



September 4, 2009

US Environmental Protection Agency
RGP-NOI Processing
1 Congress Street, Suite 1100
Boston, MA 02214-2023
ATTN: Mr. Victor Alvarez

RE: Remediation General Permit Application – Notice of Intent
Gibbs Oil Company, LP Raymond, NH\
69 Route 27
Raymond, NH 03077

Dear Mr. Alvarez:

REMSERV, Inc. has prepared and enclosed a Remediation General Permit (RGP) Notice of Intent (NOI) along with supporting documentation for the above referenced property on behalf of Gibbs Oil Company, LP (Gibbs). The property is a commercial gasoline dispensing facility that has been approved by the New Hampshire Department of Environmental Services for renovation including the replacement of the underground storage tanks (USTs) presently at the property.

In preparation of this RGP, REMSERV, Inc. collected two groundwater samples for analyses at Alpha Analytical Laboratories, Inc., in the general areas of proposed construction dewatering. Neither sample contained dissolved petroleum in excess of minimum laboratory detection limits. The renovation scope of work for this project includes dewatering of excavation area at the site for the purpose of installing four 10,000-gallon fiberglass reinforced plastic underground storage tanks (USTs). The purpose of the NOI will be to permit the discharge of treated ground water produced during excavation activities into an unnamed wetland, which ultimately drains into an unnamed tributary of the Lamprey River, a Class B waterway.

The construction schedule calls for excavation to begin the 21st of September, therefore your attention to this application would be greatly appreciated. Please contact Mr. Thomas Simmons at (781) 721-4455 if you have any questions regarding this submittal.

Sincerely,
REMSERV, Inc.

Thomas P. Simmons, NHPG

Enc.
Cc: Mr. Jeffrey G. Andrews/NH DES Sanitary Engineer
Gibbs Oil Company LP

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 style="vertical-align: top;"> 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, ft ³ /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, ft ³ /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)										
38. Antimony										
39. Arsenic										
40. Cadmium										
41. Chromium III										
42. Chromium VI										

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										
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.

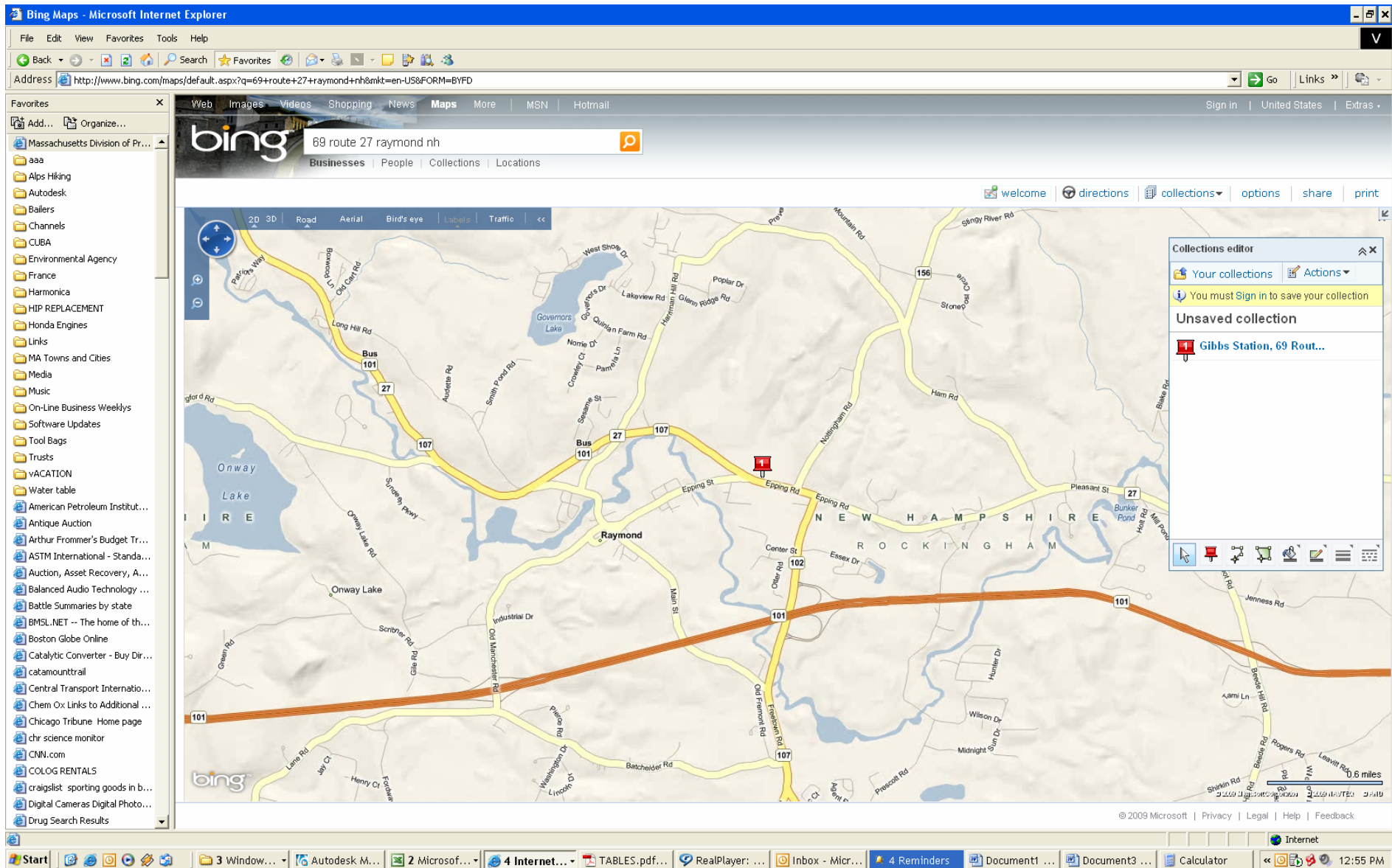
Facility/Site Name:

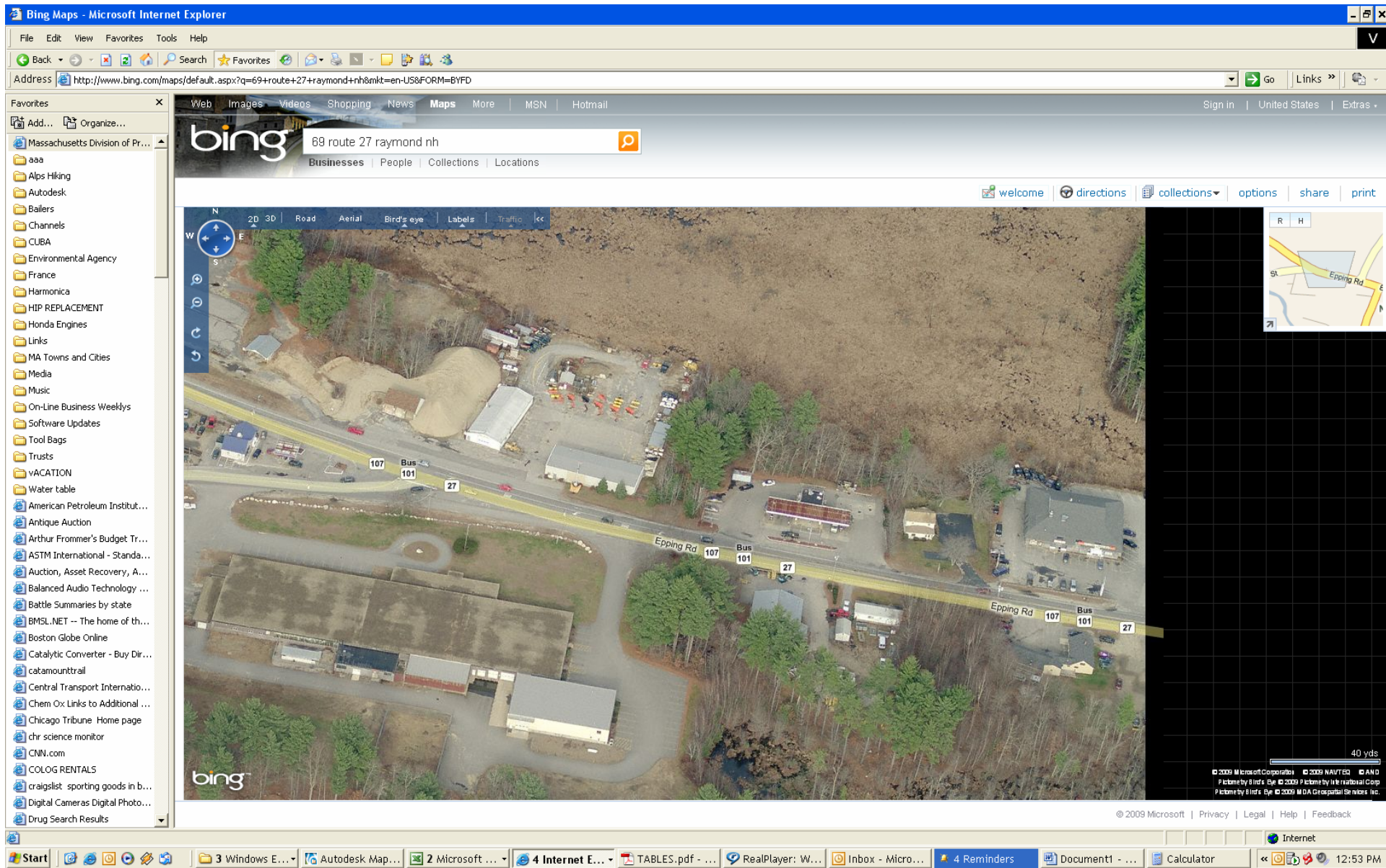
Gibbs Oil Company LP

Operator signature:

