MAG-910191

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

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

a) Name of **facility/site**: 11 Beach Street, Milford, MA (MADEP RTN 2-11986)		**Facility/site** address: [redacted]		
Location of **facility/site**: longitude: 71.51 latitude: 42.14	Facility SIC code(s): 4900	Street: 11 Beach Street		
b) Name of **facility/site owner:** [redacted]		Town: Milford		
Email address of owner: Daniel_Watton@nstaronline.com		State: MA	Zip: 01757	County: Worcester
Telephone no.of facility/site **owner**: (781) 441-3805				
Fax no. of facility/site **owner**: (781) 441-3193		**Owner** is (check one): 1. Federal____ 2. State/Tribal____ 3. Private ✓ 4. other, if so, describe:		
Address of **owner** (if different from site):				
Street: One NSTAR Way NE250				
Town: Westwood	State: MA	Zip: 02090	County: Norfolk	
c) Legal name of **operator**: [redacted]	**Operator** telephone no:			
	Operator fax no.:	**Operator** email:		
Operator contact name and title:				

Address of **operator** (if different from owner):	Street:		
Town:	State:	Zip:	County:

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

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes✓ No___
If "yes," please list:
1. site identification # assigned by the state of NH or MA: MADEP RTN 2-11986
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:
Mr. Robert Cubit MADEP BWSC, Worcester Regional Office, 508-767-2854

f) Is the site/facility covered by any other EPA permit, including:
1. multi-sector storm water general permit? Y___ N✓, if Y, number:
2. phase I or II construction storm water general permit? Y___ N✓,
if Y, number:
3. individual NPDES permit? Y___ N✓, if Y, number:
4. any other water quality related permit? Y___ N✓, if Y, number:

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

a) Describe the discharge activities for which the owner/applicant is seeking coverage:
Dewatering activities during excavation activities at a former manufactured gas plant (MGP) site. Water will be pumped from both the excavation and from a sump on the excavated soil containment pad.

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 [redacted] Average flow 0.02 Is maximum flow a **design value**? Y___ N✓ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. Average flow is expected to be less than 10 gpm, with a maximum of 20 gpm. Design value is 50 gpm or 0.11cfs.

3) Latitude and longitude of each discharge within 100 feet: pt.1:long. [redacted] lat. 42°08[redacted]; pt.2: long._____ lat._____; pt.3: long._____ lat._____;
pt.4:long._____ lat._____; pt.5: long._____ lat._____; pt.6:long._____ lat._____; pt.7: long._____ lat._____; pt.8:long._____ lat._____; etc.

4) If hydrostatic testing, total volume of the discharge (gals): N/A	5) Is the discharge intermittent ✓ or seasonal ____? Is discharge ongoing Yes ____ No ✓ ?
c) Expected dates of discharge (mm/dd/yy): start [redacted] end 04/01/07	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

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

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

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

PARAMETER	**Believe Absent**	**Believe Present**	**# of Samples (1 min-imum)**	**Type of Sample (e.g., grab)**	**Analytical Method Used (method #)**	**Minimum Level (ML) of Test Method**	**Maximum daily value**		**Avg. daily value**	
							concentration (ug/l)	**mass (kg)**	**concentration (ug/l)**	**mass (kg)**
1. Total Suspended Solids		✓	1	GW	160.2	100mg/L	unkno		unkno	
2. Total Residual Chlorine	✓		1	GW	330.1	.05mg/L				
3. Total Petroleum Hydrocarbons		✓	1	GW	1664A	4 mg/L				
4. Cyanide		✓	1	GW	335.2	.05mg/L				
5. Benzene		✓	1	GW	624	5ug/L				
6. Toluene		✓	1	GW	624	5ug/L				
7. Ethylbenzene		✓	1	GW	624	5ug/L				
8. (m,p,o) Xylenes		✓	1	GW	624	10ug/L				
9. Total BTEX[4]		✓	1	GW	624	10ug/L				

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓		1	GW	624	5ug/L				
11. Methyl-tert-Butyl Ether (MtBE)	✓		1	GW	624	100ug/L				
12. tert-Butyl Alcohol (TBA)	✓		1	GW	624	500ug/L				
13. tert-Amyl Methyl Ether (TAME)	✓		1	GW	624	100ug/L				
14. Naphthalene		✓	1	GW	8270C	20ug/L				
15. Carbon Tetra-chloride	✓		1	GW	624	5ug/L				
16. 1,4 Dichlorobenzene	✓		1	GW	624	25ug/L				
17. 1,2 Dichlorobenzene	✓		1	GW	624	25ug/L				
18. 1,3 Dichlorobenzene	✓		1	GW	624	25ug/L				
19. 1,1 Dichloroethane	✓		1	GW	624	7.5ug/L				
20. 1,2 Dichloroethane	✓		1	GW	624	7.5ug/L				
21. 1,1 Dichloroethylene	✓		1	GW	624	5ug/L				
22. cis-1,2 Dichloro-ethylene	✓		1	GW	624	5ug/L				
23. Dichloromethane (Methylene Chloride)	✓		1	GW	624	25ug/L				
24. Tetrachloroethylene	✓		1	GW	624	7.5ug/L				

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		1	GW	624	10ug/L				
26. 1,1,2 Trichloroethane	✓		1	GW	624	7.5ug/L				
27. Trichloroethylene	✓		1	GW	624	5ug/L				
28. Vinyl Chloride	✓		1	GW	624	10ug/L				
29. Acetone	✓		1	GW	624	50ug/L				
30. 1,4 Dioxane	✓		1	GW	624	10mg/L				
31. Total Phenols	✓		1	GW	8270C	510ug/L				
32. Pentachlorophenol	✓		1	GW	8270C	80ug/L				
33. Total Phthalates [5] (Phthalate esthers)	✓		1	GW	8270C	260ug/L				
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	GW	8270C	260ug/L				
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)										
a. Benzo(a) Anthracene		✓	1	GW	8270C	20ug/L				
b. Benzo(a) Pyrene		✓	1	GW	8270C	20ug/L				
c. Benzo(b)Fluoranthene		✓	1	GW	8270C	20ug/L				
d. Benzo(k) Fluoranthene		✓	1	GW	8270C	20ug/L				
e. Chrysene		✓	1	GW	8270C	20ug/L				

[5] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (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)
f. Dibenzo(a,h) anthracene		✓	1	GW	8270C	20ug/L				
g. Indeno(1,2,3-cd) Pyrene		✓	1	GW	8270C	20ug/L				
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)										
h. Acenaphthene		✓	1	GW	8270C	20ug/L				
i. Acenaphthylene		✓	1	GW	8270C	20ug/L				
j. Anthracene		✓	1	GW	8270C	20ug/L				
k. Benzo(ghi) Perylene		✓	1	GW	8270C	20ug/L				
l. Fluoranthene		✓	1	GW	8270C	20ug/L				
m. Fluorene		✓	1	GW	8270C	20ug/L				
n. Naphthalene-		✓	1	GW	8270C	20ug/L				
o. Phenanthrene		✓	1	GW	8270C	20ug/L				
p. Pyrene		✓	1	GW	8270C	20ug/L				
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	GW	608	2.5ug/L				
38. Antimony	✓		1	GW	200.9	5ug/L				
39. Arsenic		✓	1	GW	200.7	5ug/L				
40. Cadmium		✓	1	GW	213.2	0.2ug/L				
41. Chromium III		✓	1	GW	200.7	10ug/L				
42. Chromium VI	✓		1	GW	3500C	10ug/L				

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		✓	1	GW	200.7	10ug/L				
44. Lead		✓	1	GW	200.9	10ug/L				
45. Mercury		✓	1	GW	245.2	0.2ug/L				
46. Nickel		✓	1	GW	200.7	25ug/L				
47. Selenium		✓	1	GW	200.7	5ug/L				
48. Silver		✓	1	GW	272.2	0,4ug/L				
49. Zinc		✓	1	GW	200.7	50ug/L				
50. Iron		✓	1	GW	200.7	50ug/L				
Other (describe):										

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

Step 1: Do any of the metals in the influent have a **reasonable potential** to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y_✓_ N___	If yes, which metals? Arsenic, Cadmium, Copper, Lead, Mercury, Iron
Step 2: For any metals which have **reasonable potential** to exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: Arsenic, Cadmium, Copper, Lead, Mercury, Iron DF: 5.4	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y_✓_ N___ If "Yes," list which metals: Cadmium, Copper, Iron, Lead, Mercury

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

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

a. One weir (equal.) tank to hold water recovered from excavation sump, the dewatering pad, and the decontamination pad. b. Two cartridge filters to remove major TSS and/or one organo-clay adsorber to remove oil sheen, designed for a maximum flow of 50 gpm. c. One 2-unit (in series) GAC adsorption system, with a maximum flow of 50 gpm. d. Sufficient frac tanks to contain treated water while samples are analyzed before discharge during the first two weeks of operations. f. Pumps, peastone, Lay-flat hosing, and all appurtenances to the dewatering system. g. Discharge treated water to local storm sewer on Pond Street. See attached for plan.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ✓	Air stripper	Oil/water separator	Equalization tanks ✓	Bag filter	GAC filter ✓
	Chlorination	Dechlorination	Other (please describe): Cartridge filters will act like bag filters, but more effiective at removing solids, metals and NAPL. Organo-clay filter may be added to remove any oily sheen from the water prior to GAC filtration.			

