



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL RETURN RECEIPT REQUESTED

MAY 04 2011

Bruce Howlett, Vice President
John Moriarty & Associates
3 Church Street
Winchester, MA 01890

Re: Authorization to discharge under the Remediation General Permit (RGP) –
MAG910000. Winchester Hospital site located at 620 Washington Street, Winchester,
MA 01890, Middlesex County; Authorization # MAG910382 - Reissuance

Dear Mr. Howlett:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Winchester Hospital by the firm GEI Consultants, Inc., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the checklist does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at: <http://www.epa.gov/region1/npdes/mass.html#dgp>.

Please note the enclosed checklist includes parameters that exceeded Appendix III limits. Also included in the checklist are Polycyclic Aromatic Hydrocarbons (PAHs). These parameters are not in violation of the RGP limits. However, since these were detected in the soils historic data, monitoring requirements and effluent limits have been included. Monitoring is required based on the reasonable potential for PAHs to appear in ground water in the future at levels which may violate RGP limits.

The checklist also includes other parameters for which your laboratory reports indicated there was insufficient sensitivity to detect these parameters at the minimum levels established in Appendix VI of the RGP.

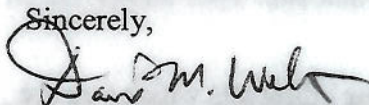
Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations. For each parameter the dilution factor 60 for this site is within a dilution range greater than fifty to one hundred (>50-100), established in the RGP. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limits for arsenic of 500ug/L, trivalent chromium of 1,710ug/L, hexavalent chromium of 570ug/L, copper of 260ug/L, nickel of 1,451ug/L, zinc of 1,480ug/L and iron of 5,000ug/L, are required to achieve permit compliance at your site.

Finally, please note the checklist of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. A recertification can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on March 24, 2012. If for any reason the discharge terminates sooner you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

Thank you in advance for your cooperation in this matter. Please contact Victor Alvarez at 617-918-1572 or Alvarez.Victor@epa.gov, if you have any questions.

Sincerely,



David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP
Anne Leifer, GEI Consultants, Inc.

**2010 Remediation General Permit
Summary of Monitoring Parameters^[1]**

NPDES Authorization Number:	MAG910382 - Reissuance
Authorization Issued:	April, 2011
Facility/Site Name:	Winchester Hospital
Facility/Site Address:	620 Washington Street, Winchester, MA 01890, Middlesex County
	Email of owner: rrobertson@winhosp.com; Phone n:781-756-2997
Legal Name of Operator:	John Moriarty & Associates
Operator contact name, title, and Address:	Bruce Howlett, Vice President, 3 Church Street, Winchester, MA 01890.
	Email: bhowlett@jm-a.com; Telephone: 781-729-3900
Estimated Date of Completion:	March 24, 2012
Category and Sub-Category:	Category III. Contaminated Construction Dewatering. Sub-category B. Known Contaminated Sites
Receiving Water:	Aberjona River

Monitoring & Limits are applicable if checked. All samples are to be collected as grab samples

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
✓	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing **, Me#60.2/ML5ug/L
✓	2. Total Residual Chlorine (TRC) ¹	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
✓	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
✓	4. Cyanide (CN) ^{2, 3}	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 5ug/L
	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) ⁴	100 ug/L/ Me#8260C/ ML 2ug/L
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l/Me#8260C/ML 10ug/L
	12.tert-Butyl Alcohol (TBA)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L

	<u>Parameter</u>	<u>Effluent Limit / Method# / ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	(TertiaryButanol)	
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	14. Naphthalene ⁵	20 ug/L /Me#8260C/ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML 5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
✓	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
✓	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
✓	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML 5ug/L, Me#604 &625/ML 10ug/L
✓	33. Total Phthalates (Phthalate esters) ⁶	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
✓	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L & Me#625/ML 5ug/L
✓	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
✓	a. Benzo(a) Anthracene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	b. Benzo(a) Pyrene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	c. Benzo(b)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	d. Benzo(k)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L,

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
		Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	e. Chrysene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	f. Dibenzo(a,h)anthracene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	g. Indeno(1,2,3-cd) Pyrene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
✓	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
✓	h. Acenaphthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	i. Acenaphthylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	j. Anthracene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	l. Fluoranthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	m. Fluorene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	n. Naphthalene ⁵	20 ug/L / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	o. Phenanthrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
✓	p. Pyrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) ^{8,9}	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	<u>Metal parameter</u>	<u>Total Recoverable Metal Limit @ H ¹⁰ = 50 mg/l CaCO3 for discharges in Massachusetts (ug/l)</u> _{11/12}	<u>Minimum level=ML</u>
		<u>Freshwater</u>	
	39. Antimony	5.6/ML 10	
✓	40. Arsenic **	500/ML20	
	41. Cadmium **	0.2/ML10	
✓	42. Chromium III (trivalent) **	1710/ML15	
✓	43. Chromium VI (hexavalent) **	570/ML10	
✓	44. Copper **	260/ML15	

	Metal parameter	Total Recoverable Metal Limit @ H¹⁰ = 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l) 11/12		Minimum level=ML	
		Freshwater			
	45. Lead **	1.3/ML20			
	46. Mercury **	0.9/ML0.2			
✓	47. Nickel **	1,451/ML20			
	48. Selenium **	5/ML20			
	49. Silver	1.2/ML10			
✓	50. Zinc **	1,480/ML15			
✓	51. Iron	5,000/ML 20			

	Other Parameters	Limit
✓	52. Instantaneous Flow	Site specific in CFS
✓	53. Total Flow	Site specific in CFS
✓	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab ¹³
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab ¹³
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab ¹³
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab ¹⁴
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab ¹⁴
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab ¹⁴
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab ¹⁴
	61. Maximum Change in Temperature in MA - Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab ¹⁴
	62. Maximum Change in Temperature in MA - Any Class SA water body - Coastal	1.5°F; 1/Month/Grab ¹⁴
	63. Maximum Change in Temperature in MA - Any Class SB water body - July to September	1.5°F; 1/Month/Grab ¹⁴
	64. Maximum Change in Temperature in MA -Any Class SB water body - October to June	4°F; 1/Month/Grab ¹⁴

Footnotes:

¹ Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).

² Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.

³ Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).

⁴ BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

⁵ Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.

⁶ The sum of individual phthalate compounds (not including the #34, Bis (2-Ethylhexyl) Phthalate). The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁷ Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

⁸ In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses." Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

⁹ Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).

¹⁰ Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.

¹¹ For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using $DF \times 1,000 \text{ ug/L}$ (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit = $1,000 \times 2 = 2,000 \text{ ug/L}$, etc. not to exceed the DF=5.

¹² Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

¹³ pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

¹⁴ Temperature sampling per Method 170.1



Geotechnical
Environmental
Water Resources
Ecological

March 2, 2011
Project 10095-2

EPA – Region 1
5 Post Office Square
Mail Code OEP06-4
Boston, MA 02109-3912

Dear Sir or Madam:

**Re: Notice of Intent
NPDES Remediation General Permit
Winchester Hospital
620 Washington Street
Winchester, Massachusetts**

On behalf of Winchester Hospital (WH), GEI Consultants, Inc. has prepared this Notice of Intent (NOI) for coverage under the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP), Massachusetts General Permit (MAG910000). This NOI was prepared in accordance with the general requirements of the NPDES RGP under Federal Register, Vol. 70, No. 147, and related guidance documentation provided by the EPA. The completed NOI form is provided in Appendix A.

Site Information

This NOI has been prepared for the management of dewatering operations during construction at 620 Washington Street in Winchester, Massachusetts (the Property; Fig. 1). The Property is bordered by the Aberjona River to the south, Washington Street to the east and by undeveloped land and the Cavalry Cemetery to the north and west (Figs. 1 and 2). In 2011, WH plans to construct an Ambulatory Services Center (ASC) building to the north of the existing building. Future planned construction, pending permitting, includes a parking garage and a medical office building.

The work will occur within the Massachusetts Department of Environmental Protection (DEP) disposal site tracked under Release Tracking Number (RTN) 3-24919 (the Site). Concentrations of trichloroethene (TCE), extractable petroleum hydrocarbon (EPH), polycyclic aromatic hydrocarbons (PAHs), and metals exceeded the applicable Reportable Concentrations for soil category S-1 (RCS-1), as defined by the Massachusetts Contingency Plan (MCP; 310 CMR 40.0315(2)), and required reporting to the DEP on May 31, 2005. Soil and groundwater management activities that are planned at the Site will be conducted as Phase IV response actions as part of a Phase IV Remedy Implementation Plan (RIP).

Discharge and Receiving Surface Water Information

The water collected during construction dewatering activities is expected to contain naturally occurring metals (such as iron and zinc) and may contain low levels of chlorinated solvents (such as TCE) as well as low levels of petroleum-related compounds (such as PAHs or petroleum hydrocarbon fractions) and other metals (arsenic and lead.). On December 9, 2010 a GEI representative collected ground water samples from two monitoring wells on the Property (RWG-104 and RWG-112) near the proposed ASC building to assess the proposed influent. Both water samples were analyzed for the parameters required under the NPDES RGP. In addition, the pH of the proposed influent was measured to evaluate existing conditions. The laboratory data reports for these samples are provided in Appendix B. The analytical results indicated the presence of cyanide, metals (arsenic, iron and zinc) and two chlorinated organic solvents (TCE and cis-1,2-dichloroethene [cis-1,2-DCE]). Although no petroleum hydrocarbons were detected by EPA Method 8100, there is a potential to encounter some petroleum contamination during dewatering based on results from previous soil sampling.

The measured pH of the groundwater at the Property ranged from 5.0 to 6.3 standard units (s.u.). The pH range detected is outside the RGP effluent limit for Massachusetts waters (6.5 to 8.3). Therefore, we request an expanded effluent limit range of 5.0 to 9.0 due to the naturally low pH in groundwater at the Property.

The collected water will be treated to remove suspended solids and, if necessary, volatile organic compounds (VOCs), petroleum-related compounds, and metals prior to discharge via the treatment system shown in the process flow diagram in Fig. 3. The treated water will be discharged to one or more catch basins along Washington Street or via surface piping to the Aberjona River (Fig. 2).

Consultation with Federal Services

GEI reviewed online electronic data viewers and databases from the Massachusetts Geographical Information System (MassGIS) and the Massachusetts Division of Fisheries and Wildlife (MassWildlife; Natural Heritage and Endangered Species Program), and the U.S. National Parks Service Natural Historic Places (NPS). Based on this review, neither the Property nor the point where the proposed discharge reaches the receiving surface water body are Areas of Critical Environmental Concern (ACEC), Habitats of Rare Wetland Wildlife, Habitats of Rare Species or Estimated Habitats of Rare Wildlife or listed as a National Historic Place. Based on this information, consultation with federal and/or state officials was deemed not necessary.

Coverage under NPDES RGP

It is our opinion that the proposed discharge is eligible for coverage under the NPDES RGP based on the requirements of the NPDES RGP and our evaluation of the available site-specific information. On behalf of WH, we are requesting coverage under the NPDES RGP for the discharge of recovered water during construction activities to the surface waters of the Aberjona River directly via surface piping or the Winchester stormwater drainage system.

