

MAG 910211
D.C.

Notice of Intent for Coverage Under the Remediation General Permit for Massachusetts

**NSTAR Chelsea Duct Bank Project
Marginal Street and Eastern Avenue
Chelsea, Massachusetts**

MAR 10 2006

March 2006

Prepared for:

NSTAR Electric and Gas Corp.
One NSTAR Way (NE 250)
Westwood, Massachusetts 02090

Prepared by:

TRC Environmental Corp.
116 John Street
Lowell, Massachusetts 01852



March 7, 2006

US Environmental Protection Agency
RPG-NOC Processing
Municipal Assistance Unit (CMU)
One Congress Street, Suite 1100
Boston, MA 02114-2023

**Ref: NSTAR Chelsea Duct Bank Project Project, NOI for Coverage under the
Remediation General Permit (RPG) for Massachusetts**

Dear Sir or Madam,

On behalf of Boston Edison Company d/b/a NSTAR Electric & Gas Corp. (NSTAR), TRC is pleased to submit the attached National Pollutant Discharge Elimination System (NPDES) Notice of Intent (NOI) for coverage under the Remediation General Permit (RGP) for the NSTAR Chelsea Duct Bank Project. This application addresses dewatering requirements associated with installation of a one-mile buried cable beneath sections of Eastern Avenue and Marginal Street in Chelsea, MA. In addition to the application form, we have attached a site location map (Figure 1), a resource area map (Figure 2), agency correspondence and supporting groundwater analytical data.

NSTAR is proposing to construct a new subsurface electric transmission duct bank in Chelsea, MA. The new duct bank will interconnect an existing electric substation located at the end of Willoughby Street to the existing subsurface cable crossing of the Chelsea River near Willow Street. In general, the duct bank will be located in a trench installed from 4 feet to 6 feet below street level. Successful completion of the project will bolster electrical transmission system reliability in the Chelsea/Boston areas.

Trench dewatering effluent from construction activities will be trucked to a centrally located treatment system. Potential constituents of concern include total suspended solids, semi-volatile organic compounds and metals, although elevated total metals concentrations reported in pre-construction groundwater quality samples are believed to be adsorbed to sediments and not biologically available.

The proposed dewatering treatment system is designed to handle up to 20 gallons per minute (gpm) of dewatering effluent and is expected to periodically operate at rates ranging from 5 gpm to 20 gpm, when required. The treatment system will consist of the following process components:

- 1) 20,000 gallon frac tank for removal of suspended and settleable solids;



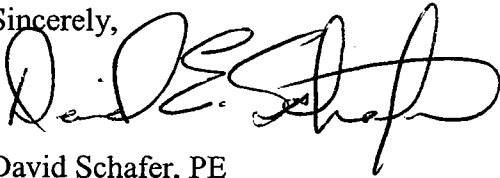
- 2) Bag filters (35 micron to 50 micron) for effluent polishing prior to GAC treatment; and,
- 3) Two (2) 1000 pound Granular Activated Carbon (GAC) filters connected in series.

Treated effluent from the system will be discharged to the Chelsea River via an existing storm water drainage conveyance in proximity to the treatment system. The treatment system will be maintained and monitored in accordance with all applicable requirements under the RGP. NSTAR anticipates that the dewatering system will be required periodically throughout the spring and summer to facilitate installation of the new duct bank.

Correspondence from the US Fish and Wildlife Service, the National Marine Fisheries Service, the Massachusetts Historical Commission and the Natural Heritage and Endangered Species Program (NHESP) is attached. The National Marine Fisheries Service has concluded that there are no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the National Marine Fisheries Service known to exist in the Chelsea River. Further, that additional consultation under Section 7 of the Endangered Species Act is not required. NSTAR is awaiting responses from the NHESP, US Fish and Wildlife Service and the Massachusetts Historical Commission.

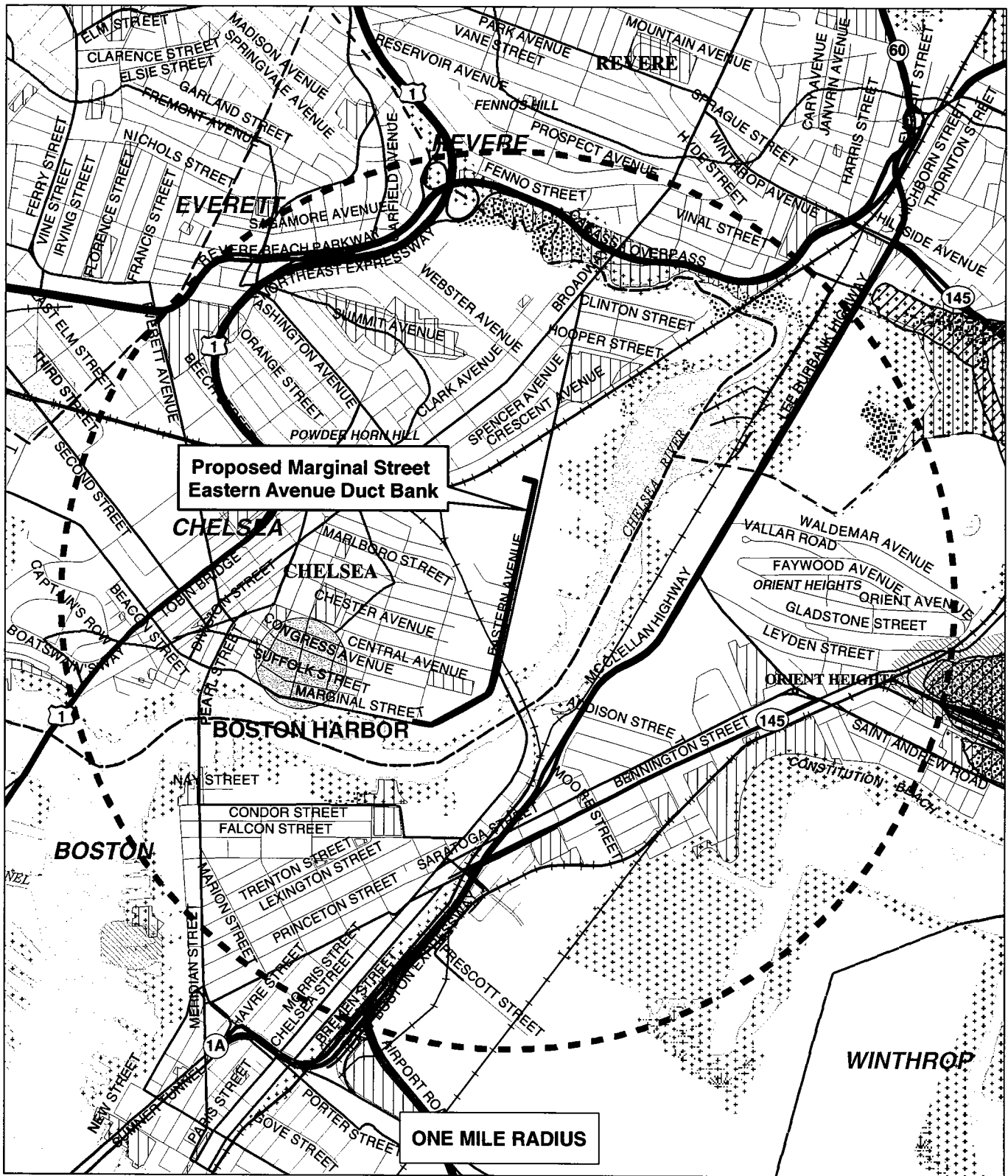
Your assistance in processing this application is greatly appreciated. If you have any questions or would like additional information please feel free to call at your earliest convenience. I may be reached at (978) 656-3570 or you may contact Ms. Beverly Schultz of NSTAR at 781-441-3809.

Sincerely,



David Schafer, PE
TRC Environmental Corporation

cc: Beverly Schultz/NSTAR
Laura Lefebvre/TRC
Andy DeSantis/City of Chelsea



C:\Users\THEMATIC\My Documents\PROJECTS\Chelsea.mxd

- Roads: Limited Access, Multi-Lane, Major/Minor ————
- Major Basin, Perennial Str, Int Str, Aqueduct, Dam, Channel in Water ————
- Wetland, Open Water, Reservoir, Salt Wetland [Pattern]
- Potentially Productive Aquifers: Medium, High Yield [Pattern]
- Non-Potential Drinking Water Source Area: Medium, High Yield [Pattern]
- EPA Sole Source Aquifer, FEMA 100 Yr. Floodplain, DEP Solid Waste Facility [Pattern]
- Public Water Supplies: Ground, Surface, Non-Community (NTNC, TNC) [Symbol]
- Approved Zone II, IWPA, Surface Water Supply Zone A [Pattern]
- Protected Open Space, ACEC [Pattern]
- Rare Wildlife 2005, Certified Vernal Pool 2003 [Symbol]

Source: MassGIS/EOEA

TRC

Boott Mills South
116 John Street
Lowell, MA 01852
978-970-5600

FIGURE 2

Resource Area Map
NSTAR Chelsea Duct Bank Project
Chelsea, MA
NSTAR Electric and Gas



0 625 1,250
Feet



Enter your transmittal number

W075675

Transmittal Number

Your unique Transmittal Number can be accessed online: <http://www.mass.gov/dep/counter/trasmfrm.shtml> or call DEP's InfoLine at 617-338-2255 or 800-462-0444 (from 508, 781, and 978 area codes).

Massachusetts Department of Environmental Protection

Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application.
Copy 2 must accompany your fee payment.
Copy 3 should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

DEP
P.O. Box 4062
Boston, MA
02211

* Note:
For BWSC Permits,
enter the LSP.

A. Permit Information

BRP-WM-12

Remediation General Permit

1. Permit Code: 7 or 8 character code from permit instructions

2. Name of Permit Category

Construction Dewatering

3. Type of Project or Activity

B. Applicant Information - Firm or Individual

Boston Edison Company d/b/a NSTAR Electric and Gas Corp.

1. Name of Firm - Or, if party needing this approval is an individual enter name below:

2. Last Name of Individual

3. First Name of Individual

4. MI

One NSTAR Way NE 250

5. Street Address

Westwood

MA

02090-9230

781-441-3809

6. City/Town

7. State

8. Zip Code

9. Telephone #

10. Ext. #

Ms. Beverly Schultz

beverly_schultz@nstaronline.com

11. Contact Person

12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

NSTAR Chelsea Duct Bank Project

1. Name of Facility, Site Or Individual

Marginal Street - Eastern Avenue

2. Street Address

Chelsea

MA

02150

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

8. DEP Facility Number (if Known)

9. Federal I.D. Number (if Known)

10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)*

TRC Environmental Corp.

1. Name of Firm Or Individual

116 John Street

2. Address

Lowell

MA

01852

978-970-5600

3570

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

David Schafer

8. Contact Person

9. LSP Number (BWSC Permits only)

E. Permit - Project Coordination

1. Is this project subject to MEPA review? ☐ yes ☒ no
If yes, enter the project's EOEA file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

F. Amount Due

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

Special Provisions:

1. ☐ Fee Exempt (city, town or municipal housing authority)(state agency if fee is \$100 or less).
There are no fee exemptions for BWSC permits, regardless of applicant status.
2. ☐ Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
3. ☐ Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
4. ☐ Homeowner (according to 310 CMR 4.02).

00291

\$775.00

3/6/2006

Check Number

Dollar Amount

Date

SHARON J COOPER
NSTAR ELECTRIC & GAS CORP
NE-250
PO BOX 9230
WESTWOOD, MA 02090

5015410868929

00291

2-1/710

3/6/06

PAY TO THE ORDER OF

Commonwealth of Massachusetts

\$ 775.00

Seven hundred Seventy-five and 00/100

DOLLARS

BANK ONE

CHICAGO, ILLINOIS 60670

NOT VALID FOR OVER \$2,500.00

MEMO

R&P Permit Application Fee

Sharon J Cooper

⑆071000013⑆90 26851⑆

00291

W075675

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

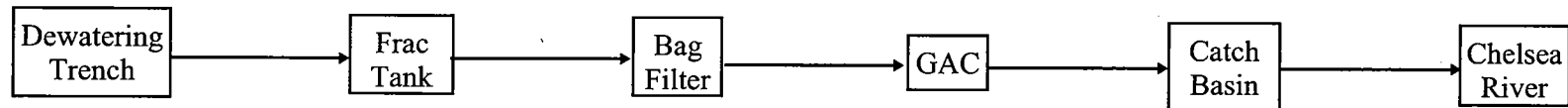
1. General site information. Please provide the following information about the site:

a) Name of facility/site: NSTAR Chelsea Duct Bank Project		Facility/site address:	
Location of facility/site: longitude: 71 01 26 latitude: 42 23 16	Facility SIC code(s): 4931	Street: Marginal Street/Eastern Avenue	
b) Name of facility/site owner: Boston Edison Company d/b/a NSTAR Electric & Gas Corp.		Town: Chelsea	
Email address of owner: beverly_schultz@nstaronline.com	State: MA	Zip: 02150	County: Suffolk
Telephone no. of facility/site owner: 781-441-3809			
Fax no. of facility/site owner: 781-441-3193	Owner is (check one): 1. Federal____ 2. State/Tribal____		
Address of owner (if different from site):	3. Private <u>X</u> 4. other, if so, describe:		
Street: One NSTAR Way (NE 250)			
Town: Westwood	State: MA	Zip: 02090-9230	County: Norfolk
c) Legal name of operator: Boston Edison Company d/b/a NSTAR Electric & Gas Corp.		Operator telephone no: 781-441-3809	
		Operator fax no.: 781-441-3193	Operator email: beverly_schultz@nstaronline.com
Operator contact name and title: Ms. Beverly Schultz, Sr. Environmental Engineer			
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 <u>X</u> , if "yes," number:			
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes____ No <u>X</u> , if "yes," date and tracking #:			
3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes <u>X</u> No____			
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes__ No <u>X</u>			

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes ___ No <u>X</u> If "yes," 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 storm water general permit? Y ___ N <u>X</u>, if Y, number: 2. phase I or II construction storm water general permit? Y ___ N <u>X</u>, if Y, number: 3. individual NPDES permit? Y ___ N <u>X</u>, if Y, number: 4. any other water quality related permit? Y ___ N <u>X</u>, if Y, number:
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage: Discharge of treated dewatering effluent to the Chelsea River (See Attachment A).		
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, ft³/s)? Max. flow <u>0.04 cfs</u> Average flow <u>0.02 cfs</u> Is maximum flow a design value? Y <u>X</u> 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 an estimate.
3) Latitude and longitude of each discharge within 100 feet: pt.1: long <u>71 01 25</u> lat. <u>42 23 10</u> pt.2: long. ___ lat. ___; pt.3: long. ___ lat. ___; pt.4: long. ___ lat. ___; pt.5: long. ___ lat. ___; pt.6: long. ___ lat. ___; pt.7: long. ___ lat. ___; pt.8: long. ___ lat. ___; etc.		
4) If hydrostatic testing, total volume of the discharge (gals): Not Applicable		5) Is the discharge intermittent <u>X</u> or seasonal ___? Is discharge ongoing Yes ___ No <u>X</u>?
c) Expected dates of discharge (mm/dd/yy): start <u>3/15/06</u> end <u>12/31/06</u>		
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).		