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 10 gpm Maximum flow rate of treatment system 20 gpm Design flow rate of treatment system 50 gpm

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

No chemical additives will be used.

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

a) Identify the discharge pathway:	Direct____	Within facility__	Storm drain ✓	River/brook____	Wetlands____	Other (describe):

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

[redacted] If service to this storm drain is not operationally feasible, an alternative storm drain will be a storm drain directly discharging into the Charles River located near Beach Street, at latitude 42°08'36", longitude -71°30'47". Both locations were determined using the EPA TRI Site Locator Program.

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 [redacted],

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0.20 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes___ No✓ If yes, for which pollutant(s)?

Is there a TMDL? Yes___ No✓ If yes, for which pollutant(s)?

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

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes___No✓
Has any consultation with the federal services been completed ? No✓ or is consultation underway? Yes No✓
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (~~check~~ one):
a "no jeopardy" opinion? _____or written concurrence____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes_____ No✓ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes_____ No✓

7. Supplemental information. :

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

Cyanide: Please see attached laboratory analyses for groundwater samples colleted in October, 2005, in 2001, and 2003 on Table 1, as well as laboratory report for the October 2005 sample. Total cyanide in the October 2005 sample was detected at a concentration of 2.81 mg/L. However, TSS was 2,900 mg/L, and in addition, previous results for low-flow groundwater samples show that all groundwater concentrations of cyanide were below the EPA MCL of 200 ug/L. This indicates that the vast majority of cyanide in the October 2005 sample was bound to the solids in the sample, and very little was likely in the dissolved phase. Therefore cyanide is not expected to be a contaminant of concern in the dissolved phase of the influent water. Cyanide bound to solids will be removed by the cartridge filters and polishing GAC system. Dissolved cyanide will be analyzed at the influent and effluent of the treatment system in the first week of dewatering operations, with a request for cessation of cyanide sampling if the results are below compliance limits described in Appendix III Note 5 of the NPDES Remediation General Permit (RGP) (70 FR 53663) of 10 ug/L.

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:

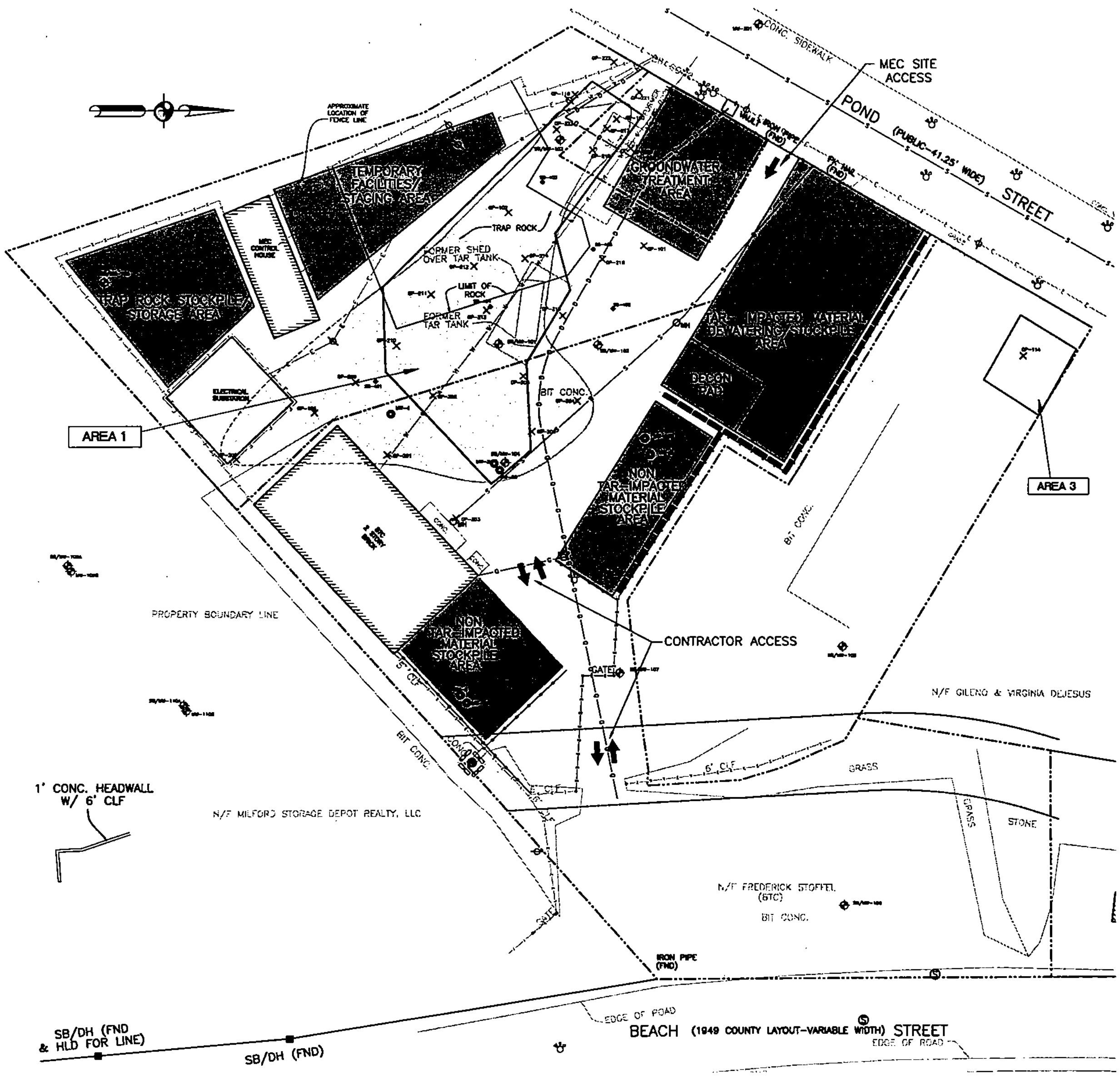
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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:	Beach St Milford MGP Site (RTN 2-11986) MADEP Regulated
Operator signature:	Dan Watton
Title:	NSTAR Electric & Gas Principal Environmental Engineer
Date:	28 Dec 2005

LOCUS MAP

1:25,000

SOURCE: MassGIS U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAP, 1982



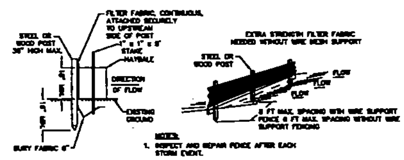
NOT FOR CONSTRUCTION

NOTES:

1. PROPOSED CONSTRUCTION VEHICLE ACCESS AND EGRESS VIA BEACH STREET.
2. A SATURATED SOIL DEWATERING PAD SHALL BE CONSTRUCTED IN THE TAR-IMPACTED MATERIAL DEWATERING/STOCKPILE AREA. IT SHALL BE IMPERMEABLE, SLOPED TO A SUMP AND BERMED TO A HEIGHT SUFFICIENT TO CONTAIN ALL PORE WATER, DECON WATER, AND THE DESIGN RAIN EVENT.
3. THE STOCKPILE/STORAGE AREA LOCATED SOUTH OF THE MEC CONTROL HOUSE SHALL STORE THE LAYER OF TRAP ROCK THAT COVERS AREA 1.
4. LOCATIONS OF ALL UTILITIES ARE APPROXIMATE AND THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT LOCATIONS IN THE FIELD BEFORE BEGINNING EXCAVATION.

LEGEND:

- SOIL BORING
- MONITORING WELL
- MONITORING WELL
- GEOPROBE SOIL BORING
- TELEPHONE POLE
- JERSEY BARRIERS
- ELECTRIC LINE
- EXISTING GAS LINE
- PROPOSED RELOCATED GAS LINE
- SANITARY SEWER LINE (ESTIMATED LOCATION)
- WATER LINE (ESTIMATED LOCATION)
- EXISTING FENCE LINE
- TEMPORARY FENCE LINE
- PROPERTY LINE
- APPROXIMATE EXTENT OF CONTAMINATION
- SILT FENCE/HAYBALE BARRIERS
- HAYBALES
- MANHOLE
- FILTER FABRIC
- AREA 1/AREA 3 EXTENT OF EXCAVATION



NOTES:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT.
2. ON PAVED AREAS, THE FABRIC SHALL NOT BE BURIED. THE FABRIC SHALL BE PLACED ON TOP OF EXISTING GROUND, BELOW THE HAY BALE, AND STAKED IN PLACE.
3. IF SUPPORT WIRE IS USED, THE WIRE SHALL BE SECURELY FASTENED TO THE UPSLOPE SIDE OF THE FENCE POSTS WITH WIRE TIES OR STAPLES. FASTEN FABRIC SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION, AND BOTTOM.