The enclosed NOI form provides required information on the general site conditions, discharge, treatment system, receiving water, and consultation with federal services (Appendix A). For this project, WH is the owner and has operational control over the construction plans and specifications, including the ability to make modifications to those plans and specifications.

John Moriarty and Associates has been contracted by WH and will direct the personnel responsible for the implementation and day-to-day operations and activities that are necessary to comply with the NPDES RGP, including operation, inspection, monitoring, and reporting.

Discharge of treated water is scheduled to begin as early as March 15, 2011, pending authorization from the EPA.

The excavation and dewatering will be conducted as Phase IV Response Actions under a Phase IV RIP in accordance with the MCP (310 CMR 40.0000). Therefore, completion and submittal of the DEP Bureau of Resource Protection Water Management (BRP WM) 12 form and fee payment to the Commonwealth of Massachusetts are not required.

Please contact me at 781.721.4066 or aleifer@geiconsultants.com if you have any questions.

Very truly yours,

GEI CONSULTANTS, INC.

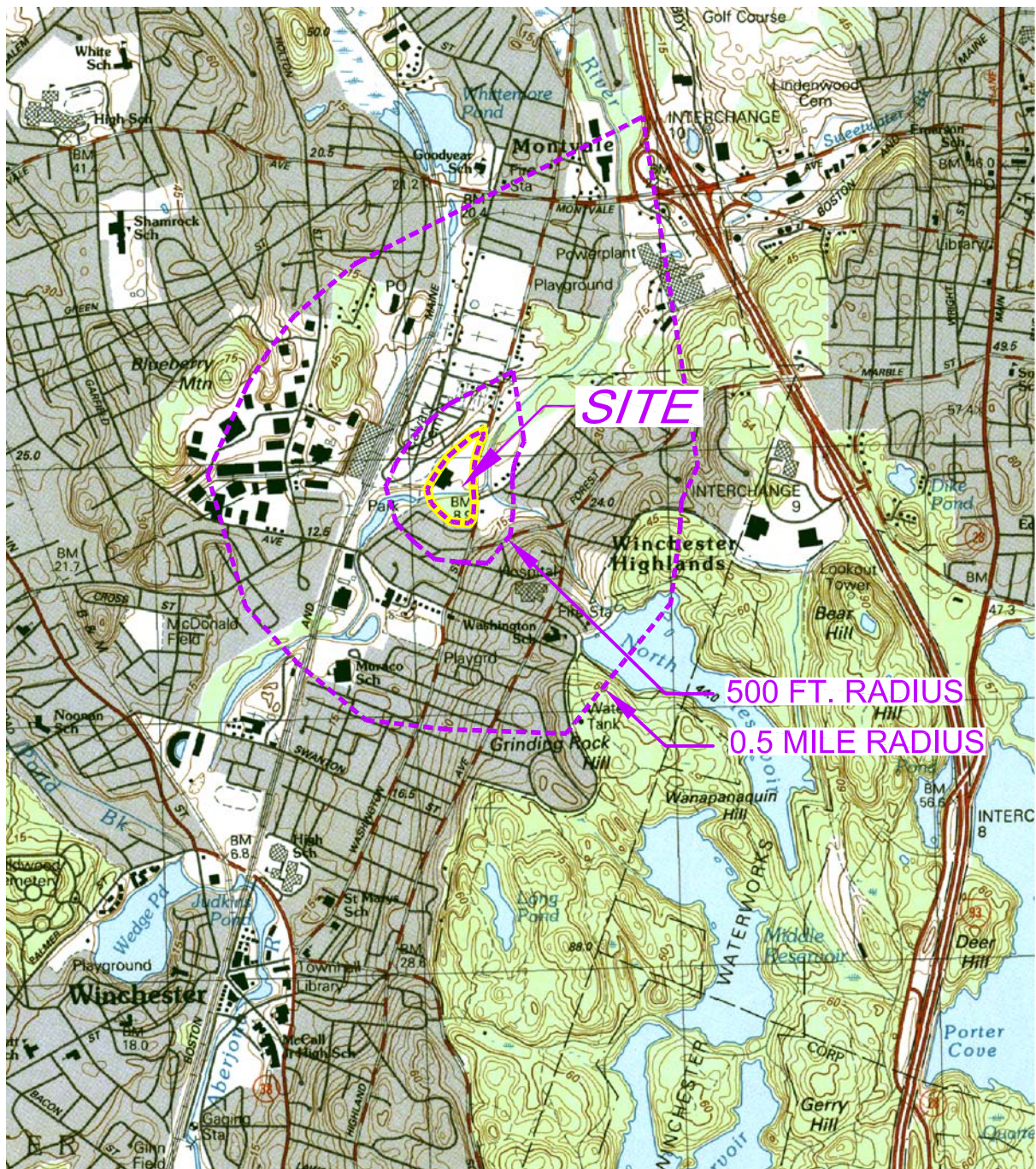


Anne Leifer, P.G., LSP
Project Manager

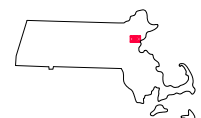
CMM/ALL:jam

Enclosures

c: Ms. Mary Ellen Lannon, Acting Winchester Town Manager
Ms. Jennifer Murphy, Winchester Board of Health
Ms. Elaine Vreeland, Winchester Conservation Commission



This Image provided by MassGIS is taken from
 U.S.G.S. Topographic 7.5 X 15 Minute Series
 Boston North Quadrangle, 1985.
 Datum is National Geodetic Vertical Datum (NGVD).
 Contour Interval is 3 Meters.



