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January 15, 2010

Victor Alvarez
US Environmental Protection Agency
RPG-NOC Processing
Municipal Assistance Unit (CMU)
5 Post Office Square, Suite 100
Mailcode: OEP06-4
Boston, Massachusetts 02109-3912

**Re: Notice of Intent (NOI) for Coverage under the Remediation General Permit (RGP)
Taunton Municipal Light Plant
500 West Water Street
Taunton, Massachusetts**

Dear Mr. Alvarez:

The Taunton Municipal Lighting Plant (TMLP) is submitting the attached National Pollutant Discharge Elimination System (NPDES) Notice of Intent (NOI) for coverage under the Remediation General Permit (RGP). This application addresses dewatering requirements associated with excavations during removal of petroleum impacted soils. In addition to the application form, a site location map, groundwater treatment system flow diagram, groundwater quality data as well as the supporting laboratory data report are attached.

TRC has collected a water sample that is considered representative of groundwater that will be extracted, treated and discharged to the Taunton River under a RGP permit. Groundwater quality results are summarized in the attached table and laboratory data sheets are attached to this submittal. Potential constituents of concern include total suspended solids, total petroleum hydrocarbons (TPHs), semi-volatile organic compounds (SVOCs), and metals.

The proposed dewatering treatment system is designed to handle up to 50 gallons per minute (gpm) of dewatering effluent and is expected to periodically operate at rates ranging from 25 to 50 gpm, when required. The treatment system will consist of the following process components:

- 1) One trench dewatering pump and one transfer pump;
- 2) Fractionation tank for removal of suspended solids, settleable solids, and oil and grease present;
- 3) Bag filters for effluent polishing prior to granular activated carbon (GAC) treatment; and,
- 4) Two GAC filters connected in series.

Treated effluent from the system will be discharged directly to the Taunton River which forms the eastern property boundary to the site. The proposed construction dewatering treatment system will be maintained and monitored in accordance with all applicable requirements under the RGP. The City of Taunton anticipates that the dewatering system will be required periodically from late January through December 2010.

The Taunton River is listed on the Massachusetts 303(d) list as an impaired water body for pathogens. Discharge of treated effluent from the dewatering treatment system will be in compliance with the effluent limitations contained in the RGP and will not exacerbate this water quality impairment condition.

The 7Q10 statistic for the Taunton River in the vicinity of the site is 21.7 cubic feet per second (cfs) based on USGS Streamstat data. As the maximum flow rate of the remedial system is 50 gallons per minute (0.1115 cfs) the minimum dilution available during maximum discharge flow is a dilution of 361. As such, the treatment system is designed to meet the discharge limitations presented in the '>100 dilution' column presented in Appendix IV of the RGP regulations. A comparison of the analytical results to the '>100 dilution' limitations has determined that four metals (cadmium, copper, lead and) which would otherwise exceed the effluent limitations referenced in Appendix III are no longer of concern. A comparison of the water sample analytical result for total iron (32 parts per million) to the Ceiling Value presented in Appendix IV (5 parts per million) has determined that total iron is at risk to exceed the discharge limits. However, it is very likely that the majority of the iron removed from the excavation will precipitate and settle in the fractionation tank or be removed by the fabric filter. As such, the remedial system as it is designed is anticipated to not exceed any of the applicable effluent limitations.

Your assistance in processing this application is greatly appreciated. If you have any questions or would like additional information please feel free to call me at TRC Environmental Corporation at (978) 656-3635.

Sincerely,

TRC Environmental Corporation



Thomas Nunno, PE, LSP
Senior Program Manager

cc: TRC File
Bruce Correia, TMLP

Attachments:

1. Application Form,
2. Proposed Remediation system Location Plan,
3. Groundwater treatment system flow diagram,
4. Excavation Pit Water Quality Data Summary and Data Package

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 :		Facility/site address:	
Location of facility/site : longitude:_____ latitude:_____	Facility SIC code(s):	Street:	
b) Name of facility/site owner :		Town:	
Email address of owner:	State:	Zip:	County:
Telephone no.of facility/site owner :			
Fax no. of facility/site owner :	Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private____ 4. other, if so, describe:		
Address of owner (if different from site):			
Street:			
Town:	State:	Zip:	County:
c) Legal name of operator :	Operator telephone no:		
	Operator fax no.:		Operator email:
Operator contact name and title:			
Address of operator (if different from owner):	Street:		
Town:	State:	Zip:	County:
d) Check “yes” or “no” for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No___, if “yes,” number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No___, if “yes,” date and tracking #: 3. Is the discharge a “new discharge” as defined by 40 CFR 122.2? Yes___ No___ 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes__ No__			

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes___ No___ If “yes,” please list: 1. site identification # assigned by the state of NH or MA: 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___, if Y, number: 2. phase I or II construction storm water general permit? Y___ N___, if Y, number: 3. individual NPDES permit? Y___ N___, if Y, number: 4. any other water quality related permit? Y___ N___, if Y, number:
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:			
b) Provide the following information about each discharge:	<table border="1"> <tr> <td style="vertical-align: top;">1) Number of discharge points:</td> <td> 2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow_____ Average flow_____ Is maximum flow a design value? Y___ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available. </td> </tr> </table>	1) Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow_____ Average flow_____ Is maximum flow a design value? Y___ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
1) Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow_____ Average flow_____ Is maximum flow a design value? Y___ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.		
3) Latitude and longitude of each discharge within 100 feet: pt.1:long._____ lat._____; pt.2: long._____ lat._____; pt.3: long._____ lat._____; pt.4:long._____ lat._____; pt.5: long._____ lat._____; pt.6:long._____ lat._____; pt.7: long._____ lat._____; pt.8:long._____ lat._____; etc.			
4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent_____or seasonal_____?		
Is discharge ongoing Yes _____ No _____?			
c) Expected dates of discharge (mm/dd/yy): start_____ end_____			
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).			

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

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

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

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

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

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

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

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

⁶The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min- imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene										
g. Indeno(1,2,3-cd) Pyrene										
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)										
h. Acenaphthene										
i. Acenaphthylene										
j. Anthracene										
k. Benzo(ghi) Perylene										
l. Fluoranthene										
m. Fluorene										
n. Naphthalene-										
o. Phenanthrene										
p. Pyrene										
37. Total Polychlorinated Biphenyls (PCBs)								0	ND	0
38. Antimony								0.00022	0.8	0.00013
39. Arsenic								0.00246	9.0	0.00147
40. Cadmium								0.00011	0.4	0.00007
41. Chromium III								0.0021	7.5	0.00123
42. Chromium VI								0.0021	7.5	0.00123

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

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

<i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y____ N____	If yes, which metals?
<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: _____	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:

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

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water separator	Equalization tanks	Bag filter	GAC filter
	Chlorination	Dechlorination	Other (please describe):			
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 _____ Maximum flow rate of treatment system _____ Design flow rate of treatment system _____						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets):						

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

a) Identify the discharge pathway:	Direct _____	Within facility__	Storm drain_____	River/brook_____	Wetlands _____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:						
c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water: 1. For multiple discharges, number the discharges sequentially. 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.						
d) Provide the state water quality classification of the receiving water _____,						
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.						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes _____ No _____ If yes, for which pollutant(s)? Is there a TMDL? Yes _____ No _____ If yes, for which pollutant(s)?						