SILT FENCE SILTATION CONTROL DETAIL - N.T.S.

GRAPHIC SCALE: 1" = 20'

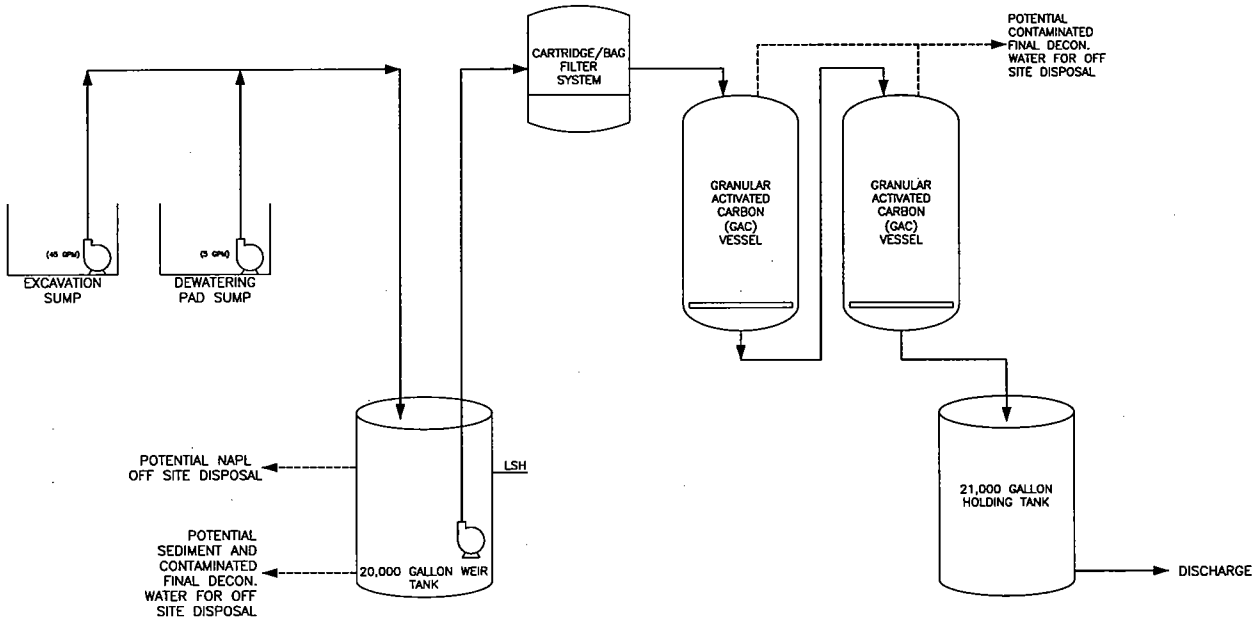
0 20' 40'

PROPOSED LAYOUT

11 BEACH STREET
MILFORD, MASSACHUSETTS

DESIGNED BY	A. HAMILTON	DRAWING NUMBER	SITE PLAN
CHECKED BY	K. WEEKS/K. SELLERS	PROJECT NUMBER	3-7883-0007
DRAWN BY	R. BORMAN/H. COUTO	FIGURE NUMBER	C-03
DATE DRAWN	5/10/05		

amec
Earth & Environmental
239 LITTLETON ROAD
SUITE 1B
WESTFORD, MASSACHUSETTS 01886
Phone: (978) 692-9090 Fax: (978) 692-6633 www.amec.com



NPDES Permit Exclusion Potential Discharge Requirements	
	mg/L
Total Suspended Solids	< 50
Total Petroleum Hydrocarbons	< 5.0
Cyanide	< 0.2 (1)
	ug/L
Polynuclear Aromatic Hydrocarbons	< 100
Naphthalene	< 20
Benzene	< 5.0

NOTES:
(1) MASSACHUSETTS GW-1 DRINKING WATER STANDARD (310 CMR 22.06)
(2) CYANIDE IS IN THE FORM OF PHYSIOLOGICALLY AVAILABLE CYANIDE

NOT FOR CONSTRUCTION

PROPOSED DEWATERING SYSTEM

11 BEACH STREET
MILFORD, MASSACHUSETTS

DESIGNED BY: A. HAMILTON	DRAWING NUMBER: PFD
CHECKED BY: K. WEDIG/K. SELLERS	PROJECT NUMBER: 9-7683-0007
DRAWN BY: R. BORMAN/H. COUTO	FIGURE NUMBER: C-06
DATE DRAWN: 8/10/05	

amec
239 LITTLETON ROAD
SUITE 1B
WESTFORD, MASSACHUSETTS
Phone: (978) 692-9090 Fax: (978) 692-6633 www.amec.com

Dewatering Activities at 11 Beach Street, Milford MA Construction Site

1. Dewatering. Dewatering will be implemented for all open excavation areas that are below the groundwater table, as well as the decontamination area and the leachate from the dewatering pad. The maximum design flow rate will be approximately 50 gallons per minute (gpm).

    a. Peastone will be placed under and over a sump pump located in the bottom of the excavation to limit dirt and other solid material from getting into the water pumped out of the excavation. Water will be pumped into a weir tank to separate out solids and liquids that are heavier than water as well as solids and liquids that are lighter than water.

    b. Sump pumps will also be located at the dewatering pad and at the decontamination pad. Collected water will be pumped to the weir tank.

    c. From the weir tank, the water will be either pumped or gravity fed to the water treatment system.

2. Water Treatment. The water treatment system will consist of a cartridge filter or other equipment to remove oil and sediments, and two 500-pound carbon filters units in series to remove benzene and other MAHs/PAHs. The system will be sized for 50 gpm maximum throughput. In this application, there may be oils in the influent water. Therefore a cartridge filter will be used for sediment and oil removal prior to carbon treatment. An organoclay filter may also be used.

    a. The inside of the weir tank will be decontaminated, as well as inside the cartridge filter housing, and hoses. Decontamination will be performed prior to installation and after construction is complete. Upon completion of construction activities, a "Spent Carbon ID Sheet" will be filled out with generator information prior to disposal of the carbon.

    b. Treated water will be initially pumped to one or more 21,000 gallon fractionation (frac) tanks for discharge pending analytical results. The presence of a second frac tank may provide a place for additional treated water to be stored while waiting for the analytical results for the second frac tank samples prior to discharge. Once results indicate that the discharge meets pertinent water quality standards, discharge will be direct to the storm drain on Pond Street.

    c. All electric pump power cords will have a Ground Fault Interrupter (GFI) inline; if a generator is used, it must have a built-in GFI.

    d. All leaks from holes or poor fittings that spill onto the parking area will be treated as an incident and will be cleaned promptly.

    e. At the end of each work day all hoses and the water treatment system will be properly drained. No hoses will be allowed on parking areas overnight. The frac tank pump will be pulled and left at the top of the tank. The depth of excavation left open overnight will be minimized by backfilling as soon as possible.

Table 1. Groundwater Sample Analytical Results
RTN 2-11986 11 Beach Street, Milford, Massachusetts