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

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

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

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/l)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		X	7	Grab	160.2	15	750,000	75	320,000	32
2. Total Residual Chlorine	X		7	Grab	330.1	50	ND	-	ND	-
3. Total Petroleum Hydrocarbons		X	7	Grab	1664 A	4400	6950	0.7	ND	-
4. Cyanide		X	7	Grab	335.2		16	0.002	4.3	0.0004
5. Benzene	X		7	Grab	624	5	ND	-	ND	-
6. Toluene	X		7	Grab	624	5	ND	-	ND	-
7. Ethylbenzene	X		7	Grab	624	5	ND	-	ND	-
8. (m,p,o) Xylenes	X		7	Grab	624	10	ND	-	ND	-
9. Total BTEX ⁴	X		7	Grab	-	-	ND	-	ND	-

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide ⁵ (1,2- Dibromo-methane)	X		7	Grab	504.1	0.02	ND	-	ND	-
11. Methyl-tert-Butyl Ether (MtBE)	X		7	Grab	624	100	ND	-	ND	-
12. tert-Butyl Alcohol (TBA)	X		7	Grab	624	500	ND	-	ND	-
13. tert-Amyl Methyl Ether (TAME)	X		7	Grab	624	100	ND	-	ND	-
14. Naphthalene		X	7	Grab	8270	5	420	0.042	ND	-
15. Carbon Tetra-chloride	X		7	Grab	624	5	ND	-	ND	-
16. 1,4 Dichlorobenzene	X		7	Grab	624	25	ND	-	ND	-
17. 1,2 Dichlorobenzene	X		7	Grab	624	25	ND	-	ND	-
18. 1,3 Dichlorobenzene	X		7	Grab	624	25	ND	-	ND	-
19. 1,1 Dichloroethane	X		7	Grab	624	7.5	ND	-	ND	-
20. 1,2 Dichloroethane	X		7	Grab	624	7.5	ND	-	ND	-
21. 1,1 Dichloroethylene	X		7	Grab	624	5	ND	-	ND	-
22. cis-1,2 Dichloro-ethylene	X		7	Grab	624	5	ND	-	ND	-
23. Dichloromethane (Methylene Chloride)	X		7	Grab	624	25	ND	-	ND	-
24. Tetrachloroethylene	X		7	Grab	624	7.5	ND	-	ND	-

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	X		7	Grab	624	10	ND	-	ND	-
26. 1,1,2 Trichloroethane	X		7	Grab	624	5	ND	-	ND	-
27. Trichloroethylene	X		7	Grab	624	5	ND	-	ND	-
28. Vinyl Chloride	X		7	Grab	624	10	ND	-	ND	-
29. Acetone	X		7	Grab	624	50	ND	-	ND	-
30. 1,4 Dioxane	X		7	Grab	624	10,000	ND	-	ND	-
31. Total Phenols	X		7	Grab	8270	7	ND	-	ND	-
32. Pentachlorophenol	X		7	Grab	8270	20	ND	-	ND	-
33. Total Phthalates ⁶ (Phthalate esthers)	X		7	Grab	8270	10	ND	-	ND	-
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	X		7	Grab	8270	10	ND	-	ND	-
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	X		7	-	-	5	ND	-	ND	-
a. Benzo(a) Anthracene	X		7	Grab	8270	5	ND	-	ND	-
b. Benzo(a) Pyrene	X		7	Grab	8270	5	ND	-	ND	-
c. Benzo(b) Fluoranthene	X		7	Grab	8270	5	ND	-	ND	-
d. Benzo(k) Fluoranthene	X		7	Grab	8270	5	ND	-	ND	-
e. Chrysene	X		7	Grab	8270	5	ND	-	ND	-

⁶The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	X		7	Grab	8270	5	ND	-	ND	-
g. Indeno(1,2,3-cd) Pyrene	X		7	Grab	8270	7	ND	-	ND	-
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		X	7	-	-	5	614	0.061	ND	-
h. Acenaphthene		X	7	Grab	8270	5	71	0.007	ND	-
i. Acenaphthylene	X		7	Grab	8270	5	ND	-	ND	-
j. Anthracene		X	7	Grab	8270	5	11	0.001	ND	-
k. Benzo(ghi) Perylene	X		7	Grab	8270	5	ND	-	ND	-
l. Fluoranthene		X	7	Grab	8270	5	8.5	0.0008	ND	-
m. Fluorene		X	7	Grab	8270	5	38	0.004	ND	-
n. Naphthalene-		X	7	Grab	8270	5	420	0.042	ND	-
o. Phenanthrene		X	7	Grab	8270	10	57	0.006	ND	-
p. Pyrene		X	7	Grab	8270	5	8.5	0.0008	ND	-
37. Total Polychlorinated Biphenyls (PCBs)	X		7	Grab	608	0.3	ND	-	ND	-
38. Antimony		X	7	Grab	200.9		6	0.0006	ND	-
39. Arsenic		X	7	Grab	200.7	5	6	0.0006	ND	-
40. Cadmium		X	7	Grab	213.2	0.2	0.2	0.00002	ND	-
41. Chromium III			7	-	Calc.	-	80	0.008		
42. Chromium VI	X		7	Grab	3500 CR	20	ND	-	ND	-

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		X	7	Grab	200.7	5	81	0.008	28	0.003
44. Lead		X	7	Grab	200.9	3	54	0.005	26	0.003
45. Mercury	X		7	Grab	245.2	0.2	ND	-	ND	-
46. Nickel		X	7	Grab	200.7	25	63	0.006	ND	-
47. Selenium	X		7	Grab	200.7	5	ND	-	ND	-
48. Silver	X		7	Grab	272.2	0.4	ND	-	ND	-
49. Zinc		X	7	Grab	200.7	50	238	0.024	67	0.007
50. Iron		X	7	Grab	200.7	50	59,000*	5.9	12,000	1.2
Other (describe): Chromium, Total		X	7	Grab	200.7	10	80	0.008	20	0.002

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

<i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y X N	If yes, which metals? Antimony, Copper, Lead, Nickel, Zinc, Iron
<i>Step 2:</i> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: _____ DF: _____ Not Applicable - Tidal	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: Not Applicable - Tidal

* Note that the maximum filtered iron concentration was 3200 ug/l.

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:									
b) Identify each applicable treatment unit (check all that apply):	Frac. tank	X	Air stripper	Oil/water separator	Equalization tanks	Bag filter	X	GAC filter	X
	Chlorination		Dechlorination	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 <u>10 gpm</u> Maximum flow rate of treatment system <u>20 gpm</u> Design flow rate of treatment system <u>20 gpm</u>									
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): <u>Not Applicable</u>									

a) Identify the discharge pathway:	Direct _____	Within facility _____	Storm drain <u>X</u>	River/brook _____	Wetlands _____	Other (describe): _____
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: <u>Catch basin to Chelsea River via existing outfall.</u>						
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: <u>Attached</u> 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.						
d) Provide the state water quality classification of the receiving water <u>SB</u> ,						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water _____ cfs Please attach any calculation sheets used to support stream flow and dilution calculations.						Not Applicable - Tidal
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes <u>X</u> No _____ If yes, for which pollutant(s)? Is there a TMDL? Yes _____ No <u>X</u> If yes, for which pollutant(s)?						See below

303(d) List (2002)

- Priority Organics
- Unionized ammonia
- Organic enrichment/Low DO
- Pathogens
- Oil and Grease
- Taste, Odor and Color
- Turbidity

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 X
Has any consultation with the federal services been completed? No ___ or is consultation underway? Yes X 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 X 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 X Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes X No ___
(in process)

7. Supplemental information. :

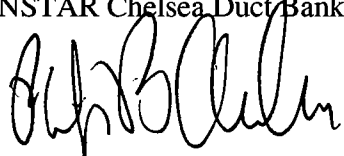
Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

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: NSTAR Chelsea Duct Bank Project

Operator signature:



Title: Philip B. Andreas, Vice President
Electric Operations

Date: March 6, 2006

Agency Correspondence



February 16, 2006

National Marine Fisheries Service
Northeast Region
One Blackburn Drive
Gloucester, MA 01930-2298

**Ref: Discharge of Construction Dewatering Effluent under the Remediation
General Permit (RGP) for the Eastern Avenue, Marginal Street Duct Bank
Project in Chelsea, MA**

Dear Reviewer,

Background Information

Boston Edison Company, d/b/a NSTAR Electric (NSTAR), is proposing to construct a new subsurface electric transmission duct bank in Chelsea, MA. The new duct bank will interconnect an existing electric substation located at the end of Willoughby Street to the existing subsurface cable crossing of the Chelsea River near Willow Street. The roughly one mile subsurface duct bank will extend along Marginal Street and Eastern Avenue. Successful completion of the project will bolster electrical transmission system reliability in the Chelsea/Boston area.

On September 9, 2005, the Director of the Office of Ecosystem Protection, EPA-New England (EPA-NE) issued a new general permit for point source discharges related to groundwater remediation projects, including construction dewatering projects where contaminants may be present. The new general permit, known as the RGP, covers discharges to surface waters in the Commonwealth of Massachusetts (MA), including the Chelsea River. NSTAR intends to seek permit coverage under the RGP because trace to low levels of metals, volatile organic compounds and semi-volatile organic compounds are expected to be encountered along the proposed duct bank route. As a result, the construction effort will be performed in accordance with the Massachusetts Contingency Plan (310 CMR 40.0000) under the supervision of a Licensed Site Professional.

Proposed Dewatering System

The proposed dewatering treatment system is designed to handle up to 20 gallons per minute (gpm) of dewatering effluent and is expected to periodically operate at rates ranging from 5 gpm to 20 gpm, when required. The treatment system will consist of the following process components:

- 1) 20,000 gallon frac tank for removal of suspended and settleable solids;
- 2) Bag filters (35 micron to 50 micron) for effluent polishing prior to GAC treatment; and,

- 3) Two (2) 1000 pound Granular Activated Carbon (GAC) filters connected in series.

Treated effluent from the system will be discharged to the Chelsea River via existing storm water drainage conveyances located along the route. The treatment system will be maintained and monitored in accordance with all applicable requirements under the RGP. NSTAR anticipates that the dewatering system will be required periodically throughout the spring to facilitate installation of the new duct bank.

Endangered and Threatened Species

Under regulations stipulated by the RGP, proposed discharges that are located in areas that presently support listed endangered or threatened species are not automatically granted coverage. Prior to submitting a Notice of Intent (NOI), project proponents must demonstrate permit eligibility with respect to the most recent Endangered and Threatened Species mapping/listing.

Based upon a review of the Massachusetts Natural Heritage Atlas (11th Edition: July 1, 2003), there are no known occurrences of endangered or threatened species within the river reaches adjacent to the discharge. Furthermore, no known priority habitat associated with endangered or threatened species is present.

A site location map is attached as Figure 1. This letter requests concurrence from the National Marine Fisheries Service that construction of the proposed project, specifically the discharge of treated construction dewatering effluent to the Chelsea River under the NPDES Remediation General Permit (RGP), will not result in significant adverse impacts to any rare, threatened, or endangered species in proximity to the discharge, including associated habitat.

Your review of this material and input for the RGP application is greatly appreciated. If you have any questions, please feel free to contact me at your earliest convenience. I may be reached at (978) 656-3570.

Sincerely,



David E. Schafer, P.E.

cc: Beverly Schultz/NSTAR
Dan Watton/NSTAR
Laura Lefevbre/TRC



Proposed Marginal Street – Eastern Avenue Duct Bank

0 1,000 2,000 Feet



TRC

Boott Mills South
Foot of John Street
Lowell, MA 01852
978-970-5600

Figure 1
Proposed Subsurface Duct Bank Route,
Chelsea, MA
NSTAR Electric and Gas



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
NORTHEAST REGION
One Blackburn Drive
Gloucester, MA 01930-2298

David E. Schafer
TRC Companies
Boott Mills South
116 John Street
Lowell, Massachusetts 01852

FEB 28 2006

Dear Mr. Schafer,

This is in response to your letter dated February 16, 2006 requesting information on the presence of any federally listed threatened or endangered species and/or designated critical habitat for listed species in the vicinity of a new subsurface electric transmission duct bank in Chelsea, Massachusetts. The new duct bank will interconnect an existing electric substation located at the end of Willoughby Street to the existing subsurface cable crossing of the Chelsea River near Willow Street. The purpose of this information request is to fulfill the terms of the Environmental Protection Agency-administered National Pollutant Discharge Elimination System (NPDES) exclusion #MA-05I-026 and the NPDES Remediation General Permit.

While several species of endangered and threatened whales and sea turtles are known to occur in the coastal waters of Massachusetts and may occasionally occur in Boston Harbor, no federally listed or proposed threatened or endangered species and/or designated critical habitat for listed species under the jurisdiction of NOAA's National Marine Fisheries Service (NMFS) are known to exist in the Chelsea River. Therefore, no further coordination on the potential impacts of discharges from this facility on listed species or critical habitat is required. Should project plans change, new information become available that changes the basis for this determination, or a new species be listed, then further coordination should be pursued. Should you have any questions regarding these comments please contact Julie Crocker of my staff at (978)281-9300 ext.6530.

Sincerely,

Mary A. Colligan
Assistant Regional Administrator
for Protected Resources

cc: Boelke, F/NER4

File Code: Sec 7 EPA NPDES Remediation General Permit no spp. present





February 16, 2006

Massachusetts Division of Fisheries and Wildlife
Natural Heritage and Endangered Species Program
c/o Thomas French, Ph.D.
Field Headquarters
One Rabbit Hill Road
Westborough, MA 01581

**Ref: Discharge of Construction Dewatering Effluent under the Remediation
General Permit (RGP) for the Eastern Avenue, Marginal Street Duct Bank
Project in Chelsea, MA**

Dear Dr. French,

Background Information

Boston Edison Company, d/b/a NSTAR Electric (NSTAR), is proposing to construct a new subsurface electric transmission duct bank in Chelsea, MA. The new duct bank will interconnect an existing electric substation located at the end of Willoughby Street to the existing subsurface cable crossing of the Chelsea River near Willow Street. The roughly one mile subsurface duct bank will extend along Marginal Street and Eastern Avenue. Successful completion of the project will bolster electrical transmission system reliability in the Chelsea/Boston area.

On September 9, 2005, the Director of the Office of Ecosystem Protection, EPA-New England (EPA-NE) issued a new general permit for point source discharges related to groundwater remediation projects, including construction dewatering projects where contaminants may be present. The new general permit, known as the RGP, covers discharges to surface waters in the Commonwealth of Massachusetts (MA), including the Chelsea River. NSTAR intends to seek permit coverage under the RGP because trace to low levels of metals, volatile organic compounds and semi-volatile organic compounds are expected to be encountered along the proposed duct bank route. As a result, the construction effort will be performed in accordance with the Massachusetts Contingency Plan (310 CMR 40.0000) under the supervision of a Licensed Site Professional.

Proposed Dewatering System

The proposed dewatering treatment system is designed to handle up to 20 gallons per minute (gpm) of dewatering effluent and is expected to periodically operate at rates ranging from 5 gpm to 20 gpm, when required. The treatment system will consist of the following process components:

- 1) 20,000 gallon frac tank for removal of suspended and settleable solids;

- 2) Bag filters (35 micron to 50 micron) for effluent polishing prior to GAC treatment; and,
- 3) Two (2) 1000 pound Granular Activated Carbon (GAC) filters connected in series.

Treated effluent from the system will be discharged to the Chelsea River via existing storm water drainage conveyances located along the route. The treatment system will be maintained and monitored in accordance with all applicable requirements under the RGP. NSTAR anticipates that the dewatering system will be required periodically throughout the spring to facilitate installation of the new duct bank.

Endangered and Threatened Species

Under regulations stipulated by the RGP, proposed discharges that are located in areas that presently support listed endangered or threatened species are not automatically granted coverage. Prior to submitting a Notice of Intent (NOI), project proponents must demonstrate permit eligibility with respect to the most recent Endangered and Threatened Species mapping/listing.

Based upon a review of the Massachusetts Natural Heritage Atlas (11th Edition: July 1, 2003), there are no known occurrences of endangered or threatened species within the river reaches adjacent to the discharge. Furthermore, no known priority habitat associated with endangered or threatened species is present.

A site location map is attached as Figure 1. This letter requests concurrence from the Massachusetts Division of Fisheries and Wildlife that construction of the proposed project, specifically the discharge of treated construction dewatering effluent to the Chelsea River under the NPDES Remediation General Permit (RGP), will not result in significant adverse impacts to any state listed rare, threatened, or endangered species in proximity to the discharge, including associated habitat.

Your review of this material and input for the RGP application is greatly appreciated. If you have any questions, please feel free to contact me at your earliest convenience. I may be reached at (978) 656-3570.

Sincerely,

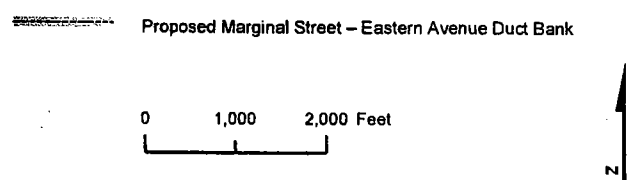


David E. Schafer, P.E.

cc: Beverly Schultz/NSTAR
Dan Watton/NSTAR
Laura Lefevbre/TRC



R:\Projects\GIS\2006\50532_NSTAR\RM\dfig1.mxd



TRC

Boott Mills South
Foot of John Street
Lowell, MA 01852
978-970-5600

Figure 1
Proposed Subsurface Duct Bank Route,
Chelsea, MA
NSTAR Electric and Gas



February 16, 2006

United States Department of the Interior
Fish and Wildlife Service
c/o Mr. Michael Amaral
70 Commercial Street, Suite 300
Concord, New Hampshire 03301-5087

Ref: Discharge of Construction Dewatering Effluent under the Remediation General Permit (RGP) for the Eastern Avenue, Marginal Street Duct Bank Project in Chelsea, MA

Dear Mr. Amaral,

Background Information

Boston Edison Company, d/b/a NSTAR Electric (NSTAR), is proposing to construct a new subsurface electric transmission duct bank in Chelsea, MA. The new duct bank will interconnect an existing electric substation located at the end of Willoughby Street to the existing subsurface cable crossing of the Chelsea River near Willow Street. The roughly one mile subsurface duct bank will extend along Marginal Street and Eastern Avenue. Successful completion of the project will bolster electrical transmission system reliability in the Chelsea/Boston area.

On September 9, 2005, the Director of the Office of Ecosystem Protection, EPA-New England (EPA-NE) issued a new general permit for point source discharges related to groundwater remediation projects, including construction dewatering projects where contaminants may be present. The new general permit, known as the RGP, covers discharges to surface waters in the Commonwealth of Massachusetts (MA), including the Chelsea River. NSTAR intends to seek permit coverage under the RGP because trace to low levels of metals, volatile organic compounds and semi-volatile organic compounds are expected to be encountered along the proposed duct bank route. As a result, the construction effort will be performed in accordance with the Massachusetts Contingency Plan (310 CMR 40.0000) under the supervision of a Licensed Site Professional.

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Treated effluent from the system will be discharged to the Chelsea River via existing storm water drainage conveyances located along the route. The treatment system will be maintained and monitored in accordance with all applicable requirements under the RGP. NSTAR anticipates that the dewatering system will be required periodically throughout the spring to facilitate installation of the new duct bank.

Endangered and Threatened Species

Under regulations stipulated by the RGP, proposed discharges that are located in areas that presently support listed endangered or threatened species are not automatically granted coverage. Prior to submitting a Notice of Intent (NOI), project proponents must demonstrate permit eligibility with respect to the most recent Endangered and Threatened Species mapping/listing.

Based upon a review of the Massachusetts Natural Heritage Atlas (11th Edition: July 1, 2003), there are no known occurrences of endangered or threatened species within the river reaches adjacent to the discharge. Furthermore, no known priority habitat associated with endangered or threatened species is present.