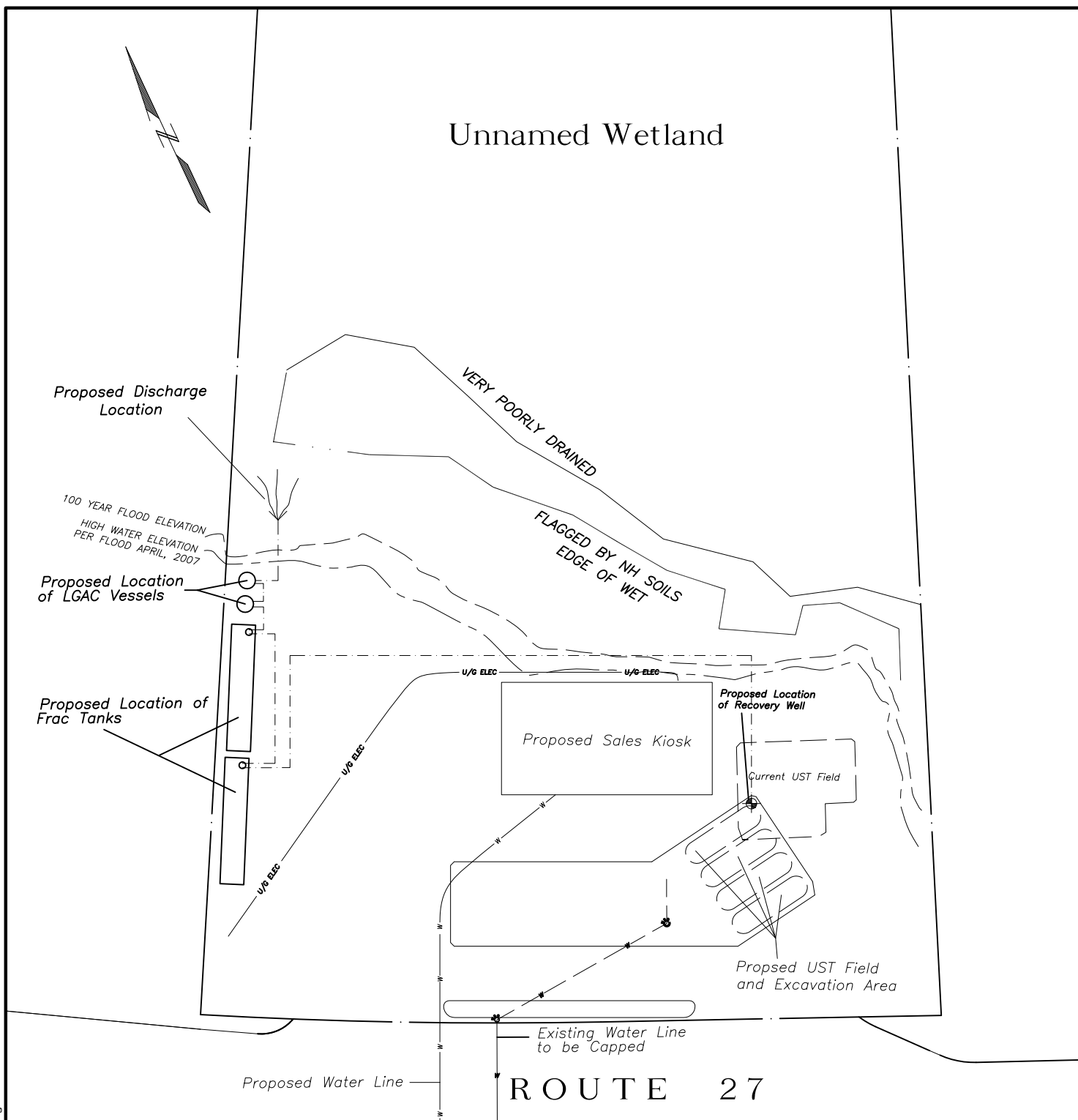
Title: NHPG

Date: 09/04/09





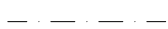
Unnamed Wetland



LEGEND



Proposed Recovery Well



Discharge Hose



Scale in Feet

Source: "Site Improvement Plan", Ayoub Engineering, 6/12/2009

Proposed Discharge Location

Remediation General Permit Application
Gibbs Oil Company, LP
69 Route 27
Raymond, NH

REM SERU

REMEDIATION & ENVIRONMENTAL
MANAGEMENT SERVICES, INC.
35 WINTHROP STREET
WINCHESTER, MASSACHUSETTS

Phone: (781) 721-4455 Fax: (781) 721-4456

Figure 2

Project 28103-1:

Date: September 2009

Scale: 1" = 50'

Approved by: TPS/RLI

Designed by: AJG



New Hampshire Natural Heritage Bureau

To: Thomas Simmons
REMSERV, Inc.
35 Winthrop St
Winchester, MA 01890

Date: 9/2/2009

From: NH Natural Heritage Bureau

Re: Review by NH Natural Heritage Bureau of request dated 9/2/2009

NHB File ID: NHB09-1851

Applicant: Thomas Simmons

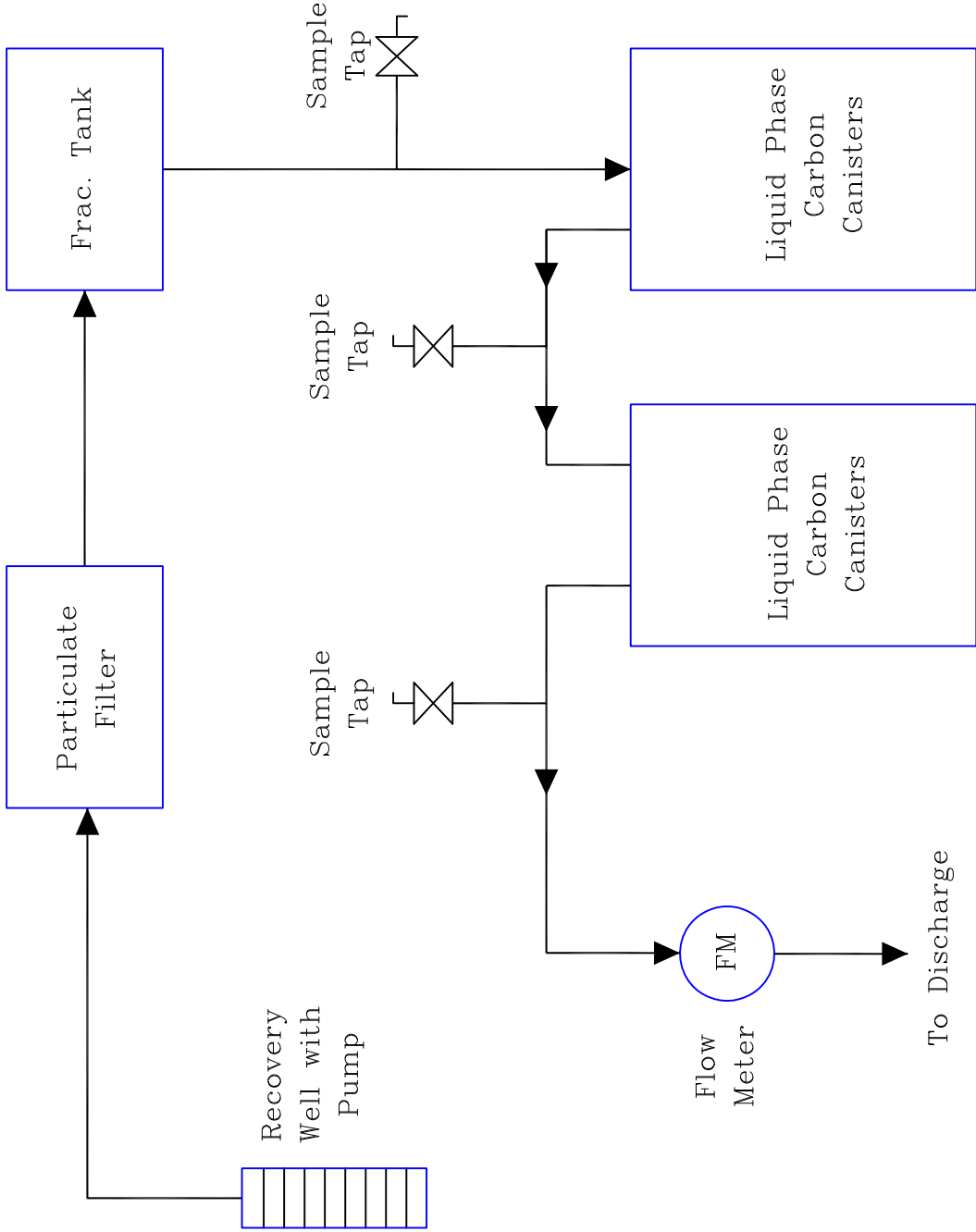
Tax Map(s)/Lot(s): 28-2, Lot 17
Raymond

Project Categories:
Buildings and Related Structures: Single commercial building lot

The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present

This review is valid through 9/2/2010.