	LOCATION		MW-2-A	DUP_MW-2	MW-2	MW-8D	MW-8D	MW-101	MW-102	MW-103	MW-103	MW-104
	SAMPLING DATE		04/18/2001	04/18/2001	06/27/2003	06/27/2003	04/18/2001	06/24/2003	06/26/2003	02/05/2004	10/14/2005	06/27/2003
	LAB SAMPLE ID		L0103462-03	L0103462-04	L0306331-12	L0306331-10	L0103462-06	L0306154-02	L0306331-07	L0401038-01	L0512284-01	L0306331-09
Lab_Method	**Analyte**	**Units**									Unfiltered	
160.2	Total Suspended Solids	mg/L									2900	
2320B	Alkalinity, Total as CaCO3	mg/L	420				350					
335.2	Cyanide, Total	mg/L									2.81	
4500CN-E (M)	Cyanide, Free	ug/l	134	132	10 U	28	40					
4500NO3-F	Nitrogen, Nitrate	ug/l	110				110					
9014	Cyanide, Physiologically Available	ug/l	50	61	39	66	29	44	152	108		45
9030B	Sulfide	ug/l	890				2200					
	Polychlorinated Biphenyls											
60B	Aroclor 1221	ug/l									2.55U	
60B	Aroclor 1232	ug/l									2.55U	
60B	Arolclor 1242/1016	ug/l									2.55U	
60B	Aroclor 1248	ug/l									2.55U	
60B	Aroclor 1254	ug/l									2.55U	
60B	Arolclor 1260	ug/l									2.55U	
9040B	pH	SU										
	Metals 200.7 or 200.9 (Total)											
200.7 or 200.9	Arsenic	ug/l									19	
213.2	Cadmium	ug/l									1.6	
200.7 or 200.9	Chromium	ug/l									180	
200.7 or 200.9	Chromium (VI)	ug/l									10U	
200.7 or 200.9	Copper	ug/l									150	
200.7 or 200.9	Lead	ug/l									346	
245.2	Mercury	ug/l									3.8	
200.7 or 200.9	Nickel	ug/l									6.3	
200.7 or 200.9	Iron	ug/l									110,000	
272.2	Silver	ug/l									0.4	
200.7 or 200.9	Selenium	ug/l									5U	
200.7 or 200.9	Zinc	ug/l									50	
	Metals 6010B or 6020A (Dissolved)											
	Arsenic	ug/l			5 U	5 U		5 U	5 U			5 U
	Cadmium	ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U			5 U
	Chromium	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U			10 U
	Copper	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U			10 U
	Lead	ug/l	50 U	50 U	10 U	10 U	50 U	10 U	10 U			10 U
	Mercury	ug/l			0.5 U	0.5 U		0.5 U	0.5 U			0.5 U
	Nickel	ug/l	25 U	25 U	25 U	25 U	25 U	25 U	25 U			25 U
	Potassium	ug/l	5000	5400			7100					
	Silver	ug/l	10 U	10 U	7 U	7 U	10 U	7 U	7 U			7 U
	Sodium	ug/l	73000	73000			83000					
	Zinc	ug/l	160	180	50 U	50 U	70	50 U	50 U			50 U
	Volatile Petroleum Hydrocarbons											
98-1_VPH	Benzene	ug/l			470	895		9810	32	837		219
98-1_VPH	Ethylbenzene	ug/l			20 U	48.2		334	5.45	141		10.8
98-1_VPH	Methyl tert butyl ether	ug/l			40 U	50 U		400 U	4 U	200 U		20 U
98-1_VPH	Naphthalene	ug/l			646	990		12200	20 U	6390		1010
98-1_VPH	o-Xylene	ug/l			25.1	39.8		261	2 U	317		10 U
98-1_VPH	p/m-Xylene	ug/l			20 U	49.8		2160	2 U	531		34.4
98-1_VPH	Toluene	ug/l			20 U	41.9		5020	2 U	380		41.5
	Volatile Organics 624 (Total - Unfiltered)											
	1,1,1-Trichloroethane	ug/l									10U	
	1,1-Dichloroethane	ug/l									7.5U	
	1,2-Dichloroethane	ug/l									7.5U	
	Benzene	ug/l									140	
	Chloroethane	ug/l									10U	
	Chloroform	ug/l									7.5U	

Table 1. Groundwater Sample Analytical Results
RTN 2-11986 11 Beach Street, Milford, Massachusetts

	LOCATION		MW-2-A	DUP_MW-2	MW-2	MW-8D	MW-8D	MW-101	MW-102	MW-103	MW-103	MW-104
	SAMPLING DATE		04/18/2001	04/18/2001	06/27/2003	06/27/2003	04/18/2001	06/24/2003	06/26/2003	02/05/2004	10/14/2005	06/27/2003
	LAB SAMPLE ID		L0103462-03	L0103462-04	L0306331-12	L0306331-10	L0103462-06	L0306154-02	L0306331-07	L0401038-01	L0512284-01	L0306331-09
Lab_Method	**Analyte**	**Units**									Unfiltered	
	Ethylbenzene	ug/l									10	
	Methyl tert butyl ether	ug/l									100U	
	o-Xylene	ug/l									65	
	p/m-Xylene	ug/l									55	
	Styrene	ug/l									5U	
	Volatile Organics 8260											
8260B	1,1,1-Trichloroethane	ug/l	5 U	5 U			20 U					5 U
8260B	1,1-Dichloroethane	ug/l	7.5 U	7.5 U			30 U					7.5 U
8260B	1,2,4-Trimethylbenzene	ug/l	25 U	25 U			100 U					25 U
8260B	1,2-Dichloroethane	ug/l	5 U	5 U			20 U					6.7
8260B	1,3,5-Trimethylbenzene	ug/l	25 U	25 U			100 U					25 U
8260B	Benzene	ug/l	460	400			1400					220
8260B	Chloroethane	ug/l	10 U	10 U			40 U					10 U
8260B	Chloroform	ug/l	7.5 U	7.5 U			30 U					7.5 U
8260B	Ethylbenzene	ug/l	16	16			81					11
8260B	Isopropylbenzene	ug/l	25 U	25 U			100 U					5 U
8260B	Methyl tert butyl ether	ug/l	20 U	20 U			80 U					10 U
8260B	Naphthalene	ug/l	99	96			180					980
8260B	n-Propylbenzene	ug/l	25 U	25 U			100 U					5 U
8260B	o-Xylene	ug/l	24	23			21					15
8260B	p/m-Xylene	ug/l	23	22			20 U					34
8260B	p-Chlorotoluene	ug/l	25 U	25 U			100 U					25 U
8260B	p-Isopropyltoluene	ug/l	25 U	25 U			100 U					5 U
8260B	Styrene	ug/l	5 U	5 U			20 U					5.7
8260B	Toluene	ug/l	17	14			30 U					42
	Polycyclic Aromatic Hydrocarbons Low Extractable Petroleum Hydrocarbons											
8270C	1-Methylnaphthalene	ug/l	44	44	65	57		320	0.51		280	38
8270C	2-Chloronaphthalene	ug/l	5.3 U	5 U	8 U	2 U		50 U	0.2 U		150U	4 U
8270C or 98_1_EPH	2-Methylnaphthalene	ug/l	5.3 U	5 U	31	38		540	0.2 U	280	220	54
8270C or 98_1_EPH	Acenaphthene	ug/l	16	18	16	22		50 U	7.1	86.8	150	9.1
8270C or 98_1_EPH	Acenaphthylene	ug/l	7.3	7.6	28	35		340	0.45	41.8	160	38
8270C or 98_1_EPH	Anthracene	ug/l	5.3 U	5 U	8 U	5.4		50 U	0.2 U	40 U	380	5.9
8270C or 98_1_EPH	Benzo(a)anthracene	ug/l	5.3 U	5 U	8 U	2 U		50 U	0.2 U	40 U	350	4 U
8270C or 98_1_EPH	Benzo(a)pyrene	ug/l	5.3 U	5 U	4 U	1 U		50 U	0.1 U	20 U	300	2 U
8270C or 98_1_EPH	Benzo(b)fluoranthene	ug/l	5.3 U	5 U	8 U	2 U		50 U	0.2 U	40 U	230	4 U
8270C	Benzo(e)pyrene	ug/l	5.3 U	5 U	8 U	2 U		50 U	0.2 U		170	4 U
8270C or 98_1_EPH	Benzo(g,h,i)perylene	ug/l	5.3 U	5 U	8 U	2 U		50 U	0.2 U	40 U	140	4 U
8270C or 98_1_EPH	Benzo(k)fluoranthene	ug/l	5.3 U	5 U	8 U	2 U		50 U	0.2 U	40 U	250	4 U
8270C	Biphenyl	ug/l	5.3 U	5 U	8 U	2 U		50 U	0.2 U		130U	4 U
8270C or 98_1_EPH	Chrysene	ug/l	5.3 U	5 U	8 U	2 U		50 U	0.2 U	40 U	300	4 U
8270C or 98_1_EPH	Dibenzo(a,h)anthracene	ug/l	5.3 U	5 U	8 U	2 U		50 U	0.2 U	40 U	130U	4 U
8270C or 98_1_EPH	Fluoranthene	ug/l	5.3 U	5 U	8 U	9.3		50 U	0.2 U	42.1	920	5.7
8270C or 98_1_EPH	Fluorene	ug/l	5.3 U	5 U	9	26		98	2	131	330	24
8270C or 98_1_EPH	Indeno(1,2,3-cd)pyrene	ug/l	5.3 U	5 U	8 U	2 U		50 U	0.2 U	40 U	180	4 U
8270C or 98_1_EPH	Naphthalene	ug/l	140	150	520	400		11000	0.84	4040	1600	540
8270C	Perylene	ug/l	5.3 U	5 U	8 U	2 U		50 U	0.2 U		130U	4 U
8270C or 98_1_EPH	Phenanthrene	ug/l	5.3 U	5 U	20	41		93	0.2 U	167	1000	31
8270C or 98_1_EPH	Pyrene	ug/l	5.3 U	5 U	8 U	6.1		50 U	0.2 U	40 U	650	4 U
98-1_EPH	C11-C22 Aromatics, Adjusted	ug/l			341	315		2870	111 U	1000 U		199
98-1_EPH	C19-C36 Aliphatics	ug/l			115 U	106 U		2380 U	111 U	1000 U		108 U
98-1_EPH	C9-C18 Aliphatics	ug/l			115 U	106 U		2380 U	111 U	1000 U		108 U

Notes:
U = Undetected above the detection limit
J = Estimated value detected between the reporting and detection limits
E = Estimated value above the calibration range
D = Analyte reported from a diluted extract
Sample MW-103 collected October 2005 was an unfiltered sample. All other samples were filtered.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: AMEC Earth & Environmental

Address: 239 Littleton Road
Suite 1B
Westford, MA 01886

Attn: Ms. Katherine Weeks

Project Number: 27683-0007-0700

Site: NSTAR-11 BEACH ST MILFORD

Laboratory Job Number: L0512284

Date Received: 14-OCT-2005

Date Reported: 21-OCT-2005

Delivery Method: Client

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0512284-01	MW-103 (10-14-05)	11 BEACH ST, MILFORD

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

Authorized by: _____
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0512284

Volatile Organics

TAME and tert butyl alcohol were analyzed via a one point calibration.

