-3 QC Sample: L1120532-01 Client ID: HA11-05A (OW)												
Aroclor 1016	ND	1	1.22	122		-	-		40-126	-		30
Aroclor 1260	ND	1	1.25	125		-	-		40-127	-		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	*Column*
2,4,5,6-Tetrachloro-m-xylene	104				30-150	A
Decachlorobiphenyl	120				30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 319 A STREET

Project Number: 32384-403

Lab Number: L1120532

Report Date: 12/13/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG507167-2								
Aroclor 1016	84		-		40-126	-		30
Aroclor 1260	99		-		40-127	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56				30-150	A
Decachlorobiphenyl	119				30-150	A

Lab Duplicate Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507167-4 QC Sample: L1120532-01 Client ID: HA11-05A (OW)						
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	**87**		**174**	Q	30-150	A
Decachlorobiphenyl	**61**		**214**	Q	30-150	A

METALS

Project Name: 319 A STREET
Project Number: 32384-403
Lab Number: L1120532
Report Date: 12/13/11

SAMPLE RESULTS

Lab ID: L1120532-01
Client ID: HA11-05A (OW)
Sample Location: Not Specified
Matrix: Water

Date Collected: 11/28/11 13:30
Date Received: 11/28/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Antimony, Total	0.0031		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:19	EPA 3005A	1,6020	SE
Arsenic, Total	0.0129		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:19	EPA 3005A	1,6020	SE
Cadmium, Total	ND		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:19	EPA 3005A	1,6020	SE
Chromium, Total	ND		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:19	EPA 3005A	1,6020	SE
Copper, Total	0.0010		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:19	EPA 3005A	1,6020	SE
Iron, Total	2.6		mg/l	0.05	--	1	12/09/11 19:40	12/12/11 10:09	EPA 3005A	19,200.7	MG
Lead, Total	0.0011		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:19	EPA 3005A	1,6020	SE
Mercury, Total	ND		mg/l	0.0002	--	1	12/10/11 17:30	12/12/11 12:22	EPA 245.1	3,245.1	JP
Nickel, Total	0.0015		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:19	EPA 3005A	1,6020	SE
Selenium, Total	ND		mg/l	0.001	--	1	12/09/11 19:40	12/12/11 16:19	EPA 3005A	1,6020	SE
Silver, Total	ND		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:19	EPA 3005A	1,6020	SE
Zinc, Total	0.0101		mg/l	0.0050	--	1	12/09/11 19:40	12/12/11 16:19	EPA 3005A	1,6020	SE

Project Name: 319 A STREET **Lab Number:** L1120532

Project Number: 32384-403 **Report Date:** 12/13/11

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG507272-1										
Iron, Total	ND		mg/l	0.05	--	1	12/09/11 19:40	12/12/11 10:01	19,200.7	MG

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG507274-1										
Antimony, Total	ND		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:27	1,6020	SE
Arsenic, Total	ND		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:27	1,6020	SE
Cadmium, Total	ND		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:27	1,6020	SE
Chromium, Total	ND		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:27	1,6020	SE
Copper, Total	ND		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:27	1,6020	SE
Lead, Total	ND		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:27	1,6020	SE
Nickel, Total	ND		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:27	1,6020	SE
Selenium, Total	ND		mg/l	0.001	--	1	12/09/11 19:40	12/12/11 16:27	1,6020	SE
Silver, Total	ND		mg/l	0.0005	--	1	12/09/11 19:40	12/12/11 16:27	1,6020	SE
Zinc, Total	ND		mg/l	0.0050	--	1	12/09/11 19:40	12/12/11 16:27	1,6020	SE

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG507333-1										
Mercury, Total	ND		mg/l	0.0002	--	1	12/10/11 17:30	12/12/11 12:19	3,245.1	JP

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG507272-2								
Iron, Total	96		-		85-115	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG507274-2								
Antimony, Total	82		-		80-120	-		
Arsenic, Total	95		-		80-120	-		
Cadmium, Total	102		-		80-120	-		
Chromium, Total	91		-		80-120	-		
Copper, Total	97		-		80-120	-		
Lead, Total	95		-		80-120	-		
Nickel, Total	93		-		80-120	-		
Selenium, Total	95		-		80-120	-		
Silver, Total	93		-		80-120	-		
Zinc, Total	89		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG507333-2								
Mercury, Total	110		-		85-115	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