Dewatering Treatment System
Process Flow Diagram

Gibbs Oil Company, LP
69 Route 27
Raymond, NH
NH DES No. 199506022



REMEDIATION & ENVIRONMENTAL
MANAGEMENT SERVICES, INC.
95 WINTHROP STREET
WINCHESTER, MASSACHUSETTS

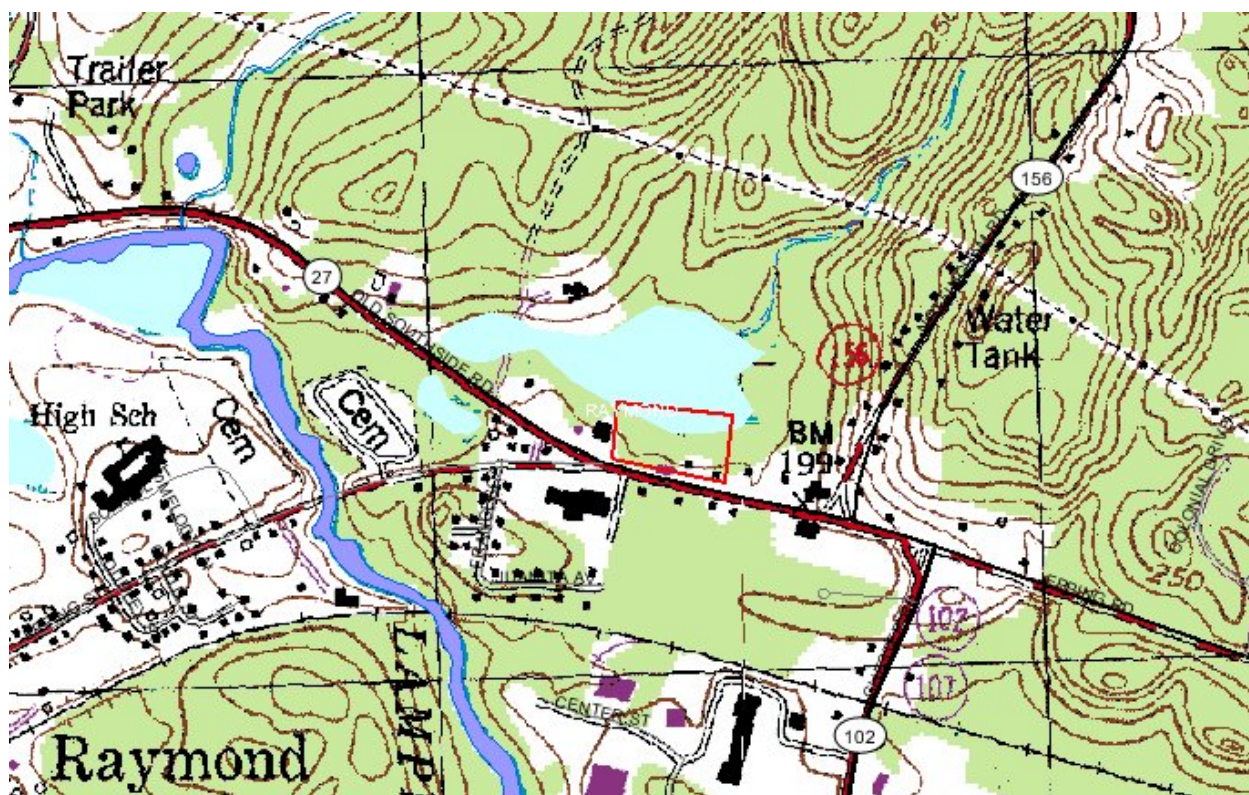
Figure 2

Project: 28103-1
Date: August, 2009
Scale: Not to Scale
Approved by: AJG
Designed by: JFD

Phone: (781) 721-4455 Fax: (781) 721-4456



MAP OF PROJECT BOUNDARIES FOR: NHB ID# NHB09-1851





ANALYTICAL REPORT

Lab Number: L0912087

Client: REMSERV
35 Winthrop Street
Winchester, MA 01890

ATTN: Thomas Simmons

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Report Date: 09/03/09

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: GIBBS-RAYMOND
Project Number: 28103-1

Lab Number: L0912087
Report Date: 09/03/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0912087-01	GP101-GW	RAYMOND, NH	08/31/09 09:31
L0912087-02	GP102-GW	RAYMOND, NH	08/31/09 11:07
L0912087-03	TRIP BLANK	RAYMOND, NH	08/31/09 00:00

Project Name: GIBBS-RAYMOND
Project Number: 28103-1

Lab Number: L0912087
Report Date: 09/03/09

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

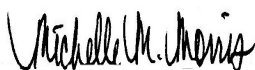
The WG377914-3 MS recoveries, associated with L0912087-01, were outside the acceptance criteria for Carbon tetrachloride (149%) and Acrolein (38%); however, the associated LCS recoveries were within criteria.

PCB

The surrogate recovery for L0912087-02 is above the individual acceptance criteria for Decachlorobiphenyl (155%); however, the sample was non-detect for all target analytes. Re-analysis was not required.

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: 09/03/09

ORGANICS

VOLATILES

Project Name: GIBBS-RAYMOND**Lab Number:** L0912087**Project Number:** 28103-1**Report Date:** 09/03/09**SAMPLE RESULTS**

Lab ID: L0912087-01
Client ID: GP101-GW
Sample Location: RAYMOND, NH
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 09/03/09 14:57
Analyst: JB

Date Collected: 08/31/09 09:31
Date Received: 08/31/09
Field Prep: Not Specified

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

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-01
 Client ID: GP101-GW
 Sample Location: RAYMOND, NH
 Matrix: Water
 Analytical Method: 5,624
 Analytical Date: 09/01/09 08:43
 Analyst: TT

Date Collected: 08/31/09 09:31
 Date Received: 08/31/09
 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	5.0	1
1,1-Dichloroethane	ND		ug/l	1.5	1
Chloroform	6.5		ug/l	1.5	1
Carbon tetrachloride	ND		ug/l	1.0	1
1,2-Dichloropropane	ND		ug/l	3.5	1
Dibromochloromethane	ND		ug/l	1.0	1
1,1,2-Trichloroethane	ND		ug/l	1.5	1
2-Chloroethylvinyl ether	ND		ug/l	10	1
Tetrachloroethene	ND		ug/l	1.5	1
Chlorobenzene	ND		ug/l	3.5	1
Trichlorofluoromethane	ND		ug/l	5.0	1
1,2-Dichloroethane	ND		ug/l	1.5	1
1,1,1-Trichloroethane	ND		ug/l	2.0	1
Bromodichloromethane	2.6		ug/l	1.0	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	1
Bromoform	ND		ug/l	1.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	1
Benzene	ND		ug/l	1.0	1
Toluene	ND		ug/l	1.0	1
Ethylbenzene	ND		ug/l	1.0	1
Chloromethane	ND		ug/l	10	1
Bromomethane	ND		ug/l	5.0	1
Vinyl chloride	ND		ug/l	2.0	1
Chloroethane	ND		ug/l	2.0	1
1,1-Dichloroethene	ND		ug/l	1.0	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	1
Trichloroethene	ND		ug/l	1.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-01

Date Collected: 08/31/09 09:31

Client ID: GP101-GW

Date Received: 08/31/09

Sample Location: RAYMOND, NH

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
p/m-Xylene	ND		ug/l	2.0	1
o-xylene	ND		ug/l	1.0	1
Xylene (Total)	ND		ug/l	2.0	1
Styrene	ND		ug/l	1.0	1
Acetone	ND		ug/l	10	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	10	1
Vinyl acetate	ND		ug/l	20	1
4-Methyl-2-pentanone	ND		ug/l	10	1
2-Hexanone	ND		ug/l	10	1
Acrolein	ND		ug/l	8.0	1
Acrylonitrile	ND		ug/l	10	1
Methyl tert butyl ether	ND		ug/l	20	1
1,4-Dioxane	ND		ug/l	2000	1
Tert-Butyl Alcohol	ND		ug/l	100	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	103		80-120
Fluorobenzene	101		80-120
4-Bromofluorobenzene	110		80-120

Project Name: GIBBS-RAYMOND**Lab Number:** L0912087**Project Number:** 28103-1**Report Date:** 09/03/09**SAMPLE RESULTS**