L0512284-01 has elevated limits of detection due to the 5x analytical dilutions required by the matrix of the sample.

Metals

L0512284-01 required a 10x dilution for Pb due to high concentration of lead in the sample.

PAHLOW

L0512284-01 has elevated limits of detection due to the 100x dilutions required by the elevated concentrations of target compounds in the sample. The surrogates could not be recovered due to the dilutions required to quantitate the samples.

The MS and MSD were not analyzed due to the dilution required by the associated sample would cause the spikes and surrogates to be diluted below the calibration.

Semi-Volatile Organics

L0512284-01 has elevated limits of detection due to the 25x dilutions required by the elevated concentrations of target compounds in the sample. The surrogates could not be recovered due to the dilutions required to quantitate the samples.

The MS and MSD were not analyzed due to the dilution required by the associated sample would cause the spikes and surrogates to be diluted below the calibration.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0512284-01
MW-103 (10-14-05)
Sample Matrix: WATER

Date Collected: 14-OCT-2005 09:30
Date Received : 14-OCT-2005
Date Reported : 21-OCT-2005

Condition of Sample: Satisfactory
Field Prep: None

Number & Type of Containers: 8-Amber,4-Plastic,6-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total Suspended	2900	mg/l	100	4	160.2		1018 14:50	DT
Cyanide, Total	2.81	mg/l	0.050	4	335.2	1015 11:00	1017 16:21	DD
Chlorine, Total Residual	ND	mg/l	0.05	4	330.1		1014 20:15	DP
TPH	9.49	mg/l	4.00	74	1664A	1017 14:00	1019 12:00	AT
Chromium, Hexavalent	ND	mg/l	0.01	30	3500CR-D	1014 20:00	1014 20:00	JT
Total Metals				19	200.7			
Antimony, Total	ND	mg/l	0.005	3	200.9	1019 19:10	1021 01:01	PY
Arsenic, Total	0.019	mg/l	0.005	19	200.7	1019 19:10	1020 08:20	MG
Cadmium, Total	0.0016	mg/l	0.0002	4	213.2	1019 19:10	1020 15:37	PY
Chromium, Total	0.18	mg/l	0.01	19	200.7	1019 19:10	1020 08:20	MG
Copper, Total	0.15	mg/l	0.01	19	200.7	1019 19:10	1020 08:20	MG
Iron, Total	110	mg/l	0.05	19	200.7	1019 19:10	1020 08:20	MG
Lead, Total	0.346	mg/l	0.010	3	200.9	1019 19:10	1020 21:59	PY
Mercury, Total	0.0038	mg/l	0.0002	4	245.2	1019 19:15	1020 10:23	HG
Nickel, Total	0.063	mg/l	0.025	19	200.7	1019 19:10	1020 08:20	MG
Selenium, Total	0.010	mg/l	0.005	19	200.7	1019 19:10	1020 08:20	MG
Selenium, Total	ND	mg/l	0.005	19	200.7	1019 19:10	1020 10:35	RW
Silver, Total	0.0007	mg/l	0.0004	4	272.2	1019 19:10	1020 18:43	PY
Zinc, Total	0.90	mg/l	0.05	19	200.7	1019 19:10	1020 08:20	MG
Pesticides by GC 504				14	504.1	1021 11:30	1021 13:47	JB
1,2-Dibromoethane	ND	ug/l	0.019					
Volatile Organics by GC/MS 624				5	624		1018 13:50	MM
Methylene chloride	ND	ug/l	25.					
1,1-Dichloroethane	ND	ug/l	7.5					
Chloroform	ND	ug/l	7.5					
Carbon tetrachloride	ND	ug/l	5.0					
1,2-Dichloropropane	ND	ug/l	18.					
Dibromochloromethane	ND	ug/l	5.0					
1,1,2-Trichloroethane	ND	ug/l	7.5					
2-Chloroethylvinyl ether	ND	ug/l	50.					
Tetrachloroethene	ND	ug/l	7.5					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0512284-01
MW-103 (10-14-05)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 624 cont'd				5	624		1018 13:50	MM
Chlorobenzene	ND	ug/l	18.					
Trichlorofluoromethane	ND	ug/l	25.					
1,2-Dichloroethane	ND	ug/l	7.5					
1,1,1-Trichloroethane	ND	ug/l	10.					
Bromodichloromethane	ND	ug/l	5.0					
trans-1,3-Dichloropropene	ND	ug/l	7.5					
cis-1,3-Dichloropropene	ND	ug/l	7.5					
Bromoform	ND	ug/l	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0					
Benzene	140	ug/l	5.0					
Toluene	11.	ug/l	5.0					
Ethylbenzene	10.	ug/l	5.0					
Chloromethane	ND	ug/l	50.					
Bromomethane	ND	ug/l	25.					
Vinyl chloride	ND	ug/l	10.					
Chloroethane	ND	ug/l	10.					
1,1-Dichloroethene	ND	ug/l	5.0					
trans-1,2-Dichloroethene	ND	ug/l	7.5					
cis-1,2-Dichloroethene	ND	ug/l	5.0					
Trichloroethene	ND	ug/l	5.0					
1,2-Dichlorobenzene	ND	ug/l	25.					
1,3-Dichlorobenzene	ND	ug/l	25.					
1,4-Dichlorobenzene	ND	ug/l	25.					
p/m-Xylene	55.	ug/l	10.					
o-xylene	65.	ug/l	5.0					
Xylene (Total)	120	ug/l	10.					
Styrene	ND	ug/l	5.0					
Acetone	ND	ug/l	50.					
Carbon disulfide	ND	ug/l	25.					
2-Butanone	ND	ug/l	50.					
Vinyl acetate	ND	ug/l	100					
4-Methyl-2-pentanone	ND	ug/l	50.					
2-Hexanone	ND	ug/l	50.					
Acrolein	ND	ug/l	100					
Acrylonitrile	ND	ug/l	50.					
Methyl tert butyl ether	ND	ug/l	100					
1,4-Dioxane	ND	ug/l	10000					
Tert-Butyl Alcohol	ND	ug/l	500					
Tertiary-Amyl Methyl Ether	ND	ug/l	100					
Surrogate(s)	Recovery		QC Criteria					
Pentafluorobenzene	96.0	%						
Fluorobenzene	101.	%						
4-Bromofluorobenzene	97.0	%						
SVOC's by GC/MS 8270				1	8270C	1019 14:30	1021 11:52	RL
Acenaphthene	150	ug/l	130					
Benzidine	ND	ug/l	1300					
1,2,4-Trichlorobenzene	ND	ug/l	130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0512284-01
MW-103 (10-14-05)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 cont'd				1	8270C	1019 14:30	1021 11:52	RL
Hexachlorobenzene	ND	ug/l	130					
Bis(2-chloroethyl)ether	ND	ug/l	130					
1-Chloronaphthalene	ND	ug/l	130					
2-Chloronaphthalene	ND	ug/l	150					
1,2-Dichlorobenzene	ND	ug/l	130					
1,3-Dichlorobenzene	ND	ug/l	130					
1,4-Dichlorobenzene	ND	ug/l	130					
3,3'-Dichlorobenzidine	ND	ug/l	1300					
2,4-Dinitrotoluene	ND	ug/l	150					
2,6-Dinitrotoluene	ND	ug/l	130					
Azobenzene	ND	ug/l	130					
Fluoranthene	920	ug/l	130					
4-Chlorophenyl phenyl ether	ND	ug/l	130					
4-Bromophenyl phenyl ether	ND	ug/l	130					
Bis(2-chloroisopropyl)ether	ND	ug/l	130					
Bis(2-chloroethoxy)methane	ND	ug/l	130					
Hexachlorobutadiene	ND	ug/l	260					
Hexachlorocyclopentadiene	ND	ug/l	260					
Hexachloroethane	ND	ug/l	130					
Isophorone	ND	ug/l	130					
Naphthalene	1600	ug/l	130					
Nitrobenzene	ND	ug/l	130					
NDPA/DPA	ND	ug/l	380					
n-Nitrosodi-n-propylamine	ND	ug/l	130					
Bis(2-ethylhexyl)phthalate	ND	ug/l	260					
Butyl benzyl phthalate	ND	ug/l	130					
Di-n-butylphthalate	ND	ug/l	130					
Di-n-octylphthalate	ND	ug/l	130					
Diethyl phthalate	ND	ug/l	130					
Dimethyl phthalate	ND	ug/l	130					
Benzo(a)anthracene	350	ug/l	130					
Benzo(a)pyrene	300	ug/l	130					
Benzo(b)fluoranthene	230	ug/l	130					
Benzo(k)fluoranthene	250	ug/l	130					
Chrysene	300	ug/l	130					
Acenaphthylene	160	ug/l	130					
Anthracene	380	ug/l	130					
Benzo(ghi)perylene	140	ug/l	130					
Fluorene	330	ug/l	130					
Phenanthrene	1000	ug/l	130					
Dibenzo(a,h)anthracene	ND	ug/l	130					
Indeno(1,2,3-cd)pyrene	180	ug/l	180					
Pyrene	650	ug/l	130					
Benzo(e)pyrene	170	ug/l	130					
Biphenyl	ND	ug/l	130					
Perylene	ND	ug/l	130					
Aniline	ND	ug/l	260					
4-Chloroaniline	ND	ug/l	130					
1-Methylnaphthalene	280	ug/l	130					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0512284-01
MW-103 (10-14-05)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 cont'd				1	8270C	1019 14:30	1021 11:52	RL
2-Nitroaniline	ND	ug/l	130					
3-Nitroaniline	ND	ug/l	130					
4-Nitroaniline	ND	ug/l	180					
Dibenzofuran	260	ug/l	130					
a,a-Dimethylphenethylamine	ND	ug/l	1300					
Hexachloropropene	ND	ug/l	260					
Nitrosodi-n-butylamine	ND	ug/l	260					
2-Methylnaphthalene	220	ug/l	130					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	510					
Pentachlorobenzene	ND	ug/l	510					
a-Naphthylamine	ND	ug/l	510					
b-Naphthylamine	ND	ug/l	510					
Phenacetin	ND	ug/l	260					
Dimethoate	ND	ug/l	510					
4-Aminobiphenyl	ND	ug/l	260					
Pentachloronitrobenzene	ND	ug/l	260					
Isodrin	ND	ug/l	260					
p-Dimethylaminoazobenzene	ND	ug/l	260					
Chlorobenzilate	ND	ug/l	510					
3-Methylcholanthrene	ND	ug/l	510					
Ethyl Methanesulfonate	ND	ug/l	380					
Acetophenone	ND	ug/l	510					
Nitrosodipiperidine	ND	ug/l	510					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	260					
n-Nitrosodimethylamine	ND	ug/l	1300					
2,4,6-Trichlorophenol	ND	ug/l	130					
p-Chloro-m-cresol	ND	ug/l	130					
2-Chlorophenol	ND	ug/l	150					
2,4-Dichlorophenol	ND	ug/l	260					
2,4-Dimethylphenol	ND	ug/l	260					
2-Nitrophenol	ND	ug/l	510					
4-Nitrophenol	ND	ug/l	260					
2,4-Dinitrophenol	ND	ug/l	510					
4,6-Dinitro-o-cresol	ND	ug/l	510					
Pentachlorophenol	ND	ug/l	510					
Phenol	ND	ug/l	180					
2-Methylphenol	ND	ug/l	150					
3-Methylphenol/4-Methylphenol	ND	ug/l	150					
2,4,5-Trichlorophenol	ND	ug/l	130					
2,6-Dichlorophenol	ND	ug/l	260					
Benzoic Acid	ND	ug/l	1300					
Benzyl Alcohol	ND	ug/l	260					
Carbazole	180	ug/l	130					
Pyridine	ND	ug/l	1300					
2-Picoline	ND	ug/l	510					
Pronamide	ND	ug/l	510					
Methyl methanesulfonate	ND	ug/l	510					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0512284-01
MW-103 (10-14-05)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 cont'd				1	8270C	1019 14:30	1021 11:52	RL
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	ND	%						
Phenol-d6	ND	%						
Nitrobenzene-d5	ND	%						
2-Fluorobiphenyl	ND	%						
2,4,6-Tribromophenol	ND	%						
4-Terphenyl-d14	ND	%						
PAH by GC/MS SIM 8270M				1	8270C-M	1019 14:30	1020 12:25	RL
Acenaphthene	160	ug/l	20.					
2-Chloronaphthalene	ND	ug/l	20.					
Fluoranthene	1100	ug/l	20.					
Hexachlorobutadiene	ND	ug/l	51.					
Naphthalene	1600	ug/l	20.					
Benzo(a)anthracene	370	ug/l	20.					
Benzo(a)pyrene	300	ug/l	20.					
Benzo(b)fluoranthene	230	ug/l	20.					
Benzo(k)fluoranthene	280	ug/l	20.					
Chrysene	350	ug/l	20.					
Acenaphthylene	180	ug/l	20.					
Anthracene	440	ug/l	20.					
Benzo(ghi)perylene	140	ug/l	20.					
Fluorene	390	ug/l	20.					
Phenanthrene	1000	ug/l	20.					
Dibenzo(a,h)anthracene	30.	ug/l	20.					
Indeno(1,2,3-cd)Pyrene	130	ug/l	20.					
Pyrene	800	ug/l	20.					
1-Methylnaphthalene	280	ug/l	20.					
2-Methylnaphthalene	230	ug/l	20.					
Pentachlorophenol	ND	ug/l	82.					
Hexachlorobenzene	ND	ug/l	82.					
Perylene	71.	ug/l	20.					
Biphenyl	ND	ug/l	20.					
2,6-Dimethylnaphthalene	64.	ug/l	20.					
1-Methylphenanthrene	62.	ug/l	20.					
Benzo(e)Pyrene	170	ug/l	20.					
Hexachloroethane	ND	ug/l	82.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	ND	%	21-120					
Phenol-d6	ND	%	10-120					
Nitrobenzene-d5	ND	%	23-120					
2-Fluorobiphenyl	ND	%	43-120					
2,4,6-Tribromophenol	ND	%	10-120					
4-Terphenyl-d14	ND	%	33-120					
Polychlorinated Biphenyls				5	608	1017 17:00	1021 01:24	SS
Aroclor 1221	ND	ug/l	2.55					
Aroclor 1232	ND	ug/l	2.55					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0512284-01
MW-103 (10-14-05)