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

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

7. Supplemental information. :

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

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: **TMLP West Water Street Facility**

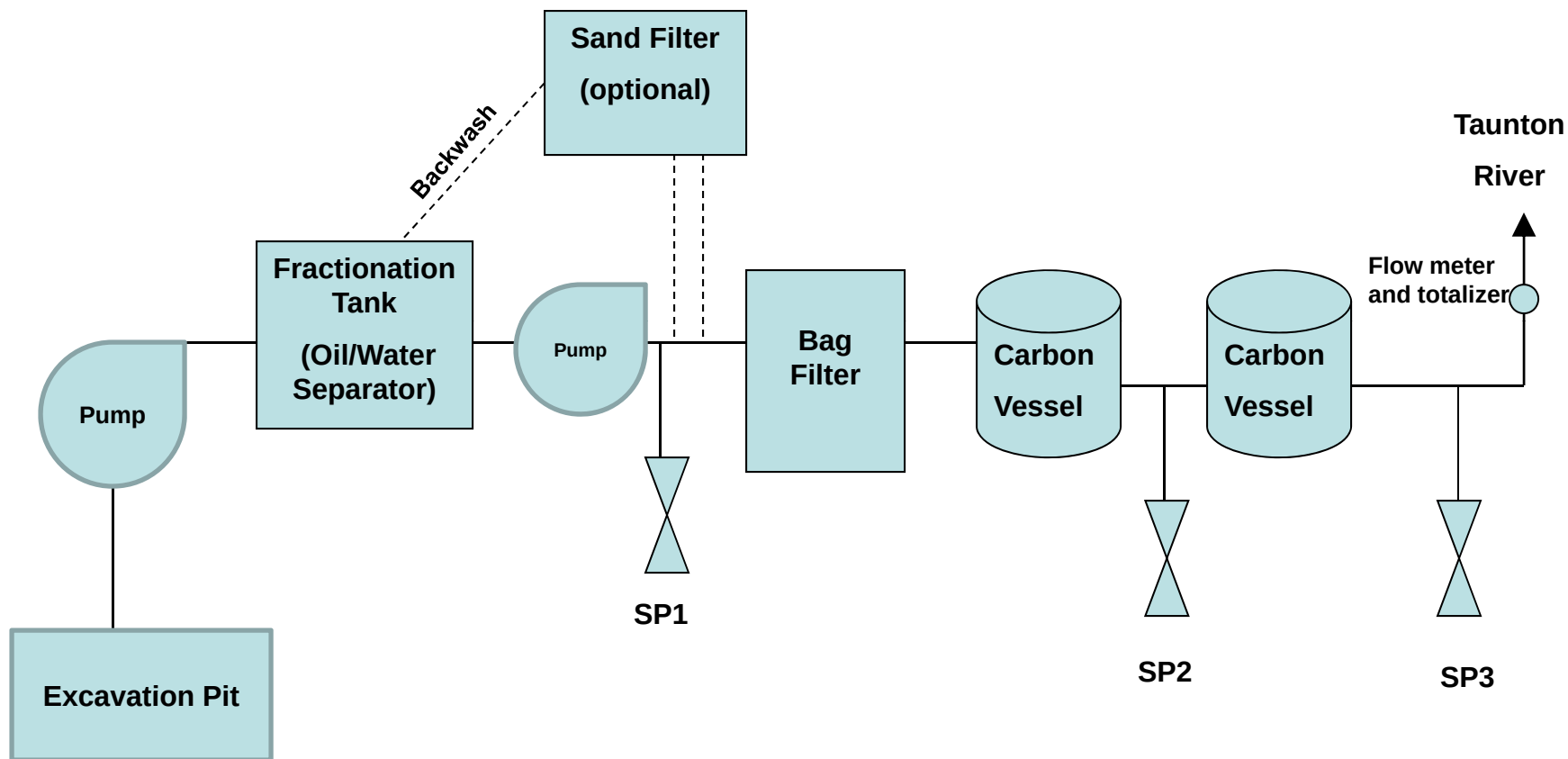
Operator signature: *Michael J. Horigan, GM.*

Title: **General Manager**

Date: *1/15/2010*

FILE: T:\E_CAD\153800_1tmp\REM_SYS_LOC-2.dwg





Taunton Municipal Light Plant 500 West Water Street Taunton, Massachusetts Groundwater Treatment System Flow Diagram		
 Wannalancit Mills 650 Suffolk Street Lowell, MA 01854 978-970-5600		FIGURE 2
Drawn: JPS Checked: JPS	SCALE: AS SHOWN Date 01/15/10	

Summary of Analytical Results for Tank Pit Sample -- RGP - December 2009
TMLP
Taunton, Massachusetts

Analysis	Analyte	Sample ID:	NPDES-01 12/31/2009
		Sample Date: RGP Effluent Limitations *	
VOCs (ug/L)			
	Methylene chloride	4.6	25 U [^]
	1,1-Dichloroethane	70	7.5 U
	Chloroform	N/A	7.5 U
	Carbon tetrachloride	4.4	5.0 U [^]
	1,2-Dichloropropane	N/A	18 U
	Dibromochloromethane	N/A	5.0 U
	1,1,2-Trichloroethane	5	7.5 U [^]
	2-Chloroethylvinyl ether	N/A	50 U
	Tetrachloroethene	5	7.5 U [^]
	Chlorobenzene	N/A	18 U
	Trichlorofluoromethane	N/A	25 U
	1,2-Dichloroethane	5	7.5 U [^]
	1,1,1-Trichloroethane	200	10 U
	Bromodichloromethane	N/A	5.0 U
	trans-1,3-Dichloropropene	N/A	7.5 U
	cis-1,3-Dichloropropene	N/A	7.5 U
	Bromoform	N/A	5.0 U
	1,1,2,2-Tetrachloroethane	N/A	5.0 U
	Chloromethane	N/A	50 U
	Bromomethane	N/A	25 U
	Vinyl chloride	2	10 U [^]
	Chloroethane	N/A	10 U
	1,1-Dichloroethene	3.2	5.0 U [^]
	trans-1,2-Dichloroethene	N/A	7.5 U
	cis-1,2-Dichloroethene	70	5.0 U
	Trichloroethene	5	5.0 U
	1,2-Dichlorobenzene	600	25 U
	1,3-Dichlorobenzene	320	25 U
	1,4-Dichlorobenzene	5	25 U [^]
	Styrene	N/A	5.0 U
	Acetone	N/A	50 U
	Carbon disulfide	N/A	25 U
	2-Butanone	N/A	50 U
	Vinyl acetate	N/A	100 U
	4-Methyl-2-pentanone	N/A	50 U
	2-Hexanone	N/A	50 U
	Acrolein	N/A	40 U
	Acrylonitrile	N/A	50 U
	Methyl tert butyl ether	70	100 U [^]
	1,4-Dioxane	N/A	10,000 U
	Tert-Butyl Alcohol	N/A	500 U
	Tertiary-Amyl Methyl Ether	N/A	100 U
	<i>Benzene</i>	5	5.0 U
	<i>Toluene</i>	100	5.0 U
	<i>Ethylbenzene</i>	100	5.0 U
	<i>p/m-Xylene</i>	100	10 U
	<i>o-xylene</i>	100	5.0 U
	<i>Xylene (Total)</i>	100	10 U
	BTEX	100	ND
SVOCs (ug/L)			
	Benzidine	N/A	100 U
	1,2,4-Trichlorobenzene	N/A	10 U
	Bis(2-chloroethyl)ether	N/A	10 U
	1,2-Dichlorobenzene	600	10 U
	1,3-Dichlorobenzene	320	10 U
	1,4-Dichlorobenzene	5	10 U [^]
	3,3'-Dichlorobenzidine	N/A	100 U
	2,4-Dinitrotoluene	N/A	12 U
	2,6-Dinitrotoluene	N/A	10 U
	Azobenzene	N/A	10 U
	4-Chlorophenyl phenyl ether	N/A	10 U

Summary of Analytical Results for Tank Pit Sample -- RGP - December 2009
TMLP
Taunton, Massachusetts