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: WG507272-4 QC Sample: L1120532-01 Client ID: HA11-05A (OW)												
Iron, Total	2.6	1	3.7	110		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507274-4 QC Sample: L1120532-01 Client ID: HA11-05A (OW)												
Antimony, Total	0.0031	0.5	0.4502	89		-	-		80-120	-		20
Arsenic, Total	0.0129	0.12	0.1342	101		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.0485	95		-	-		80-120	-		20
Chromium, Total	ND	0.2	0.1775	89		-	-		80-120	-		20
Copper, Total	0.0010	0.25	0.2274	90		-	-		80-120	-		20
Lead, Total	0.0011	0.51	0.4703	92		-	-		80-120	-		20
Nickel, Total	0.0015	0.5	0.4434	88		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.108	90		-	-		80-120	-		20
Silver, Total	ND	0.05	0.0439	88		-	-		80-120	-		20
Zinc, Total	0.0101	0.5	0.4202	82		-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507333-4 QC Sample: L1120588-01 Client ID: MS Sample												
Mercury, Total	0.0041	0.001	0.0020	**0**		-	-		70-130	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507272-3 QC Sample: L1120532-01 Client ID: HA11-05A (OW)						
Iron, Total	2.6	2.7	mg/l	4		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507274-3 QC Sample: L1120532-01 Client ID: HA11-05A (OW)						
Antimony, Total	0.0031	0.0018	mg/l	**54**	Q	20
Arsenic, Total	0.0129	0.0133	mg/l	4		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	ND	0.0006	mg/l	NC		20
Copper, Total	0.0010	0.0011	mg/l	2		20
Lead, Total	0.0011	0.0011	mg/l	0		20
Nickel, Total	0.0015	0.0014	mg/l	11		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.0101	0.0096	mg/l	5		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507333-3 QC Sample: L1120588-01 Client ID: DUP Sample						
Mercury, Total	0.0041	0.0039	mg/l	5		20

INORGANICS
&
MISCELLANEOUS

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

SAMPLE RESULTS

Lab ID: L1120532-01
Client ID: HA11-05A (OW)
Sample Location: Not Specified
Matrix: Water

Date Collected: 11/28/11 13:30
Date Received: 11/28/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	35		mg/l	5.0	NA	1	-	12/12/11 13:40	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005	--	1	12/09/11 22:10	12/12/11 16:56	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	12/09/11 23:40	30,4500CL-D	KK
TPH	ND		mg/l	4.00	--	1	12/12/11 09:15	12/13/11 14:30	74,1664A	JO
Phenolics, Total	ND		mg/l	0.03	--	1	12/12/11 17:35	12/12/11 23:34	4,420.1	TP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	12/10/11 02:00	12/10/11 02:10	30,3500CR-D	DE
Anions by Ion Chromatography - Westborough Lab										
Chloride	1500		mg/l	50	--	100	-	12/13/11 00:43	44,300.0	AU

Project Name: 319 A STREET **Lab Number:** L1120532

Project Number: 32384-403 **Report Date:** 12/13/11

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG507208-1										
Cyanide, Total	ND		mg/l	0.005	--	1	12/09/11 22:10	12/12/11 16:40	30,4500CN-CE	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG507227-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	12/09/11 23:40	30,4500CL-D	KK
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG507246-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	12/10/11 02:00	12/10/11 02:09	30,3500CR-D	DE
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG507394-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/12/11 13:40	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG507423-2										
TPH	ND		mg/l	4.00	--	1	12/12/11 09:15	12/13/11 14:30	74,1664A	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG507584-1										
Phenolics, Total	ND		mg/l	0.03	--	1	12/12/11 17:35	12/12/11 23:32	4,420.1	TP
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG507643-1										
Chloride	ND		mg/l	0.50	--	1	-	12/12/11 23:54	44,300.0	AU

Lab Control Sample Analysis

Batch Quality Control

Project Name: 319 A STREET

Project Number: 32384-403

Lab Number: L1120532

Report Date: 12/13/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG507208-2								
Cyanide, Total	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG507227-2								
Chlorine, Total Residual	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG507246-2								
Chromium, Hexavalent	106		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG507423-1								
TPH	90		-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG507584-2								
Phenolics, Total	98		-		82-111	-		12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG507643-2								
Chloride	108		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