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Polychlorinated Biphenyls cont'd				5	608	1017 17:00	1021 01:24	SS
Aroclor 1242/1016	ND	ug/l	2.55					
Aroclor 1248	ND	ug/l	2.55					
Aroclor 1254	ND	ug/l	2.55					
Aroclor 1260	ND	ug/l	2.55					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	67.0	%	30-150					
Decachlorobiphenyl	50.0	%	30-150					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0512284

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total Suspended for sample(s) 01 (L0512205-01, WG217621-2)					
Solids, Total Suspended	6.8	ND	mg/l	NC	20
Cyanide, Total for sample(s) 01 (L0511915-02, WG217464-4)					
Cyanide, Total	ND	ND	mg/l	NC	30
Chlorine, Total Residual for sample(s) 01 (L0512330-01, WG217445-3)					
Chlorine, Total Residual	ND	ND	mg/l	NC	
Chromium, Hexavalent for sample(s) 01 (L0512284-01, WG217435-4)					
Chromium, Hexavalent	ND	ND	mg/l	NC	
Total Metals for sample(s) 01 (L0512267-01, WG217867-1)					
Antimony, Total	ND	ND	mg/l	NC	
Arsenic, Total	ND	ND	mg/l	NC	
Cadmium, Total	ND	ND	mg/l	NC	
Chromium, Total	ND	ND	mg/l	NC	
Copper, Total	ND	ND	mg/l	NC	
Iron, Total	14.	14.	mg/l	0	
Lead, Total	ND	ND	mg/l	NC	
Nickel, Total	ND	ND	mg/l	NC	
Selenium, Total	ND	ND	mg/l	NC	
Silver, Total	ND	ND	mg/l	NC	
Zinc, Total	ND	ND	mg/l	NC	
Total Metals for sample(s) 01 (L0511968-01, WG217864-3)					
Mercury, Total	ND	ND	mg/l	NC	
Volatile Organics by GC/MS 624 for sample(s) 01 (L0512274-01, WG217813-2)					
Methylene chloride	ND	ND	ug/l	NC	
1,1-Dichloroethane	ND	ND	ug/l	NC	
Chloroform	2.5	2.3	ug/l	8	
Carbon tetrachloride	ND	ND	ug/l	NC	
1,2-Dichloropropane	ND	ND	ug/l	NC	
Dibromochloromethane	ND	ND	ug/l	NC	
1,1,2-Trichloroethane	ND	ND	ug/l	NC	
2-Chloroethylvinyl ether	ND	ND	ug/l	NC	
Tetrachloroethene	ND	ND	ug/l	NC	
Chlorobenzene	ND	ND	ug/l	NC	
Trichlorofluoromethane	ND	ND	ug/l	NC	
1,2-Dichloroethane	ND	ND	ug/l	NC	
1,1,1-Trichloroethane	ND	ND	ug/l	NC	
Bromodichloromethane	ND	ND	ug/l	NC	
trans-1,3-Dichloropropene	ND	ND	ug/l	NC	
cis-1,3-Dichloropropene	ND	ND	ug/l	NC	
Bromoform	ND	ND	ug/l	NC	
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC	
Benzene	ND	ND	ug/l	NC	
Toluene	ND	ND	ug/l	NC	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0512284