MASSACHUSETTS
 QUADRANGLE LOCATION

RGP Notice of Intent
 620 Washington Street
 Winchester, Massachusetts

Winchester Hospital
 Winchester, Massachusetts

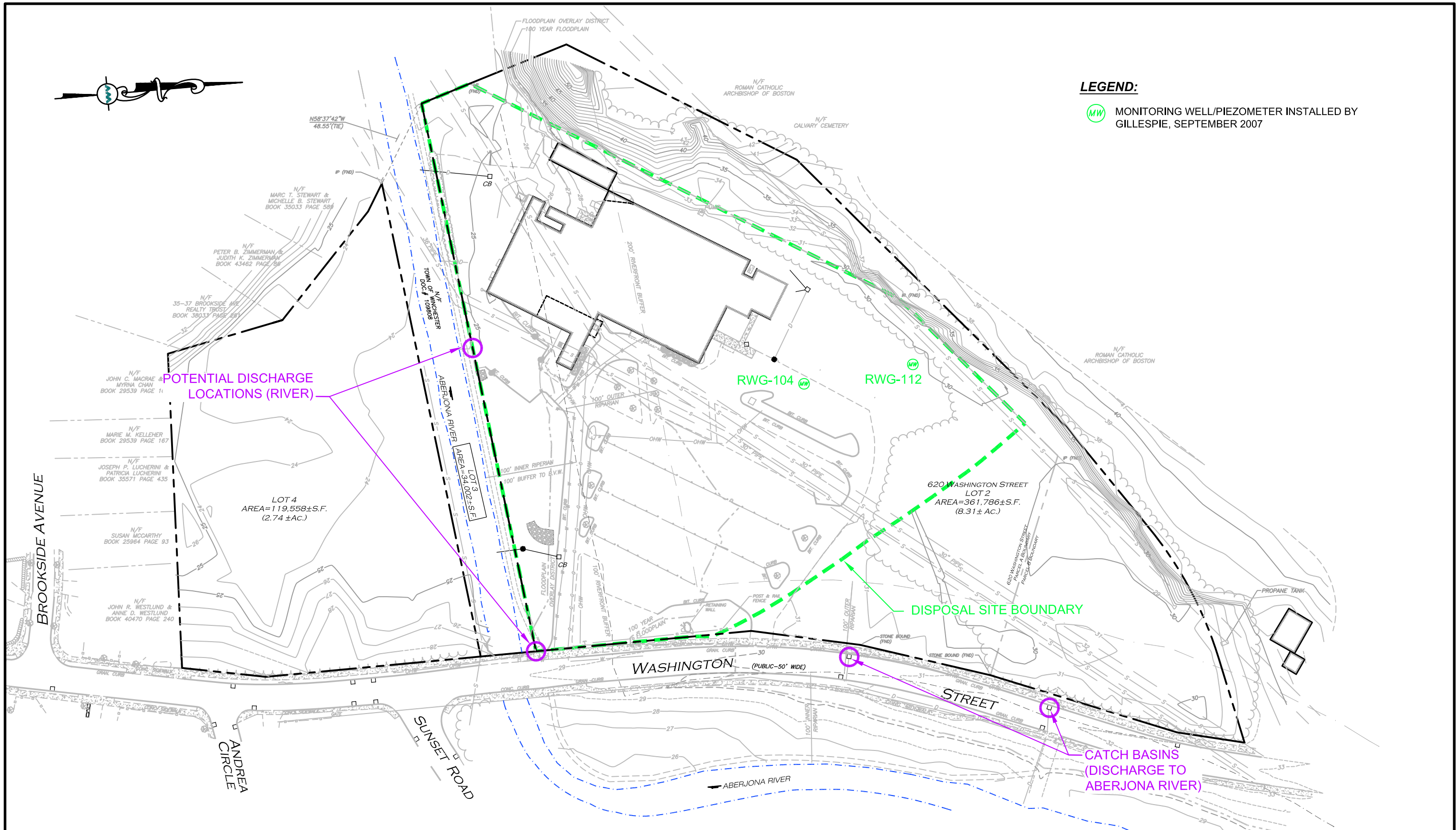


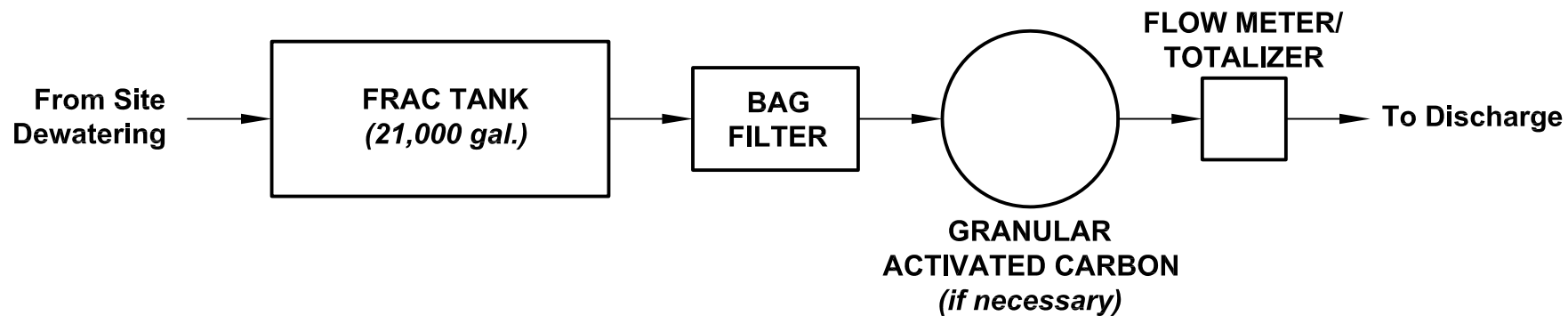
Project 10095-2

SITE LOCATION MAP

March 2011

Fig. 1





PROCESS FLOW DIAGRAM

Not to Scale

RGP Notice of Intent
Winchester Hospital Redevelopment
620 Washington Street

Winchester Hospital
Winchester, Massachusetts



Project 10095-2

PROCESS FLOW DIAGRAM

March 2011

Fig. 3

Appendix A

Remediation General Permit Notice of Intent

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit**1. General facility/site information.** Please provide the following information about the site:

a) Name of facility/site : Winchester Hospital		Facility/site mailing address:	
Location of facility/site :	Facility SIC code(s):	Street:	
longitude: 70, 874	8062	620 Washington Street	
latitude: 42, 472			
b) Name of facility/site owner : Winchester Hospital		Town: Winchester	
Email address of facility/site owner : rrobertson@winhosp.com		State:	Zip:
		MA	01890
Telephone no. of facility/site owner : 781-756-2511		County: Middlesex	
Fax no. of facility/site owner : 781-756-2997		Owner is (check one): 1. Federal ☐ 2. State/Tribal ☐	
Address of owner (if different from site):		3. Private ☒ 4. Other ☐ if so, describe:	
Street: 41 Highland Avenue			
Town: Winchester	State: MA	Zip: 01890	County: Middlesex
c) Legal name of operator :		Operator telephone no: 781-729-3900	
John Moriarty & Associates		Operator fax no.: 781-729-8456	Operator email: bhowlett@jm-a.com
Operator contact name and title: Bruce Howlett, Vice President			
Address of operator (if different from owner):		Street: 3 Church Street	
Town: Winchester	State: MA	Zip: 01890	County: Middlesex

d) Check Y for "yes" or N for "no" for the following:

1. Has a prior NPDES permit exclusion been granted for the discharge? Y ☐ N ☒, if Y, number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge?
Y ☒ N ☐, if Y, date and tracking #: MAG910382, Sept. 25, 2008
3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Y ☒ N ☐
4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y ☒ N ☐

e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y ☒ N ☐

If Y, please list:

1. site identification # assigned by the state of NH or MA: MA
2. permit or license # assigned: RTN 3-24919
3. state agency contact information: name, location, and telephone number:

MassDEP, NERO
Wilmington, MA
978-694-3200

f) Is the site/facility covered by any other EPA permit, including:

1. Multi-Sector General Permit? Y ☐ N ☒,
if Y, number:
2. Final Dewatering General Permit? Y ☐ N ☒,
if Y, number:
3. EPA Construction General Permit? Y ☐ N ☒,
if Y, number:
4. Individual NPDES permit? Y ☐ N ☒,
if Y, number:
5. any other water quality related individual or general permit? Y ☐ N ☒, if Y, number:

g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y ☐ N ☒

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

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

IV - Miscellaneous Related Discharges

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

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

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

Discharge of water recovered during construction-related dewatering and construction stormwater management.

b) Provide the following information about each discharge:

- 1) Number of discharge points: 2
- 2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft³/s)?
 Max. flow 0.167 Is maximum flow a **design value**? Y ☐ N ☒
 Average flow (include units) 0.112 Is average flow a design value or estimate? estimate

3) Latitude and longitude of each discharge within 100 feet:

pt.1: lat. <u>42.4706</u>	long. <u>-71.1242</u>	pt.2: lat. <u>42.4706</u>	long. <u>-71.1232</u>	:
pt.3: lat. <u></u>	long. <u></u>	pt.4: lat. <u></u>	long. <u></u>	:
pt.5: lat. <u></u>	long. <u></u>	pt.6: lat. <u></u>	long. <u></u>	:
pt.7: lat. <u></u>	long. <u></u>	pt.8: lat. <u></u>	long. <u></u>	:
				etc.

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

5) Is the discharge intermittent ☒ or seasonal ☐?
 Is discharge ongoing? Y ☐ N ☒

c) Expected dates of discharge (mm/dd/yy): start Mar 24, 2011 end Mar 24, 2012

d) Please attach a line drawing or flow schematic showing water flow through the facility including:

1. sources of intake water. 2. contributing flow from the operation. 3. treatment units. and 4. discharge points and receiving waters(s) See attached figures

3. Contaminant information.

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

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
1. Total Suspended Solids (TSS)		☐	☒	2	grab	SM2540D	5 mg/L	11,000	3,128	6,500	1,232
2. Total Residual Chlorine (TRC)		☒	☐	2	grab	M4500-CL G	10 ug/L	<100.0	<28.30	<50.0	<18.87
3. Total Petroleum Hydrocarbons (TPH)		☒	☐	2	grab	1664	5 mg/L	<5400.00	<1528.37	<2.6	<490.59
4. Cyanide (CN)	57125	☐	☒	2	grab	SM4500-CN	5 ug/L	17.0	4.81	<11.0	<2.08
5. Benzene (B)	71432	☒	☐	2	grab	SW8260B	2 ug/L	<1.0	<0.29	<0.5	<0.09
6. Toluene (T)	108883	☒	☐	2	grab	SW8260B	2 ug/L	<2.0	<0.57	<1.0	<0.19
7. Ethylbenzene (E)	100414	☒	☐	2	grab	SW8260B	2 ug/L	<2.0	<0.57	<1.0	<0.19
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☒	☐	2	grab	SW8260B	4 ug/L	<2.0	<0.57	<1.0	<0.19
9. Total BTEX ²	n/a	☒	☐	2	grab	SW8260B	2 ug/L	<2.0	<0.57	<1.0	<0.19
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934	☒	☐	2	grab	SW8260B	10 ug/L	<2.0	<0.57	<1.0	<0.19
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	2	grab	SW8260B	10 ug/L	<2.0	<0.57	<1.0	<0.19
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	2	grab	SW8260B	10 ug/L	<10.0	<2.83	<5.0	<0.94