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: WG507208-4 QC Sample: L1120428-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.216	108		-	-		90-110	-		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507246-4 QC Sample: L1120532-01 Client ID: HA11-05A (OW)												
Chromium, Hexavalent	ND	0.1	0.092	92		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507423-3 QC Sample: L1120320-01 Client ID: MS Sample												
TPH	ND	20.8	15.9	76		-	-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507584-3 QC Sample: L1120316-01 Client ID: MS Sample												
Phenolics, Total	ND	0.8	0.59	**74**	Q	-	-		77-124	-		12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507643-3 QC Sample: L1120532-01 Client ID: HA11-05A (OW)												
Chloride	1500	400	1900	111		-	-		40-151	-		18

Lab Duplicate Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507208-3 QC Sample: L1120428-02 Client ID: DUP Sample						
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507227-3 QC Sample: L1120532-01 Client ID: HA11-05A (OW)						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507246-3 QC Sample: L1120532-01 Client ID: HA11-05A (OW)						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507394-2 QC Sample: L1120329-01 Client ID: DUP Sample						
Solids, Total Suspended	120	120	mg/l	0		32
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507423-4 QC Sample: L1120320-17 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507584-4 QC Sample: L1120367-02 Client ID: DUP Sample						
Phenolics, Total	0.07	0.08	mg/l	**13**	Q	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507643-4 QC Sample: L1120532-01 Client ID: HA11-05A (OW)						
Chloride	1500	1400	mg/l	7		18

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1120532
Report Date: 12/13/11

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(*)
L1120532-01A	Amber 1000ml unpreserved	A	7	2.8	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1120532-01B	Amber 1000ml unpreserved	A	7	2.8	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1120532-01C	Amber 1000ml unpreserved	A	7	2.8	Y	Absent	PCB-608(7)
L1120532-01D	Amber 1000ml H2SO4 preserved	A	<2	2.8	Y	Absent	TPHENOL-420(28)
L1120532-01E	Amber 1000ml HCl preserved	A	N/A	2.8	Y	Absent	TPH-1664(28)
L1120532-01F	Amber 1000ml HCl preserved	A	N/A	2.8	Y	Absent	TPH-1664(28)
L1120532-01G	Plastic 250ml NaOH preserved	A	>12	2.8	Y	Absent	TCN-4500(14)
L1120532-01H	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	HEXCR-3500(1),TRC-4500(1)
L1120532-01I	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	TSS-2540(7)
L1120532-01J	Plastic 250ml HNO3 preserved	A	<2	2.8	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)
L1120532-01K	Plastic 250ml unpreserved	A	7	2.8	Y	Absent	CL-300(28)
L1120532-01L	Amber 1000ml unpreserved	A	7	2.8	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1120532-01M	Amber 1000ml unpreserved	A	7	2.8	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1120532-01O	Vial Na2S2O3 preserved	A	N/A	2.8	Y	Absent	504(14)
L1120532-01P	Vial HCl preserved	A	N/A	2.8	Y	Absent	-

Container Comments

L1120532-01K

*Values in parentheses indicate holding time in days

Project Name: 319 A STREET **Lab Number:** L1120532

Project Number: 32384-403 **Report Date:** 12/13/11

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.

LFB - Laboratory Fortified Blank: 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.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

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. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

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.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name:	319 A STREET	**Lab Number:**	L1120532
Project Number:	32384-403	**Report Date:**	12/13/11

Data Qualifiers

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. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: 319 A STREET **Lab Number:** L1120532
Project Number: 32384-403 **Report Date:** 12/13/11

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.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

74 Method 1664,Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

LIMITATION OF LIABILITIES

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

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

Certificate/Approval Program Summary

Last revised December 9, 2011 - Westboro Facility

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

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

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

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

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 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, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

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); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 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), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; 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,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 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-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, 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, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

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 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-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, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 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.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 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 NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson 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, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

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

Department of Defense Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
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 Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

Serial_No:12131116:45

ALPHA Job # L1120532 12/9/11

HALEY & ALDRICH

Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-

Phone (617) 886-7400
Fax (617) 886-7600

CHAIN OF CUSTODY RECORD

H&A FILE NO.	32384-403	LABORATORY	Alpha Woodshole Labs	DELIVERY DATE	11/28/11
PROJECT NAME	319 A Street	ADDRESS	Westborough, MA	TURNAROUND TIME	5-Day
H&A CONTACT	Denis Bell/Sandhya Potana	CONTACT	Gina Bartalameo	PROJECT MANAGER	Denis Bell

Analysis Requested

Sample No.	Date	Time	Depth	Type	1	1	1	4	1	1	1	3				Number of Containers
HA11-05A(OW)	11/28/2011	1330	NA	GW				X								6
HA11-02A (OW)	11/28/2011	1130	NA	GW												6
HA11-05A(OW)	11/28/2011	1330	NA	GW					1	1	1					18
8260 Trip Blank	11/28/11		NA	—												1
504 EDB Trip Blank	11/28/11		NA													1

30 pcs

Comments (special instructions, precautions, additional method numbers, etc.)