A site location map is attached as Figure 1. This letter requests concurrence from the U.S. Fish and Wildlife Service that construction of the proposed project, specifically the discharge of treated construction dewatering effluent to the Chelsea River under the NPDES Remediation General Permit (RGP), will not result in significant adverse impacts to any federally listed rare, threatened, or endangered species in proximity to the discharge, including associated habitat.

Your review of this material and input for the RGP application is greatly appreciated. If you have any questions, please feel free to contact me at your earliest convenience. I may be reached at (978) 656-3570.

Sincerely,



David E. Schafer, P.E.

cc: Beverly Schultz/NSTAR
Dan Watton/NSTAR
Laura Lefevbre/TRC



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Proposed Marginal Street - Eastern Avenue Duct Bank

0 1,000 2,000 Feet



TRC

Boott Mills South
Foot of John Street
Lowell, MA 01852
978-970-5600

Figure 1
Proposed Subsurface Duct Bank Route,
Chelsea, MA
NSTAR Electric and Gas



February 16, 2006

Environmental Reviewer
Massachusetts Historical Commission
220 Morrissey Boulevard
Boston, Massachusetts 02125

Ref: Discharge of Construction Dewatering Effluent under the Remediation General Permit (RGP) for the Eastern Avenue, Marginal Street Duct Bank Project in Chelsea, MA

Dear Sir or Madam,

Boston Edison Company, d/b/a NSTAR Electric (NSTAR), is proposing to construct a new subsurface electric transmission duct bank in Chelsea, MA. The new duct bank will interconnect an existing electric substation located at the end of Willoughby Street to the existing subsurface cable crossing of the Chelsea River near Willow Street. The roughly one mile subsurface duct bank will extend along Marginal Street and Eastern Avenue. Successful completion of the project will bolster electrical transmission system reliability in the Chelsea/Boston area.

A site location map is attached as Figure 1. This letter requests concurrence from the Massachusetts Historical Commission that construction of the proposed project, specifically the discharge of treated construction dewatering effluent to the Chelsea River under the NPDES Remediation General Permit (RGP), will not result in significant adverse impacts to any national historic places in proximity to the discharge.

Background Information

On September 9, 2005, the Director of the Office of Ecosystem Protection, EPA-New England (EPA-NE) issued a new general permit for point source discharges related to groundwater remediation projects, including construction dewatering projects where contaminants may be present. The new general permit, known as the RGP, covers discharges to surface waters in the Commonwealth of Massachusetts (MA), including the Chelsea River. NSTAR intends to seek permit coverage under the RGP because trace to low levels of metals, volatile organic compounds and semi-volatile organic compounds are expected to be encountered along the proposed duct bank route. As a result, the construction effort will be performed in accordance with the Massachusetts Contingency Plan (310 CMR 40.0000) under the supervision of a Licensed Site Professional.

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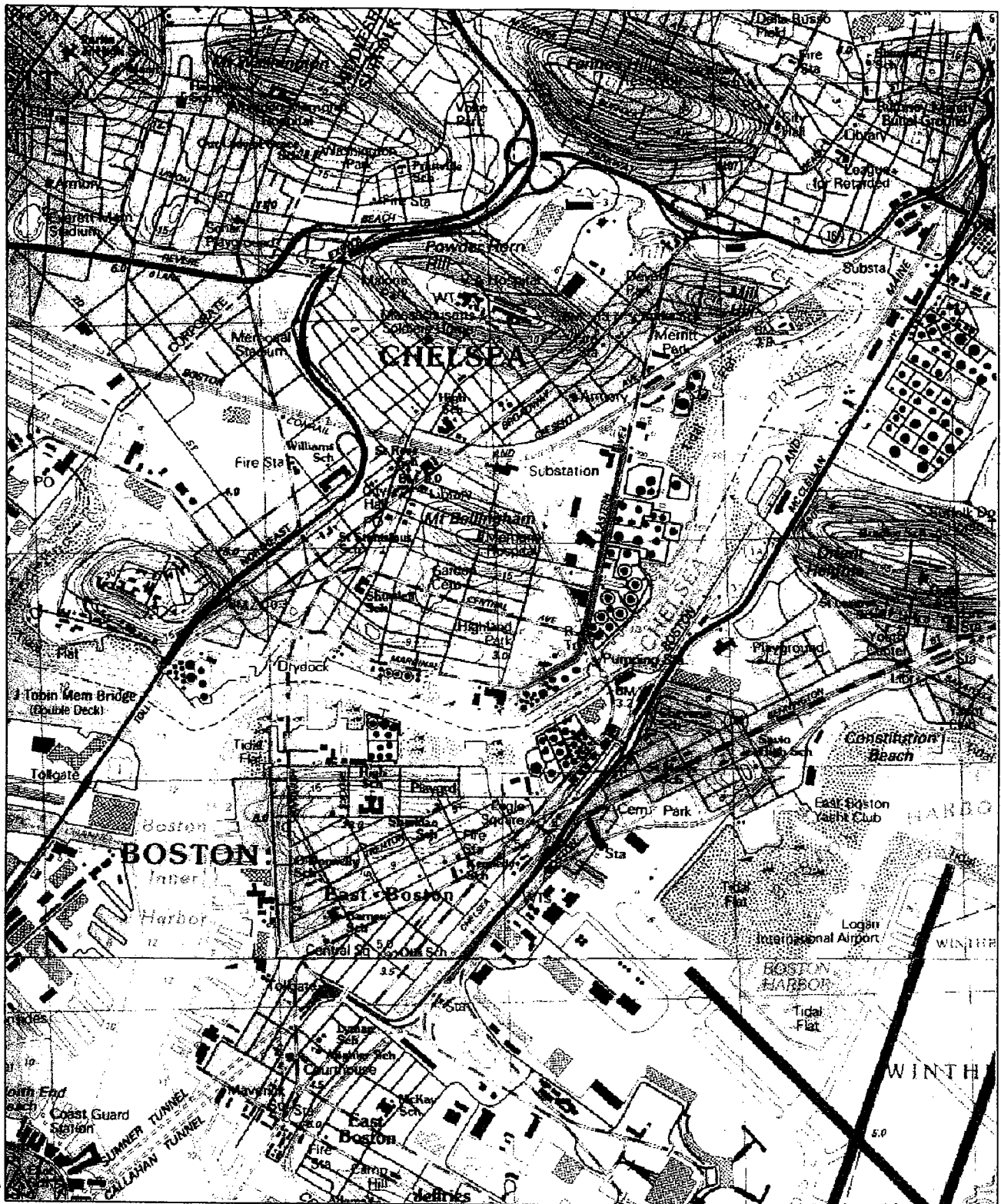
Your review of this material and input for the RGP application is greatly appreciated. If you have any questions, please feel free to contact me at your earliest convenience. I may be reached at (978) 656-3570.

Sincerely,



David E. Schafer, P.E.

cc: Beverly Schultz/NSTAR
Dan Watton/NSTAR
Laura Lefevbre/TRC



TRC

Boott Mills South
Foot of John Street
Lowell, MA 01852
978-970-5600

Figure 1
Proposed Subsurface Duct Bank Route,
Chelsea, MA
NSTAR Electric and Gas

Analytical Data for Baseline Characterization

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: Lightship Engineering Laboratory Job Number: L0514542
Address: 36 Cordage Park Circle
Suite 312
Plymouth, MA 02360 Date Received: 30-NOV-2005
Attn: Ms. Tara Walsh Date Reported: 08-DEC-2005
Project Number: 500.66 Delivery Method: Alpha
Site: MARGINAL/EASTERN

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0514542-01	SB-2/ (TMW-2)	NSTAR
L0514542-02	SB-7/ (TMW-7)	NSTAR
L0514542-03	SB-11/ (TMW-11)	NSTAR
L0514542-04	SB-14/ (TMW-14)	NSTAR
L0514542-05	SB-17/ (TMW-17)	NSTAR
L0514542-06	SB-19/ (TMW-19)	NSTAR
L0514542-07	SB-21/ (TMW-21)	NSTAR

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: Douglas Shealy
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0514542

Volatile Organics

The following have elevated limits of detection due to analytical dilutions required by the matrix of the samples:

L0514542-01 to 07 (5X)

Semi-Volatile Organics 8270

Re-analysis on dilution was required in order to quantitate the sample within the range of the calibration. The result is reported as a greater than value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the range of the calibration. The dilution is as follows:

L0514542-01 (5X)

The WG222490 LCS has a high % recovery for 2,4-Dinitrotoluene.

The WG223032 LCS has a high % recovery for Pentachlorophenol.

The WG223032 MSD has a high % recovery for Pentachlorophenol.

PAH-LOW

L0514542-01 has elevated limits of detection due to the 25x dilutions required by the elevated concentrations of target compounds in the sample.

Metals

L0514542-01 has an elevated limit of detection for Total Pb due to the 2X dilution required to quantitate the samples within the calibration curve.

L0514542-02 has an elevated limits of detection for Soluble Pb due to the 2X dilution performed because of the sample matrix.

L0514542-02 has an elevated limits of detection for Total Pb due to the 3X dilution performed because of the sample matrix.

L0514542-02 has an elevated limit of detection for soluble Ag due to the 2X dilution performed because of the sample matrix.

L0514542-02 has an elevated limit of detection for total Ag due to the 2X dilution performed because of the sample matrix.

L0514542-03 has an elevated limits of detection for Soluble Pb due to the 15X dilution performed because of the sample matrix.

L0514542-03 has an elevated limit of detection for soluble Ag due to the 2X dilution performed because of the sample matrix.

L0514542-05 has an elevated limit of detection for total Pb due to the 2X dilution required to quantitate the samples within the calibration curve.

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0514542

Continued

Pesticides

L0514554-02 has elevated limits of detection due to the 5x dilutions required by the elevated concentrations of target compounds in the sample.

**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: L0514542-01
SB-2/ (TMW-2)
Sample Matrix: WATER

Date Collected: 29-NOV-2005 15:00
Date Received : 30-NOV-2005
Date Reported : 08-DEC-2005

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 10-Amber,5-Plastic,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total Suspended	310	mg/l	15.	4 160.2		1205 15:30	DT
Cyanide, Total	0.008	mg/l	0.005	4 335.2	1203 12:40	1205 17:09	DD
Chlorine, Total Residual	ND	mg/l	0.05	4 330.1		1130 21:05	DP
TPH	6.95	mg/l	4.40	74 1664A	1205 11:30	1206 08:30	AT
Phenolics, Total	0.27	mg/l	0.06	4 420.1		1207 09:00	AT
Chromium, Hexavalent	ND	mg/l	0.02	30 3500CR-D	1130 19:00	1130 19:00	HS
Total Metals				19 200.7			
Antimony, Total	0.006	mg/l	0.005	3 200.9	1201 13:30	1205 13:13	PY
Arsenic, Total	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:39	MG
Cadmium, Total	0.0016	mg/l	0.0002	4 213.2	1201 13:30	1205 18:03	PY
Chromium, Total	0.05	mg/l	0.01	19 200.7	1201 13:30	1202 12:39	MG
Iron, Total	5.2	mg/l	0.05	19 200.7	1201 13:30	1202 12:39	MG
Lead, Total	0.053	mg/l	0.002	3 200.9	1201 13:30	1207 11:59	PY
Mercury, Total	ND	mg/l	0.0002	4 245.2	1201 16:50	1202 14:36	DM
Nickel, Total	ND	mg/l	0.025	19 200.7	1201 13:30	1202 12:39	MG
Selenium, Total	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:39	MG
Silver, Total	ND	mg/l	0.0002	4 272.2	1201 13:30	1206 20:08	PY
Zinc, Total	0.238	mg/l	0.050	19 200.7	1201 13:30	1202 12:39	MG
Dissolved Metals							
Antimony, Dissolved	ND	mg/l	0.005	4 204.2	1201 13:30	1205 11:45	PY
Arsenic, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 11:30	MG
Cadmium, Dissolved	0.0010	mg/l	0.0002	4 213.2	1201 13:30	1205 16:47	PY
Chromium, Dissolved	0.03	mg/l	0.01	19 200.7	1201 13:30	1202 11:30	MG
Iron, Dissolved	ND	mg/l	0.05	19 200.7	1201 13:30	1202 11:30	MG
Lead, Dissolved	ND	mg/l	0.001	4 239.2	1201 13:30	1206 22:42	PY
Mercury, Dissolved	ND	mg/l	0.0002	3 245.1	1201 16:50	1202 14:12	DM
Nickel, Dissolved	ND	mg/l	0.025	19 200.7	1201 13:30	1202 11:30	MG
Selenium, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 11:30	MG
Silver, Dissolved	ND	mg/l	0.0002	4 272.2	1201 13:30	1206 14:04	PY
Zinc, Dissolved	0.107	mg/l	0.050	19 200.7	1201 13:30	1202 11:30	MG

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-01
SB-2/ (TMW-2)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Pesticides by GC 504				14 504.1	1206 15:00	1206 17:57	JB
1,2-Dibromoethane	ND	ug/l	0.020				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.020				
Volatile Organics by GC/MS 624				5 624		1202 10:32	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				
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	ND	ug/l	5.0				
Toluene	ND	ug/l	5.0				
Ethylbenzene	ND	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	ND	ug/l	10.				
o-xylene	ND	ug/l	5.0				
Xylene (Total)	ND	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	40.				
Acrylonitrile	ND	ug/l	50.				
Methyl tert butyl ether	ND	ug/l	100				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-01
SB-2/ (TMW-2)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 624 cont'd				5 624		1202 10:32 MM	
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	105.	%	80-120				
Fluorobenzene	105.	%	80-120				
4-Bromofluorobenzene	106.	%	80-120				
SVOC's by GC/MS 8270				1 8270C		1201 11:00 1203 03:07 RL	
Acenaphthene	71.	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	8.4	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	>200	ug/l	5				
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	6.0	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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-01
SB-2/ (TMW-2)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	1201 11:00	1203 03:07	RL
Anthracene	11.	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	38.	ug/l	5.0				
Phenanthrene	57.	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	8.5	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	170	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	14.	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	150	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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-01
SB-2/ (TMW-2)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	1201 11:00	1203 03:07	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	40.0	%	21-120				
Phenol-d6	33.0	%	10-120				
Nitrobenzene-d5	79.0	%	23-120				
2-Fluorobiphenyl	78.0	%	43-120				
2,4,6-Tribromophenol	102.	%	10-120				
4-Terphenyl-d14	90.0	%	33-120				
SVOC's by GC/MS 8270				1 8270C	1201 11:00	1203 11:53	RL
Naphthalene	420	ug/l	25.				
PAH by GC/MS SIM 8270M				1 8270C-M	1201 11:00	1206 11:29	RL
Acenaphthene	78.	ug/l	5.0				
2-Chloronaphthalene	ND	ug/l	5.0				
Fluoranthene	11.	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	12.				
Naphthalene	450	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	12.	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	45.	ug/l	5.0				
Phenanthrene	64.	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	5.0				
Pyrene	12.	ug/l	5.0				
1-Methylnaphthalene	220	ug/l	5.0				
2-Methylnaphthalene	190	ug/l	5.0				
Pentachlorophenol	ND	ug/l	20.				
Hexachlorobenzene	ND	ug/l	20.				
Perylene	ND	ug/l	5.0				
Biphenyl	ND	ug/l	5.0				
2,6-Dimethylnaphthalene	34.	ug/l	5.0				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-01
SB-2/ (TMW-2)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M cont'd				1	8270C-M	1201 11:00 1206 11:29	RL
1-Methylphenanthrene	5.3	ug/l	5.0				
Benzo(e) Pyrene	ND	ug/l	5.0				
Hexachloroethane	ND	ug/l	20.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	51.0	%	21-120				
Phenol-d6	40.0	%	10-120				
Nitrobenzene-d5	97.0	%	23-120				
2-Fluorobiphenyl	105.	%	43-120				
2,4,6-Tribromophenol	95.0	%	10-120				
4-Terphenyl-d14	115.	%	33-120				
Polychlorinated Biphenyls				5	608	1201 16:00 1205 17:40	JB
Aroclor 1221	ND	ug/l	0.266				
Aroclor 1232	ND	ug/l	0.266				
Aroclor 1242/1016	ND	ug/l	0.266				
Aroclor 1248	ND	ug/l	0.266				
Aroclor 1254	ND	ug/l	0.266				
Aroclor 1260	ND	ug/l	0.266				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	71.0	%	30-150				
Decachlorobiphenyl	86.0	%	30-150				

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

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: L0514542-02
SB-7/ (TMW-7)
Sample Matrix: WATER

Date Collected: 29-NOV-2005 12:00
Date Received : 30-NOV-2005
Date Reported : 08-DEC-2005