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

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

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

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
13. tert-Amyl Methyl Ether (TAME)	9940508	☒	☐	2	grab	SW8260B	10 ug/L	<2.0	<0.57	<1.0	<0.19
14. Naphthalene	91203	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.01
15. Carbon Tetrachloride	56235	☒	☐	2	grab	SW8260B	5 ug/L	<2.0	<0.57	<1.0	<0.19
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	2	grab	SW8260B	5 ug/L	<2.0	<0.57	<1.0	<0.19
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	2	grab	SW8260B	5 ug/L	<2.0	<0.57	<1.0	<0.19
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	2	grab	SW8260B	5 ug/L	<2.0	<0.57	<1.0	<0.19
18a. Total dichlorobenzene		☒	☐	2	grab	SW8260B	5 ug/L	<2.0	<0.57	<1.0	<0.19
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	2	grab	SW8260B	5 ug/L	<2.0	<0.57	<1.0	<0.19
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	2	grab	SW8260B	5 ug/L	<2.0	<0.57	<1.0	<0.19
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	2	grab	SW8260B	5 ug/L	<1.0	<0.28	<0.05	<0.01
22. cis-1,2 Dichloroethene (DCE)	156592	☐	☒	2	grab	SW8260B	5 ug/L	6.6	1.87	<3.8	<0.72
23. Methylene Chloride	75092	☒	☐	2	grab	SW8260B	5 ug/L	<5.0	<1.42	<2.5	<0.47
24. Tetrachloroethene (PCE)	127184	☒	☐	2	grab	SW8260B	5 ug/L	<2.0	<0.57	<1.0	<0.19
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	2	grab	SW8260B	5 ug/L	<2.0	<0.57	<1.0	<0.19
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	2	grab	SW8260B	5 ug/L	<2.0	<0.57	<1.0	<0.19
27. Trichloroethene (TCE)	79016	☐	☒	2	grab	SW8260B	5 ug/L	3.4	0.96	<2.2	<0.42

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	2	grab	SW8260B	5 ug/L	<2.0	<0.57	<1.0	<0.19
29. Acetone	67641	☒	☐	2	grab	SW8260B	50 ug/L	<10.0	<2.83	<5.0	<0.94
30. 1,4 Dioxane	123911	☒	☐	2	grab	SW8260B	50 ug/L	<50.0	<14.15	<25.0	<4.72
31. Total Phenols	108952	☒	☐	2	grab	420.1	50 ug/L	<50.0	<14.15	<25.0	<4.72
32. Pentachlorophenol (PCP)	87865	☒	☐	2	grab	8270C	5 ug/L	<21.0	<5.49	<10.25	<1.93
33. Total Phthalates (Phthalate esters) ⁴		☒	☐	2	grab	8270C	5 ug/L	<11.0	<3.11	<5.25	<0.99
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	2	grab	8270C	5 ug/L	<5.3	<1.50	<2.6	<0.49
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
a. Benzo(a) Anthracene	56553	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
b. Benzo(a) Pyrene	50328	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
c. Benzo(b)Fluoranthene	205992	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
d. Benzo(k)Fluoranthene	207089	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
e. Chrysene	21801	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
f. Dibenzo(a,h)anthracene	53703	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

⁴ The sum of individual phthalate compounds.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
h. Acenaphthene	83329	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
i. Acenaphthylene	208968	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
j. Anthracene	120127	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
k. Benzo(ghi) Perylene	191242	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
l. Fluoranthene	206440	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
m. Fluorene	86737	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
n. Naphthalene	91203	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
o. Phenanthrene	85018	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
p. Pyrene	129000	☒	☐	2	grab	SIM	0.1 ug/L	<0.11	<0.031	<0.0525	<0.009
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	2	grab	608	0.5 ug/L	<0.22	<0.062	<0.105	<0.198
38. Chloride	16887006	☐	☒	2	grab	300.0	0.1 ug/L	18,000	5094.57	13,900	2622.76
39. Antimony	7440360	☒	☐	2	grab	200.9	3 ug/L	<5.0	<1.42	<2.5	<0.05
40. Arsenic	7440382	☐	☒	2	grab	200.9	3 ug/L	120	33.96	2.2	0.42
41. Cadmium	7440439	☒	☐	2	grab	200.9	0.5 ug/L	<1.0	<0.28	<0.5	<0.09
42. Chromium III (trivalent)	16065831	☒	☐	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
43. Chromium VI (hexavalent)	18540299	☒	☐	2	grab	M3500CR	0.01 ug/L	<2500	<707.58	<1,250	<235.86
44. Copper	7440508	☒	☐	2	grab	200.7	15 ug/L	<25	<7.08	<12.5	<2.36
45. Lead	7439921	☒	☐	2	grab	200.9	3 ug/L	<2.0	<0.57	<1.0	<0.19
46. Mercury	7439976	☒	☐	2	grab	245.1	0.2 ug/L	<0.20	<0.06	<0.10	<0.02
47. Nickel	7440020	☒	☐	2	grab	200.7	20 ug/L	<40	<11.32	<20	<3.77
48. Selenium	7782492	☒	☐	2	grab	200.9	5 ug/L	<5.0	<1.42	<2.5	<0.05
49. Silver	7440224	☒	☐	2	grab	200.9	1 ug/L	<1.0	<0.28	<0.5	<0.09
50. Zinc	7440666	☐	☒	2	grab	200.7	15 ug/L	88	24.91	44	8.30
51. Iron	7439896	☐	☒	2	grab	200.7	20 ug/L	5,500	1556.67	570	107.55
Other (describe):		☐	☐								