Lab ID: L0912087-02
Client ID: GP102-GW
Sample Location: RAYMOND, NH
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 09/03/09 15:09
Analyst: JB

Date Collected: 08/31/09 11:07
Date Received: 08/31/09
Field Prep: Not Specified

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

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-02
 Client ID: GP102-GW
 Sample Location: RAYMOND, NH
 Matrix: Water
 Analytical Method: 5,624
 Analytical Date: 09/01/09 09:18
 Analyst: TT

Date Collected: 08/31/09 11:07
 Date Received: 08/31/09
 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	5.0	1
1,1-Dichloroethane	ND		ug/l	1.5	1
Chloroform	6.4		ug/l	1.5	1
Carbon tetrachloride	ND		ug/l	1.0	1
1,2-Dichloropropane	ND		ug/l	3.5	1
Dibromochloromethane	ND		ug/l	1.0	1
1,1,2-Trichloroethane	ND		ug/l	1.5	1
2-Chloroethylvinyl ether	ND		ug/l	10	1
Tetrachloroethene	ND		ug/l	1.5	1
Chlorobenzene	ND		ug/l	3.5	1
Trichlorofluoromethane	ND		ug/l	5.0	1
1,2-Dichloroethane	ND		ug/l	1.5	1
1,1,1-Trichloroethane	ND		ug/l	2.0	1
Bromodichloromethane	2.1		ug/l	1.0	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	1
Bromoform	ND		ug/l	1.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	1
Benzene	ND		ug/l	1.0	1
Toluene	ND		ug/l	1.0	1
Ethylbenzene	ND		ug/l	1.0	1
Chloromethane	ND		ug/l	10	1
Bromomethane	ND		ug/l	5.0	1
Vinyl chloride	ND		ug/l	2.0	1
Chloroethane	ND		ug/l	2.0	1
1,1-Dichloroethene	ND		ug/l	1.0	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	1
Trichloroethene	ND		ug/l	1.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-02

Date Collected: 08/31/09 11:07

Client ID: GP102-GW

Date Received: 08/31/09

Sample Location: RAYMOND, NH

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
p/m-Xylene	ND		ug/l	2.0	1
o-xylene	ND		ug/l	1.0	1
Xylene (Total)	ND		ug/l	2.0	1
Styrene	ND		ug/l	1.0	1
Acetone	ND		ug/l	10	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	10	1
Vinyl acetate	ND		ug/l	20	1
4-Methyl-2-pentanone	ND		ug/l	10	1
2-Hexanone	ND		ug/l	10	1
Acrolein	ND		ug/l	8.0	1
Acrylonitrile	ND		ug/l	10	1
Methyl tert butyl ether	ND		ug/l	20	1
1,4-Dioxane	ND		ug/l	2000	1
Tert-Butyl Alcohol	ND		ug/l	100	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	101		80-120
Fluorobenzene	100		80-120
4-Bromofluorobenzene	109		80-120

Project Name: GIBBS-RAYMOND**Lab Number:** L0912087**Project Number:** 28103-1**Report Date:** 09/03/09**SAMPLE RESULTS**

Lab ID: L0912087-03
Client ID: TRIP BLANK
Sample Location: RAYMOND, NH
Matrix: Water
Analytical Method: 14,504.1
Analytical Date: 09/03/09 15:21
Analyst: JB

Date Collected: 08/31/09 00:00
Date Received: 08/31/09
Field Prep: Not Specified

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

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-03
 Client ID: TRIP BLANK
 Sample Location: RAYMOND, NH
 Matrix: Water
 Analytical Method: 5,624
 Analytical Date: 09/01/09 08:08
 Analyst: TT

Date Collected: 08/31/09 00:00
 Date Received: 08/31/09
 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	5.0	1
1,1-Dichloroethane	ND		ug/l	1.5	1
Chloroform	ND		ug/l	1.5	1
Carbon tetrachloride	ND		ug/l	1.0	1
1,2-Dichloropropane	ND		ug/l	3.5	1
Dibromochloromethane	ND		ug/l	1.0	1
1,1,2-Trichloroethane	ND		ug/l	1.5	1
2-Chloroethylvinyl ether	ND		ug/l	10	1
Tetrachloroethene	ND		ug/l	1.5	1
Chlorobenzene	ND		ug/l	3.5	1
Trichlorofluoromethane	ND		ug/l	5.0	1
1,2-Dichloroethane	ND		ug/l	1.5	1
1,1,1-Trichloroethane	ND		ug/l	2.0	1
Bromodichloromethane	ND		ug/l	1.0	1
trans-1,3-Dichloropropene	ND		ug/l	1.5	1
cis-1,3-Dichloropropene	ND		ug/l	1.5	1
Bromoform	ND		ug/l	1.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	1
Benzene	ND		ug/l	1.0	1
Toluene	ND		ug/l	1.0	1
Ethylbenzene	ND		ug/l	1.0	1
Chloromethane	ND		ug/l	10	1
Bromomethane	ND		ug/l	5.0	1
Vinyl chloride	ND		ug/l	2.0	1
Chloroethane	ND		ug/l	2.0	1
1,1-Dichloroethene	ND		ug/l	1.0	1
trans-1,2-Dichloroethene	ND		ug/l	1.5	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	1
Trichloroethene	ND		ug/l	1.0	1
1,2-Dichlorobenzene	ND		ug/l	5.0	1

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-03
 Client ID: TRIP BLANK
 Sample Location: RAYMOND, NH

Date Collected: 08/31/09 00:00
 Date Received: 08/31/09
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab					
1,3-Dichlorobenzene	ND		ug/l	5.0	1
1,4-Dichlorobenzene	ND		ug/l	5.0	1
p/m-Xylene	ND		ug/l	2.0	1
o-xylene	ND		ug/l	1.0	1
Xylene (Total)	ND		ug/l	2.0	1
Styrene	ND		ug/l	1.0	1
Acetone	ND		ug/l	10	1
Carbon disulfide	ND		ug/l	5.0	1
2-Butanone	ND		ug/l	10	1
Vinyl acetate	ND		ug/l	20	1
4-Methyl-2-pentanone	ND		ug/l	10	1
2-Hexanone	ND		ug/l	10	1
Acrolein	ND		ug/l	8.0	1
Acrylonitrile	ND		ug/l	10	1
Methyl tert butyl ether	ND		ug/l	20	1
1,4-Dioxane	ND		ug/l	2000	1
Tert-Butyl Alcohol	ND		ug/l	100	1
Tertiary-Amyl Methyl Ether	ND		ug/l	20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	103		80-120
Fluorobenzene	103		80-120
4-Bromofluorobenzene	109		80-120

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

Method Blank Analysis Batch Quality Control

Analytical Method: 5,624
 Analytical Date: 09/01/09 07:32
 Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG377914-2				
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: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

Method Blank Analysis Batch Quality Control

Analytical Method: 5,624
 Analytical Date: 09/01/09 07:32
 Analyst: TT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG377914-2				
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	104		80-120
Fluorobenzene	103		80-120
4-Bromofluorobenzene	110		80-120

Project Name: GIBBS-RAYMOND**Lab Number:** L0912087**Project Number:** 28103-1**Report Date:** 09/03/09**Method Blank Analysis**
Batch Quality Control

Analytical Method: 14,504.1

Analytical Date: 09/03/09 13:54

Analyst: JB

Parameter	Result	Qualifier	Units	RDL
Pesticides by GC - Westborough Lab for sample(s): 01-03 Batch: WG378403-1				
1,2-Dibromoethane	ND		ug/l	0.010

Lab Control Sample Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG377914-1					
Methylene chloride	106	-	1-221	-	30
1,1-Dichloroethane	111	-	59-155	-	30
Chloroform	123	-	51-138	-	30
Carbon tetrachloride	115	-	70-140	-	30
1,2-Dichloropropane	104	-	1-210	-	30
Dibromochloromethane	120	-	53-149	-	30
1,1,2-Trichloroethane	105	-	52-150	-	30
2-Chloroethylvinyl ether	93	-	1-305	-	30
Tetrachloroethene	109	-	64-148	-	30
Chlorobenzene	105	-	37-160	-	30
Trichlorofluoromethane	138	-	17-181	-	30
1,2-Dichloroethane	129	-	49-155	-	30
1,1,1-Trichloroethane	114	-	52-162	-	30
Bromodichloromethane	123	-	35-155	-	30
trans-1,3-Dichloropropene	96	-	17-183	-	30
cis-1,3-Dichloropropene	102	-	1-227	-	30
Bromoform	105	-	45-169	-	30
1,1,2,2-Tetrachloroethane	102	-	46-157	-	30
Benzene	106	-	37-151	-	30
Toluene	101	-	47-150	-	30
Ethylbenzene	107	-	37-162	-	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG377914-1					
Chloromethane	137	-	1-273	-	30
Bromomethane	101	-	1-242	-	30
Vinyl chloride	122	-	1-251	-	30
Chloroethane	112	-	14-230	-	30
1,1-Dichloroethene	130	-	1-234	-	30
trans-1,2-Dichloroethene	109	-	54-156	-	30
cis-1,2-Dichloroethene	104	-	60-140	-	30
Trichloroethene	108	-	71-157	-	30
1,2-Dichlorobenzene	104	-	18-190	-	30
1,3-Dichlorobenzene	107	-	59-156	-	30
1,4-Dichlorobenzene	101	-	18-190	-	30
p/m-Xylene	102	-	40-160	-	30
o-Xylene	99	-	40-160	-	30
XYLENE (TOTAL)	101	-	40-160	-	30
Styrene	84	-	40-160	-	30
Acetone	119	-	40-160	-	30
Carbon disulfide	111	-	40-160	-	30
2-Butanone	97	-	40-160	-	30
Vinyl acetate	106	-	40-160	-	30
4-Methyl-2-pentanone	92	-	40-160	-	30
2-Hexanone	91	-	40-160	-	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG377914-1					
Acrolein	69	-	40-160	-	30
Acrylonitrile	87	-	40-160	-	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	104				80-120
Fluorobenzene	101				80-120
4-Bromofluorobenzene	108				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG378403-2