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 5-Amber, 5-Plastic, 4-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE		ID
						PREP	ANAL	
Solids, Total Suspended	130	mg/l	5.0	4	160.2		1205 15:30	DT
Cyanide, Total	ND	mg/l	0.005	4	335.2	1203 12:40	1205 17:11	DD
Chlorine, Total Residual	ND	mg/l	0.05	4	330.1		1130 21:05	DP
TPH	ND	mg/l	4.00	74	1664A	1205 11:30	1206 08:30	AT
Phenolics, Total	0.13	mg/l	0.03	4	420.1		1207 09:00	AT
Chromium, Hexavalent	ND	mg/l	0.02	30	3500CR-D	1130 19:00	1130 19:00	HS
Total Metals				19	200.7			
Antimony, Total	ND	mg/l	0.005	3	200.9	1201 13:30	1205 13:20	PY
Arsenic, Total	ND	mg/l	0.005	19	200.7	1201 13:30	1202 12:42	MG
Cadmium, Total	0.0002	mg/l	0.0002	4	213.2	1201 13:30	1205 19:07	PY
Chromium, Total	ND	mg/l	0.01	19	200.7	1201 13:30	1202 12:42	MG
Iron, Total	0.66	mg/l	0.05	19	200.7	1201 13:30	1202 12:42	MG
Lead, Total	ND	mg/l	0.003	3	200.9	1201 13:30	1207 12:06	PY
Mercury, Total	ND	mg/l	0.0002	4	245.2	1201 16:50	1202 14:38	DM
Nickel, Total	ND	mg/l	0.025	19	200.7	1201 13:30	1202 12:42	MG
Selenium, Total	ND	mg/l	0.005	19	200.7	1201 13:30	1202 12:42	MG
Silver, Total	ND	mg/l	0.0004	4	272.2	1201 13:30	1206 20:15	PY
Zinc, Total	ND	mg/l	0.050	19	200.7	1201 13:30	1202 12:42	MG
Dissolved Metals								
Antimony, Dissolved	ND	mg/l	0.005	4	204.2	1201 13:30	1205 11:52	PY
Arsenic, Dissolved	ND	mg/l	0.005	19	200.7	1201 13:30	1202 11:34	MG
Cadmium, Dissolved	ND	mg/l	0.0002	4	213.2	1201 13:30	1205 16:52	PY
Chromium, Dissolved	ND	mg/l	0.01	19	200.7	1201 13:30	1202 11:34	MG
Iron, Dissolved	ND	mg/l	0.05	19	200.7	1201 13:30	1205 13:34	RW
Lead, Dissolved	ND	mg/l	0.002	4	239.2	1201 13:30	1207 11:39	PY
Mercury, Dissolved	ND	mg/l	0.0002	3	245.1	1201 16:50	1202 14:14	DM
Nickel, Dissolved	ND	mg/l	0.025	19	200.7	1201 13:30	1202 11:34	MG
Selenium, Dissolved	ND	mg/l	0.005	19	200.7	1201 13:30	1202 11:34	MG
Silver, Dissolved	ND	mg/l	0	4	272.2	1201 13:30	1206 14:11	PY
Zinc, Dissolved	ND	mg/l	0.050	19	200.7	1201 13:30	1202 11:34	MG

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-02
SB-7/ (TMW-7)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Pesticides by GC 504				14 504.1	1206 15:00	1206 18:19	JB
1,2-Dibromoethane	ND	ug/l	0.019				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.019				
Volatile Organics by GC/MS 624				5 624		1202 11:08	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				
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	ND	ug/l	5.0				
Toluene	ND	ug/l	5.0				
Ethylbenzene	ND	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	ND	ug/l	10.				
o-xylene	ND	ug/l	5.0				
Xylene (Total)	ND	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	40.				
Acrylonitrile	ND	ug/l	50.				
Methyl tert butyl ether	ND	ug/l	100				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-02
SB-7/ (TMW-7)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 624 cont'd				5	624	1202 11:08 MM	
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	94.0	%	80-120				
Fluorobenzene	100.	%	80-120				
4-Bromofluorobenzene	108.	%	80-120				
SVOC's by GC/MS 8270				1	8270C	1201 11:00 1203 03:32 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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-02
SB-7/ (TMW-7)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	1201 11:00	1203 03:32	RL
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-02
SB-7/ (TMW-7)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
SVOC's by GC/MS 8270 cont'd						
				1 8270C	1201 11:00	1203 03:32 RL
2-Methylphenol	ND	ug/l	6.0			
3-Methylphenol/4-Methylphenol	6.5	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	32.0	%	21-120			
Phenol-d6	28.0	%	10-120			
Nitrobenzene-d5	59.0	%	23-120			
2-Fluorobiphenyl	61.0	%	43-120			
2,4,6-Tribromophenol	103.	%	10-120			
4-Terphenyl-d14	100.	%	33-120			
PAH by GC/MS SIM 8270M						
				1 8270C-M	1201 11:00	1202 17:10 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	0.24	ug/l	0.20			
2-Methylnaphthalene	0.36	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			
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			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-02
SB-7/ (TMW-7)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M cont'd				1	8270C-M	1201 11:00	1202 17:10 RL
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	38.0	%	21-120				
Phenol-d6	32.0	%	10-120				
Nitrobenzene-d5	60.0	%	23-120				
2-Fluorobiphenyl	57.0	%	43-120				
2,4,6-Tribromophenol	65.0	%	10-120				
4-Terphenyl-d14	74.0	%	33-120				
Polychlorinated Biphenyls				5	608	1201 16:00	1205 18:09 JB
Aroclor 1221	ND	ug/l	0.255				
Aroclor 1232	ND	ug/l	0.255				
Aroclor 1242/1016	ND	ug/l	0.255				
Aroclor 1248	ND	ug/l	0.255				
Aroclor 1254	ND	ug/l	0.255				
Aroclor 1260	ND	ug/l	0.255				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	47.0	%	30-150				
Decachlorobiphenyl	62.0	%	30-150				

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

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

Date Collected: 29-NOV-2005 15:00
Date Received : 30-NOV-2005
Date Reported : 08-DEC-2005

Field Prep: Field Filtered

Number & Type of Containers: 5-Amber,5-Plastic,4-Vial

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-03
SB-11/ (TMW-11).

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Pesticides by GC 504				14 504.1	1206 15:00	1206 18:41	JB
1,2-Dibromoethane	ND	ug/l	0.019				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.019				
 Volatile Organics by GC/MS 624							
Methylene chloride	ND	ug/l	25.	5 624		1202 11:44	MM
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				
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	ND	ug/l	5.0				
Toluene	ND	ug/l	5.0				
Ethylbenzene	ND	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	ND	ug/l	10.				
o-xylene	ND	ug/l	5.0				
Xylene (Total)	ND	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	40.				
Acrylonitrile	ND	ug/l	50.				
Methyl tert butyl ether	ND	ug/l	100				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-03
SB-11/ (TMW-11)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 624 cont'd				5 624		1202 11:44 MM	
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	102.	%	80-120				
Fluorobenzene	104.	%	80-120				
4-Bromofluorobenzene	105.	%	80-120				
SVOC's by GC/MS 8270				1 8270C		1201 11:00 1203 03:57 RL	
Acenaphthene	ND	ug/l	4.8				
Benzidine	ND	ug/l	48.				
1,2,4-Trichlorobenzene	ND	ug/l	4.8				
Hexachlorobenzene	ND	ug/l	4.8				
Bis(2-chloroethyl) ether	ND	ug/l	4.8				
1-Chloronaphthalene	ND	ug/l	4.8				
2-Chloronaphthalene	ND	ug/l	5.8				
1,2-Dichlorobenzene	ND	ug/l	4.8				
1,3-Dichlorobenzene	ND	ug/l	4.8				
1,4-Dichlorobenzene	ND	ug/l	4.8				
3,3'-Dichlorobenzidine	ND	ug/l	48.				
2,4-Dinitrotoluene	ND	ug/l	5.8				
2,6-Dinitrotoluene	ND	ug/l	4.8				
Azobenzene	ND	ug/l	4.8				
Fluoranthene	ND	ug/l	4.8				
4-Chlorophenyl phenyl ether	ND	ug/l	4.8				
4-Bromophenyl phenyl ether	ND	ug/l	4.8				
Bis(2-chloroisopropyl) ether	ND	ug/l	4.8				
Bis(2-chloroethoxy) methane	ND	ug/l	4.8				
Hexachlorobutadiene	ND	ug/l	9.7				
Hexachlorocyclopentadiene	ND	ug/l	9.7				
Hexachloroethane	ND	ug/l	4.8				
Isophorone	ND	ug/l	4.8				
Naphthalene	ND	ug/l	4.8				
Nitrobenzene	ND	ug/l	4.8				
NDPA/DPA	ND	ug/l	14.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.8				
Bis(2-ethylhexyl) phthalate	ND	ug/l	9.7				
Butyl benzyl phthalate	ND	ug/l	4.8				
Di-n-butylphthalate	ND	ug/l	4.8				
Di-n-octylphthalate	ND	ug/l	4.8				
Diethyl phthalate	ND	ug/l	4.8				
Dimethyl phthalate	ND	ug/l	4.8				
Benzo(a) anthracene	ND	ug/l	4.8				
Benzo(a) pyrene	ND	ug/l	4.8				
Benzo(b) fluoranthene	ND	ug/l	4.8				
Benzo(k) fluoranthene	ND	ug/l	4.8				
Chrysene	ND	ug/l	4.8				
Acenaphthylene	ND	ug/l	4.8				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-03
SB-11/ (TMW-11)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	1201 11:00	1203 03:57	RL
Anthracene	ND	ug/l	4.8				
Benzo(ghi)perylene	ND	ug/l	4.8				
Fluorene	ND	ug/l	4.8				
Phenanthrene	ND	ug/l	4.8				
Dibenzo(a,h)anthracene	ND	ug/l	4.8				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.8				
Pyrene	ND	ug/l	4.8				
Benzo(e)pyrene	ND	ug/l	4.8				
Biphenyl	ND	ug/l	4.8				
Perylene	ND	ug/l	4.8				
Aniline	ND	ug/l	9.7				
4-Chloroaniline	ND	ug/l	4.8				
1-Methylnaphthalene	ND	ug/l	4.8				
2-Nitroaniline	ND	ug/l	4.8				
3-Nitroaniline	ND	ug/l	4.8				
4-Nitroaniline	ND	ug/l	6.8				
Dibenzofuran	ND	ug/l	4.8				
a,a-Dimethylphenethylamine	ND	ug/l	48.				
Hexachloropropene	ND	ug/l	9.7				
Nitrosodi-n-butylamine	ND	ug/l	9.7				
2-Methylnaphthalene	ND	ug/l	4.8				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	19.				
Pentachlorobenzene	ND	ug/l	19.				
a-Naphthylamine	ND	ug/l	19.				
b-Naphthylamine	ND	ug/l	19.				
Phenacetin	ND	ug/l	9.7				
Dimethoate	ND	ug/l	19.				
4-Aminobiphenyl	ND	ug/l	9.7				
Pentachloronitrobenzene	ND	ug/l	9.7				
Isodrin	ND	ug/l	9.7				
p-Dimethylaminoazobenzene	ND	ug/l	9.7				
Chlorobenzilate	ND	ug/l	19.				
3-Methylcholanthrene	ND	ug/l	19.				
Ethyl Methanesulfonate	ND	ug/l	14.				
Acetophenone	ND	ug/l	19.				
Nitrosodipiperidine	ND	ug/l	19.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.7				
n-Nitrosodimethylamine	ND	ug/l	48.				
2,4,6-Trichlorophenol	ND	ug/l	4.8				
p-Chloro-m-cresol	ND	ug/l	4.8				
2-Chlorophenol	ND	ug/l	5.8				
2,4-Dichlorophenol	ND	ug/l	9.7				
2,4-Dimethylphenol	ND	ug/l	9.7				
2-Nitrophenol	ND	ug/l	19.				
4-Nitrophenol	ND	ug/l	9.7				
2,4-Dinitrophenol	ND	ug/l	19.				
4,6-Dinitro-o-cresol	ND	ug/l	19.				
Pentachlorophenol	ND	ug/l	19.				
Phenol	ND	ug/l	6.8				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-03
SB-11/ (TMW-11)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd							
				1 8270C	1201 11:00	1203 03:57	RL
2-Methylphenol	ND	ug/l	5.8				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8				
2,4,5-Trichlorophenol	ND	ug/l	4.8				
2,6-Dichlorophenol	ND	ug/l	9.7				
Benzoic Acid	ND	ug/l	48.				
Benzyl Alcohol	ND	ug/l	9.7				
Carbazole	ND	ug/l	4.8				
Pyridine	ND	ug/l	48.				
2-Picoline	ND	ug/l	19.				
Pronamide	ND	ug/l	19.				
Methyl methanesulfonate	ND	ug/l	19.				
Surrogate(s)							
	Recovery		QC Criteria				
2-Fluorophenol	32.0	%	21-120				
Phenol-d6	27.0	%	10-120				
Nitrobenzene-d5	60.0	%	23-120				
2-Fluorobiphenyl	64.0	%	43-120				
2,4,6-Tribromophenol	99.0	%	10-120				
4-Terphenyl-d14	101.	%	33-120				
PAH by GC/MS SIM 8270M							
				1 8270C-M	1201 11:00	1202 17:55	RL
Acenaphthene	ND	ug/l	0.19				
2-Chloronaphthalene	ND	ug/l	0.19				
Fluoranthene	ND	ug/l	0.19				
Hexachlorobutadiene	ND	ug/l	0.48				
Naphthalene	ND	ug/l	0.19				
Benzo(a)anthracene	ND	ug/l	0.19				
Benzo(a)pyrene	ND	ug/l	0.19				
Benzo(b)fluoranthene	ND	ug/l	0.19				
Benzo(k)fluoranthene	ND	ug/l	0.19				
Chrysene	ND	ug/l	0.19				
Acenaphthylene	ND	ug/l	0.19				
Anthracene	ND	ug/l	0.19				
Benzo(ghi)perylene	ND	ug/l	0.19				
Fluorene	ND	ug/l	0.19				
Phenanthrene	ND	ug/l	0.19				
Dibenzo(a,h)anthracene	ND	ug/l	0.19				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.19				
Pyrene	ND	ug/l	0.19				
1-Methylnaphthalene	0.22	ug/l	0.19				
2-Methylnaphthalene	0.21	ug/l	0.19				
Pentachlorophenol	ND	ug/l	0.78				
Hexachlorobenzene	ND	ug/l	0.78				
Perylene	ND	ug/l	0.19				
Biphenyl	ND	ug/l	0.19				
2,6-Dimethylnaphthalene	ND	ug/l	0.19				
1-Methylphenanthrene	ND	ug/l	0.19				
Benzo(e)Pyrene	ND	ug/l	0.19				
Hexachloroethane	ND	ug/l	0.78				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-03
SB-11/ (TMW-11)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID	
					PREP	ANAL		
PAH by GC/MS SIM 8270M cont'd				1	8270C-M	1201 11:00	1202 17:55	RL
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	35.0	%	21-120					
Phenol-d6	29.0	%	10-120					
Nitrobenzene-d5	55.0	%	23-120					
2-Fluorobiphenyl	56.0	%	43-120					
2,4,6-Tribromophenol	60.0	%	10-120					
4-Terphenyl-d14	75.0	%	33-120					
Polychlorinated Biphenyls				5	608	1201 16:00	1205 18:37	JB
Aroclor 1221	ND	ug/l	0.263					
Aroclor 1232	ND	ug/l	0.263					
Aroclor 1242/1016	ND	ug/l	0.263					
Aroclor 1248	ND	ug/l	0.263					
Aroclor 1254	ND	ug/l	0.263					
Aroclor 1260	ND	ug/l	0.263					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	67.0	%	30-150					
Decachlorobiphenyl	61.0	%	30-150					

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

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: L0514542-04
SB-14/ (TMW-14)
Sample Matrix: WATER

Date Collected: 29-NOV-2005 12:00
Date Received : 30-NOV-2005
Date Reported : 08-DEC-2005

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 10-Amber, 5-Plastic, 4-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE		ID
						PREP	ANAL	
Solids, Total Suspended	630	mg/l	15.	4	160.2		1205 15:30	DT
Cyanide, Total	ND	mg/l	0.005	4	335.2	1203 12:40	1205 17:13	DD
Chlorine, Total Residual	ND	mg/l	0.05	4	330.1		1130 21:05	DP
TPH	ND	mg/l	4.00	74	1664A	1205 11:30	1206 08:30	AT
Phenolics, Total	ND	mg/l	0.03	4	420.1		1207 09:00	AT
Chromium, Hexavalent	ND	mg/l	0.02	30	3500CR-D	1130 19:00	1130 19:00	HS
Total Metals				19	200.7			
Antimony, Total	ND	mg/l	0.005	3	200.9	1201 13:30	1205 13:34	PY
Arsenic, Total	ND	mg/l	0.005	19	200.7	1201 13:30	1202 12:51	MG
Cadmium, Total	0.0002	mg/l	0.0002	4	213.2	1201 13:30	1205 18:25	PY
Chromium, Total	0.08	mg/l	0.01	19	200.7	1201 13:30	1202 12:51	MG
Iron, Total	59.	mg/l	0.05	19	200.7	1201 13:30	1202 12:51	MG
Lead, Total	0.039	mg/l	0.001	3	200.9	1201 13:30	1207 00:41	PY
Mercury, Total	ND	mg/l	0.0002	4	245.2	1201 16:50	1202 14:45	DM
Nickel, Total	0.063	mg/l	0.025	19	200.7	1201 13:30	1202 12:51	MG
Selenium, Total	ND	mg/l	0.005	19	200.7	1201 13:30	1202 12:51	MG
Silver, Total	ND	mg/l	0.0002	4	272.2	1201 13:30	1206 15:26	PY
Zinc, Total	0.178	mg/l	0.050	19	200.7	1201 13:30	1202 12:51	MG
Dissolved Metals								
Antimony, Dissolved	ND	mg/l	0.005	4	204.2	1201 13:30	1205 12:05	PY
Arsenic, Dissolved	ND	mg/l	0.005	19	200.7	1201 13:30	1202 13:44	MG
Cadmium, Dissolved	ND	mg/l	0.0002	4	213.2	1201 13:30	1205 17:02	PY
Chromium, Dissolved	ND	mg/l	0.01	19	200.7	1201 13:30	1202 13:44	MG
Iron, Dissolved	1.4	mg/l	0.05	19	200.7	1201 13:30	1202 13:44	MG
Lead, Dissolved	ND	mg/l	0.001	4	239.2	1201 13:30	1206 23:02	PY
Mercury, Dissolved	ND	mg/l	0.0002	3	245.1	1201 16:50	1202 14:22	DM
Nickel, Dissolved	ND	mg/l	0.025	19	200.7	1201 13:30	1202 13:44	MG
Selenium, Dissolved	ND	mg/l	0.005	19	200.7	1201 13:30	1202 13:44	MG
Silver, Dissolved	ND	mg/l	0	4	272.2	1201 13:30	1206 12:43	PY
Zinc, Dissolved	ND	mg/l	0.050	19	200.7	1201 13:30	1202 13:44	MG