Analysis	Analyte	Sample ID:	NPDES-01 12/31/2009
		Sample Date: RGP Effluent Limitations *	
	4-Bromophenyl phenyl ether	N/A	10 U
	Bis(2-chloroisopropyl)ether	N/A	10 U
	Bis(2-chloroethoxy)methane	N/A	10 U
	Hexachlorocyclopentadiene	N/A	60 U
	Isophorone	N/A	10 U
	Nitrobenzene	N/A	10 U
	NitrosoDiPhenylAmine(NDPA)/DPA	N/A	30 U
	Aniline	N/A	40 U
	4-Chloroaniline	N/A	10 U
	2-Nitroaniline	N/A	10 U
	3-Nitroaniline	N/A	10 U
	4-Nitroaniline	N/A	14 U
	Dibenzofuran	N/A	10 U
	n-Nitrosodimethylamine	N/A	100 U
	2,4,6-Trichlorophenol	N/A	10 U
	p-Chloro-M-Cresol	N/A	10 U
	2-Chlorophenol	N/A	12 U
	2,4-Dichlorophenol	N/A	20 U
	2,4-Dimethylphenol	N/A	20 U
	2-Nitrophenol	N/A	40 U
	4-Nitrophenol	N/A	20 U
	2,4-Dinitrophenol	N/A	60 U
	4,6-Dinitro-o-cresol	N/A	40 U
	Phenol	N/A	14 U
	2-Methylphenol	N/A	12 U
	3-Methylphenol/4-Methylphenol	N/A	12 U
	2,4,5-Trichlorophenol	N/A	10 U
	Benzoic Acid	N/A	100 U
	Benzyl Alcohol	N/A	20 U
	Carbazole	N/A	10 U
	Pyridine	N/A	100 U
	2-Chloronaphthalene	N/A	2.0 U
	Hexachlorobutadiene	N/A	5.0 U
	1-Methylnaphthalene	N/A	16
	2-Methylnaphthalene	N/A	23
	Pentachlorophenol	1	8.0 U^
	Hexachlorobenzene	N/A	8.0 U
	Hexachloroethane	N/A	8.0 U
	<i>Bis(2-Ethylhexyl)phthalate</i>	6	10 U^
	<i>Butyl benzyl phthalate</i>	N/A	10 U
	<i>Di-n-butylphthalate</i>	N/A	10 U
	<i>Di-n-octylphthalate</i>	N/A	10 U
	<i>Diethyl phthalate</i>	N/A	10 U
	<i>Dimethyl phthalate</i>	N/A	10 U
	Total Phthalates	3	ND
	<i>Benzo(a)anthracene</i>	0.0038	2.4
	<i>Benzo(a)pyrene</i>	0.0038	2.0 U^
	<i>Benzo(b)fluoranthene</i>	0.0038	2.0 U^
	<i>Benzo(k)fluoranthene</i>	0.0038	2.0 U^
	<i>Chrysene</i>	0.0038	2.4
	<i>Dibenzo(a,h)anthracene</i>	0.0038	2.0 U^
	<i>Indeno(1,2,3-cd)Pyrene</i>	0.0038	2.0 U^
	Group I PAH total	10	4.8
	<i>Acenaphthene</i>	100	2.0 U
	<i>Fluoranthene</i>	100	2.0 U
	<i>Acenaphthylene</i>	100	2.0 U
	<i>Anthracene</i>	100	2.0 U
	<i>Benzo(ghi)perylene</i>	100	2.0 U
	<i>Fluorene</i>	100	3.6
	<i>Naphthalene</i>	20	7.9
	<i>Phenanthrene</i>	100	8.0
	<i>Pyrene</i>	100	5.0

Summary of Analytical Results for Tank Pit Sample -- RGP - December 2009
TMLP
Taunton, Massachusetts

Analysis	Analyte	Sample ID:	NPDES-01 12/31/2009
		Sample Date:	
		RGP Effluent Limitations *	
	Group II PAH total	100	24.5
PCBs			
(ug/L)	Aroclor 1016	0.000064	0.275 U^
	Aroclor 1221	0.000064	0.275 U^
	Aroclor 1232	0.000064	0.275 U^
	Aroclor 1242	0.000064	0.275 U^
	Aroclor 1248	0.000064	0.275 U^
	Aroclor 1254	0.000064	0.275 U^
	Aroclor 1260	0.000064	0.275 U^
Pesticides			
(ug/L)	1,2-Dibromoethane	0.05	0.010 U
	1,2-Dibromo-3-chloropropane	N/A	0.010 U
Total Petroleum Hydrocarbons			
(ug/L)	TPH	5,000	142,000
Phenols			
(ug/L)	Phenolics, Total	300	300 U
Metals, total			
(ug/L)	Antimony	5.6	0.80
	Arsenic	10	9.0
	Cadmium	0.2	0.40
	Chromium	48.8	7.5
	Chromium (VI)	11.4	50 U^
	Copper	5.2	61.2
	Iron	1,000	32,000
	Lead	1.3	27.1
	Nickel	29	14.5
	Selenium	5	1.0 U
	Silver	1.2	0.40 U
	Zinc	66.6	134.3
	Mercury	0.9	0.60
Chlorine			
(ug/L)	Chlorine, Total Residual	11	20 U^
Cyanide			
(ug/L)	Cyanide, Total	5.2	5.0 U
Solids			
(ug/L)	Solids, Total Suspended	30,000	52,000
pH			
(s.u.)	pH	6.5-8.5	7.3

Notes:

ug/L - micrograms per liter.

s.u. - Standard unit.

N/A - Not applicable.

ND - Not detected.

NS - No MassDEP standards exist for this compound.

U - Compound was not detected at specified quantitation limit.

Values in Bold indicate the compound was detected.

Values shown in Bold and shaded type exceed the listed discharge limit.

VOCs - Volatile Organic Compounds.

SVOCs - Semivolatile Organic Compounds.

PCBs - Polychlorinated Biphenyls.

* - Remediation General Permit (RGP) Effluent Limitations for freshwater.

^ - The detection limit is higher than the listed limit.



ANALYTICAL REPORT

Lab Number: L0918898

Client: TRC Environmental Consultants
Wannalancit Mills
650 Suffolk Street
Lowell, MA 01854

ATTN: Thomas Nunno

Project Name: TMLP

Project Number: 153800

Report Date: 01/06/10

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

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



Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0918898-01	NPDES-01	TAUNTON, MA	12/31/09 09:30

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Case Narrative

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

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

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

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

Volatile Organics

L0918898-01 has elevated detection limits due to the dilution required by the sample matrix.

Semivolatile Organics

L0918898-01 has elevated detection limits due to the dilution required by matrix interferences encountered during the concentration of the sample.

The WG395285-3 LCSD recovery associated with L0918898-01 was above the acceptance criteria for 2,4-Dinitrotoluene (97%); however, the associated sample was non-detect for this target compound. The results of the original analysis are reported.

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Case Narrative (continued)

Semivolatile Organics-SIM

L0918898-01 has elevated detection limits due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the sample matrix.

The WG395286-2 LCS recovery associated with L0918898-01 was above the acceptance criteria for Pentachlorophenol (108%); however, the associated sample was non-detect for this target compound. The results of the original analysis are reported.

Metals

The WG395345-1 Method Blank associated with L0918898-01 has a concentration above the reporting limit for Iron. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required. The results of the original analyses are reported.

The WG395385-4 Matrix Spike recovery associated with L0918898-01 is below the acceptance criteria for Mercury (65%). A post digestion spike was performed with an acceptable recovery (117%).

Phenol, Total

L0918898-01 has elevated detection limits due to the dilution required by the sample matrix.

Chromium, Hexavalent

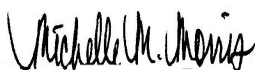
L0918898-01 has elevated detection limits due to the dilution required by the sample matrix.

TPH

The WG395330-4 Laboratory Duplicate RPD associated with L0918898-01 is outside the acceptance criteria (158%). The elevated RPD has been attributed to the non-homogenous nature of the sample utilized for the laboratory duplicate. The sample and duplicate were analyzed from different containers.

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

Authorized Signature:



Title: Technical Director/Representative

Date: 01/06/10

ORGANICS

VOLATILES

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

SAMPLE RESULTS

Lab ID: L0918898-01
Client ID: NPDES-01
Sample Location: TAUNTON, MA
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 01/06/10 10:57
Analyst: JB

Date Collected: 12/31/09 09:30
Date Received: 12/31/09
Field Prep: Not Specified
Extraction Date: 01/06/10 09:00

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

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

SAMPLE RESULTS

Lab ID: L0918898-01
Client ID: NPDES-01
Sample Location: TAUNTON, MA
Matrix: Water
Analytical Method: 5,624
Analytical Date: 01/04/10 10:27
Analyst: TT