1,2-Dibromoethane	126	-	70-130	-	20
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Matrix Spike Analysis **Batch Quality Control**

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
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Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG377914-3 QC Sample: L0912087-01 Client ID: GP101-GW

Methylene chloride	ND	20	23	117	-	-	1-221	-	30
1,1-Dichloroethane	ND	20	25	124	-	-	59-155	-	30
Chloroform	6.5	20	33	134	-	-	51-138	-	30
Carbon tetrachloride	ND	20	30	149	-	-	70-140	-	30
1,2-Dichloropropane	ND	20	23	116	-	-	1-210	-	30
Dibromochloromethane	ND	20	28	140	-	-	53-149	-	30
1,1,2-Trichloroethane	ND	20	22	112	-	-	52-150	-	30
2-Chloroethylvinyl ether	ND	20	21	107	-	-	1-305	-	30
Tetrachloroethene	ND	20	25	124	-	-	64-148	-	30
Chlorobenzene	ND	20	23	116	-	-	37-160	-	30
Trichlorofluoromethane	ND	20	31	156	-	-	17-181	-	30
1,2-Dichloroethane	ND	20	27	136	-	-	49-155	-	30
1,1,1-Trichloroethane	ND	20	28	140	-	-	52-162	-	30
Bromodichloromethane	2.6	20	31	144	-	-	35-155	-	30
trans-1,3-Dichloropropene	ND	20	23	116	-	-	17-183	-	30
cis-1,3-Dichloropropene	ND	20	22	112	-	-	1-227	-	30
Bromoform	ND	20	27	136	-	-	45-169	-	30
1,1,2,2-Tetrachloroethane	ND	20	23	114	-	-	46-157	-	30
Benzene	ND	20	22	112	-	-	35-151	-	30
Toluene	ND	20	23	113	-	-	47-150	-	30
Ethylbenzene	ND	20	24	120	-	-	37-162	-	30

Matrix Spike Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG377914-3 QC Sample: L0912087-01 Client ID: GP101-GW									
Chloromethane	ND	20	33	163	-	-	1-273	-	30
Bromomethane	ND	20	20	103	-	-	1-242	-	30
Vinyl chloride	ND	20	28	139	-	-	1-251	-	30
Chloroethane	ND	20	24	122	-	-	14-230	-	30
1,1-Dichloroethene	ND	20	28	140	-	-	1-234	-	30
trans-1,2-Dichloroethene	ND	20	26	128	-	-	54-156	-	30
cis-1,2-Dichloroethene	ND	20	23	113	-	-	60-140	-	30
Trichloroethene	ND	20	24	119	-	-	71-157	-	30
1,2-Dichlorobenzene	ND	20	22	113	-	-	18-190	-	30
1,3-Dichlorobenzene	ND	20	23	117	-	-	59-156	-	30
1,4-Dichlorobenzene	ND	20	22	111	-	-	18-190	-	30
p/m-Xylene	ND	40	44	111	-	-	40-160	-	30
o-Xylene	ND	20	23	113	-	-	40-160	-	30
XYLENE (TOTAL)	ND	60	67	112	-	-	40-160	-	30
Styrene	ND	20	20	100	-	-	40-160	-	30
Acetone	ND	50	59	119	-	-	40-160	-	30
Carbon disulfide	ND	20	24	119	-	-	40-160	-	30
2-Butanone	ND	50	48	97	-	-	40-160	-	30
Vinyl acetate	ND	40	53	132	-	-	40-160	-	30
4-Methyl-2-pentanone	ND	50	46	93	-	-	40-160	-	30
2-Hexanone	ND	50	48	95	-	-	40-160	-	30

Matrix Spike Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG377914-3 QC Sample: L0912087-01 Client ID: GP101-GW									
Acrolein	ND	40	15	38	-	-	40-160	-	30
Acrylonitrile	ND	40	35	87	-	-	40-160	-	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
4-Bromofluorobenzene	109				80-120
Fluorobenzene	100				80-120
Pentafluorobenzene	102				80-120

Pesticides by GC - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG378403-3 QC Sample: L0911947-01 Client ID: MS Sample

1,2-Dibromoethane	ND	0.242	0.283	117	-	-	70-130	-	20
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Lab Duplicate Analysis Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG377914-4 QC Sample: L0912087-02 Client ID: GP102-GW					
Methylene chloride	ND	ND	ug/l	NC	30
1,1-Dichloroethane	ND	ND	ug/l	NC	30
Chloroform	6.4	6.4	ug/l	0	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	2.1	2.0	ug/l	5	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: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG377914-4 QC Sample: L0912087-02 Client ID: GP102-GW					
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: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG377914-4 QC Sample: L0912087-02 Client ID: GP102-GW					
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
Methyl tert butyl ether	ND	ND	ug/l	NC	30
1,4-Dioxane	ND	ND	ug/l	NC	30
Tert-Butyl Alcohol	ND	ND	ug/l	NC	30
Tertiary-Amyl Methyl Ether	ND	ND	ug/l	NC	30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Pentafluorobenzene	101		102		80-120
Fluorobenzene	100		101		80-120
4-Bromofluorobenzene	109		108		80-120

SEMIVOLATILES

Project Name: GIBBS-RAYMOND**Lab Number:** L0912087**Project Number:** 28103-1**Report Date:** 09/03/09**SAMPLE RESULTS**

Lab ID: L0912087-01
Client ID: GP101-GW
Sample Location: RAYMOND, NH
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 09/02/09 13:34
Analyst: AS

Date Collected: 08/31/09 09:31
Date Received: 08/31/09
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/01/09 09:25

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

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-01

Date Collected: 08/31/09 09:31

Client ID: GP101-GW

Date Received: 08/31/09

Sample Location: RAYMOND, NH

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	35		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	72		33-120

Project Name: GIBBS-RAYMOND
Project Number: 28103-1

Lab Number: L0912087
Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-01
Client ID: GP101-GW
Sample Location: RAYMOND, NH
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 09/02/09 16:06
Analyst: PS

Date Collected: 08/31/09 09:31
Date Received: 08/31/09
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/01/09 09:25

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

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-01
 Client ID: GP101-GW
 Sample Location: RAYMOND, NH

Date Collected: 08/31/09 09:31
 Date Received: 08/31/09
 Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	33		21-120
Phenol-d6	18		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	63		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	89		33-120

Project Name: GIBBS-RAYMOND**Lab Number:** L0912087**Project Number:** 28103-1**Report Date:** 09/03/09**SAMPLE RESULTS**

Lab ID: L0912087-02
Client ID: GP102-GW
Sample Location: RAYMOND, NH
Matrix: Water
Analytical Method: 1,8270C
Analytical Date: 09/02/09 14:04
Analyst: AS

Date Collected: 08/31/09 11:07
Date Received: 08/31/09
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 09/01/09 09:25

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

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-02

Date Collected: 08/31/09 11:07

Client ID: GP102-GW

Date Received: 08/31/09

Sample Location: RAYMOND, NH

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	31		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	50		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	62		33-120

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-02
 Client ID: GP102-GW
 Sample Location: RAYMOND, NH
 Matrix: Water
 Analytical Method: 1,8270C
 Analytical Date: 09/02/09 16:29
 Analyst: PS

Date Collected: 08/31/09 11:07
 Date Received: 08/31/09
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 09/01/09 09:25

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

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

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-02
 Client ID: GP102-GW
 Sample Location: RAYMOND, NH

Date Collected: 08/31/09 11:07
 Date Received: 08/31/09
 Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		21-120
Phenol-d6	17		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	62		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	81		33-120

Project Name: GIBBS-RAYMOND
Project Number: 28103-1

Lab Number: L0912087
Report Date: 09/03/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 09/02/09 11:05
Analyst: AS

Extraction Method: EPA 3510C
Extraction Date: 09/01/09 09:25

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG377926-1				
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: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 09/02/09 11:05
 Analyst: AS

Extraction Method: EPA 3510C
 Extraction Date: 09/01/09 09:25

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-02 Batch: WG377926-1				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	43		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	61		33-120