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-04
SB-14/ (TMW-14)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Pesticides by GC 504				14 504.1	1206 15:00	1206 19:03	JB
1,2-Dibromoethane	ND	ug/l	0.020				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.020				
Volatile Organics by GC/MS 624				5 624		1202 12:20	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				
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	ND	ug/l	5.0				
Toluene	ND	ug/l	5.0				
Ethylbenzene	ND	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	ND	ug/l	10.				
o-xylene	ND	ug/l	5.0				
Xylene (Total)	ND	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	40.				
Acrylonitrile	ND	ug/l	50.				
Methyl tert butyl ether	ND	ug/l	100				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-04
SB-14/ (TMW-14)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 624 cont'd				5	624	1202 12:20 MM	
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	106.	%	80-120				
Fluorobenzene	107.	%	80-120				
4-Bromofluorobenzene	105.	%	80-120				
SVOC's by GC/MS 8270				1	8270C	1205 17:30 1206 14:41 RL	
Acenaphthene	ND	ug/l	4.9				
Benzidine	ND	ug/l	49.				
1,2,4-Trichlorobenzene	ND	ug/l	4.9				
Hexachlorobenzene	ND	ug/l	4.9				
Bis(2-chloroethyl) ether	ND	ug/l	4.9				
1-Chloronaphthalene	ND	ug/l	4.9				
2-Chloronaphthalene	ND	ug/l	5.9				
1,2-Dichlorobenzene	ND	ug/l	4.9				
1,3-Dichlorobenzene	ND	ug/l	4.9				
1,4-Dichlorobenzene	ND	ug/l	4.9				
3,3'-Dichlorobenzidine	ND	ug/l	49.				
2,4-Dinitrotoluene	ND	ug/l	5.9				
2,6-Dinitrotoluene	ND	ug/l	4.9				
Azobenzene	ND	ug/l	4.9				
Fluoranthene	ND	ug/l	4.9				
4-Chlorophenyl phenyl ether	ND	ug/l	4.9				
4-Bromophenyl phenyl ether	ND	ug/l	4.9				
Bis(2-chloroisopropyl) ether	ND	ug/l	4.9				
Bis(2-chloroethoxy) methane	ND	ug/l	4.9				
Hexachlorobutadiene	ND	ug/l	9.8				
Hexachlorocyclopentadiene	ND	ug/l	9.8				
Hexachloroethane	ND	ug/l	4.9				
Isophorone	ND	ug/l	4.9				
Naphthalene	ND	ug/l	4.9				
Nitrobenzene	ND	ug/l	4.9				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.9				
Bis(2-ethylhexyl) phthalate	ND	ug/l	9.8				
Butyl benzyl phthalate	ND	ug/l	4.9				
Di-n-butylphthalate	ND	ug/l	4.9				
Di-n-octylphthalate	ND	ug/l	4.9				
Diethyl phthalate	ND	ug/l	4.9				
Dimethyl phthalate	ND	ug/l	4.9				
Benzo(a)anthracene	ND	ug/l	4.9				
Benzo(a)pyrene	ND	ug/l	4.9				
Benzo(b)fluoranthene	ND	ug/l	4.9				
Benzo(k)fluoranthene	ND	ug/l	4.9				
Chrysene	ND	ug/l	4.9				
Acenaphthylene	ND	ug/l	4.9				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-04
SB-14/ (TMW-14)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1	8270C	1205 17:30	1206 14:41 RL
Anthracene	ND	ug/l	4.9				
Benzo(ghi)perylene	ND	ug/l	4.9				
Fluorene	ND	ug/l	4.9				
Phenanthrene	ND	ug/l	4.9				
Dibenzo(a,h)anthracene	ND	ug/l	4.9				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.8				
Pyrene	ND	ug/l	4.9				
Benzo(e)pyrene	ND	ug/l	4.9				
Biphenyl	ND	ug/l	4.9				
Perylene	ND	ug/l	4.9				
Aniline	ND	ug/l	9.8				
4-Chloroaniline	ND	ug/l	4.9				
1-Methylnaphthalene	ND	ug/l	4.9				
2-Nitroaniline	ND	ug/l	4.9				
3-Nitroaniline	ND	ug/l	4.9				
4-Nitroaniline	ND	ug/l	6.8				
Dibenzofuran	ND	ug/l	4.9				
a,a-Dimethylphenethylamine	ND	ug/l	49.				
Hexachloropropene	ND	ug/l	9.8				
Nitrosodi-n-butylamine	ND	ug/l	9.8				
2-Methylnaphthalene	ND	ug/l	4.9				
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	9.8				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	9.8				
Pentachloronitrobenzene	ND	ug/l	9.8				
Isodrin	ND	ug/l	9.8				
p-Dimethylaminoazobenzene	ND	ug/l	9.8				
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	9.8				
n-Nitrosodimethylamine	ND	ug/l	49.				
2,4,6-Trichlorophenol	ND	ug/l	4.9				
p-Chloro-m-cresol	ND	ug/l	4.9				
2-Chlorophenol	ND	ug/l	5.9				
2,4-Dichlorophenol	ND	ug/l	9.8				
2,4-Dimethylphenol	ND	ug/l	9.8				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	9.8				
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	6.8				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-04
SB-14/ (TMW-14)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	1205 17:30	1206 14:41	RL
2-Methylphenol	ND	ug/l	5.9				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9				
2,4,5-Trichlorophenol	ND	ug/l	4.9				
2,6-Dichlorophenol	ND	ug/l	9.8				
Benzoic Acid	ND	ug/l	49.				
Benzyl Alcohol	ND	ug/l	9.8				
Carbazole	ND	ug/l	4.9				
Pyridine	ND	ug/l	49.				
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	%	21-120				
Phenol-d6	30.0	%	10-120				
Nitrobenzene-d5	68.0	%	23-120				
2-Fluorobiphenyl	78.0	%	43-120				
2,4,6-Tribromophenol	109.	%	10-120				
4-Terphenyl-d14	96.0	%	33-120				
PAH by GC/MS SIM 8270M				1 8270C-M	1205 17:30	1206 12:59	RL
Acenaphthene	0.31	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	0.52	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.49				
Naphthalene	0.48	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	0.32	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	0.46	ug/l	0.20				
Phenanthrene	0.94	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	0.48	ug/l	0.20				
1-Methylnaphthalene	1.0	ug/l	0.20				
2-Methylnaphthalene	0.67	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.78				
Hexachlorobenzene	ND	ug/l	0.78				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
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	0.78				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-04
SB-14/ (TMW-14)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M cont'd							
Surrogate(s)	Recovery			1 8270C-M	1205 17:30	1206 12:59	RL
2-Fluorophenol	46.0	%		QC Criteria			
Phenol-d6	38.0	%		21-120			
Nitrobenzene-d5	73.0	%		10-120			
2-Fluorobiphenyl	71.0	%		23-120			
2,4,6-Tribromophenol	81.0	%		43-120			
4-Terphenyl-d14	66.0	%		10-120			
				33-120			
Polychlorinated Biphenyls							
Aroclor 1221	ND	ug/l	0.269	5 608	1201 16:00	1205 19:06	JB
Aroclor 1232	ND	ug/l	0.269				
Aroclor 1242/1016	ND	ug/l	0.269				
Aroclor 1248	ND	ug/l	0.269				
Aroclor 1254	ND	ug/l	0.269				
Aroclor 1260	ND	ug/l	0.269				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	61.0	%		30-150			
Decachlorobiphenyl	71.0	%		30-150			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-05
SB-17/ (TMW-17)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 624 cont'd				5	624		1202 12:56 MM
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	97.0	%	80-120				
Fluorobenzene	101.	%	80-120				
4-Bromofluorobenzene	106.	%	80-120				
SVOC's by GC/MS 8270				1	8270C	1201 11:00 1203 04:47 RL	
Acenaphthene	8.3	ug/l	4.9				
Benzidine	ND	ug/l	49.				
1,2,4-Trichlorobenzene	ND	ug/l	4.9				
Hexachlorobenzene	ND	ug/l	4.9				
Bis(2-chloroethyl)ether	ND	ug/l	4.9				
1-Chloronaphthalene	ND	ug/l	4.9				
2-Chloronaphthalene	ND	ug/l	5.9				
1,2-Dichlorobenzene	ND	ug/l	4.9				
1,3-Dichlorobenzene	ND	ug/l	4.9				
1,4-Dichlorobenzene	ND	ug/l	4.9				
3,3'-Dichlorobenzidine	ND	ug/l	49.				
2,4-Dinitrotoluene	ND	ug/l	5.9				
2,6-Dinitrotoluene	ND	ug/l	4.9				
Azobenzene	ND	ug/l	4.9				
Fluoranthene	8.5	ug/l	4.9				
4-Chlorophenyl phenyl ether	ND	ug/l	4.9				
4-Bromophenyl phenyl ether	ND	ug/l	4.9				
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9				
Bis(2-chloroethoxy)methane	ND	ug/l	4.9				
Hexachlorobutadiene	ND	ug/l	9.9				
Hexachlorocyclopentadiene	ND	ug/l	9.9				
Hexachloroethane	ND	ug/l	4.9				
Isophorone	ND	ug/l	4.9				
Naphthalene	ND	ug/l	4.9				
Nitrobenzene	ND	ug/l	4.9				
NDPA/DPA	ND	ug/l	15.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.9				
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.9				
Butyl benzyl phthalate	ND	ug/l	4.9				
Di-n-butylphthalate	ND	ug/l	4.9				
Di-n-octylphthalate	ND	ug/l	4.9				
Diethyl phthalate	ND	ug/l	4.9				
Dimethyl phthalate	ND	ug/l	4.9				
Benzo(a)anthracene	ND	ug/l	4.9				
Benzo(a)pyrene	ND	ug/l	4.9				
Benzo(b)fluoranthene	ND	ug/l	4.9				
Benzo(k)fluoranthene	ND	ug/l	4.9				
Chrysene	ND	ug/l	4.9				
Acenaphthylene	ND	ug/l	4.9				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-05
SB-17/ (TMW-17)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1	8270C	1201 11:00 1203 04:47	RL
Anthracene	ND	ug/l	4.9				
Benzo(ghi)perylene	ND	ug/l	4.9				
Fluorene	7.6	ug/l	4.9				
Phenanthrene	15.	ug/l	4.9				
Dibenzo(a,h)anthracene	ND	ug/l	4.9				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.9				
Pyrene	7.2	ug/l	4.9				
Benzo(e)pyrene	ND	ug/l	4.9				
Biphenyl	ND	ug/l	4.9				
Perylene	ND	ug/l	4.9				
Aniline	ND	ug/l	9.9				
4-Chloroaniline	ND	ug/l	4.9				
1-Methylnaphthalene	5.1	ug/l	4.9				
2-Nitroaniline	ND	ug/l	4.9				
3-Nitroaniline	ND	ug/l	4.9				
4-Nitroaniline	ND	ug/l	6.9				
Dibenzofuran	6.3	ug/l	4.9				
a,a-Dimethylphenethylamine	ND	ug/l	49.				
Hexachloropropene	ND	ug/l	9.9				
Nitrosodi-n-butylamine	ND	ug/l	9.9				
2-Methylnaphthalene	ND	ug/l	4.9				
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	9.9				
Dimethoate	ND	ug/l	20.				
4-Aminobiphenyl	ND	ug/l	9.9				
Pentachloronitrobenzene	ND	ug/l	9.9				
Isodrin	ND	ug/l	9.9				
p-Dimethylaminoazobenzene	ND	ug/l	9.9				
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	9.9				
n-Nitrosodimethylamine	ND	ug/l	49.				
2,4,6-Trichlorophenol	ND	ug/l	4.9				
p-Chloro-m-cresol	ND	ug/l	4.9				
2-Chlorophenol	ND	ug/l	5.9				
2,4-Dichlorophenol	ND	ug/l	9.9				
2,4-Dimethylphenol	ND	ug/l	9.9				
2-Nitrophenol	ND	ug/l	20.				
4-Nitrophenol	ND	ug/l	9.9				
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	6.9				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-05
SB-17/ (TMW-17)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	1201 11:00	1203 04:47	RL
2-Methylphenol	ND	ug/l	5.9				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9				
2,4,5-Trichlorophenol	ND	ug/l	4.9				
2,6-Dichlorophenol	ND	ug/l	9.9				
Benzoic Acid	ND	ug/l	49.				
Benzyl Alcohol	ND	ug/l	9.9				
Carbazole	6.6	ug/l	4.9				
Pyridine	ND	ug/l	49.				
2-Picoline	ND	ug/l	20.				
Pronamide	ND	ug/l	20.				
Methyl methanesulfonate	ND	ug/l	20.				
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	33.0	%	21-120				
Phenol-d6	29.0	%	10-120				
Nitrobenzene-d5	63.0	%	23-120				
2-Fluorobiphenyl	68.0	%	43-120				
2,4,6-Tribromophenol	103.	%	10-120				
4-Terphenyl-d14	89.0	%	33-120				
PAH by GC/MS SIM 8270M				1 8270C-M	1201 11:00	1202 15:00	RL
Acenaphthene	8.0	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	11.	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.49				
Naphthalene	2.5	ug/l	0.20				
Benzo(a)anthracene	2.7	ug/l	0.20				
Benzo(a)pyrene	1.5	ug/l	0.20				
Benzo(b)fluoranthene	2.2	ug/l	0.20				
Benzo(k)fluoranthene	1.2	ug/l	0.20				
Chrysene	2.6	ug/l	0.20				
Acenaphthylene	0.70	ug/l	0.20				
Anthracene	5.2	ug/l	0.20				
Benzo(ghi)perylene	0.83	ug/l	0.20				
Fluorene	7.9	ug/l	0.20				
Phenanthrene	14.	ug/l	0.20				
Dibenzo(a,h)anthracene	0.27	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	0.90	ug/l	0.20				
Pyrene	9.5	ug/l	0.20				
1-Methylnaphthalene	3.3	ug/l	0.20				
2-Methylnaphthalene	0.60	ug/l	0.20				
Pentachlorophenol	ND	ug/l	0.79				
Hexachlorobenzene	ND	ug/l	0.79				
Perylene	0.34	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	ND	ug/l	0.20				
1-Methylphenanthrene	1.1	ug/l	0.20				
Benzo(e)Pyrene	1.0	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.79				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-05
SB-17/ (TMW-17)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID	
					PREP	ANAL		
PAH by GC/MS SIM 8270M cont'd				1	8270C-M	1201 11:00	1202 15:00	RL
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	41.0	%	21-120					
Phenol-d6	35.0	%	10-120					
Nitrobenzene-d5	69.0	%	23-120					
2-Fluorobiphenyl	67.0	%	43-120					
2,4,6-Tribromophenol	67.0	%	10-120					
4-Terphenyl-d14	82.0	%	33-120					
Polychlorinated Biphenyls				5	608	1201 16:00	1205 19:34	JB
Aroclor 1221	ND	ug/l	0.263					
Aroclor 1232	ND	ug/l	0.263					
Aroclor 1242/1016	ND	ug/l	0.263					
Aroclor 1248	ND	ug/l	0.263					
Aroclor 1254	ND	ug/l	0.263					
Aroclor 1260	ND	ug/l	0.263					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	60.0	%	30-150					
Decachlorobiphenyl	53.0	%	30-150					

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

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: L0514542-06 Date Collected: 30-NOV-2005 11:00
SB-19/ (TMW-19) Date Received : 30-NOV-2005
Sample Matrix: WATER Date Reported : 08-DEC-2005
Condition of Sample: Satisfactory Field Prep: Field Filtered
Number & Type of Containers: 10-Amber,5-Plastic,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total Suspended	98.	mg/l	10.	4 160.2		1205 15:30	DT
Cyanide, Total	ND	mg/l	0.005	4 335.2	1203 12:40	1205 17:16	DD
Chlorine, Total Residual	ND	mg/l	0.05	4 330.1		1130 21:05	DP
TPH	ND	mg/l	4.00	74 1664A	1205 11:30	1206 08:30	AT
Phenolics, Total	ND	mg/l	0.03	4 420.1		1207 09:00	AT
Chromium, Hexavalent	ND	mg/l	0.02	30 3500CR-D	1130 19:00	1130 19:00	HS
Total Metals				19 200.7			
Antimony, Total	ND	mg/l	0.005	3 200.9	1201 13:30	1205 14:00	PY
Arsenic, Total	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:58	MG
Cadmium, Total	ND	mg/l	0.0002	4 213.2	1201 13:30	1205 18:35	PY
Chromium, Total	ND	mg/l	0.01	19 200.7	1201 13:30	1202 12:58	MG
Iron, Total	3.6	mg/l	0.05	19 200.7	1201 13:30	1202 12:58	MG
Lead, Total	0.012	mg/l	0.001	3 200.9	1201 13:30	1207 01:15	PY
Mercury, Total	ND	mg/l	0.0002	4 245.2	1201 16:50	1202 14:53	DM
Nickel, Total	ND	mg/l	0.025	19 200.7	1201 13:30	1202 12:58	MG
Selenium, Total	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:58	MG
Silver, Total	ND	mg/l	0.0002	4 272.2	1201 13:30	1206 20:28	PY
Zinc, Total	ND	mg/l	0.050	19 200.7	1201 13:30	1202 12:58	MG
Dissolved Metals							
Antimony, Dissolved	ND	mg/l	0.005	4 204.2	1201 13:30	1205 12:19	PY
Arsenic, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:06	MG
Cadmium, Dissolved	ND	mg/l	0.0002	4 213.2	1201 13:30	1205 17:13	PY
Chromium, Dissolved	ND	mg/l	0.01	19 200.7	1201 13:30	1202 12:06	MG
Iron, Dissolved	0.05	mg/l	0.05	19 200.7	1201 13:30	1202 12:06	MG
Lead, Dissolved	ND	mg/l	0.001	4 239.2	1201 13:30	1206 23:16	PY
Mercury, Dissolved	ND	mg/l	0.0002	3 245.1	1201 16:50	1202 14:25	DM
Nickel, Dissolved	ND	mg/l	0.025	19 200.7	1201 13:30	1202 12:06	MG
Selenium, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:06	MG
Silver, Dissolved	ND	mg/l	0	4 272.2	1201 13:30	1206 12:56	PY
Zinc, Dissolved	ND	mg/l	0.050	19 200.7	1201 13:30	1202 12:06	MG