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
		☐	☐								
		☐	☐								

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

Step 1: Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y ☒ N ☐		If yes, which metals? As, Fe, Ni, Pb, Cu, Cd	
Step 2: For any metals which exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals?		Look up the limit calculated at the corresponding dilution factor in Appendix IV . Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ☒ N ☐ If Y, list which metals:	
Metal: As DF: 500 Metal: Fe DF: 5000 Metal: Ni DF: 1451 Metal: Pb DF: 66 Etc.	Metal: Cu DF: 260 Metal: Cd DF: 10.0	Fe	

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 ☐	De-chlorination ☐	Other (please describe):			

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate(s)** (gallons per minute) of the treatment system:

Average flow rate of discharge 50 gpm Maximum flow rate of treatment system 75 gpm
Design flow rate of treatment system 75 gpm

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

N/A

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

a) Identify the discharge pathway:	Direct to receiving water ☒	Within facility (sewer) ☐	Storm drain ☒	Wetlands ☐	Other (describe): <u></u>
------------------------------------	---	--	---	-----------------------------------	------------------------------

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

Discharge will be through off-site catch basins to the Aberjona River or by surface pipe direct to Aberjona river.

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 B

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 9.8 cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y ☒ N ☐ If yes, for which pollutant(s)?

Is there a final TMDL? Y ☐ N ☒ If yes, for which pollutant(s)?

6. ESA and NHPA Eligibility.

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

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

A ☐ B ☐ C ☐ D ☐ E ☐ F ☐

b) If you selected Criterion D or F, has consultation with the federal services been completed? Y ☐ N ☐ Underway ☐

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

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

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

1 ☐ 2 ☐ 3 ☐

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

7. Supplemental information.

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

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

BY PROJECT ENGINEER WITH MY PARTICIPATION

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:	620 Washington Street
Operator signature:	<i>Bruce Howel</i> — VICE PRESIDENT
Printed Name & Title:	John Moriarty & Associates - Operator
Date:	2 / 22 / 11

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:	620 Washington Street
Operator signature:	
Printed Name & Title:	Winchester Hospital - Owner <i>William J. Kingston Jr. Vice President Facilities & Real Estate</i>
Date:	<i>2/20/11</i>

Appendix B

Laboratory Data Report



111 Herrick Street, Merrimack, NH 03054
TEL: (603) 424-2022 • FAX: (603) 429-8496
www.amrolabs.com

December 30, 2010

ANALYTICAL TEST RESULTS

Raymond Siegener
GEI Consultants, Inc.
400 Unicorn Park Drive
Woburn, MA 01801
TEL: (781) 721-4098
FAX: (781) 721-4073

Subject: 100950 620 Washington St.

Workorder No.: 1012028

Dear Raymond Siegener:

AMRO Environmental Laboratories Corp. received 4 samples on 12/9/2010 for the analyses presented in the following report.

AMRO is accredited in accordance with NELAC and certifies that these test results meet all the requirements of NELAC, where applicable, unless otherwise noted in the case narrative.

The enclosed Sample Receipt Checklist details the condition of your sample(s) upon receipt. Please be advised that any unused sample volume and sample extracts will be stored for a period of 60 days from sample receipt date (90 days for samples from New York). After this time, AMRO will properly dispose of the remaining sample(s). If you require further analysis, or need the samples held for a longer period, please contact us immediately.

This report consists of a total of 19 pages. This letter is an integral part of your data report. All results in this project relate only to the sample(s) as received by the laboratory and documented in the Chain-of-Custody. This report shall not be reproduced except in full, without the written approval of the laboratory. If you have any questions regarding this project in the future, please refer to the Workorder Number above.

Sincerely,

Nancy Stewart
Vice President

State Certifications: NH (NELAC): 1001, MA: M-NH012, CT: PH-0758, NY: 11278 (NELAC), ME: NH012 and 1001.

Hard copy of the State Certification is available upon request.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.
Project: 100950 620 Washington St.
Lab Order: 1012028
Date Received: 12/9/2010

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Collection Date	Collection Time
1012028-01A	100950-RWG-104	12/9/2010	9:28 AM
1012028-01B	100950-RWG-104	12/9/2010	9:28 AM
1012028-01C	100950-RWG-104	12/9/2010	9:28 AM
1012028-01D	100950-RWG-104	12/9/2010	9:28 AM
1012028-01E	100950-RWG-104	12/9/2010	9:28 AM
1012028-01F	100950-RWG-104	12/9/2010	9:28 AM
1012028-01G	100950-RWG-104	12/9/2010	9:28 AM
1012028-01H	100950-RWG-104	12/9/2010	9:28 AM
1012028-01I	100950-RWG-104	12/9/2010	9:28 AM
1012028-02A	100950-RWG-112	12/9/2010	10:40 AM
1012028-02B	100950-RWG-112	12/9/2010	10:40 AM
1012028-02C	100950-RWG-112	12/9/2010	10:40 AM
1012028-02D	100950-RWG-112	12/9/2010	10:40 AM
1012028-02E	100950-RWG-112	12/9/2010	10:40 AM
1012028-02F	100950-RWG-112	12/9/2010	10:40 AM
1012028-02G	100950-RWG-112	12/9/2010	10:40 AM
1012028-02H	100950-RWG-112	12/9/2010	10:40 AM
1012028-02I	100950-RWG-112	12/9/2010	10:40 AM
1012028-03A	100950-RWG-104	12/9/2010	9:28 AM
1012028-04A	100950-RWG-112	12/9/2010	10:40 AM

AMRO Environmental Laboratories Corp.

30-Dec-10

Lab Order: 1012028

Client: GEI Consultants, Inc.

Project: 100950 620 Washington St.