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 09/02/09 13:00
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/01/09 09:25

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG377927-1				
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: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270C
 Analytical Date: 09/02/09 13:00
 Analyst: PS

Extraction Method: EPA 3510C
 Extraction Date: 09/01/09 09:25

Parameter	Result	Qualifier	Units	RDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG377927-1				
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	33		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	78		10-120
4-Terphenyl-d14	81		33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-02 Batch: WG377926-2 WG377926-3					
Acenaphthene	55	54	40-140	2	40
2-Chloronaphthalene	75	71	40-140	5	40
Fluoranthene	86	83	40-140	4	40
Anthracene	82	81	40-140	1	40
Pyrene	81	83	40-140	2	40
Pentachlorophenol	68	69	30-130	1	40

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
2-Fluorophenol	36	38	21-120
Phenol-d6	22	23	10-120
Nitrobenzene-d5	68	67	23-120
2-Fluorobiphenyl	55	53	15-120
2,4,6-Tribromophenol	82	87	10-120
4-Terphenyl-d14	76	73	33-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG377927-2 WG377927-3					
1,2,4-Trichlorobenzene	58	75	39-98	26	30
1,2-Dichlorobenzene	55	70	40-140	24	30
1,4-Dichlorobenzene	54	67	36-97	21	30
2,4-Dinitrotoluene	89	96	24-96	8	30
2,6-Dinitrotoluene	78	87	40-140	11	30
4-Chlorophenyl phenyl ether	76	85	40-140	11	30
n-Nitrosodi-n-propylamine	57	73	41-116	25	30
Butyl benzyl phthalate	95	102	40-140	7	30
P-Chloro-M-Cresol	71	84	23-97	17	30
2-Chlorophenol	56	71	27-123	24	30
2-Nitrophenol	68	88	30-130	26	30
4-Nitrophenol	35	36	10-80	3	30
2,4-Dinitrophenol	91	94	20-130	3	30
Phenol	26	30	12-110	14	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG377927-2 WG377927-3

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
2-Fluorophenol	37	44	21-120
Phenol-d6	23	27	10-120
Nitrobenzene-d5	63	77	23-120
2-Fluorobiphenyl	69	84	15-120
2,4,6-Tribromophenol	103	111	10-120
4-Terphenyl-d14	95	98	33-120

PCBS

Project Name: GIBBS-RAYMOND**Lab Number:** L0912087**Project Number:** 28103-1**Report Date:** 09/03/09**SAMPLE RESULTS**

Lab ID: L0912087-01
Client ID: GP101-GW
Sample Location: RAYMOND, NH
Matrix: Water
Analytical Method: 5,608
Analytical Date: 09/03/09 10:36
Analyst: SH

Date Collected: 08/31/09 09:31
Date Received: 08/31/09
Field Prep: Not Specified
Extraction Method: EPA 608
Extraction Date: 09/01/09 13:12
Cleanup Method1: EPA 3665A
Cleanup Date1: 09/02/09

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

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	127		30-150	A

Project Name: GIBBS-RAYMOND**Lab Number:** L0912087**Project Number:** 28103-1**Report Date:** 09/03/09**SAMPLE RESULTS**

Lab ID: L0912087-02
Client ID: GP102-GW
Sample Location: RAYMOND, NH
Matrix: Water
Analytical Method: 5,608
Analytical Date: 09/03/09 10:48
Analyst: SH

Date Collected: 08/31/09 11:07
Date Received: 08/31/09
Field Prep: Not Specified
Extraction Method: EPA 608
Extraction Date: 09/01/09 13:12
Cleanup Method1: EPA 3665A
Cleanup Date1: 09/02/09

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

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	155		30-150	A

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

Method Blank Analysis Batch Quality Control

Analytical Method: 5,608
 Analytical Date: 09/03/09 09:46
 Analyst: SH

Extraction Method: EPA 608
 Extraction Date: 09/01/09 13:12
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 09/02/09

Parameter	Result	Qualifier	Units	RDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG377982-1				
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	83		30-150	A
Decachlorobiphenyl	131		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND
Project Number: 28103-1

Lab Number: L0912087
Report Date: 09/03/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG377982-3 QC Sample: L0912087-01 Client ID: GP101-GW									
Aroclor 1016	ND	2	1.83	92	-	-	40-126	-	30
Aroclor 1260	ND	2	1.88	94	-	-	40-127	-	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82				30-150	A
Decachlorobiphenyl	145				30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG377982-2					
Aroclor 1016	73	-	40-126	-	
Aroclor 1260	81	-	40-127	-	

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74				30-150	A
Decachlorobiphenyl	136				30-150	A

Lab Duplicate Analysis Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG377982-4 QC Sample: L0912087-01 Client ID: GP101-GW					
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	70		76		30-150	A
Decachlorobiphenyl	127		132		30-150	A

METALS

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-01

Date Collected: 08/31/09 09:31

Client ID: GP101-GW

Date Received: 08/31/09

Sample Location: RAYMOND, NH

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Westborough Lab

Iron, Total	0.07		mg/l	0.05	1	09/02/09 08:50	09/02/09 15:01	EPA 3005A	19,200.7	AI
Mercury, Total	ND		mg/l	0.0002	1	09/02/09 16:40	09/03/09 10:56	EPA 245.1	3,245.1	EZ

Total Metals - Mansfield Lab

Antimony, Total	0.0026		mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:07	EPA 3005A	1,6020A	LP
Arsenic, Total	0.0019		mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:07	EPA 3005A	1,6020A	LP
Cadmium, Total	ND		mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:07	EPA 3005A	1,6020A	LP
Chromium, Total	ND		mg/l	0.001	1	09/02/09 09:30	09/03/09 12:07	EPA 3005A	1,6020A	LP
Copper, Total	0.002		mg/l	0.001	1	09/02/09 09:30	09/03/09 12:07	EPA 3005A	1,6020A	LP
Lead, Total	ND		mg/l	0.001	1	09/02/09 09:30	09/03/09 12:07	EPA 3005A	1,6020A	LP
Nickel, Total	0.0073		mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:07	EPA 3005A	1,6020A	LP
Selenium, Total	ND		mg/l	0.005	1	09/02/09 09:30	09/03/09 12:07	EPA 3005A	1,6020A	LP
Silver, Total	ND		mg/l	0.0002	1	09/02/09 09:30	09/03/09 12:07	EPA 3005A	1,6020A	LP
Zinc, Total	0.174		mg/l	0.010	1	09/02/09 09:30	09/03/09 12:07	EPA 3005A	1,6020A	LP



Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-02
 Client ID: GP102-GW
 Sample Location: RAYMOND, NH
 Matrix: Water

Date Collected: 08/31/09 11:07
 Date Received: 08/31/09
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
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Total Metals - Westborough Lab

Iron, Total	0.31		mg/l	0.05	1	09/02/09 08:50	09/02/09 15:04	EPA 3005A	19,200.7	AI
Mercury, Total	ND		mg/l	0.0002	1	09/02/09 16:40	09/03/09 10:57	EPA 245.1	3,245.1	EZ

Total Metals - Mansfield Lab

Antimony, Total	0.0025		mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:12	EPA 3005A	1,6020A	LP
Arsenic, Total	0.0017		mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:12	EPA 3005A	1,6020A	LP
Cadmium, Total	ND		mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:12	EPA 3005A	1,6020A	LP
Chromium, Total	ND		mg/l	0.001	1	09/02/09 09:30	09/03/09 12:12	EPA 3005A	1,6020A	LP
Copper, Total	0.006		mg/l	0.001	1	09/02/09 09:30	09/03/09 12:12	EPA 3005A	1,6020A	LP
Lead, Total	ND		mg/l	0.001	1	09/02/09 09:30	09/03/09 12:12	EPA 3005A	1,6020A	LP
Nickel, Total	0.0096		mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:12	EPA 3005A	1,6020A	LP
Selenium, Total	ND		mg/l	0.005	1	09/02/09 09:30	09/03/09 12:12	EPA 3005A	1,6020A	LP
Silver, Total	ND		mg/l	0.0002	1	09/02/09 09:30	09/03/09 12:12	EPA 3005A	1,6020A	LP
Zinc, Total	0.303		mg/l	0.010	1	09/02/09 09:30	09/03/09 12:12	EPA 3005A	1,6020A	LP



Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

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): 01-02 Batch: WG378159-1								
Iron, Total	ND	mg/l	0.05	1	09/02/09 08:50	09/02/09 14:41	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): 01-02 Batch: WG378236-1								
Mercury, Total	ND	mg/l	0.0002	1	09/02/09 16:40	09/03/09 10:41	3,245.1	EZ