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-06
SB-19/ (TMW-19)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Pesticides by GC 504				14 504.1	1206 15:00	1206 20:10	JB
1,2-Dibromoethane	ND	ug/l	0.020				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.020				
Volatile Organics by GC/MS 624				5 624		1202 13:32	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				
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	ND	ug/l	5.0				
Toluene	ND	ug/l	5.0				
Ethylbenzene	ND	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	ND	ug/l	10.				
o-xylene	ND	ug/l	5.0				
Xylene (Total)	ND	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	40.				
Acrylonitrile	ND	ug/l	50.				
Methyl tert butyl ether	ND	ug/l	100				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-06
SB-19/ (TMW-19)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 624 cont'd				5	624	1202 13:32 MM	
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	100.	%	80-120				
Fluorobenzene	103.	%	80-120				
4-Bromofluorobenzene	108.	%	80-120				
SVOC's by GC/MS 8270				1	8270C	1201 11:00 1203 05:13 RL	
Acenaphthene	ND	ug/l	4.8				
Benzidine	ND	ug/l	48.				
1,2,4-Trichlorobenzene	ND	ug/l	4.8				
Hexachlorobenzene	ND	ug/l	4.8				
Bis(2-chloroethyl) ether	ND	ug/l	4.8				
1-Chloronaphthalene	ND	ug/l	4.8				
2-Chloronaphthalene	ND	ug/l	5.8				
1,2-Dichlorobenzene	ND	ug/l	4.8				
1,3-Dichlorobenzene	ND	ug/l	4.8				
1,4-Dichlorobenzene	ND	ug/l	4.8				
3,3'-Dichlorobenzidine	ND	ug/l	48.				
2,4-Dinitrotoluene	ND	ug/l	5.8				
2,6-Dinitrotoluene	ND	ug/l	4.8				
Azobenzene	ND	ug/l	4.8				
Fluoranthene	5.0	ug/l	4.8				
4-Chlorophenyl phenyl ether	ND	ug/l	4.8				
4-Bromophenyl phenyl ether	ND	ug/l	4.8				
Bis(2-chloroisopropyl) ether	ND	ug/l	4.8				
Bis(2-chloroethoxy) methane	ND	ug/l	4.8				
Hexachlorobutadiene	ND	ug/l	9.7				
Hexachlorocyclopentadiene	ND	ug/l	9.7				
Hexachloroethane	ND	ug/l	4.8				
Isophorone	ND	ug/l	4.8				
Naphthalene	ND	ug/l	4.8				
Nitrobenzene	ND	ug/l	4.8				
NDPA/DPA	ND	ug/l	14.				
n-Nitrosodi-n-propylamine	ND	ug/l	4.8				
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.7				
Butyl benzyl phthalate	ND	ug/l	4.8				
Di-n-butylphthalate	ND	ug/l	4.8				
Di-n-octylphthalate	ND	ug/l	4.8				
Diethyl phthalate	ND	ug/l	4.8				
Dimethyl phthalate	ND	ug/l	4.8				
Benzo(a)anthracene	ND	ug/l	4.8				
Benzo(a)pyrene	ND	ug/l	4.8				
Benzo(b)fluoranthene	ND	ug/l	4.8				
Benzo(k)fluoranthene	ND	ug/l	4.8				
Chrysene	ND	ug/l	4.8				
Acenaphthylene	ND	ug/l	4.8				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-06
SB-19/ (TMW-19)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	1201 11:00	1203 05:13	RL
Anthracene	ND	ug/l	4.8				
Benzo(ghi)perylene	ND	ug/l	4.8				
Fluorene	ND	ug/l	4.8				
Phenanthrene	ND	ug/l	4.8				
Dibenzo(a,h)anthracene	ND	ug/l	4.8				
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.8				
Pyrene	ND	ug/l	4.8				
Benzo(e)pyrene	ND	ug/l	4.8				
Biphenyl	ND	ug/l	4.8				
Perylene	ND	ug/l	4.8				
Aniline	ND	ug/l	9.7				
4-Chloroaniline	ND	ug/l	4.8				
1-Methylnaphthalene	5.9	ug/l	4.8				
2-Nitroaniline	ND	ug/l	4.8				
3-Nitroaniline	ND	ug/l	4.8				
4-Nitroaniline	ND	ug/l	6.8				
Dibenzofuran	ND	ug/l	4.8				
a,a-Dimethylphenethylamine	ND	ug/l	48.				
Hexachloropropene	ND	ug/l	9.7				
Nitrosodi-n-butylamine	ND	ug/l	9.7				
2-Methylnaphthalene	5.0	ug/l	4.8				
1,2,4,5-Tetrachlorobenzene	ND	ug/l	19.				
Pentachlorobenzene	ND	ug/l	19.				
a-Naphthylamine	ND	ug/l	19.				
b-Naphthylamine	ND	ug/l	19.				
Phenacetin	ND	ug/l	9.7				
Dimethoate	ND	ug/l	19.				
4-Aminobiphenyl	ND	ug/l	9.7				
Pentachloronitrobenzene	ND	ug/l	9.7				
Isodrin	ND	ug/l	9.7				
p-Dimethylaminoazobenzene	ND	ug/l	9.7				
Chlorobenzilate	ND	ug/l	19.				
3-Methylcholanthrene	ND	ug/l	19.				
Ethyl Methanesulfonate	ND	ug/l	14.				
Acetophenone	ND	ug/l	19.				
Nitrosodipiperidine	ND	ug/l	19.				
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.7				
n-Nitrosodimethylamine	ND	ug/l	48.				
2,4,6-Trichlorophenol	ND	ug/l	4.8				
p-Chloro-m-cresol	ND	ug/l	4.8				
2-Chlorophenol	ND	ug/l	5.8				
2,4-Dichlorophenol	ND	ug/l	9.7				
2,4-Dimethylphenol	ND	ug/l	9.7				
2-Nitrophenol	ND	ug/l	19.				
4-Nitrophenol	ND	ug/l	9.7				
2,4-Dinitrophenol	ND	ug/l	19.				
4,6-Dinitro-o-cresol	ND	ug/l	19.				
Pentachlorophenol	ND	ug/l	19.				
Phenol	ND	ug/l	6.8				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-06
SB-19/ (TMW-19)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd							
				1 8270C	1201 11:00	1203 05:13	RL
2-Methylphenol	ND	ug/l	5.8				
3-Methylphenol/4-Methylphenol	ND	ug/l	5.8				
2,4,5-Trichlorophenol	ND	ug/l	4.8				
2,6-Dichlorophenol	ND	ug/l	9.7				
Benzoic Acid	ND	ug/l	48.				
Benzyl Alcohol	ND	ug/l	9.7				
Carbazole	ND	ug/l	4.8				
Pyridine	ND	ug/l	48.				
2-Picoline	ND	ug/l	19.				
Pronamide	ND	ug/l	19.				
Methyl methanesulfonate	ND	ug/l	19.				
Surrogate(s)							
	Recovery		QC Criteria				
2-Fluorophenol	36.0	%	21-120				
Phenol-d6	31.0	%	10-120				
Nitrobenzene-d5	66.0	%	23-120				
2-Fluorobiphenyl	69.0	%	43-120				
2,4,6-Tribromophenol	104.	%	10-120				
4-Terphenyl-d14	93.0	%	33-120				
PAH by GC/MS SIM 8270M							
				1 8270C-M	1201 11:00	1202 15:45	RL
Acenaphthene	1.0	ug/l	0.19				
2-Chloronaphthalene	ND	ug/l	0.19				
Fluoranthene	6.5	ug/l	0.19				
Hexachlorobutadiene	ND	ug/l	0.48				
Naphthalene	3.6	ug/l	0.19				
Benzo(a)anthracene	2.1	ug/l	0.19				
Benzo(a)pyrene	1.9	ug/l	0.19				
Benzo(b)fluoranthene	2.7	ug/l	0.19				
Benzo(k)fluoranthene	1.3	ug/l	0.19				
Chrysene	2.0	ug/l	0.19				
Acenaphthylene	0.29	ug/l	0.19				
Anthracene	1.4	ug/l	0.19				
Benzo(ghi)perylene	1.2	ug/l	0.19				
Fluorene	0.80	ug/l	0.19				
Phenanthrene	3.0	ug/l	0.19				
Dibenzo(a,h)anthracene	0.39	ug/l	0.19				
Indeno(1,2,3-cd)Pyrene	1.4	ug/l	0.19				
Pyrene	5.7	ug/l	0.19				
1-Methylnaphthalene	4.5	ug/l	0.19				
2-Methylnaphthalene	5.5	ug/l	0.19				
Pentachlorophenol	ND	ug/l	0.78				
Hexachlorobenzene	ND	ug/l	0.78				
Perylene	0.51	ug/l	0.19				
Biphenyl	ND	ug/l	0.19				
2,6-Dimethylnaphthalene	1.0	ug/l	0.19				
1-Methylphenanthrene	0.58	ug/l	0.19				
Benzo(e)Pyrene	1.3	ug/l	0.19				
Hexachloroethane	ND	ug/l	0.78				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-06
SB-19/ (TMW-19)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M cont'd							
Surrogate(s)	Recovery		QC Criteria	1 8270C-M	1201 11:00	1202 15:45	RL
2-Fluorophenol	42.0	%	21-120				
Phenol-d6	36.0	%	10-120				
Nitrobenzene-d5	70.0	%	23-120				
2-Fluorobiphenyl	68.0	%	43-120				
2,4,6-Tribromophenol	67.0	%	10-120				
4-Terphenyl-d14	84.0	%	33-120				
Polychlorinated Biphenyls							
Aroclor 1221	ND	ug/l	0.252	5 608	1201 16:00	1205 20:03	JB
Aroclor 1232	ND	ug/l	0.252				
Aroclor 1242/1016	ND	ug/l	0.252				
Aroclor 1248	ND	ug/l	0.252				
Aroclor 1254	ND	ug/l	0.252				
Aroclor 1260	ND	ug/l	0.252				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	75.0	%	30-150				
Decachlorobiphenyl	54.0	%	30-150				

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

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: L0514542-07
SB-21/ (TMW-21)
Sample Matrix: WATER
Condition of Sample: Satisfactory
Field Prep: Field Filtered
Date Collected: 30-NOV-2005 12:00
Date Received : 30-NOV-2005
Date Reported : 08-DEC-2005
Number & Type of Containers: 5-Amber,5-Plastic,4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total Suspended	750	mg/l	25.	4 160.2		1205 15:30	DT
Cyanide, Total	ND	mg/l	0.005	4 335.2	1203 12:40	1205 17:25	DD
Chlorine, Total Residual	ND	mg/l	0.05	4 330.1		1130 21:05	DP
TPH	ND	mg/l	4.00	74 1664A	1205 11:30	1206 08:30	AT
Phenolics, Total	ND	mg/l	0.03	4 420.1		1207 09:00	AT
Chromium, Hexavalent	ND	mg/l	0.02	30 3500CR-D	1130 19:00	1130 19:00	HS
Total Metals				19 200.7			
Antimony, Total	ND	mg/l	0.005	3 200.9	1201 13:30	1205 14:21	PY
Arsenic, Total	ND	mg/l	0.005	19 200.7	1201 13:30	1202 13:32	MG
Cadmium, Total	ND	mg/l	0.0002	4 213.2	1201 13:30	1205 19:23	PY
Chromium, Total	ND	mg/l	0.01	19 200.7	1201 13:30	1202 13:32	MG
Iron, Total	2.5	mg/l	0.05	19 200.7	1201 13:30	1202 13:32	MG
Lead, Total	0.016	mg/l	0.001	3 200.9	1201 13:30	1207 01:36	PY
Mercury, Total	ND	mg/l	0.0002	4 245.2	1201 16:50	1202 14:54	DM
Nickel, Total	ND	mg/l	0.025	19 200.7	1201 13:30	1202 13:32	MG
Selenium, Total	ND	mg/l	0.005	19 200.7	1201 13:30	1202 13:32	MG
Silver, Total	ND	mg/l	0.0002	4 272.2	1201 13:30	1206 16:06	PY
Zinc, Total	ND	mg/l	0.050	19 200.7	1201 13:30	1202 13:32	MG
Dissolved Metals							
Antimony, Dissolved	ND	mg/l	0.005	4 204.2	1201 13:30	1205 12:53	PY
Arsenic, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:27	MG
Cadmium, Dissolved	ND	mg/l	0.0002	4 213.2	1201 13:30	1205 17:47	PY
Chromium, Dissolved	ND	mg/l	0.01	19 200.7	1201 13:30	1202 12:27	MG
Iron, Dissolved	0.08	mg/l	0.05	19 200.7	1201 13:30	1202 12:27	MG
Lead, Dissolved	ND	mg/l	0.001	4 239.2	1201 13:30	1206 23:51	PY
Mercury, Dissolved	ND	mg/l	0.0002	3 245.1	1201 16:50	1202 14:31	DM
Nickel, Dissolved	ND	mg/l	0.025	19 200.7	1201 13:30	1202 12:27	MG
Selenium, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:27	MG
Silver, Dissolved	ND	mg/l	0.0002	4 272.2	1201 13:30	1206 14:24	PY
Zinc, Dissolved	ND	mg/l	0.050	19 200.7	1201 13:30	1202 12:27	MG

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-07
SB-21/ (TMW-21)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Pesticides by GC 504				14 504.1	1206 15:00	1206 20:32	JB
1,2-Dibromoethane	ND	ug/l	0.020				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.020				
Volatile Organics by GC/MS 624				5 624		1202 14:08	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				
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	ND	ug/l	5.0				
Toluene	ND	ug/l	5.0				
Ethylbenzene	ND	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	ND	ug/l	10.				
o-xylene	ND	ug/l	5.0				
Xylene (Total)	ND	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	40.				
Acrylonitrile	ND	ug/l	50.				
Methyl tert butyl ether	ND	ug/l	100				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-07
SB-21/ (TMW-21)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 624 cont'd				5	624	1202 14:08 MM	
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	101.	%	80-120				
Fluorobenzene	104.	%	80-120				
4-Bromofluorobenzene	108.	%	80-120				
SVOC's by GC/MS 8270				1	8270C	1201 11:00 1203 05:38 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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-07
SB-21/ (TMW-21)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1	8270C	1201 11:00 1203 05:38	RL
Anthracene	ND	ug/l	5.0				
Benzo(ghi)perylene	ND	ug/l	5.0				
Fluorene	ND	ug/l	5.0				
Phenanthrene	ND	ug/l	5.0				
Dibenzo(a,h)anthracene	ND	ug/l	5.0				
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0				
Pyrene	ND	ug/l	5.0				
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	6.0	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	6.2	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				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-07
SB-21/ (TMW-21)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
SVOC's by GC/MS 8270 cont'd				1 8270C	1201 11:00	1203 05:38	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	36.0	%	21-120				
Phenol-d6	31.0	%	10-120				
Nitrobenzene-d5	67.0	%	23-120				
2-Fluorobiphenyl	72.0	%	43-120				
2,4,6-Tribromophenol	109.	%	10-120				
4-Terphenyl-d14	99.0	%	33-120				
PAH by GC/MS SIM 8270M				1 8270C-M	1201 11:00	1202 16:29	RL
Acenaphthene	0.38	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	0.87	ug/l	0.20				
Hexachlorobutadiene	ND	ug/l	0.50				
Naphthalene	4.6	ug/l	0.20				
Benzo(a)anthracene	0.26	ug/l	0.20				
Benzo(a)pyrene	0.26	ug/l	0.20				
Benzo(b)fluoranthene	0.38	ug/l	0.20				
Benzo(k)fluoranthene	0.22	ug/l	0.20				
Chrysene	0.32	ug/l	0.20				
Acenaphthylene	0.29	ug/l	0.20				
Anthracene	0.39	ug/l	0.20				
Benzo(ghi)perylene	0.20	ug/l	0.20				
Fluorene	0.39	ug/l	0.20				
Phenanthrene	0.77	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	0.22	ug/l	0.20				
Pyrene	0.76	ug/l	0.20				
1-Methylnaphthalene	5.2	ug/l	0.20				
2-Methylnaphthalene	6.9	ug/l	0.20				
Pentachlorophenol	2.5	ug/l	0.80				
Hexachlorobenzene	ND	ug/l	0.80				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
2,6-Dimethylnaphthalene	1.4	ug/l	0.20				
1-Methylphenanthrene	ND	ug/l	0.20				
Benzo(e)Pyrene	0.22	ug/l	0.20				
Hexachloroethane	ND	ug/l	0.80				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0514542-07
SB-21/ (TMW-21)