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Volatile Organics by GC/MS 624 for sample(s) 01 (L0512274-01, WG217813-2)					
Ethylbenzene	ND	ND	ug/l	NC	
Chloromethane	ND	ND	ug/l	NC	
Bromomethane	ND	ND	ug/l	NC	
Vinyl chloride	ND	ND	ug/l	NC	
Chloroethane	ND	ND	ug/l	NC	
1,1-Dichloroethene	ND	ND	ug/l	NC	
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	
cis-1,2-Dichloroethene	ND	ND	ug/l	NC	
Trichloroethene	ND	ND	ug/l	NC	
1,2-Dichlorobenzene	ND	ND	ug/l	NC	
1,3-Dichlorobenzene	ND	ND	ug/l	NC	
1,4-Dichlorobenzene	ND	ND	ug/l	NC	
p/m-Xylene	ND	ND	ug/l	NC	
o-Xylene	ND	ND	ug/l	NC	
XYLENE (TOTAL)	ND	ND	ug/l	NC	
Styrene	ND	ND	ug/l	NC	
Acetone	ND	ND	ug/l	NC	
Carbon disulfide	ND	ND	ug/l	NC	
2-Butanone	ND	ND	ug/l	NC	
Vinyl acetate	ND	ND	ug/l	NC	
4-Methyl-2-pentanone	ND	ND	ug/l	NC	
2-Hexanone	ND	ND	ug/l	NC	
Acrolein	ND	ND	ug/l	NC	
Acrylonitrile	ND	ND	ug/l	NC	
Surrogate(s)	Recovery				QC Criteria
Pentafluorobenzene	98.0	100.	%	2	
Fluorobenzene	102.	99.0	%	3	
4-Bromofluorobenzene	103.	106.	%	3	
Polychlorinated Biphenyls for sample(s) 01 (L0512284-01, WG217573-4)					
Aroclor 1221	ND	ND	ug/l	NC	30
Aroclor 1232	ND	ND	ug/l	NC	30
Aroclor 1242/1016	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(s)	Recovery				QC Criteria
2,4,5,6-Tetrachloro-m-xylene	67.0	80.0	%	18	30-150
Decachlorobiphenyl	50.0	66.0	%	28	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0512284

Parameter	% Recovery	QC Criteria
Cyanide, Total LCS for sample(s) 01 (WG217464-2)		
Cyanide, Total	107	90-110
Chlorine, Total Residual LCS for sample(s) 01 (WG217445-2)		
Chlorine, Total Residual	100	
TPH LCS for sample(s) 01 (WG217804-2)		
TPH	84	64-132
Chromium, Hexavalent LCS for sample(s) 01 (WG217435-2)		
Chromium, Hexavalent	98	
Total Metals LCS for sample(s) 01 (WG217867-4)		
Antimony, Total	88	
Arsenic, Total	111	
Cadmium, Total	100	
Chromium, Total	100	
Copper, Total	104	
Iron, Total	94	
Lead, Total	102	
Nickel, Total	105	
Selenium, Total	123	
Silver, Total	109	
Zinc, Total	108	
Total Metals LCS for sample(s) 01 (WG217864-1)		
Mercury, Total	97	
Pesticides by GC 504 LCS for sample(s) 01 (WG218166-2)		
1,2-Dibromoethane	101	
Volatile Organics by GC/MS 624 LCS for sample(s) 01 (WG217813-3)		
Methylene chloride	92	
1,1-Dichloroethane	99	
Chloroform	94	
Carbon tetrachloride	108	
1,2-Dichloropropane	92	
Dibromochloromethane	88	
1,1,2-Trichloroethane	91	
2-Chloroethylvinyl ether	110	
Tetrachloroethene	107	
Chlorobenzene	108	
Trichlorofluoromethane	105	
1,2-Dichloroethane	93	
1,1,1-Trichloroethane	99	
Bromodichloromethane	96	
trans-1,3-Dichloropropene	98	
cis-1,3-Dichloropropene	94	
Bromoform	91	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0512284

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 LCS for sample(s) 01 (WG217813-3)		
1,1,2,2-Tetrachloroethane	96	
Benzene	94	
Toluene	106	
Ethylbenzene	114	
Chloromethane	88	
Bromomethane	74	
Vinyl chloride	96	
Chloroethane	72	
1,1-Dichloroethene	97	
trans-1,2-Dichloroethene	92	
cis-1,2-Dichloroethene	96	
Trichloroethene	90	
1,2-Dichlorobenzene	110	
1,3-Dichlorobenzene	109	
1,4-Dichlorobenzene	111	
p/m-Xylene	117	
o-Xylene	115	
XYLENE (TOTAL)	116	
Styrene	108	
Acetone	91	
Carbon disulfide	91	
2-Butanone	78	
Vinyl acetate	108	
4-Methyl-2-pentanone	94	
2-Hexanone	89	
Acrolein	83	
Acrylonitrile	93	
Surrogate(s)		
Pentafluorobenzene	108	
Fluorobenzene	98	
4-Bromofluorobenzene	111	
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG217832-2)		
Acenaphthene	57	
1,2,4-Trichlorobenzene	51	
2-Chloronaphthalene	60	
1,2-Dichlorobenzene	44	
1,4-Dichlorobenzene	42	
2,4-Dinitrotoluene	78	
2,6-Dinitrotoluene	85	
Fluoranthene	89	
4-Chlorophenyl phenyl ether	60	
n-Nitrosodi-n-propylamine	54	
Butyl benzyl phthalate	95	
Anthracene	70	
Pyrene	84	
Hexachloropropene	50	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0512284

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG217832-2)		
P-Chloro-M-Cresol	66	
2-Chlorophenol	49	
2-Nitrophenol	59	
4-Nitrophenol	44	
2,4-Dinitrophenol	72	
Pentachlorophenol	74	
Phenol	24	
Surrogate(s)		
2-Fluorophenol	36	
Phenol-d6	32	
Nitrobenzene-d5	59	
2-Fluorobiphenyl	64	
2,4,6-Tribromophenol	77	
4-Terphenyl-d14	97	
PAH by GC/MS SIM 8270M LCS for sample(s) 01 (WG217831-2)		
Acenaphthene	63	46-118
2-Chloronaphthalene	73	
Fluoranthene	101	
Anthracene	75	
Pyrene	97	26-127
Pentachlorophenol	71	9-103
Surrogate(s)		
2-Fluorophenol	44	21-120
Phenol-d6	38	10-120
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	73	43-120
2,4,6-Tribromophenol	75	10-120
4-Terphenyl-d14	83	33-120
Polychlorinated Biphenyls LCS for sample(s) 01 (WG217573-2)		
Aroclor 1242/1016	88	30-150
Aroclor 1260	84	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	83	30-150
Decachlorobiphenyl	64	30-150
Cyanide, Total SPIKE for sample(s) 01 (L0511914-02, WG217464-3)		
Cyanide, Total	101	80-120
Chromium, Hexavalent SPIKE for sample(s) 01 (L0512284-01, WG217435-3)		
Chromium, Hexavalent	90	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0512284

Continued

Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 01 (L0512267-01, WG217867-2)		
Antimony, Total	89	
Arsenic, Total	100	
Cadmium, Total	99	
Chromium, Total	95	
Copper, Total	100	
Iron, Total	0	
Lead, Total	107	
Nickel, Total	96	
Selenium, Total	120	
Silver, Total	109	
Zinc, Total	104	
Total Metals SPIKE for sample(s) 01 (L0511969-01, WG217864-2)		
Mercury, Total	111	
Pesticides by GC 504 SPIKE for sample(s) 01 (L0512284-01, WG218166-3)		
1,2-Dibromoethane	103	
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01 (L0512274-01, WG217813-1)		
Methylene chloride	94	
1,1-Dichloroethane	95	
Chloroform	88	
Carbon tetrachloride	96	
1,2-Dichloropropane	92	
Dibromochloromethane	88	
1,1,2-Trichloroethane	94	
2-Chloroethylvinyl ether	85	
Tetrachloroethene	93	
Chlorobenzene	99	
Trichlorofluoromethane	93	
1,2-Dichloroethane	96	
1,1,1-Trichloroethane	95	
Bromodichloromethane	91	
trans-1,3-Dichloropropene	83	
cis-1,3-Dichloropropene	90	
Bromoform	93	
1,1,2,2-Tetrachloroethane	95	
Benzene	94	
Toluene	96	
Ethylbenzene	104	
Chloromethane	77	
Bromomethane	67	
Vinyl chloride	92	
Chloroethane	68	
1,1-Dichloroethene	84	
trans-1,2-Dichloroethene	90	
cis-1,2-Dichloroethene	95	
Trichloroethene	91	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0512284