Prep Information

Digestion Method: EPA 245.1

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-02 Batch: WG378314-1								
Antimony, Total	ND	mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:04	1,6020A	LP
Arsenic, Total	ND	mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:04	1,6020A	LP
Cadmium, Total	ND	mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:04	1,6020A	LP
Chromium, Total	ND	mg/l	0.001	1	09/02/09 09:30	09/03/09 12:04	1,6020A	LP
Copper, Total	ND	mg/l	0.001	1	09/02/09 09:30	09/03/09 12:04	1,6020A	LP
Lead, Total	ND	mg/l	0.001	1	09/02/09 09:30	09/03/09 12:04	1,6020A	LP
Nickel, Total	ND	mg/l	0.0005	1	09/02/09 09:30	09/03/09 12:04	1,6020A	LP
Selenium, Total	ND	mg/l	0.005	1	09/02/09 09:30	09/03/09 12:04	1,6020A	LP
Silver, Total	ND	mg/l	0.0002	1	09/02/09 09:30	09/03/09 12:04	1,6020A	LP
Zinc, Total	ND	mg/l	0.010	1	09/02/09 09:30	09/03/09 12:04	1,6020A	LP

Prep Information

Digestion Method: EPA 3005A



Lab Control Sample Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG378159-2					
Iron, Total	99	-	85-115	-	
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG378236-2					
Mercury, Total	107	-		-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 Batch: WG378314-2					
Antimony, Total	99	-	80-120	-	20
Arsenic, Total	102	-	80-120	-	20
Cadmium, Total	106	-	80-120	-	20
Chromium, Total	106	-	80-120	-	20
Copper, Total	105	-	80-120	-	20
Lead, Total	110	-	80-120	-	20
Nickel, Total	102	-	80-120	-	20
Selenium, Total	95	-	80-120	-	20
Silver, Total	102	-	80-120	-	20
Zinc, Total	103	-	80-120	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG378159-4 QC Sample: L0912085-01 Client ID: MS Sample									
Iron, Total	0.80	1	1.8	100	-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG378236-4 QC Sample: L0912087-02 Client ID: GP102-GW									
Mercury, Total	ND	0.001	0.0012	123	-	-		-	
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG378314-4 QC Sample: L0912087-01 Client ID: GP101-GW									
Antimony, Total	0.0026	0.5	0.5003	100	-	-	75-125	-	20
Arsenic, Total	0.0019	0.12	0.1244	102	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.0522	102	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.214	107	-	-	75-125	-	20
Copper, Total	0.002	0.25	0.262	104	-	-	75-125	-	20
Lead, Total	ND	0.51	0.534	105	-	-	75-125	-	20
Nickel, Total	0.0073	0.5	0.5183	102	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.114	95	-	-	75-125	-	20
Silver, Total	ND	0.05	0.0493	98	-	-	75-125	-	20
Zinc, Total	0.174	0.5	0.688	103	-	-	75-125	-	20

Lab Duplicate Analysis Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG378236-3 QC Sample: L0912087-02 Client ID: GP102-GW					
Mercury, Total	ND	ND	mg/l	NC	
Total Metals - Mansfield Lab Associated sample(s): 01-02 QC Batch ID: WG378314-3 QC Sample: L0912087-01 Client ID: GP101-GW					
Antimony, Total	0.0026	ND	mg/l	NC	20
Arsenic, Total	0.0019	0.0018	mg/l	6	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Copper, Total	0.002	0.002	mg/l	17	20
Lead, Total	ND	ND	mg/l	NC	20
Nickel, Total	0.0073	0.0069	mg/l	5	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	0.174	0.175	mg/l	1	20

INORGANICS & MISCELLANEOUS

Project Name: GIBBS-RAYMOND
Project Number: 28103-1

Lab Number: L0912087
Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-01
Client ID: GP101-GW
Sample Location: RAYMOND, NH
Matrix: Water

Date Collected: 08/31/09 09:31
Date Received: 08/31/09
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	ND		mg/l	5.0	1	-	09/02/09 11:00	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005	1	09/01/09 17:20	09/02/09 19:52	30,4500CN-CE	AT
Chlorine, Total Residual	ND		mg/l	0.02	1	-	08/31/09 19:20	30,4500CL-D	BH
pH (H)	6.4		SU	-	1	-	08/31/09 19:40	30,4500H+-B	BH
TPH	ND		mg/l	4.00	1	09/01/09 10:00	09/03/09 12:30	74,1664A	JO
Phenolics, Total	ND		mg/l	0.03	1	-	09/03/09 15:53	4,420.1	TH
Chromium, Hexavalent	ND		mg/l	0.010	1	08/31/09 19:50	08/31/09 19:50	30,3500CR-D	NM



Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

SAMPLE RESULTS

Lab ID: L0912087-02

Client ID: GP102-GW

Sample Location: RAYMOND, NH

Matrix: Water

Date Collected: 08/31/09 11:07

Date Received: 08/31/09

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	ND		mg/l	5.0	1	-	09/02/09 11:00	30,2540D	DW
Cyanide, Total	ND		mg/l	0.005	1	09/01/09 17:20	09/02/09 19:55	30,4500CN-CE	AT
Chlorine, Total Residual	ND		mg/l	0.02	1	-	08/31/09 19:20	30,4500CL-D	BH
pH (H)	6.2		SU	-	1	-	08/31/09 19:40	30,4500H+-B	BH
TPH	ND		mg/l	4.00	1	09/01/09 10:00	09/03/09 12:30	74,1664A	JO
Phenolics, Total	ND		mg/l	0.03	1	-	09/03/09 15:54	4,420.1	TH
Chromium, Hexavalent	ND		mg/l	0.010	1	08/31/09 19:50	08/31/09 19:50	30,3500CR-D	NM



Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

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): 01-02 Batch: WG377886-1									
Chromium, Hexavalent	ND		mg/l	0.010	1	08/31/09 19:50	08/31/09 19:50	30,3500CR-D	NM
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG377892-1									
Chlorine, Total Residual	ND		mg/l	0.02	1	-	08/31/09 19:20	30,4500CL-D	BH
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG377950-2									
TPH	ND		mg/l	4.00	1	09/01/09 10:00	09/03/09 12:30	74,1664A	JO
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG378022-1									
Cyanide, Total	ND		mg/l	0.005	1	09/01/09 17:20	09/02/09 19:35	30,4500CN-CE	AT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG378127-1									
Solids, Total Suspended	ND		mg/l	5.0	1	-	09/02/09 11:00	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG378417-1									
Phenolics, Total	ND		mg/l	0.03	1	-	09/03/09 15:49	4,420.1	TH

Lab Control Sample Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG377886-2					
Chromium, Hexavalent	95	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG377892-2					
Chlorine, Total Residual	93	-		-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG377894-1					
pH	100	-	99-101	-	5
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG377950-1					
TPH	85	-	64-132	-	34
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG378022-2					
Cyanide, Total	101	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG378417-2					
Phenolics, Total	101	-	82-111	-	12

Matrix Spike Analysis

Batch Quality Control

Project Name: GIBBS-RAYMOND
Project Number: 28103-1

Lab Number: L0912087
Report Date: 09/03/09

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG377886-4 QC Sample: L0912087-01 Client ID: GP101-GW									
Chromium, Hexavalent	ND	0.1	0.097	97	-	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG377950-3 QC Sample: L0912087-02 Client ID: GP102-GW									
TPH	ND	20.4	ND	78	-	-	64-132	-	34
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG378022-4 QC Sample: L0912087-01 Client ID: GP101-GW									
Cyanide, Total	ND	0.2	0.204	102	-	-	80-120	-	30
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG378417-3 QC Sample: L0912087-02 Client ID: GP102-GW									
Phenolics, Total	ND	0.8	0.74	92	-	-	77-124	-	12

Lab Duplicate Analysis Batch Quality Control

Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG377886-3	QC Sample: L0912087-01	Client ID: GP101-GW	
Chromium, Hexavalent	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG377892-3	QC Sample: L0912087-01	Client ID: GP101-GW	
Chlorine, Total Residual	ND	ND	mg/l	NC	
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG377894-2	QC Sample: L0912079-01	Client ID: DUP Sample	
pH (H)	9.7	9.7	SU	0	5
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG377950-4	QC Sample: L0912087-01	Client ID: GP101-GW	
TPH	ND	ND	mg/l	NC	34
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG378022-3	QC Sample: L0912087-01	Client ID: GP101-GW	
Cyanide, Total	ND	ND	mg/l	NC	30
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG378127-2	QC Sample: L0912147-02	Client ID: DUP Sample	
Solids, Total Suspended	950	920	mg/l	3	32
General Chemistry - Westborough Lab	Associated sample(s): 01-02	QC Batch ID: WG378417-4	QC Sample: L0911989-01	Client ID: DUP Sample	
Phenolics, Total	ND	ND	mg/l	NC	12