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M cont'd				1	8270C-M	1201 11:00 1202 16:29	RL
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	44.0	%	21-120				
Phenol-d6	37.0	%	10-120				
Nitrobenzene-d5	70.0	%	23-120				
2-Fluorobiphenyl	64.0	%	43-120				
2,4,6-Tribromophenol	78.0	%	10-120				
4-Terphenyl-d14	72.0	%	33-120				
Polychlorinated Biphenyls				5	608	1201 16:00 1205 20:32	JB
Aroclor 1221	ND	ug/l	0.252				
Aroclor 1232	ND	ug/l	0.252				
Aroclor 1242/1016	ND	ug/l	0.252				
Aroclor 1248	ND	ug/l	0.252				
Aroclor 1254	ND	ug/l	0.252				
Aroclor 1260	ND	ug/l	0.252				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	68.0	%	30-150				
Decachlorobiphenyl	40.0	%	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: L0514542

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total Suspended for sample(s) 01-07 (L0514562-07, WG222764-2)					
Solids, Total Suspended	ND	ND	mg/l	NC	20
Cyanide, Total for sample(s) 01-07 (L0514542-01, WG222707-4)					
Cyanide, Total	0.008	0.008	mg/l	1	30
Chlorine, Total Residual for sample(s) 01-07 (L0514542-06, WG222551-3)					
Chlorine, Total Residual	ND	ND	mg/l	NC	
TPH for sample(s) 01-07 (L0514542-06, WG222816-4)					
TPH	ND	ND	mg/l	NC	34
Phenolics, Total for sample(s) 01-07 (L0514815-01, WG223110-4)					
Phenolics, Total	0.05	0.05	mg/l	8	
Chromium, Hexavalent for sample(s) 01-07 (L0514542-04, WG222404-9)					
Chromium, Hexavalent	ND	ND	mg/l	NC	
Total Metals for sample(s) 01-07 (L0514542-06, WG222531-1)					
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	
Iron, Total	3.6	3.6	mg/l	0	
Lead, Total	0.012	0.012	mg/l	3	
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) 01-07 (L0514542-03, WG222505-3)					
Mercury, Total	ND	ND	mg/l	NC	
Dissolved Metals for sample(s) 01-07 (L0514542-06, WG222530-1)					
Antimony, Dissolved	ND	ND	mg/l	NC	
Arsenic, Dissolved	ND	ND	mg/l	NC	
Cadmium, Dissolved	ND	ND	mg/l	NC	
Chromium, Dissolved	ND	ND	mg/l	NC	
Iron, Dissolved	0.05	0.06	mg/l	7	
Lead, Dissolved	ND	ND	mg/l	NC	
Nickel, Dissolved	ND	ND	mg/l	NC	
Selenium, Dissolved	ND	ND	mg/l	NC	
Silver, Dissolved	ND	ND	mg/l	NC	
Zinc, Dissolved	ND	ND	mg/l	NC	
Dissolved Metals for sample(s) 01-07 (L0514542-03, WG222504-3)					
Mercury, Dissolved	ND	ND	mg/l	NC	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0514542

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Volatile Organics by GC/MS 624 for sample(s) 01-07 (L0514498-02, WG222596-2)					
Acetone	16.	13.	ug/l	21	30
Surrogate(s)	Recovery				QC Criteria
Pentafluorobenzene	99.0	99.0	%	0	80-120
Fluorobenzene	101.	100.	%	1	80-120
4-Bromofluorobenzene	110.	105.	%	5	80-120
Polychlorinated Biphenyls for sample(s) 01-07 (L0514542-04, WG222511-4)					
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	61.0	64.0	%	5	30-150
Decachlorobiphenyl	71.0	70.0	%	1	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0514542

Parameter	% Recovery	QC Criteria
Cyanide, Total LCS for sample(s) 01-07 (WG222707-2)		
Cyanide, Total	100	90-110
Chlorine, Total Residual LCS for sample(s) 01-07 (WG222551-2)		
Chlorine, Total Residual	100	
TPH LCS for sample(s) 01-07 (WG222816-2)		
TPH	85	64-132
Phenolics, Total LCS for sample(s) 01-07 (WG223110-2)		
Phenolics, Total	89	
Chromium, Hexavalent LCS for sample(s) 01-07 (WG222404-7)		
Chromium, Hexavalent	101	
Total Metals LCS for sample(s) 01-07 (WG222531-4)		
Antimony, Total	91	
Arsenic, Total	102	
Cadmium, Total	105	
Chromium, Total	95	
Iron, Total	89	
Lead, Total	111	
Nickel, Total	100	
Selenium, Total	115	
Silver, Total	106	
Zinc, Total	102	
Total Metals LCS for sample(s) 01-07 (WG222505-1)		
Mercury, Total	102	
Dissolved Metals LCS for sample(s) 01-07 (WG222530-4)		
Antimony, Dissolved	99	
Arsenic, Dissolved	103	
Cadmium, Dissolved	106	
Chromium, Dissolved	95	
Iron, Dissolved	92	
Lead, Dissolved	107	
Nickel, Dissolved	101	
Selenium, Dissolved	112	
Silver, Dissolved	102	
Zinc, Dissolved	103	
Dissolved Metals LCS for sample(s) 01-07 (WG222504-1)		
Mercury, Dissolved	98	
Pesticides by GC 504 LCS for sample(s) 01-07 (WG223054-2)		
1,2-Dibromoethane	94	
1,2-Dibromo-3-chloropropane	107	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0514542

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 LCS for sample(s) 01-07 (WG222596-5)		
Methylene chloride	101	10-221
1,1-Dichloroethane	104	59-155
Chloroform	103	51-138
Carbon tetrachloride	108	70-140
1,2-Dichloropropane	101	10-210
Dibromochloromethane	100	53-149
1,1,2-Trichloroethane	106	52-150
2-Chloroethylvinyl ether	80	10-305
Tetrachloroethene	106	64-148
Chlorobenzene	111	37-160
Trichlorofluoromethane	118	17-181
1,2-Dichloroethane	106	49-155
1,1,1-Trichloroethane	103	52-162
Bromodichloromethane	106	35-155
trans-1,3-Dichloropropene	80	17-183
cis-1,3-Dichloropropene	96	10-227
Bromoform	100	45-169
1,1,2,2-Tetrachloroethane	107	46-157
Benzene	105	37-151
Toluene	102	47-150
Ethylbenzene	117	37-162
Chloromethane	88	10-273
Bromomethane	113	10-242
Vinyl chloride	122	10-251
Chloroethane	114	14-230
1,1-Dichloroethene	105	10-234
trans-1,2-Dichloroethene	102	54-156
cis-1,2-Dichloroethene	102	60-140
Trichloroethene	101	71-157
1,2-Dichlorobenzene	115	18-190
1,3-Dichlorobenzene	113	59-156
1,4-Dichlorobenzene	117	18-190
p/m-Xylene	119	40-160
o-Xylene	120	40-160
XYLENE (TOTAL)	120	40-160
Styrene	106	40-160
Acetone	88	40-160
Carbon disulfide	95	40-160
2-Butanone	95	40-160
Vinyl acetate	105	40-160
4-Methyl-2-pentanone	101	40-160
2-Hexanone	101	40-160
Acrolein	69	40-160
Acrylonitrile	86	40-160
Surrogate(s)		
Pentafluorobenzene	107	80-120
Fluorobenzene	102	80-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0514542

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 LCS for sample(s) 01-07 (WG222596-5)		
4-Bromofluorobenzene	111	80-120
SVOC's by GC/MS 8270 LCS for sample(s) 01-03,05-07 (WG222490-2)		
Acenaphthene	80	46-118
1,2,4-Trichlorobenzene	62	39-98
2-Chloronaphthalene	76	40-140
1,2-Dichlorobenzene	53	40-140
1,4-Dichlorobenzene	51	36-97
2,4-Dinitrotoluene	103	24-96
2,6-Dinitrotoluene	106	40-140
Fluoranthene	103	40-140
4-Chlorophenyl phenyl ether	90	40-140
n-Nitrosodi-n-propylamine	63	41-116
Butyl benzyl phthalate	103	40-140
Anthracene	70	40-140
Pyrene	97	26-127
Hexachloropropene	62	40-140
P-Chloro-M-Cresol	84	23-97
2-Chlorophenol	58	27-123
2-Nitrophenol	69	30-130
4-Nitrophenol	44	10-80
2,4-Dinitrophenol	98	30-130
Pentachlorophenol	92	9-103
Phenol	26	12-110
Surrogate(s)		
2-Fluorophenol	39	21-120
Phenol-d6	34	10-120
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	76	43-120
2,4,6-Tribromophenol	108	10-120
4-Terphenyl-d14	108	33-120
SVOC's by GC/MS 8270 LCS for sample(s) 04 (WG223032-2)		
Acenaphthene	77	46-118
1,2,4-Trichlorobenzene	68	39-98
2-Chloronaphthalene	75	40-140
1,2-Dichlorobenzene	56	40-140
1,4-Dichlorobenzene	55	36-97
2,4-Dinitrotoluene	92	24-96
2,6-Dinitrotoluene	102	40-140
Fluoranthene	105	40-140
4-Chlorophenyl phenyl ether	80	40-140
n-Nitrosodi-n-propylamine	56	41-116
Butyl benzyl phthalate	104	40-140
Anthracene	75	40-140
Pyrene	98	26-127
Hexachloropropene	76	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0514542

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 04 (WG223032-2)		
P-Chloro-M-Cresol	79	23-97
2-Chlorophenol	60	27-123
2-Nitrophenol	73	30-130
4-Nitrophenol	39	10-80
2,4-Dinitrophenol	81	30-130
Pentachlorophenol	114	9-103
Phenol	22	12-110
Surrogate(s)		
2-Fluorophenol	34	21-120
Phenol-d6	28	10-120
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	77	43-120
2,4,6-Tribromophenol	115	10-120
4-Terphenyl-d14	108	33-120
PAH by GC/MS SIM 8270M LCS for sample(s) 01-03,05-07 (WG222491-2)		
Acenaphthene	52	46-118
2-Chloronaphthalene	56	
Fluoranthene	80	
Anthracene	68	
Pyrene	83	26-127
Pentachlorophenol	72	9-103
Surrogate(s)		
2-Fluorophenol	44	21-120
Phenol-d6	35	10-120
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	58	43-120
2,4,6-Tribromophenol	69	10-120
4-Terphenyl-d14	76	33-120
PAH by GC/MS SIM 8270M LCS for sample(s) 04 (WG223034-2)		
Acenaphthene	52	46-118
2-Chloronaphthalene	62	
Fluoranthene	80	
Anthracene	66	
Pyrene	78	26-127
Pentachlorophenol	64	9-103
Surrogate(s)		
2-Fluorophenol	42	21-120
Phenol-d6	32	10-120
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	61	43-120
2,4,6-Tribromophenol	58	10-120
4-Terphenyl-d14	77	33-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0514542

Continued

Parameter	% Recovery	QC Criteria
Polychlorinated Biphenyls LCS for sample(s) 01-07 (WG222511-2)		
Aroclor 1242/1016	85	30-150
Aroclor 1260	93	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	57	30-150
Decachlorobiphenyl	60	30-150
Cyanide, Total SPIKE for sample(s) 01-07 (L0514209-02, WG222707-3)		
Cyanide, Total	98	80-120
TPH SPIKE for sample(s) 01-07 (L0514549-06, WG222816-3)		
TPH	81	64-132
Phenolics, Total SPIKE for sample(s) 01-07 (L0514542-03, WG223110-3)		
Phenolics, Total	91	
Chromium, Hexavalent SPIKE for sample(s) 01-07 (L0514542-01, WG222404-8)		
Chromium, Hexavalent	99	
Total Metals SPIKE for sample(s) 01-07 (L0514542-06, WG222531-2)		
Antimony, Total	91	
Arsenic, Total	104	
Cadmium, Total	108	
Chromium, Total	90	
Iron, Total	80	
Lead, Total	116	
Nickel, Total	96	
Selenium, Total	117	
Silver, Total	108	
Zinc, Total	105	
Total Metals SPIKE for sample(s) 01-07 (L0514542-03, WG222505-2)		
Mercury, Total	111	
Dissolved Metals SPIKE for sample(s) 01-07 (L0514542-06, WG222530-2)		
Antimony, Dissolved	89	
Arsenic, Dissolved	103	
Cadmium, Dissolved	105	
Chromium, Dissolved	90	
Iron, Dissolved	85	
Lead, Dissolved	110	
Nickel, Dissolved	96	
Selenium, Dissolved	115	
Silver, Dissolved	115	
Zinc, Dissolved	104	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0514542

Continued

Parameter	% Recovery	QC Criteria
Dissolved Metals SPIKE for sample(s) 01-07 (L0514542-03, WG222504-2)		
Mercury, Dissolved	102	
Pesticides by GC 504 SPIKE for sample(s) 01-07 (L0514542-01, WG223054-3)		
1,2-Dibromoethane	90	
1,2-Dibromo-3-chloropropane	97	
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01-07 (L0514498-02, WG222596-1)		
Methylene chloride	103	10-221
1,1-Dichloroethane	107	59-155
Chloroform	103	51-138
Carbon tetrachloride	107	70-140
1,2-Dichloropropane	108	10-210
Dibromochloromethane	113	53-149
1,1,2-Trichloroethane	120	52-150
2-Chloroethylvinyl ether	104	10-305
Tetrachloroethene	111	64-148
Chlorobenzene	112	37-160
Trichlorofluoromethane	119	17-181
1,2-Dichloroethane	117	49-155
1,1,1-Trichloroethane	108	52-162
Bromodichloromethane	110	35-155
trans-1,3-Dichloropropene	121	17-183
cis-1,3-Dichloropropene	105	10-227
Bromoform	114	45-169
1,1,2,2-Tetrachloroethane	122	46-157
Benzene	110	35-151
Toluene	105	47-150
Ethylbenzene	116	37-162
Chloromethane	108	10-273
Bromomethane	99	10-242
Vinyl chloride	116	10-251
Chloroethane	113	14-230
1,1-Dichloroethene	110	10-234
trans-1,2-Dichloroethene	110	54-156
cis-1,2-Dichloroethene	108	60-140
Trichloroethene	104	71-157
1,2-Dichlorobenzene	115	18-190
1,3-Dichlorobenzene	113	59-156
1,4-Dichlorobenzene	116	18-190
p/m-Xylene	119	40-160
o-Xylene	117	40-160
XYLENE (TOTAL)	119	40-160
Styrene	106	40-160
Acetone	105	40-160
Carbon disulfide	95	40-160
2-Butanone	120	40-160
Vinyl acetate	110	40-160
4-Methyl-2-pentanone	128	40-160

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0514542

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01-07 (L0514498-02, WG222596-1)		
2-Hexanone	124	40-160
Acrolein	113	40-160
Acrylonitrile	111	40-160
Surrogate(s)		
Pentafluorobenzene	99	80-120
Fluorobenzene	98	80-120
4-Bromofluorobenzene	98	80-120
Polychlorinated Biphenyls SPIKE for sample(s) 01-07 (L0514542-04, WG222511-3)		
Aroclor 1242/1016	85	30-150
Aroclor 1260	89	30-150
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	62	30-150
Decachlorobiphenyl	73	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0514542

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
SVOC's by GC/MS 8270 for sample(s) 01-03,05-07 (L0514542-07, WG222490-4)					
Acenaphthene	81	77	5	30	46-118
1,2,4-Trichlorobenzene	77	68	12	30	39-98
2-Chloronaphthalene	85	77	10	30	40-140
1,2-Dichlorobenzene	60	60	0	30	40-140
1,4-Dichlorobenzene	60	55	9	30	36-97
2,4-Dinitrotoluene	94	94	0	30	24-96
2,6-Dinitrotoluene	98	94	4	30	40-140
Fluoranthene	94	94	0	30	40-140
4-Chlorophenyl phenyl ether	85	81	5	30	40-140
n-Nitrosodi-n-propylamine	68	60	13	30	41-116
Butyl benzyl phthalate	94	89	5	30	40-140
Anthracene	64	60	6	30	40-140
Pyrene	89	89	0	30	26-127
Hexachloropropene	77	68	12	30	40-140
P-Chloro-M-Cresol	87	85	2	30	23-97
2-Chlorophenol	66	62	6	30	27-123
2-Nitrophenol	74	72	3	30	30-130
4-Nitrophenol	79	79	0	30	10-80
2,4-Dinitrophenol	94	94	0	30	30-130
Pentachlorophenol	98	94	4	30	9-103
Phenol	49	45	9	30	12-110
Surrogate(s)					
2-Fluorophenol	54	51	6		21-120
Phenol-d6	60	56	7		10-120
Nitrobenzene-d5	67	63	6		23-120
2-Fluorobiphenyl	77	70	10		43-120
2,4,6-Tribromophenol	106	101	5		10-120
4-Terphenyl-d14	92	93	1		33-120
SVOC's by GC/MS 8270 for sample(s) 04 (L0514542-04, WG223032-4)					
Acenaphthene	61	66	8	30	46-118
1,2,4-Trichlorobenzene	52	56	7	30	39-98
2-Chloronaphthalene	56	61	9	30	40-140
1,2-Dichlorobenzene	47	52	10	30	40-140
1,4-Dichlorobenzene	47	47	0	30	36-97
2,4-Dinitrotoluene	75	85	13	30	24-96
2,6-Dinitrotoluene	85	89	5	30	40-140
Fluoranthene	85	94	10	30	40-140
4-Chlorophenyl phenyl ether	66	71	7	30	40-140
n-Nitrosodi-n-propylamine	45	46	2	30	41-116
Butyl benzyl phthalate	85	94	10	30	40-140
Anthracene	56	66	16	30	40-140
Pyrene	80	89	11	30	26-127
Hexachloropropene	66	66	0	30	40-140
P-Chloro-M-Cresol	71	75	5	30	23-97
2-Chlorophenol	49	54	10	30	27-123
2-Nitrophenol	56	61	9	30	30-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0514542