Date Collected: 12/31/09 09:30
Date Received: 12/31/09
Field Prep: Not Specified

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

Methylene chloride	ND		ug/l	25	5
1,1-Dichloroethane	ND		ug/l	7.5	5
Chloroform	ND		ug/l	7.5	5
Carbon tetrachloride	ND		ug/l	5.0	5
1,2-Dichloropropane	ND		ug/l	18	5
Dibromochloromethane	ND		ug/l	5.0	5
1,1,2-Trichloroethane	ND		ug/l	7.5	5
2-Chloroethylvinyl ether	ND		ug/l	50	5
Tetrachloroethene	ND		ug/l	7.5	5
Chlorobenzene	ND		ug/l	18	5
Trichlorofluoromethane	ND		ug/l	25	5
1,2-Dichloroethane	ND		ug/l	7.5	5
1,1,1-Trichloroethane	ND		ug/l	10	5
Bromodichloromethane	ND		ug/l	5.0	5
trans-1,3-Dichloropropene	ND		ug/l	7.5	5
cis-1,3-Dichloropropene	ND		ug/l	7.5	5
Bromoform	ND		ug/l	5.0	5
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	5
Benzene	ND		ug/l	5.0	5
Toluene	ND		ug/l	5.0	5
Ethylbenzene	ND		ug/l	5.0	5
Chloromethane	ND		ug/l	50	5
Bromomethane	ND		ug/l	25	5
Vinyl chloride	ND		ug/l	10	5
Chloroethane	ND		ug/l	10	5
1,1-Dichloroethene	ND		ug/l	5.0	5
trans-1,2-Dichloroethene	ND		ug/l	7.5	5
cis-1,2-Dichloroethene	ND		ug/l	5.0	5
Trichloroethene	ND		ug/l	5.0	5
1,2-Dichlorobenzene	ND		ug/l	25	5

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

SAMPLE RESULTS

Lab ID: L0918898-01
Client ID: NPDES-01
Sample Location: TAUNTON, MA

Date Collected: 12/31/09 09:30
Date Received: 12/31/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,3-Dichlorobenzene	ND		ug/l	25	5
1,4-Dichlorobenzene	ND		ug/l	25	5
p/m-Xylene	ND		ug/l	10	5
o-xylene	ND		ug/l	5.0	5
Xylene (Total)	ND		ug/l	10	5
Styrene	ND		ug/l	5.0	5
Acetone	ND		ug/l	50	5
Carbon disulfide	ND		ug/l	25	5
2-Butanone	ND		ug/l	50	5
Vinyl acetate	ND		ug/l	100	5
4-Methyl-2-pentanone	ND		ug/l	50	5
2-Hexanone	ND		ug/l	50	5
Acrolein	ND		ug/l	40	5
Acrylonitrile	ND		ug/l	50	5
Methyl tert butyl ether	ND		ug/l	100	5
1,4-Dioxane	ND		ug/l	10000	5
Tert-Butyl Alcohol	ND		ug/l	500	5
Tertiary-Amyl Methyl Ether	ND		ug/l	100	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	98		80-120
Fluorobenzene	104		80-120
4-Bromofluorobenzene	109		80-120

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,624
Analytical Date: 01/04/10 07:48
Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG395186-6				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	1.5
Chloroform	ND		ug/l	1.5
Carbon tetrachloride	ND		ug/l	1.0
1,2-Dichloropropane	ND		ug/l	3.5
Dibromochloromethane	ND		ug/l	1.0
1,1,2-Trichloroethane	ND		ug/l	1.5
2-Chloroethylvinyl ether	ND		ug/l	10
Tetrachloroethene	ND		ug/l	1.5
Chlorobenzene	ND		ug/l	3.5
Trichlorofluoromethane	ND		ug/l	5.0
1,2-Dichloroethane	ND		ug/l	1.5
1,1,1-Trichloroethane	ND		ug/l	2.0
Bromodichloromethane	ND		ug/l	1.0
trans-1,3-Dichloropropene	ND		ug/l	1.5
cis-1,3-Dichloropropene	ND		ug/l	1.5
Bromoform	ND		ug/l	1.0
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0
Benzene	ND		ug/l	1.0
Toluene	ND		ug/l	1.0
Ethylbenzene	ND		ug/l	1.0
Chloromethane	ND		ug/l	10
Bromomethane	ND		ug/l	5.0
Vinyl chloride	ND		ug/l	2.0
Chloroethane	ND		ug/l	2.0
1,1-Dichloroethene	ND		ug/l	1.0
trans-1,2-Dichloroethene	ND		ug/l	1.5
cis-1,2-Dichloroethene	ND		ug/l	1.0
Trichloroethene	ND		ug/l	1.0
1,2-Dichlorobenzene	ND		ug/l	5.0
1,3-Dichlorobenzene	ND		ug/l	5.0

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,624
Analytical Date: 01/04/10 07:48
Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG395186-6				
1,4-Dichlorobenzene	ND		ug/l	5.0
p/m-Xylene	ND		ug/l	2.0
o-xylene	ND		ug/l	1.0
Xylene (Total)	ND		ug/l	2.0
Styrene	ND		ug/l	1.0
Acetone	ND		ug/l	10
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	10
Vinyl acetate	ND		ug/l	20
4-Methyl-2-pentanone	ND		ug/l	10
2-Hexanone	ND		ug/l	10
Acrolein	ND		ug/l	8.0
Acrylonitrile	ND		ug/l	10
Methyl tert butyl ether	ND		ug/l	20
1,4-Dioxane	ND		ug/l	2000
Tert-Butyl Alcohol	ND		ug/l	100
Tertiary-Amyl Methyl Ether	ND		ug/l	20

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	96		80-120
Fluorobenzene	100		80-120
4-Bromofluorobenzene	109		80-120

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 14,504.1
Analytical Date: 01/06/10 09:45
Analyst: JB

Extraction Date: 01/06/10 09:00

Parameter	Result	Qualifier	Units	RDL
Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG395624-1				
1,2-Dibromoethane	ND		ug/l	0.010
1,2-Dibromo-3-chloropropane	ND		ug/l	0.010

Lab Control Sample Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG395186-5								
Methylene chloride	96		-		1-221	-		30
1,1-Dichloroethane	89		-		59-155	-		30
Chloroform	89		-		51-138	-		30
Carbon tetrachloride	137		-		70-140	-		30
1,2-Dichloropropane	89		-		1-210	-		30
Dibromochloromethane	106		-		53-149	-		30
1,1,2-Trichloroethane	84		-		52-150	-		30
2-Chloroethylvinyl ether	86		-		1-305	-		30
Tetrachloroethene	81		-		64-148	-		30
Chlorobenzene	91		-		37-160	-		30
Trichlorofluoromethane	84		-		17-181	-		30
1,2-Dichloroethane	86		-		49-155	-		30
1,1,1-Trichloroethane	105		-		52-162	-		30
Bromodichloromethane	99		-		35-155	-		30
trans-1,3-Dichloropropene	101		-		17-183	-		30
cis-1,3-Dichloropropene	97		-		1-227	-		30
Bromoform	142		-		45-169	-		30
1,1,2,2-Tetrachloroethane	100		-		46-157	-		30
Benzene	91		-		37-151	-		30
Toluene	80		-		47-150	-		30
Ethylbenzene	92		-		37-162	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG395186-5								
Chloromethane	124		-		1-273	-		30
Bromomethane	90		-		1-242	-		30
Vinyl chloride	88		-		1-251	-		30
Chloroethane	99		-		14-230	-		30
1,1-Dichloroethene	101		-		1-234	-		30
trans-1,2-Dichloroethene	90		-		54-156	-		30
cis-1,2-Dichloroethene	84		-		60-140	-		30
Trichloroethene	87		-		71-157	-		30
1,2-Dichlorobenzene	87		-		18-190	-		30
1,3-Dichlorobenzene	87		-		59-156	-		30
1,4-Dichlorobenzene	87		-		18-190	-		30
p/m-Xylene	90		-		40-160	-		30
o-Xylene	86		-		40-160	-		30
XYLENE (TOTAL)	89		-		40-160	-		30
Styrene	67		-		40-160	-		30
Acetone	122		-		40-160	-		30
Carbon disulfide	92		-		40-160	-		30
2-Butanone	95		-		40-160	-		30
Vinyl acetate	100		-		40-160	-		30
4-Methyl-2-pentanone	85		-		40-160	-		30
2-Hexanone	76		-		40-160	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG395186-5								
Acrolein	100		-		40-160	-		30
Acrylonitrile	75		-		40-160	-		30