Project Name: GIBBS-RAYMOND

Lab Number: L0912087

Project Number: 28103-1

Report Date: 09/03/09

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0912087-01A	Vial Na2S2O3 preserved	B	N/A	2	Y	Absent	504(14)
L0912087-01B	Vial Na2S2O3 preserved	B	N/A	2	Y	Absent	504(14)
L0912087-01C	Vial Na2S2O3 preserved	B	N/A	2	Y	Absent	624(7)
L0912087-01D	Vial Na2S2O3 preserved	B	N/A	2	Y	Absent	624(7)
L0912087-01E	Plastic 1000ml unpreserved	B	7	2	Y	Absent	TSS-2540(7)
L0912087-01F	Plastic 1000ml unpreserved	B	7	2	Y	Absent	PH-4500(1),HEXCR-3500(1),TRC-4500(1)
L0912087-01G	Plastic 1000ml unpreserved	B	7	2	Y	Absent	PH-4500(1),HEXCR-3500(1),TRC-4500(1)
L0912087-01H	Amber 1000ml HCl preserved	B	<2	2	Y	Absent	TPH-1664(28)
L0912087-01I	Amber 1000ml HCl preserved	B	<2	2	Y	Absent	TPH-1664(28)
L0912087-01J	Amber 1000ml H2SO4 preserved	B	<2	2	Y	Absent	TPHENOL-420(28)
L0912087-01K	Amber 1000ml H2SO4 preserved	B	<2	2	Y	Absent	TPHENOL-420(28)
L0912087-01L	Amber 1000ml Na2S2O3	B	7	2	Y	Absent	PCB-608(7)
L0912087-01M	Amber 1000ml Na2S2O3	B	7	2	Y	Absent	PCB-608(7)
L0912087-01N	Amber 1000ml unpreserved	B	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0912087-01O	Amber 1000ml unpreserved	B	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0912087-01P	Amber 1000ml unpreserved	B	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0912087-01Q	Amber 1000ml unpreserved	B	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0912087-01R	Plastic 250ml NaOH preserved	B	>12	2	Y	Absent	TCN-4500(14)
L0912087-01S	Plastic 500ml HNO3 preserved	B	<2	2	Y	Absent	FE-UI(180),HG-U(28)
L0912087-02A	Vial Na2S2O3 preserved	A	N/A	2	Y	Absent	504(14)
L0912087-02B	Vial Na2S2O3 preserved	A	N/A	2	Y	Absent	504(14)
L0912087-02C	Vial Na2S2O3 preserved	A	N/A	2	Y	Absent	624(7)
L0912087-02D	Vial Na2S2O3 preserved	A	N/A	2	Y	Absent	624(7)
L0912087-02E	Plastic 1000ml unpreserved	A	7	2	Y	Absent	TSS-2540(7)
L0912087-02F	Plastic 1000ml unpreserved	A	7	2	Y	Absent	PH-4500(1),HEXCR-3500(1),TRC-4500(1)
L0912087-02G	Plastic 1000ml unpreserved	A	7	2	Y	Absent	PH-4500(1),HEXCR-3500(1),TRC-4500(1)
L0912087-02H	Amber 1000ml HCl preserved	A	<2	2	Y	Absent	TPH-1664(28)
L0912087-02I	Amber 1000ml HCl preserved	A	<2	2	Y	Absent	TPH-1664(28)

*Hold days indicated by values in parentheses



Project Name: GIBBS-RAYMOND

Project Number: 28103-1

Lab Number: L0912087

Report Date: 09/03/09

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis
L0912087-02J	Amber 1000ml H2SO4 preserved	A	<2	2	Y	Absent	TPHENOL-420(28)
L0912087-02K	Amber 1000ml H2SO4 preserved	A	<2	2	Y	Absent	TPHENOL-420(28)
L0912087-02L	Amber 1000ml Na2S2O3	A	7	2	Y	Absent	PCB-608(7)
L0912087-02M	Amber 1000ml Na2S2O3	A	7	2	Y	Absent	PCB-608(7)
L0912087-02N	Amber 1000ml unpreserved	A	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0912087-02O	Amber 1000ml unpreserved	A	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0912087-02P	Amber 1000ml unpreserved	A	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0912087-02Q	Amber 1000ml unpreserved	A	7	2	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L0912087-02R	Plastic 250ml NaOH preserved	A	>12	2	Y	Absent	TCN-4500(14)
L0912087-02S	Plastic 500ml HNO3 preserved	A	<2	2	Y	Absent	FE-UI(180),HG-U(28)
L0912087-03A	Vial Na2S2O3 preserved	A	N/A	2	Y	Absent	504(14)
L0912087-03B	Vial Na2S2O3 preserved	A	N/A	2	Y	Absent	624(7)

*Hold days indicated by values in parentheses

Project Name: GIBBS-RAYMOND
Project Number: 28103-1

Lab Number: L0912087
Report Date: 09/03/09

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: GIBBS-RAYMOND
Project Number: 28103-1

Lab Number: L0912087
Report Date: 09/03/09

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 August 27, 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.)

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), 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, Nitrite-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), SM6251B, 314.0.

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, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-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, PCB-Water) 600/4-81-045-PCB-Oil

Drinking Water

Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D;

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

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

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

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

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

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

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

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

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

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3F, 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, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

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

Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 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.

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

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

Non-NELAC Approved Analytes

The following analytes are considered non-NELAC certifiable parameters: 8260B: Freon-113, Diisopropyl Ether, 8330A: PETN; Picric Acid; Nitroglycerine; 2,6-DANT; 2,4-DANT)

Certificate/Approval Program Summary

Last revised June 17, 2009 – Mansfield 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-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: SM2320B, 4500NH₃-F, EPA 120.1, SM2510B, 2340B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, 420.1, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Maine Department of Human Services Certificate/Lab ID: MA0030.

Wastewater (Inorganic Parameters: EPA 120.1, 300.0, SM 2320, 2510B, 2540C, 2540D, EPA 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID: 68-02089. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 5030B, EPA 8260)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. NELAP Accredited via LA-DEQ.

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

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. NELAP Accredited.

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7471. Organic Parameters: EPA 8015, 8270.)

U.S. Army Corps of Engineers

CHAIN OF CUSTODY

PAGE 1 OF 1



WESTBORO, MA
TEL: 508-888-9220
FAX: 508-888-9193

MANFIELD, MA
TEL: 508-822-9300
FAX: 508-822-9288

Client Information

Client: REMS E&U, Inc.
Address: 35 Waltham St.
Phone: (781) 721 4435
Fax: (781) 721 4456
Email: *Russell@remseu.com*

Project Name: C. ills - Raymond
Project Location: Raymond, MA
Project #: 28103-1
Project Manager: Tom Simmons
ALPHA Quote #:
Turn-Around Time

Other Project Specific Requirements/Comments/Detection Limits:

Gibbs

Date Rec'd in Lab: 8/31/09

ALPHA Job #: L0912087

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ RADEX ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program Criteria

AADEA NHDES GU-1

Billing Information
☐ Same as Client info
PO #:

C. ills

ANALYSIS
504 (EDB)
624 (EVOC)
Total Metals
608 PCB
Hex Cr, TRC, PH
8270/PAH SEM
1664 (TPH)
TCN
Total Phenol
TSS

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials												
		Date	Time														
12087.1	GP101-MS-GW	8/31/09	931	GW	MSH	X	X	X	X	X	X	X	X	X	X	X	Place refer to all samples labeled GP101
2	GP102-MS-GW	8/31/09	1107	GW	ASH	X	X	X	X	X	X	X	X	X	X	X	GP102-GW
3	Trip Blank	—	—	—	—	X											GP101-GW
3	Trip Blank	—	—	—	—	X											GP102-GW
3	Trip Blank	—	—	—	—	X											GP102-GW

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 Terms and Conditions. See reverse side.



CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA
TEL: 508-888-9220
FAX: 508-888-9193

MANFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: **PEMSEA, Inc.**

Address: **35 Waltham St.**

Phone: **(781) 721 4455**

Fax: **(781) 721 4456**

Email: **lunson@pemsea.com**

Other Project Specific Requirements/Comments/Detection Limits:
C1665

Project Information

Project Name: **C1665 - Raymond**

Project Location: **Raymond, MA**

Project #: **28103-1**

Project Manager: **Tom Simmons**

ALPHA Quote #:

Turn-Around Time

Standard ☒ RUSH (only confirmed if pre-approved)

Date Due: **9/14/2009** Time: **AM**

Date Rec'd in Lab: **8/31/09**

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ INDEX ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ALPHA Job #: **L0912087**

Billing Information

☐ Same as Client Info

PO #:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
12087.1	GP101-746 GW	8/31/09	931	GW	MS4
2	GP102-746 GW	8/31/09	1107	GW	MS4
3	Feip Blank	—	—	—	—
3	1-100 Blank	—	—	—	—

Container Type	Y	Y	F	A	P	A	A	P	A	P	A
Preservative	H	H	C	H	A	A	B	E	D	A	

ANALYSIS		SAMPLE HANDLING
504 (EDB)	624 (REVOC)	
Total Metals		
608 PCB	Hex Cr, TRC, PH	
8270/PAH-SMA	1604 (TPH)	
TCN	Total Phosol	
TSS		
Filtration _____		
☒ Done		
☐ Not needed		
☐ Lab to do		
Preservation		
☐ Lab to do		
(Please specify below)		
Sample Specific Comments		

Please refer to all samples in the GP101 & GP102 as GP101-1 & GP102-1 respectively.

Received By: **9/1/09 1520**

Relinquished By:

Date/Time

Received By:

Date/Time