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

~~1. VOCs~~

~~2. EPH and [illegible]~~

~~3. VPH [illegible]~~

4. NPDES RGP Suite ~~(PLEASE PUT THIS ANALYSIS ON HOLD UNTIL WE CONFIRM)~~

~~5. Oil & grease (put on hold)~~

~~6. Dissolved metals (put on hold)~~

Sampled and Relinquished by	Received by
Sign [signature]	Sign [signature]
Print Owen Lawson	Print Wayne Plumer
Firm H&A	Firm Alpha
Date 11/28/11 Time 1530	Date 11/28/11 Time 1530

Relinquished by	Received by
Sign [signature]	Sign [signature]
Print Wayne Plumer	Print Jim Angell
Firm Alpha	Firm Alpha
Date 11/28/11 Time 1700	Date 11/28/11 Time 1700

Relinquished by	Received by
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID

														VOA Vial
														Amber Glass
														Plastic Bottle
														Preservative
														Volume

SOLID

														VOA Vial
														Amber Glass
														Clear Glass
														Preservative
														Volume

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Sodium Bisulfate

Sampling Comments

Please lab filter HA11-05A(OW) RGP sample for running dissolved metals.

Evidence samples were tampered with?
If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyze _____ hold for contingency testing the Drinking Water Field Duplicate and Drinking Water Trip Blank samples.

Required Reporting Limits and Data Quality Objectives

- ☐ RC-S1
- ☐ RC-S2
- ☐ RC-GW1
- ■ RC-GW2
- ☐ S1
- ☐ S2
- ☐ S3
- ☐ GW1
- ☐ GW2
- ☐ GW3

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

Form 3003 AUGUST 2003

ANALYTICAL REPORT

Lab Number:	L1200890
Client:	Haley & Aldrich, Inc. 465 Medford Street, Suite 2200 Charlestown, MA 02129-1400
ATTN:	Denis Bell
Phone:	(617) 886-7300
Project Name:	319 A STREET
Project Number:	32384-403
Report Date:	01/23/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1200890
Report Date: 01/23/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1200890-01	HA11-05A(OW)	Not Specified	11/28/11 13:30

Project Name: 319 A STREET **Lab Number:** L1200890
Project Number: 32384-403 **Report Date:** 01/23/12

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

Due to a laboratory oversight, the original filtrate could not be located. The sample was filtered from an unpreserved plastic container, but beyond the 24 hour required holding time.

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: Kelly Stenstrom

Title: Technical Director/Representative Date: 01/23/12

METALS

Project Name:	319 A STREET	**Lab Number:**	L1200890
Project Number:	32384-403	**Report Date:**	01/23/12

SAMPLE RESULTS

Lab ID:	L1200890-01	Date Collected:	11/28/11 13:30
Client ID:	HA11-05A(OW)	Date Received:	11/28/11
Sample Location:	Not Specified	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Iron, Dissolved	0.10		mg/l	0.05	--	1	01/21/12 08:20	01/23/12 09:17	EPA 3005A	19,200.7	AI

Project Name: 319 A STREET **Lab Number:** L1200890

Project Number: 32384-403 **Report Date:** 01/23/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01 Batch: WG514722-1										
Iron, Dissolved	ND		mg/l	0.05	--	1	01/21/12 08:20	01/23/12 08:59	19,200.7	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 319 A STREET

Project Number: 32384-403

Lab Number: L1200890

Report Date: 01/23/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 Batch: WG514722-2								
Iron, Dissolved	100		-		85-115	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1200890
Report Date: 01/23/12