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

Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG395624-2								
1,2-Dibromoethane	88		-		70-130	-		20
1,2-Dibromo-3-chloropropane	94		-		70-130	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395186-3 QC Sample: L0918772-06 Client ID: MS Sample												
Methylene chloride	ND	20	22	112		-	-		1-221	-		30
1,1-Dichloroethane	ND	20	20	100		-	-		59-155	-		30
Chloroform	ND	20	20	100		-	-		51-138	-		30
Carbon tetrachloride	ND	20	32	160	Q	-	-		70-140	-		30
1,2-Dichloropropane	ND	20	20	99		-	-		1-210	-		30
Dibromochloromethane	ND	20	23	117		-	-		53-149	-		30
1,1,2-Trichloroethane	ND	20	18	92		-	-		52-150	-		30
2-Chloroethylvinyl ether	ND	20	17	86		-	-		1-305	-		30
Tetrachloroethene	ND	20	19	94		-	-		64-148	-		30
Chlorobenzene	ND	20	21	107		-	-		37-160	-		30
Trichlorofluoromethane	ND	20	20	102		-	-		17-181	-		30
1,2-Dichloroethane	ND	20	18	92		-	-		49-155	-		30
1,1,1-Trichloroethane	ND	20	24	121		-	-		52-162	-		30
Bromodichloromethane	ND	20	22	110		-	-		35-155	-		30
trans-1,3-Dichloropropene	ND	20	22	108		-	-		17-183	-		30
cis-1,3-Dichloropropene	ND	20	21	107		-	-		1-227	-		30
Bromoform	ND	20	30	150		-	-		45-169	-		30
1,1,1,2-Tetrachloroethane	ND	20	22	112		-	-		46-157	-		30
Benzene	ND	20	21	103		-	-		35-151	-		30
Toluene	ND	20	18	92		-	-		47-150	-		30
Ethylbenzene	ND	20	22	108		-	-		37-162	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395186-3 QC Sample: L0918772-06 Client ID: MS Sample												
Chloromethane	ND	20	29	144		-	-		1-273	-		30
Bromomethane	ND	20	22	109		-	-		1-242	-		30
Vinyl chloride	ND	20	23	113		-	-		1-251	-		30
Chloroethane	ND	20	22	113		-	-		14-230	-		30
1,1-Dichloroethene	ND	20	24	121		-	-		1-234	-		30
trans-1,2-Dichloroethene	ND	20	21	105		-	-		54-156	-		30
cis-1,2-Dichloroethene	ND	20	19	97		-	-		60-140	-		30
Trichloroethene	ND	20	20	98		-	-		71-157	-		30
1,2-Dichlorobenzene	ND	20	20	99		-	-		18-190	-		30
1,3-Dichlorobenzene	ND	20	20	101		-	-		59-156	-		30
1,4-Dichlorobenzene	ND	20	20	99		-	-		18-190	-		30
p/m-Xylene	ND	40	42	106		-	-		40-160	-		30
o-Xylene	ND	20	20	100		-	-		40-160	-		30
XYLENE (TOTAL)	ND	60	62	104		-	-		40-160	-		30
Styrene	ND	20	16	78		-	-		40-160	-		30
Acetone	ND	50	52	104		-	-		40-160	-		30
Carbon disulfide	ND	20	22	113		-	-		40-160	-		30
2-Butanone	ND	50	43	87		-	-		40-160	-		30
Vinyl acetate	ND	40	42	106		-	-		40-160	-		30
4-Methyl-2-pentanone	ND	50	39	78		-	-		40-160	-		30
2-Hexanone	ND	50	34	68		-	-		40-160	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395186-3 QC Sample: L0918772-06 Client ID: MS Sample												
Acrolein	ND	40	34	86		-	-		40-160	-		30
Acrylonitrile	ND	40	33	82		-	-		40-160	-		30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
4-Bromofluorobenzene	107				80-120
Fluorobenzene	102				80-120
Pentafluorobenzene	98				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395624-3 QC Sample: L0918783-02 Client ID: MS Sample												
1,2-Dibromoethane	ND	0.237	0.205	87		-	-		70-130	-		20
1,2-Dibromo-3-chloropropane	ND	0.237	0.209	88		-	-		70-130	-		20

Lab Duplicate Analysis Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395186-4 QC Sample: L0918772-06 Client ID: DUP Sample						
Methylene chloride	ND	ND	ug/l	NC		30
1,1-Dichloroethane	ND	ND	ug/l	NC		30
Chloroform	ND	ND	ug/l	NC		30
Carbon tetrachloride	ND	ND	ug/l	NC		30
1,2-Dichloropropane	ND	ND	ug/l	NC		30
Dibromochloromethane	ND	ND	ug/l	NC		30
1,1,2-Trichloroethane	ND	ND	ug/l	NC		30
2-Chloroethylvinyl ether	ND	ND	ug/l	NC		30
Tetrachloroethene	ND	ND	ug/l	NC		30
Chlorobenzene	ND	ND	ug/l	NC		30
Trichlorofluoromethane	ND	ND	ug/l	NC		30
1,2-Dichloroethane	ND	ND	ug/l	NC		30
1,1,1-Trichloroethane	ND	ND	ug/l	NC		30
Bromodichloromethane	ND	ND	ug/l	NC		30
trans-1,3-Dichloropropene	ND	ND	ug/l	NC		30
cis-1,3-Dichloropropene	ND	ND	ug/l	NC		30
Bromoform	ND	ND	ug/l	NC		30
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC		30
Benzene	ND	ND	ug/l	NC		30

Lab Duplicate Analysis Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395186-4 QC Sample: L0918772-06 Client ID: DUP Sample					
Toluene	ND	ND	ug/l	NC	30
Ethylbenzene	ND	ND	ug/l	NC	30
Chloromethane	ND	ND	ug/l	NC	30
Bromomethane	ND	ND	ug/l	NC	30
Vinyl chloride	ND	ND	ug/l	NC	30
Chloroethane	ND	ND	ug/l	NC	30
1,1-Dichloroethene	ND	ND	ug/l	NC	30
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	30
cis-1,2-Dichloroethene	ND	ND	ug/l	NC	30
Trichloroethene	ND	ND	ug/l	NC	30
1,2-Dichlorobenzene	ND	ND	ug/l	NC	30
1,3-Dichlorobenzene	ND	ND	ug/l	NC	30
1,4-Dichlorobenzene	ND	ND	ug/l	NC	30
p/m-Xylene	ND	ND	ug/l	NC	30
o-xylene	ND	ND	ug/l	NC	30
Xylene (Total)	ND	ND	ug/l	NC	30
Styrene	ND	ND	ug/l	NC	30
Acetone	ND	ND	ug/l	NC	30
Carbon disulfide	ND	ND	ug/l	NC	30

Lab Duplicate Analysis Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395186-4 QC Sample: L0918772-06 Client ID: DUP Sample					
2-Butanone	ND	ND	ug/l	NC	30
Vinyl acetate	ND	ND	ug/l	NC	30
4-Methyl-2-pentanone	ND	ND	ug/l	NC	30
2-Hexanone	ND	ND	ug/l	NC	30
Acrolein	ND	ND	ug/l	NC	30
Acrylonitrile	ND	ND	ug/l	NC	30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	94		97		80-120
Fluorobenzene	101		101		80-120
4-Bromofluorobenzene	108		110		80-120

SEMIVOLATILES

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

SAMPLE RESULTS

Lab ID: L0918898-01
Client ID: NPDES-01
Sample Location: TAUNTON, MA
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 01/03/10 14:42
Analyst: PS

Date Collected: 12/31/09 09:30
Date Received: 12/31/09
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 12/31/09 17:47

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

Benzidine	ND		ug/l	100	2
1,2,4-Trichlorobenzene	ND		ug/l	10	2
Bis(2-chloroethyl)ether	ND		ug/l	10	2
1,2-Dichlorobenzene	ND		ug/l	10	2
1,3-Dichlorobenzene	ND		ug/l	10	2
1,4-Dichlorobenzene	ND		ug/l	10	2
3,3'-Dichlorobenzidine	ND		ug/l	100	2
2,4-Dinitrotoluene	ND		ug/l	12	2
2,6-Dinitrotoluene	ND		ug/l	10	2
Azobenzene	ND		ug/l	10	2
4-Chlorophenyl phenyl ether	ND		ug/l	10	2
4-Bromophenyl phenyl ether	ND		ug/l	10	2
Bis(2-chloroisopropyl)ether	ND		ug/l	10	2
Bis(2-chloroethoxy)methane	ND		ug/l	10	2
Hexachlorocyclopentadiene	ND		ug/l	60	2
Isophorone	ND		ug/l	10	2
Nitrobenzene	ND		ug/l	10	2
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	30	2
Bis(2-Ethylhexyl)phthalate	ND		ug/l	10	2
Butyl benzyl phthalate	ND		ug/l	10	2
Di-n-butylphthalate	ND		ug/l	10	2
Di-n-octylphthalate	ND		ug/l	10	2
Diethyl phthalate	ND		ug/l	10	2
Dimethyl phthalate	ND		ug/l	10	2
Aniline	ND		ug/l	40	2
4-Chloroaniline	ND		ug/l	10	2
2-Nitroaniline	ND		ug/l	10	2
3-Nitroaniline	ND		ug/l	10	2
4-Nitroaniline	ND		ug/l	14	2
Dibenzofuran	ND		ug/l	10	2