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01 (L0512274-01, WG217813-1)		
1,2-Dichlorobenzene	99	
1,3-Dichlorobenzene	101	
1,4-Dichlorobenzene	99	
p/m-Xylene	106	
o-Xylene	104	
XYLENE (TOTAL)	105	
Styrene	98	
Acetone	105	
Carbon disulfide	86	
2-Butanone	88	
Vinyl acetate	90	
4-Methyl-2-pentanone	92	
2-Hexanone	94	
Acrolein	72	
Acrylonitrile	94	
Surrogate(s)		
Pentafluorobenzene	99	
Fluorobenzene	97	
4-Bromofluorobenzene	101	
Polychlorinated Biphenyls SPIKE for sample(s) 01 (L0512284-01, WG217573-3)		
Aroclor 1242/1016	114	30-150
Aroclor 1260	96	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	90	30-150
Decachlorobiphenyl	71	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0512284

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG217621-1)								
Solids, Total Suspended	ND	mg/l	5.0	4	160.2		1018 14:50	DT
Blank Analysis for sample(s) 01 (WG217464-1)								
Cyanide, Total	ND	mg/l	0.005	4	335.2	1015 11:00	1017 15:37	DD
Blank Analysis for sample(s) 01 (WG217445-1)								
Chlorine, Total Residual	ND	mg/l	0.05	4	330.1		1014 20:15	DP
Blank Analysis for sample(s) 01 (WG217804-1)								
TPH	ND	mg/l	4.00	74	1664A	1017 14:00	1019 12:00	AT
Blank Analysis for sample(s) 01 (WG217435-1)								
Chromium, Hexavalent	ND	mg/l	0.01	30	3500CR-D	1014 20:00	1014 20:00	JT
Blank Analysis for sample(s) 01 (WG217867-3)								
Total Metals				19	200.7			
Antimony, Total	ND	mg/l	0.005	3	200.9	1019 19:10	1021 00:14	PY
Arsenic, Total	ND	mg/l	0.005	19	200.7	1019 19:10	1020 08:04	MG
Cadmium, Total	ND	mg/l	0.0002	4	213.2	1019 19:10	1020 15:11	PY
Chromium, Total	ND	mg/l	0.01	19	200.7	1019 19:10	1020 08:04	MG
Copper, Total	ND	mg/l	0.01	19	200.7	1019 19:10	1020 08:04	MG
Iron, Total	ND	mg/l	0.05	19	200.7	1019 19:10	1020 08:04	MG
Lead, Total	ND	mg/l	0.001	3	200.9	1019 19:10	1020 20:57	PY
Nickel, Total	ND	mg/l	0.025	19	200.7	1019 19:10	1020 08:04	MG
Selenium, Total	ND	mg/l	0.005	19	200.7	1019 19:10	1020 08:04	MG
Silver, Total	ND	mg/l	0.0004	4	272.2	1019 19:10	1020 18:10	PY
Zinc, Total	ND	mg/l	0.05	19	200.7	1019 19:10	1020 08:04	MG
Blank Analysis for sample(s) 01 (WG217864-4)								
Total Metals								
Mercury, Total	ND	mg/l	0.0002	4	245.2	1019 19:15	1020 10:00	HG
Blank Analysis for sample(s) 01 (WG218166-1)								
Pesticides by GC 504				14	504.1	1021 11:30	1021 12:40	JB
1,2-Dibromoethane	ND	ug/l	0.020					
Blank Analysis for sample(s) 01 (WG217813-4)								
Volatile Organics by GC/MS 624				5	624		1018 08:46	MM
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0512284

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG217813-4)								
Volatile Organics by GC/MS 624 cont'd				5	624		1018 08:46	MM
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
2-Chloroethylvinyl ether	ND	ug/l	10.					
Tetrachloroethene	ND	ug/l	1.5					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.5					
1,1,1-Trichloroethane	ND	ug/l	2.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.5					
cis-1,3-Dichloropropene	ND	ug/l	1.5					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.0					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.0					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
p/m-Xylene	ND	ug/l	2.0					
o-xylene	ND	ug/l	1.0					
Xylene (Total)	ND	ug/l	2.0					
Styrene	ND	ug/l	1.0					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	20.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Acrolein	ND	ug/l	20.					
Acrylonitrile	ND	ug/l	10.					
Surrogate(s)	Recovery		QC Criteria					
Pentafluorobenzene	100.	%						
Fluorobenzene	104.	%						

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0512284

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG217813-4)								
Volatile Organics by GC/MS 624 cont'd				5	624		1018 08:46	MM
4-Bromofluorobenzene	112.	%						
Blank Analysis for sample(s) 01 (WG217832-1)								
SVOC's by GC/MS 8270				1	8270C	1019 14:30	1020 12:35	RL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
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					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0512284

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG217832-1)								
SVOC's by GC/MS 8270 cont'd				1	8270C	1019 14:30	1020 12:35	RL
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	10.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	5.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0512284

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG217832-1)							
SVOC's by GC/MS 8270 cont'd				1 8270C	1019 14:30	1020 12:35	RL
2-Methylphenol	ND	ug/l	6.0				
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0				
2,4,5-Trichlorophenol	ND	ug/l	5.0				
2,6-Dichlorophenol	ND	ug/l	10.				
Benzoic Acid	ND	ug/l	50.				
Benzyl Alcohol	ND	ug/l	10.				
Carbazole	ND	ug/l	5.0				
Pyridine	ND	ug/l	50.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	35.0	%					
Phenol-d6	30.0	%					
Nitrobenzene-d5	57.0	%					
2-Fluorobiphenyl	52.0	%					
2,4,6-Tribromophenol	62.0	%					
4-Terphenyl-d14	93.0	%					
Blank Analysis for sample(s) 01 (WG217831-1)							
PAH by GC/MS SIM 8270M				1 8270C-M	1019 14:30	1020 11:37	RL
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				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0512284

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG217831-1)								
PAH by GC/MS SIM 8270M cont'd				1	8270C-M	1019 14:30	1020 11:37	RL
2,6-Dimethylnaphthalene	ND	ug/l	0.20					
1-Methylphenanthrene	ND	ug/l	0.20					
Benzo(e)Pyrene	ND	ug/l	0.20					
Hexachloroethane	ND	ug/l	0.80					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	41.0	%	21-120					
Phenol-d6	33.0	%	10-120					
Nitrobenzene-d5	54.0	%	23-120					
2-Fluorobiphenyl	59.0	%	43-120					
2,4,6-Tribromophenol	69.0	%	10-120					
4-Terphenyl-d14	82.0	%	33-120					
Blank Analysis for sample(s) 01 (WG217573-1)								
Polychlorinated Biphenyls				5	608	1017 17:00	1020 23:30	SS
Aroclor 1221	ND	ug/l	0.500					
Aroclor 1232	ND	ug/l	0.500					
Aroclor 1242/1016	ND	ug/l	0.500					
Aroclor 1248	ND	ug/l	0.500					
Aroclor 1254	ND	ug/l	0.500					
Aroclor 1260	ND	ug/l	0.500					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	75.0	%	30-150					
Decachlorobiphenyl	67.0	%	30-150					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

3. Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

5. Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).

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

19. Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

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

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

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Date Rec'd in Lab: 10/14/05

ALPHA Job #: L0512284

Client Information

Client: AMEC E&E
Address: 239 Littleton Rd, Suite 1B Westford MA 01886
Phone: 978-692-9090
Fax: 978-692-6633
Email: katherine.weeks@amec.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NSTAR - 11 Beach St, Mil
Project Location: 11 Beach St, Milford
Project #: 27683-0007-0700
Project Manager: Katy Weeks
ALPHA Quote #: ~~25~~ 2005529

Turn-Around Time

☐ Standard 14 day ☐ RUSH (only confirmed if pre-approved!)

Date Due: 10/28/05 Time: COB

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: NA (<$1000)

Regulatory Requirements/Report Limits

State/Fed Program:
Criteria: EPA Remediation General Permit

MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are Drinking Water Samples Submitted?
☐ Yes ☒ No Have you met minimum field QC requirements?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

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

ANALYSIS: TSS, TRC, TPH | TCN, VOCs, SVOCs | PCBs, Sb, As, Cd | Cr, Cr6, Cu | Pb, Hg, Ni | Se, Ag, Zn, Fe

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TSS, TRC, TPH	TCN, VOCs, SVOCs	PCBs, Sb, As, Cd	Cr, Cr6, Cu	Pb, Hg, Ni	Se, Ag, Zn, Fe	Sample Specific Comments	TOTAL # BOTTLES
12284.1	MW-103 (10-14-05)	10/14/05	0930	GW	WRJ	X	X	X	X	X	X		

Container Type
Preservative

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY
see Michelle Morris for questions

IS YOUR PROJECT MCP ?
yes, but under EPA-RGP

Relinquished By:	Date/Time	Received By:	Date/Time
W. Dekker W. Dekker	10/14/05; 1045	Lenn McLaughlin	10/14/05 1045

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

FORM NO: 01-01 (rev. 14-May-04)