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: WG514722-4 QC Sample: L1200890-01 Client ID: HA11-05A(OW)												
Iron, Dissolved	0.10	1	1.1	100		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1200890
Report Date: 01/23/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG514722-3 QC Sample: L1200890-01 Client ID: HA11-05A(OW)						
Iron, Dissolved	0.10	0.10	mg/l	0		20

Project Name: 319 A STREET
Project Number: 32384-403

Lab Number: L1200890
Report Date: 01/23/12

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(*)
L1200890-01A	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	-
L1200890-01X	Plastic 120ml unpreserved split	A	<2	2.8	Y	Absent	FE-RI(180)

Container Comments

L1200890-01A

*Values in parentheses indicate holding time in days

Project Name:	319 A STREET	**Lab Number:**	L1200890
Project Number:	32384-403	**Report Date:**	01/23/12

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

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

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. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
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.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report

Project Name: 319 A STREET **Lab Number:** L1200890

Project Number: 32384-403 **Report Date:** 01/23/12

Data Qualifiers

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. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: 319 A STREET **Lab Number:** L1200890
Project Number: 32384-403 **Report Date:** 01/23/12

REFERENCES

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 Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

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

Certificate/Approval Program Summary

Last revised January 3, 2012 - Westboro Facility

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

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

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

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

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3.3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 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, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

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); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 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), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; 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,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 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-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, 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, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

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 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-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, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 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.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 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 NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson 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, 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.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B.)

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, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
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 Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix.

ALPHA Job # L1105890 ~~L1119718~~

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-
Phone (617) 886-7400
Fax (617) 886-7600

CHAIN OF CUSTODY RECORD

H&A FILE NO.	32384-403	LABORATORY	Alpha Woodshole Labs	DELIVERY DATE	11/28/11
PROJECT NAME	319 A Street	ADDRESS	Westborough, MA	TURNAROUND TIME	5-Day
H&A CONTACT	Denis Bell/Sandhya Potana	CONTACT	Gina Bartalameo	PROJECT MANAGER	Denis Bell

Analysis Requested

	Sample No.	Date	Time	Depth	Type	1	2	3	4	5	6	7	8	FC-R1 PREP R				Number of Containers
01	HA11-05A(OW)	11/28/2011	1330	NA	GW	X	X	X						✓				6
	~~HA11-03A(OW)~~	~~11/28/2011~~	~~1130~~	~~NA~~	~~GW~~	~~X~~	~~X~~	~~X~~										6
	~~HA11-05A(OW)~~	~~11/28/2011~~	~~1330~~	~~NA~~	~~GW~~				~~X~~	~~X~~	~~X~~							~~18~~
	~~[illegible]~~	~~11/28/11~~		~~NA~~	~~—~~													~~1~~
	~~[illegible]~~	~~11/28/11~~		~~NA~~														~~1~~

30 pcs

Comments (special instructions, precautions, additional method numbers, etc.)

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

~~1. VOCs~~

~~2. EPH carbon ranges~~

~~3. VPH carbon ranges~~

~~4. NPDES RGP Suite (PLEASE PUT THIS ANALYSIS ON HOLD UNTIL WE CONFIRM)~~

~~5. Oil & grease (put on hold)~~

6. Dissolved metals (put on hold)

FC-R1, prep R

Sampled and Relinquished by	Received by
Sign [signature]	Sign [signature]
Print Owen Lawson	Print Wayne Plumer
Firm H&A	Firm Alpha
Date 11/28/11 Time 1530	Date 11/28/11 Time 1530
Relinquished by	**Received by**
Sign [signature]	Sign [signature]
Print Wayne Plumer	Print Jon Angell
Firm Alpha	Firm Alpha
Date 11/28/11 Time 1700	Date 11/28/11 Time 1700
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID

	VOA Vial	Amber Glass	Plastic Bottle	Preservative	Volume

SOLID

	VOA Vial	Amber Glass	Clear Glass	Preservative	Volume

Sampling Comments

Please lab filter HA11-05A(OW) RGP sample for running dissolved metals.

Evidence samples were tampered with?
If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Sodium Bisulfate

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyze _____ hold for contingency testing the Drinking Water Field Duplicate and Drinking Water Trip Blank samples.

Required Reporting Limits and Data Quality Objectives

☐ RC-S1	☐ S1	☐ GW1
☐ RC-S2	☐ S2	☐ GW2
☐ RC-GW1	☐ S3	☐ GW3
■ RC-GW2		

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact AUGUST 2003

Form 3003

Serial_No:01231216:00