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

SAMPLE RESULTS

Lab ID: L0918898-01
Client ID: NPDES-01
Sample Location: TAUNTON, MA

Date Collected: 12/31/09 09:30
Date Received: 12/31/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab					
n-Nitrosodimethylamine	ND		ug/l	100	2
2,4,6-Trichlorophenol	ND		ug/l	10	2
P-Chloro-M-Cresol	ND		ug/l	10	2
2-Chlorophenol	ND		ug/l	12	2
2,4-Dichlorophenol	ND		ug/l	20	2
2,4-Dimethylphenol	ND		ug/l	20	2
2-Nitrophenol	ND		ug/l	40	2
4-Nitrophenol	ND		ug/l	20	2
2,4-Dinitrophenol	ND		ug/l	60	2
4,6-Dinitro-o-cresol	ND		ug/l	40	2
Phenol	ND		ug/l	14	2
2-Methylphenol	ND		ug/l	12	2
3-Methylphenol/4-Methylphenol	ND		ug/l	12	2
2,4,5-Trichlorophenol	ND		ug/l	10	2
Benzoic Acid	ND		ug/l	100	2
Benzyl Alcohol	ND		ug/l	20	2
Carbazole	ND		ug/l	10	2
Pyridine	ND		ug/l	100	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	85		10-120
4-Terphenyl-d14	76		33-120

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

SAMPLE RESULTS

Lab ID: L0918898-01
Client ID: NPDES-01
Sample Location: TAUNTON, MA
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 01/03/10 14:42
Analyst: ND

Date Collected: 12/31/09 09:30
Date Received: 12/31/09
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 12/31/09 17:52

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab					
Acenaphthene	ND		ug/l	2.0	10
2-Chloronaphthalene	ND		ug/l	2.0	10
Fluoranthene	ND		ug/l	2.0	10
Hexachlorobutadiene	ND		ug/l	5.0	10
Naphthalene	7.9		ug/l	2.0	10
Benzo(a)anthracene	2.4		ug/l	2.0	10
Benzo(a)pyrene	ND		ug/l	2.0	10
Benzo(b)fluoranthene	ND		ug/l	2.0	10
Benzo(k)fluoranthene	ND		ug/l	2.0	10
Chrysene	2.4		ug/l	2.0	10
Acenaphthylene	ND		ug/l	2.0	10
Anthracene	ND		ug/l	2.0	10
Benzo(ghi)perylene	ND		ug/l	2.0	10
Fluorene	3.6		ug/l	2.0	10
Phenanthrene	8.0		ug/l	2.0	10
Dibenzo(a,h)anthracene	ND		ug/l	2.0	10
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	10
Pyrene	5.0		ug/l	2.0	10
1-Methylnaphthalene	16		ug/l	2.0	10
2-Methylnaphthalene	23		ug/l	2.0	10
Pentachlorophenol	ND		ug/l	8.0	10
Hexachlorobenzene	ND		ug/l	8.0	10
Hexachloroethane	ND		ug/l	8.0	10

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

SAMPLE RESULTS

Lab ID: L0918898-01
Client ID: NPDES-01
Sample Location: TAUNTON, MA

Date Collected: 12/31/09 09:30
Date Received: 12/31/09
Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	115		10-120
4-Terphenyl-d14	97		33-120

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 01/03/10 13:29
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 12/31/09 17:47

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG395285-1				
Benzidine	ND		ug/l	50
1,2,4-Trichlorobenzene	ND		ug/l	5.0
Bis(2-chloroethyl)ether	ND		ug/l	5.0
1,2-Dichlorobenzene	ND		ug/l	5.0
1,3-Dichlorobenzene	ND		ug/l	5.0
1,4-Dichlorobenzene	ND		ug/l	5.0
3,3'-Dichlorobenzidine	ND		ug/l	50
2,4-Dinitrotoluene	ND		ug/l	6.0
2,6-Dinitrotoluene	ND		ug/l	5.0
Azobenzene	ND		ug/l	5.0
4-Chlorophenyl phenyl ether	ND		ug/l	5.0
4-Bromophenyl phenyl ether	ND		ug/l	5.0
Bis(2-chloroisopropyl)ether	ND		ug/l	5.0
Bis(2-chloroethoxy)methane	ND		ug/l	5.0
Hexachlorocyclopentadiene	ND		ug/l	30
Isophorone	ND		ug/l	5.0
Nitrobenzene	ND		ug/l	5.0
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	15
Bis(2-Ethylhexyl)phthalate	ND		ug/l	5.0
Butyl benzyl phthalate	ND		ug/l	5.0
Di-n-butylphthalate	ND		ug/l	5.0
Di-n-octylphthalate	ND		ug/l	5.0
Diethyl phthalate	ND		ug/l	5.0
Dimethyl phthalate	ND		ug/l	5.0
Aniline	ND		ug/l	20
4-Chloroaniline	ND		ug/l	5.0
2-Nitroaniline	ND		ug/l	5.0
3-Nitroaniline	ND		ug/l	5.0
4-Nitroaniline	ND		ug/l	7.0
Dibenzofuran	ND		ug/l	5.0
n-Nitrosodimethylamine	ND		ug/l	50

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 01/03/10 13:29
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 12/31/09 17:47

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG395285-1				
2,4,6-Trichlorophenol	ND		ug/l	5.0
P-Chloro-M-Cresol	ND		ug/l	5.0
2-Chlorophenol	ND		ug/l	6.0
2,4-Dichlorophenol	ND		ug/l	10
2,4-Dimethylphenol	ND		ug/l	10
2-Nitrophenol	ND		ug/l	20
4-Nitrophenol	ND		ug/l	10
2,4-Dinitrophenol	ND		ug/l	30
4,6-Dinitro-o-cresol	ND		ug/l	20
Phenol	ND		ug/l	7.0
2-Methylphenol	ND		ug/l	6.0
3-Methylphenol/4-Methylphenol	ND		ug/l	6.0
2,4,5-Trichlorophenol	ND		ug/l	5.0
Benzoic Acid	ND		ug/l	50
Benzyl Alcohol	ND		ug/l	10
Carbazole	ND		ug/l	5.0
Pyridine	ND		ug/l	50

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	86		33-120

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 01/03/10 13:18
Analyst: ND

Extraction Method: EPA 3510C
Extraction Date: 12/31/09 17:52

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG395286-1				
Acenaphthene	ND		ug/l	0.20
2-Chloronaphthalene	ND		ug/l	0.20
Fluoranthene	ND		ug/l	0.20
Hexachlorobutadiene	ND		ug/l	0.50
Naphthalene	ND		ug/l	0.20
Benzo(a)anthracene	ND		ug/l	0.20
Benzo(a)pyrene	ND		ug/l	0.20
Benzo(b)fluoranthene	ND		ug/l	0.20
Benzo(k)fluoranthene	ND		ug/l	0.20
Chrysene	ND		ug/l	0.20
Acenaphthylene	ND		ug/l	0.20
Anthracene	ND		ug/l	0.20
Benzo(ghi)perylene	ND		ug/l	0.20
Fluorene	ND		ug/l	0.20
Phenanthrene	ND		ug/l	0.20
Dibenzo(a,h)anthracene	ND		ug/l	0.20
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20
Pyrene	ND		ug/l	0.20
1-Methylnaphthalene	ND		ug/l	0.20
2-Methylnaphthalene	ND		ug/l	0.20
Pentachlorophenol	ND		ug/l	0.80
Hexachlorobenzene	ND		ug/l	0.80
Hexachloroethane	ND		ug/l	0.80