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
SVOC's by GC/MS 8270 for sample(s) 04 (L0514542-04, WG223032-4)					
4-Nitrophenol	59	63	7	30	10-80
2,4-Dinitrophenol	80	89	11	30	30-130
Pentachlorophenol	92	110	18	30	9-103
Phenol	31	33	6	30	12-110
Surrogate(s)					
2-Fluorophenol	41	44	7		21-120
Phenol-d6	42	45	7		10-120
Nitrobenzene-d5	54	59	9		23-120
2-Fluorobiphenyl	59	65	10		43-120
2,4,6-Tribromophenol	92	111	19		10-120
4-Terphenyl-d14	85	96	12		33-120
PAH by GC/MS SIM 8270M for sample(s) 01-03,05-07 (L0514542-07, WG222491-4)					
Acenaphthene	59	59	0	40	46-118
2-Chloronaphthalene	64	64	0	40	
Fluoranthene	89	89	0	40	
Anthracene	55	59	7	40	
Pyrene	85	89	5	40	26-127
Pentachlorophenol	84	91	8	40	9-103
Surrogate(s)					
2-Fluorophenol	68	67	1		21-120
Phenol-d6	71	69	3		10-120
Nitrobenzene-d5	81	78	4		23-120
2-Fluorobiphenyl	70	65	7		43-120
2,4,6-Tribromophenol	72	77	7		10-120
4-Terphenyl-d14	62	65	5		33-120
PAH by GC/MS SIM 8270M for sample(s) 04 (L0514542-04, WG223034-4)					
Acenaphthene	56	47	17	40	46-118
2-Chloronaphthalene	61	52	16	40	
Fluoranthene	75	70	7	40	
Anthracene	61	61	0	40	
Pyrene	94	89	5	40	26-127
Pentachlorophenol	80	75	6	40	9-103
Surrogate(s)					
2-Fluorophenol	65	56	15		21-120
Phenol-d6	61	53	14		10-120
Nitrobenzene-d5	72	65	10		23-120
2-Fluorobiphenyl	62	58	7		43-120
2,4,6-Tribromophenol	85	77	10		10-120
4-Terphenyl-d14	72	68	6		33-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0514542

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-07 (WG222764-1)							
Solids, Total Suspended	ND	mg/l	5.0	4 160.2		1205 15:30	DT
Blank Analysis for sample(s) 01-07 (WG222707-1)							
Cyanide, Total	ND	mg/l	0.005	4 335.2	1203 12:40	1205 16:59	DD
Blank Analysis for sample(s) 01-07 (WG222551-1)							
Chlorine, Total Residual	ND	mg/l	0.05	4 330.1		1130 21:05	DP
Blank Analysis for sample(s) 01-07 (WG222816-1)							
TPH	ND	mg/l	4.00	74 1664A	1205 11:30	1206 08:30	AT
Blank Analysis for sample(s) 01-07 (WG223110-1)							
Phenolics, Total	ND	mg/l	0.03	4 420.1		1207 09:00	AT
Blank Analysis for sample(s) 01-07 (WG222404-6)							
Chromium, Hexavalent	ND	mg/l	0.02	30 3500CR-D	1130 19:00	1130 19:00	HS
Blank Analysis for sample(s) 01-07 (WG222531-3)							
Total Metals				19 200.7			
Antimony, Total	ND	mg/l	0.005	3 200.9	1201 13:30	1205 12:59	PY
Arsenic, Total	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:32	MG
Cadmium, Total	ND	mg/l	0.0002	4 213.2	1201 13:30	1205 17:52	PY
Chromium, Total	ND	mg/l	0.01	19 200.7	1201 13:30	1202 12:32	MG
Iron, Total	ND	mg/l	0.05	19 200.7	1201 13:30	1202 12:32	MG
Lead, Total	ND	mg/l	0.001	3 200.9	1201 13:30	1206 23:58	PY
Nickel, Total	ND	mg/l	0.025	19 200.7	1201 13:30	1202 12:32	MG
Selenium, Total	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:32	MG
Silver, Total	ND	mg/l	0.0002	4 272.2	1201 13:30	1206 14:31	PY
Zinc, Total	ND	mg/l	0.050	19 200.7	1201 13:30	1202 12:32	MG
Blank Analysis for sample(s) 01-07 (WG222505-4)							
Total Metals							
Mercury, Total	ND	mg/l	0.0002	4 245.2	1201 16:50	1202 14:32	DM

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0514542

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 01-07 (WG222530-3)						
Dissolved Metals						
Antimony, Dissolved	ND	mg/l	0.005	4 204.2	1201 13:30	1205 11:32 PY
Arsenic, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 11:22 MG
Cadmium, Dissolved	ND	mg/l	0.0002	4 213.2	1201 13:30	1205 16:37 PY
Chromium, Dissolved	ND	mg/l	0.01	19 200.7	1201 13:30	1202 11:22 MG
Iron, Dissolved	ND	mg/l	0.05	19 200.7	1201 13:30	1202 11:22 MG
Lead, Dissolved	ND	mg/l	0.001	4 239.2	1201 13:30	1206 22:28 PY
Nickel, Dissolved	ND	mg/l	0.025	19 200.7	1201 13:30	1202 11:22 MG
Selenium, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 11:22 MG
Silver, Dissolved	0.000	mg/l	0	4 272.2	1201 13:30	1206 12:10 PY
Zinc, Dissolved	ND	mg/l	0.050	19 200.7	1201 13:30	1202 11:22 MG
Blank Analysis for sample(s) 01-07 (WG222504-4)						
Dissolved Metals						
Mercury, Dissolved	ND	mg/l	0.0002	3 245.1	1201 16:50	1202 14:09 DM
Blank Analysis for sample(s) 01-07 (WG223054-1)						
Pesticides by GC 504				14 504.1	1206 15:00	1206 16:51 JB
1,2-Dibromoethane	ND	ug/l	0.020			
1,2-Dibromo-3-chloropropane	ND	ug/l	0.020			
Blank Analysis for sample(s) 01-07 (WG222596-6)						
Volatile Organics by GC/MS 624				5 624	1202 09:19	MM
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	1.5			
Chloroform	ND	ug/l	1.5			
Carbon tetrachloride	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	3.5			
Dibromochloromethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.5			
2-Chloroethylvinyl ether	ND	ug/l	10.			
Tetrachloroethene	ND	ug/l	1.5			
Chlorobenzene	ND	ug/l	3.5			
Trichlorofluoromethane	ND	ug/l	5.0			
1,2-Dichloroethane	ND	ug/l	1.5			
1,1,1-Trichloroethane	ND	ug/l	2.0			
Bromodichloromethane	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.5			
cis-1,3-Dichloropropene	ND	ug/l	1.5			
Bromoform	ND	ug/l	1.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Benzene	ND	ug/l	1.0			
Toluene	ND	ug/l	1.0			
Ethylbenzene	ND	ug/l	1.0			
Chloromethane	ND	ug/l	10.			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0514542

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 01-07 (WG222596-6)						
Volatile Organics by GC/MS 624 cont'd				5 624	1202 09:19 MM	
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	8.0			
Acrylonitrile	ND	ug/l	10.			
Surrogate(s)	Recovery		QC Criteria			
Pentafluorobenzene	100.	%	80-120			
Fluorobenzene	100.	%	80-120			
4-Bromofluorobenzene	106.	%	80-120			
Blank Analysis for sample(s) 01-03,05-07 (WG222490-1)						
SVOC's by GC/MS 8270				1 8270C	1201 11:00 1202 23:36 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			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0514542

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 01-03,05-07 (WG222490-1)						
SVOC's by GC/MS 8270 cont'd				1. 8270C	1201 11:00	1202 23:36 RL
4-Brómophenyl 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			
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.			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0514542

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-03,05-07 (WG222490-1)							
SVOC's by GC/MS 8270 cont'd				1 8270C	1201 11:00	1202 23:36	RL
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				
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	32.0	%	21-120				
Phenol-d6	25.0	%	10-120				
Nitrobenzene-d5	55.0	%	23-120				
2-Fluorobiphenyl	56.0	%	43-120				
2,4,6-Tribromophenol	77.0	%	10-120				
4-Terphenyl-d14	91.0	%	33-120				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0514542

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 04 (WG223032-1)						
SVOC's by GC/MS 8270				1 8270C	1205 17:30	1206 14:16 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			
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			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0514542

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 04 (WG223032-1)						
SVOC's by GC/MS 8270 cont'd				1 8270C	1205 17:30	1206 14:16 RL
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			
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.			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0514542

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 04 (WG223032-1)						
SVOC's by GC/MS 8270 cont'd				1 8270C	1205 17:30	1206 14:16 RL
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	37.0	%	21-120			
Phenol-d6	29.0	%	10-120			
Nitrobenzene-d5	66.0	%	23-120			
2-Fluorobiphenyl	62.0	%	43-120			
2,4,6-Tribromophenol	81.0	%	10-120			
4-Terphenyl-d14	90.0	%	33-120			
Blank Analysis for sample(s) 01-03,05-07 (WG222491-1)						
PAH by GC/MS SIM 8270M				1 8270C-M	1201 11:00	1202 19:25 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			
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			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0514542

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-03,05-07 (WG222491-1)							
PAH by GC/MS SIM 8270M cont'd				1 8270C-M	1201 11:00	1202 19:25	RL
Surrogate(s)	Recovery		QC Criteria				
2-Fluorophenol	37.0	%	21-120				
Phenol-d6	29.0	%	10-120				
Nitrobenzene-d5	58.0	%	23-120				
2-Fluorobiphenyl	51.0	%	43-120				
2,4,6-Tribromophenol	54.0	%	10-120				
4-Terphenyl-d14	76.0	%	33-120				
Blank Analysis for sample(s) 04 (WG223034-1)							
PAH by GC/MS SIM 8270M				1 8270C-M	1205 17:30	1206 12:14	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				
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	48.0	%	21-120				
Phenol-d6	37.0	%	10-120				
Nitrobenzene-d5	75.0	%	23-120				
2-Fluorobiphenyl	65.0	%	43-120				
2,4,6-Tribromophenol	60.0	%	10-120				
4-Terphenyl-d14	75.0	%	33-120				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0514542

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-07 (WG222511-1)							
Polychlorinated Biphenyls				5 608	1201 16:00	1205 15:46	JB
Aroclor 1221	ND	ug/l	0.250				
Aroclor 1232	ND	ug/l	0.250				
Aroclor 1242/1016	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(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	51.0	%	30-150				
Decachlorobiphenyl	63.0	%	30-150				

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

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.

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: Lightship Engineering

Laboratory Job Number: L0603128

Address: 39 Industrial Park Road
Unit C
Plymouth, MA 02360

Date Received: 07-MAR-2006

Attn: Ms. Tara Walsh

Date Reported: 07-MAR-2006

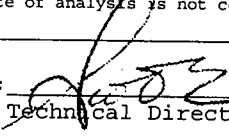
Project Number: 500.66

Delivery Method: Client

Site: MARGINAL/EASTERN

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0603128-01	SB-2/(TMW-2)	NSTAR
L0603128-02	SB-7/(TMW-7)	NSTAR
L0603128-03	SB-11/(TMW-11)	NSTAR
L0603128-04	SB-14/(TMW-14)	NSTAR
L0603128-05	SB-17/(TMW-17)	NSTAR
L0603128-06	SB-19/(TMW-19)	NSTAR
L0603128-07	SB-21/(TMW-21)	NSTAR

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
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: L0603128-01	Date Collected: 29-NOV-2005 15:00
SB-2/ (TMW-2)	Date Received : 07-MAR-2006
Sample Matrix: WATER	Date Reported : 07-MAR-2006
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers:	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Total Metals				19 200.7			
Copper, Total	0.081	mg/l	0.005	19 200.7	1201 13:30	1202 12:39	MG
Dissolved Metals							
Copper, Dissolved	0.029	mg/l	0.005	19 200.7	1201 13:30	1202 11:30	MG

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

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: L0603128-02
SB-7/ (TMW-7)
Sample Matrix: WATER

Date Collected: 29-NOV-2005 12:00
Date Received : 07-MAR-2006
Date Reported : 07-MAR-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers:

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Total Metals				19 200.7		
Copper, Total	ND	mg/l	0.005	19 200.7	1201 13:30 1202 12:42 MG	
Dissolved Metals						
Copper, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30 1202 11:34 MG	

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

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: L0603128-03
SB-11/(TMW-11)
Sample Matrix: WATER

Date Collected: 29-NOV-2005 15:00

Date Received : 07-MAR-2006

Date Reported : 07-MAR-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers:

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Total Metals				19 200.7			
Copper, Total	0.008	mg/l	0.005	19 200.7	1201 13:30	1202 12:48	MG
Dissolved Metals							
Copper, Dissolved	0.005	mg/l	0.005	19 200.7	1201 13:30	1202 11:38	MG

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

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: L0603128-04	Date Collected: 29-NOV-2005 12:00
SB-14/(TMW-14)	Date Received : 07-MAR-2006
Sample Matrix: WATER	Date Reported : 07-MAR-2006
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers:	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Total Metals				19 200.7			
Copper, Total	0.069	mg/l	0.005	19 200.7	1201 13:30	1202 12:51	MG
Dissolved Metals							
Copper, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 13:44	MG

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

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: L0603128-05	Date Collected: 29-NOV-2005 13:00
SB-17/(TMW-17)	Date Received : 07-MAR-2006
Sample Matrix: WATER	Date Reported : 07-MAR-2006
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers:	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Total Metals				19 200.7			
Copper, Total	0.021	mg/l	0.005	19 200.7	1201 13:30	1202 12:54	MG
Dissolved Metals							
Copper, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 11:52	MG

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

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: L0603128-06	Date Collected: 30-NOV-2005 11:00
SB-19/(TMW-19)	Date Received : 07-MAR-2006
Sample Matrix: WATER	Date Reported : 07-MAR-2006
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers:	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Total Metals				19 200.7			
Copper, Total	0.006	mg/l	0.005	19 200.7	1201 13:30	1202 12:58	MG
Dissolved Metals							
Copper, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:06	MG

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

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: L0603128-07	Date Collected: 30-NOV-2005 12:00
SB-21/(TMW-21)	Date Received : 07-MAR-2006
Sample Matrix: WATER	Date Reported : 07-MAR-2006
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers:	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Total Metals				19 200.7			
Copper, Total	0.011	mg/l	0.005	19 200.7	1201 13:30	1202 13:32	MG
Dissolved Metals							
Copper, Dissolved	0.005	mg/l	0.005	19 200.7	1201 13:30	1202 12:27	MG

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0603128

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Total Metals for sample(s) 01-07 (L0603128-06, WG231672-1)					
Copper, Total	0.006	0.007	mg/l	0	
Dissolved Metals for sample(s) 01-07 (L0603128-06, WG231670-1)					
Copper, Dissolved	ND	ND	mg/l	NC	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0603128

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 01-07 (WG231672-4)		
Copper, Total	98	
Dissolved Metals LCS for sample(s) 01-07 (WG231670-4)		
Copper, Dissolved	97	
Total Metals SPIKE for sample(s) 01-07 (L0603128-06, WG231672-2)		
Copper, Total	101	
Dissolved Metals SPIKE for sample(s) 01-07 (L0603128-06, WG231670-2)		
Copper, Dissolved	100	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0603128

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
	Blank Analysis for sample(s) 01-07 (WG231672-3)						
Total Metals				19 200.7			
Copper, Total	ND	mg/l	0.005	19 200.7	1201 13:30	1202 12:32	MG
	Blank Analysis for sample(s) 01-07 (WG231670-3)						
Dissolved Metals							
Copper, Dissolved	ND	mg/l	0.005	19 200.7	1201 13:30	1202 11:22	MG

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

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.

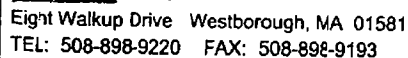
GLOSSARY OF TERMS AND SYMBOLS

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.



PAGE OF

ALPHA Job #: 00003128

Date Due: 3/2 Time:

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

☐ Same as Client info PO #:

Criteria

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

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

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ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection

Sample

Sampler's

Initials

3128. 1	SB-2 / (TMW-2)
2	SB-7 / (TMW-7)
3	SB-11 / (TMW-11)
4	SB-14 / (TMW-14)
5	SB-17 / (TMW-17)
6	SB-19 / (TMW-19)
7	SB-21 / (TMW-21)

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR
PROJECT MCP ?

Container Type

Preservative

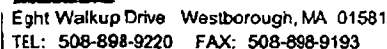
Relinquished By:

Date/Time

Received By

Date/Time

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.



PAGE 1 OF 1

11/30

4014742

Client: Lightsip Corporation

Address: 36 Condore Paris

Plumage MA 07360

Phone: 508 830 3344

Fax: 3360

Email: Tuzaleh@

☐ These samples have been previously analyzed by Alpha

Project Name: Manual / External

Project: Location: **USTAR**

Project #: 500.66

Project Manager: T. Walsh

ALPHA Quote #:

☒ Standard 12/ ☐ RUSH (only confirmed if pre-approved)

Date Due: 11/1/11 Time:

NATHAN
617-291
8934

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

State Fed Program	Criteria
MA	6w -

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

SAMPLE HANDLING

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

Sample Specific Comments

Container Type

Preservative

IS YOUR
PROJECT
MCP ?

Relinquished By

Date/Time

Received By:

Date/Time

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.