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 01/03/10 13:18
Analyst: ND

Extraction Method: EPA 3510C
Extraction Date: 12/31/09 17:52

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG395286-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	63		23-120
2-Fluorobiphenyl	53		15-120
2,4,6-Tribromophenol	58		10-120
4-Terphenyl-d14	64		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG395285-2 WG395285-3								
1,2,4-Trichlorobenzene	66		64		39-98	3		30
1,2-Dichlorobenzene	71		67		40-140	6		30
1,4-Dichlorobenzene	68		68		36-97	0		30
2,4-Dinitrotoluene	86		97	Q	24-96	12		30
2,6-Dinitrotoluene	93		96		40-140	3		30
4-Chlorophenyl phenyl ether	78		91		40-140	15		30
n-Nitrosodi-n-propylamine	87		85		41-116	2		30
Butyl benzyl phthalate	105		115		40-140	9		30
P-Chloro-M-Cresol	90		92		23-97	2		30
2-Chlorophenol	80		83		27-123	4		30
2-Nitrophenol	81		88		30-130	8		30
4-Nitrophenol	52		61		10-80	16		30
2,4-Dinitrophenol	86		110		20-130	24		30
Phenol	40		43		12-110	7		30

Lab Control Sample Analysis Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG395285-2 WG395285-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	51		53		21-120
Phenol-d6	36		38		10-120
Nitrobenzene-d5	92		95		23-120
2-Fluorobiphenyl	85		85		15-120
2,4,6-Tribromophenol	89		100		10-120
4-Terphenyl-d14	100		114		33-120

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG395286-2 WG395286-3

Acenaphthene	71		62		40-140	14	40
2-Chloronaphthalene	80		68		40-140	16	40
Fluoranthene	90		90		40-140	0	40
Anthracene	70		66		40-140	6	40
Pyrene	88		89		40-140	1	40
Pentachlorophenol	108	Q	102		9-103	6	40

Lab Control Sample Analysis **Batch Quality Control**

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG395286-2 WG395286-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	47		38		21-120
Phenol-d6	32		26		10-120
Nitrobenzene-d5	85		69		23-120
2-Fluorobiphenyl	81		68		15-120
2,4,6-Tribromophenol	79		73		10-120
4-Terphenyl-d14	79		78		33-120

PCBS

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

SAMPLE RESULTS

Lab ID: L0918898-01
Client ID: NPDES-01
Sample Location: TAUNTON, MA
Matrix: Water
Analytical Method: 5,608
Analytical Date: 01/06/10 07:54
Analyst: JB

Date Collected: 12/31/09 09:30
Date Received: 12/31/09
Field Prep: Not Specified
Extraction Method: EPA 608
Extraction Date: 12/31/09 17:44
Cleanup Method1: EPA 3665A
Cleanup Date1: 12/31/09

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

Aroclor 1016	ND		ug/l	0.275	1
Aroclor 1221	ND		ug/l	0.275	1
Aroclor 1232	ND		ug/l	0.275	1
Aroclor 1242	ND		ug/l	0.275	1
Aroclor 1248	ND		ug/l	0.275	1
Aroclor 1254	ND		ug/l	0.275	1
Aroclor 1260	ND		ug/l	0.275	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	54		30-150	A

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 5,608
Analytical Date: 01/06/10 07:02
Analyst: JB

Extraction Method: EPA 608
Extraction Date: 12/31/09 17:44
Cleanup Method1: EPA 3665A
Cleanup Date1: 12/31/09

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG395283-1				
Aroclor 1016	ND		ug/l	0.250
Aroclor 1221	ND		ug/l	0.250
Aroclor 1232	ND		ug/l	0.250
Aroclor 1242	ND		ug/l	0.250
Aroclor 1248	ND		ug/l	0.250
Aroclor 1254	ND		ug/l	0.250
Aroclor 1260	ND		ug/l	0.250

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	104		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395283-3 QC Sample: L0918898-01 Client ID: NPDES-01												
Aroclor 1016	ND	2.04	2.16	106		-	-		40-126	-		30
Aroclor 1260	ND	2.04	1.78	87		-	-		40-127	-		30

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	93				30-150	A
Decachlorobiphenyl	65				30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG395283-2								
Aroclor 1016	100		-		40-126	-		30
Aroclor 1260	112		-		40-127	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71				30-150	A
Decachlorobiphenyl	93				30-150	A

Lab Duplicate Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395283-4 QC Sample: L0918898-01 Client ID: NPDES-01						
Aroclor 1016	ND	ND	ug/l	NC		30
Aroclor 1221	ND	ND	ug/l	NC		30
Aroclor 1232	ND	ND	ug/l	NC		30
Aroclor 1242	ND	ND	ug/l	NC		30
Aroclor 1248	ND	ND	ug/l	NC		30
Aroclor 1254	ND	ND	ug/l	NC		30
Aroclor 1260	ND	ND	ug/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		87		30-150	A
Decachlorobiphenyl	54		57		30-150	A

METALS

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

SAMPLE RESULTS

Lab ID: L0918898-01
Client ID: NPDES-01
Sample Location: TAUNTON, MA
Matrix: Water

Date Collected: 12/31/09 09:30
Date Received: 12/31/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab										
Antimony, Total	0.0008		mg/l	0.0005	1	01/04/10 12:25	01/05/10 20:38	EPA 3005A	1,6020	BM
Arsenic, Total	0.0090		mg/l	0.0005	1	01/04/10 12:25	01/05/10 20:38	EPA 3005A	1,6020	BM
Cadmium, Total	0.0004		mg/l	0.0002	1	01/04/10 12:25	01/05/10 20:38	EPA 3005A	1,6020	BM
Chromium, Total	0.0075		mg/l	0.0005	1	01/04/10 12:25	01/05/10 20:38	EPA 3005A	1,6020	BM
Copper, Total	0.0612		mg/l	0.0005	1	01/04/10 12:25	01/05/10 20:38	EPA 3005A	1,6020	BM
Iron, Total	32		mg/l	0.05	1	01/04/10 11:00	01/04/10 19:16	EPA 3005A	19,200.7	AI
Lead, Total	0.0271		mg/l	0.0005	1	01/04/10 12:25	01/05/10 20:38	EPA 3005A	1,6020	BM
Mercury, Total	0.0006		mg/l	0.0002	1	01/04/10 14:35	01/05/10 10:37	EPA 245.1	3,245.1	EZ
Nickel, Total	0.0145		mg/l	0.0005	1	01/04/10 12:25	01/05/10 20:38	EPA 3005A	1,6020	BM
Selenium, Total	ND		mg/l	0.001	1	01/04/10 12:25	01/05/10 20:38	EPA 3005A	1,6020	BM
Silver, Total	ND		mg/l	0.0004	1	01/04/10 12:25	01/05/10 20:38	EPA 3005A	1,6020	BM
Zinc, Total	0.1343		mg/l	0.0050	1	01/04/10 12:25	01/05/10 20:38	EPA 3005A	1,6020	BM



Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG395345-1								
Iron, Total	0.11	mg/l	0.05	1	01/04/10 11:00	01/04/10 18:20	19,200.7	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG395353-1								
Antimony, Total	ND	mg/l	0.0005	1	01/04/10 12:25	01/05/10 18:38	1,6020	BM
Arsenic, Total	ND	mg/l	0.0005	1	01/04/10 12:25	01/05/10 18:38	1,6020	BM
Cadmium, Total	ND	mg/l	0.0002	1	01/04/10 12:25	01/05/10 18:38	1,6020	BM
Chromium, Total	ND	mg/l	0.0005	1	01/04/10 12:25	01/05/10 18:38	1,6020	BM
Copper, Total	ND	mg/l	0.0005	1	01/04/10 12:25	01/05/10 18:38	1,6020	BM
Lead, Total	ND	mg/l	0.0005	1	01/04/10 12:25	01/05/10 18:38	1,6020	BM
Nickel, Total	ND	mg/l	0.0005	1	01/04/10 12:25	01/05/10 18:38	1,6020	BM
Selenium, Total	ND	mg/l	0.001	1	01/04/10 12:25	01/05/10 18:38	1,6020	BM
Silver, Total	ND	mg/l	0.0004	1	01/04/10 12:25	01/05/10 18:38	1,6020	BM
Zinc, Total	ND	mg/l	0.0050	1	01/04/10 12:25	01/05/10 18:38	1,6020	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG395385-1								
Mercury, Total	ND	mg/l	0.0002	1	01/04/10 14:35	01/05/10 10:34	3,245.1	EZ

Prep Information

Digestion Method: EPA 245.1

Lab Control Sample Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG395345-2								
Iron, Total	100		-		85-115	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG395353-2								
Antimony, Total	97		-		80-120	-		
Arsenic, Total	98		-		80-120	-		
Cadmium, Total	106		-		80-120	-		
Chromium, Total	102		-		80-120	-		
Copper, Total	105		-		80-120	-		
Lead, Total	105		-		80-120	-		
Nickel, Total	103		-		80-120	-		
Selenium, Total	99		-		80-120	-		
Silver, Total	108		-		80-120	-		
Zinc, Total	110		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG395385-2								
Mercury, Total	96		-		85-115	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395345-4 QC Sample: L0918828-01 Client ID: MS Sample												
Iron, Total	0.20	1	1.2	100		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395353-4 QC Sample: L0918860-04 Client ID: MS Sample												
Antimony, Total	ND	0.5	0.4591	92		-	-		80-120	-		20
Arsenic, Total	ND	0.12	0.1132	94		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.0507	99		-	-		80-120	-		20
Chromium, Total	ND	0.2	0.1887	94		-	-		80-120	-		20
Copper, Total	ND	0.25	0.2454	98		-	-		80-120	-		20
Lead, Total	ND	0.51	0.5064	99		-	-		80-120	-		20
Nickel, Total	ND	0.5	0.4767	95		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.111	92		-	-		80-120	-		20
Silver, Total	ND	0.05	0.0503	100		-	-		80-120	-		20
Zinc, Total	ND	0.5	0.5238	105		-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395385-4 QC Sample: L0918898-01 Client ID: NPDES-01												
Mercury, Total	0.0006	0.001	0.0013	65	Q	-	-		70-130	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395353-3 QC Sample: L0918860-04 Client ID: DUP Sample						
Lead, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395385-3 QC Sample: L0918898-01 Client ID: NPDES-01						
Mercury, Total	0.0006	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

SAMPLE RESULTS

Lab ID: L0918898-01
Client ID: NPDES-01
Sample Location: TAUNTON, MA
Matrix: Water

Date Collected: 12/31/09 09:30
Date Received: 12/31/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Solids, Total Suspended	52		mg/l	5.0	1	-	01/04/10 09:10	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005	1	01/04/10 16:50	01/05/10 12:52	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	1	-	12/31/09 15:50	30,4500CL-D	DD
pH (H)	7.3		SU	-	1	-	12/31/09 15:40	30,4500H+-B	DD
TPH	142		mg/l	4.00	1	01/04/10 09:30	01/05/10 14:00	74,1664A	JO
Phenolics, Total	ND		mg/l	0.30	10	-	01/05/10 13:36	4,420.1	TH
Chromium, Hexavalent	ND		mg/l	0.050	5	12/31/09 16:00	12/31/09 16:00	30,3500CR-D	DD



Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG395277-2									
Chlorine, Total Residual	ND		mg/l	0.02	1	-	12/31/09 15:50	30,4500CL-D	DD
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG395278-2									
Chromium, Hexavalent	ND		mg/l	0.010	1	12/31/09 16:00	12/31/09 16:00	30,3500CR-D	DD
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG395316-1									
Solids, Total Suspended	ND		mg/l	5.0	1	-	01/04/10 09:10	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG395330-2									
TPH	ND		mg/l	4.00	1	01/04/10 09:30	01/05/10 14:00	74,1664A	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG395395-1									
Cyanide, Total	ND		mg/l	0.005	1	01/04/10 16:50	01/05/10 12:31	30,4500CN-CE	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG395483-1									
Phenolics, Total	ND		mg/l	0.03	1	-	01/05/10 13:31	4,420.1	TH

Lab Control Sample Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG395276-1								
pH	101		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG395277-1								
Chlorine, Total Residual	97		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG395278-1								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG395330-1								
TPH	75		-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG395395-2								
Cyanide, Total	100		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG395483-2								
Phenolics, Total	96		-		82-111	-		12

Matrix Spike Analysis

Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395278-3 QC Sample: L0918898-01 Client ID: NPDES-01												
Chromium, Hexavalent	ND	0.5	0.482	96		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395330-3 QC Sample: L0918834-01 Client ID: MS Sample												
TPH	ND	20.6	14.8	72		-	-		64-132	-		34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395395-4 QC Sample: L0918850-02 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.212	106		-	-		80-120	-		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395483-3 QC Sample: L0918834-01 Client ID: MS Sample												
Phenolics, Total	0.05	0.8	0.83	98		-	-		77-124	-		12

Lab Duplicate Analysis Batch Quality Control

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395276-2 QC Sample: L0918901-01 Client ID: DUP Sample						
pH (H)	11.9	11.9	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395277-3 QC Sample: L0918898-01 Client ID: NPDES-01						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395278-4 QC Sample: L0918898-01 Client ID: NPDES-01						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395316-2 QC Sample: L0918845-02 Client ID: DUP Sample						
Solids, Total Suspended	4000	3800	mg/l	5		32
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395330-4 QC Sample: L0918898-01 Client ID: NPDES-01						
TPH	142	16.5	mg/l	158	Q	34
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395395-3 QC Sample: L0918850-02 Client ID: DUP Sample						
Cyanide, Total	ND	ND	mg/l	NC		30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG395483-4 QC Sample: L0918834-01 Client ID: DUP Sample						
Phenolics, Total	0.05	0.05	mg/l	0		12

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0918898-01A	Vial Na2S2O3 preserved	A	N/A	5	Y	Absent	624(7)
L0918898-01B	Vial Na2S2O3 preserved	A	N/A	5	Y	Absent	624(7)
L0918898-01C	Vial Na2S2O3 preserved	A	N/A	5	Y	Absent	504(14)
L0918898-01D	Vial Na2S2O3 preserved	A	N/A	5	Y	Absent	504(14)
L0918898-01E	Amber 1000ml unpreserved	A	7	5	Y	Absent	8270TCL(7)
L0918898-01F	Amber 1000ml unpreserved	A	7	5	Y	Absent	8270TCL(7)
L0918898-01G	Amber 1000ml unpreserved	A	7	5	Y	Absent	8270TCL-SIM(7)
L0918898-01H	Amber 1000ml H2SO4 preserved	A	7	5	Y	Absent	TPHENOL-420(28)
L0918898-01I	Amber 1000ml Na2S2O3	A	7	5	Y	Absent	PCB-608(7)
L0918898-01J	Amber 1000ml Na2S2O3	A	7	5	Y	Absent	PCB-608(7)
L0918898-01K	Plastic 500ml H2SO4 preserved	A	<2	5	Y	Absent	TPHENOL-420(28)
L0918898-01L	Plastic 500ml H2SO4 preserved	A	<2	5	Y	Absent	TPHENOL-420(28)
L0918898-01M	Amber 1000ml HCl preserved	A	<2	5	Y	Absent	TPH-1664(28)
L0918898-01N	Amber 1000ml HCl preserved	A	<2	5	Y	Absent	TPH-1664(28)
L0918898-01O	Plastic 500ml unpreserved	A	7	5	Y	Absent	PH-4500(1),HEXCR-3500(1),TRC-4500(1)
L0918898-01P	Plastic 250ml NaOH preserved	A	>12	5	Y	Absent	TCN-4500(14)
L0918898-01Q	Plastic 1000ml unpreserved	A	7	5	Y	Absent	TSS-2540(7)
L0918898-01R	Plastic 500ml HNO3 preserved	A	<2	5	Y	Absent	SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),FE-UI(180),PB-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180)

*Hold days indicated by values in parentheses

Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND	- Not detected at the reported detection limit for the sample.
NI	- Not Ignitable.
RDL	- Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

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

Report Format: Data Usability Report



Project Name: TMLP
Project Number: 153800

Lab Number: L0918898
Report Date: 01/06/10

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certificate/Approval Program Summary

Last revised December 1, 2009 - Westboro Facility

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

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

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

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

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP (Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

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

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

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

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

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

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

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

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

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

Non-Potable Water

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

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

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

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

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

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

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

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

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

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

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

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO₃-F, 4500NO₂-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH₃-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

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

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

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

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500Cl-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH₃-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO₃-F, 4500-NO₂-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

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

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. *Organic Parameters:* MA-EPH, MA-VPH.**Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. *NELAP Accredited.***

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

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

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

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

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

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

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

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

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

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

Department of Defense Certificate/Lab ID: L2217.

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

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

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

Analytes Not Accredited by NELAP

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