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Analytical Test Name Preparatory Test Name	Prep Date	Analysis Date Batch ID	TCLP Date
1012028-01A	100950-RWG-104	12/9/2010 9:28:00 AM	Groundwater	MCP VOCs 8260B, EPA 5030B EPA 5030B	12/9/2010	12/10/2010 R45912	
1012028-01B				Ion Chromatography, EPA 300		12/10/2010 R45953	
				Ion Chromatography, EPA 300		12/10/2010 R45953	
				SM 3500D Hexavalent Chromium		12/9/2010 R45934	
				SM 4500G Chlorine, Total Residual (modified)		12/9/2010 R45933	
				Standard Methods - Total Suspended Solids		12/9/2010 R45937	
1012028-01C				SM 3500D Hexavalent Chromium		12/9/2010 R45934	
1012028-01D				MCP SVOCs 8270C, EPA 3510 EPA 3510 AQPREP SEP FUNNEL: BNA	12/15/2010	12/15/2010 20918	
				PAH BY EPA 8270C SIM		12/16/2010 20918	
1012028-01E				EPA 608 PCBs in Wastewater EPA 608 AQPREP SEP FUNNEL: PCB	12/13/2010	12/13/2010 20902	
1012028-01F				TPH, EPA 1664		12/16/2010 R45946	
1012028-01G				EPA 420.1 Phenol, Total		12/17/2010 R45948	

AMRO Environmental Laboratories Corp.

30-Dec-10

Lab Order: 1012028

Client: GEI Consultants, Inc.

Project: 100950 620 Washington St.

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Analytical Test Name Preparatory Test Name	Prep Date	Batch ID	Analysis Date TCLP Date
1012028-01H	100950-RWG-104	12/9/2010 9:28:00 AM	Groundwater	EPA 200.7 ICP METALS, TOTAL 200 Series Prep: ICP/GFAA	12/14/2010	20913	12/14/2010
				EPA 200.9 ARSENIC, Total	12/14/2010	20913	12/20/2010
				EPA 200.9 LEAD, Total	12/14/2010	20913	12/21/2010
				EPA 200.9 SELENIUM, Total	12/14/2010	20913	12/20/2010
				EPA 200.9 ANTIMONY, Total	12/14/2010	20913	12/21/2010
				EPA 200.9 CADMIUM, Total	12/14/2010	20913	12/21/2010
				EPA 200.9 SILVER, Total	12/14/2010	20913	12/20/2010
				200 Series Prep: ICP/GFAA	12/14/2010	20913	12/16/2010
				EPA 245.1 MERCURY, Total	12/15/2010	20921	12/16/2010
				MERCURY PREP: EPA 245.1/7040	12/15/2010	20921	12/16/2010
1012028-01I				Standard Methods - Cyanide, Total		R45954	12/16/2010
1012028-02A	100950-RWG-112	12/9/2010 10:40:00 AM		MCP VOCs 8260B, EPA 5030B	12/9/2010	R45912	12/10/2010
				EPA 5030B	12/9/2010	R45912	12/10/2010
1012028-02B				Ion Chromatography, EPA 300		R45953	12/10/2010
				Ion Chromatography, EPA 300		R45953	12/10/2010

AMRO Environmental Laboratories Corp.

30-Dec-10

DATES REPORT

Lab Order: 1012028

Client: GEI Consultants, Inc.

Project: 100950 620 Washington St.

Sample ID	Client Sample ID	Collection Date	Matrix	Analytical Test Name Preparatory Test Name	Prep Date	Analysis Date Batch ID	TCLP Date
1012028-02B	100950-RWG-112	12/9/2010 10:40:00 AM	Groundwater	SM 3500D Hexavalent Chromium		12/9/2010 R45934	
				SM 4500G Chlorine, Total Residual (modified)		12/9/2010 R45933	
				Standard Methods - Total Suspended Solids		12/9/2010 R45937	
1012028-02C				SM 3500D Hexavalent Chromium		12/9/2010 R45934	
1012028-02D				MCP SVOCs 8270C, EPA 3510 EPA 3510 AQPREP SEP FUNNEL: BNA	12/15/2010	12/15/2010 20918	
				PAH BY EPA 8270C SIM	12/15/2010	12/16/2010 20918	
1012028-02E				EPA 608 PCBs in Wastewater EPA 608 AQPREP SEP FUNNEL: PCB	12/13/2010	12/13/2010 20902	
1012028-02F				TPH, EPA 1664		12/16/2010 R45946	
1012028-02G				EPA 420.1 Phenol, Total		12/17/2010 R45948	
1012028-02H				EPA 200.7 ICP METALS, TOTAL 200 Series Prep: ICP/GFAA	12/14/2010	12/14/2010 20913	
				EPA 200.9 ARSENIC, Total	12/14/2010	12/20/2010 20913	
				EPA 200.9 LEAD, Total	12/14/2010	12/21/2010 20913	

AMRO Environmental Laboratories Corp.

30-Dec-10

DATES REPORT

Lab Order: 1012028

Client: GEI Consultants, Inc.

Project: 100950 620 Washington St.

Sample ID	Client Sample ID	Collection Date	Matrix	Analytical Test Name Preparatory Test Name	Prep Date	Batch ID	Analysis Date TCLP Date
1012028-02H	100950-RWG-112	12/9/2010 10:40:00 AM	Groundwater	EPA 200.9 SELENIUM, Total 200 Series Prep: ICP/GFAA	12/14/2010	20913	12/20/2010
				EPA 200.9 ANTIMONY, Total	12/14/2010	20913	12/21/2010
				EPA 200.9 CADMIUM, Total		R45975	12/21/2010
				EPA 200.9 SILVER, Total 200 Series Prep: ICP/GFAA	12/14/2010	20913	12/20/2010
				EPA 245.1 MERCURY, Total MERCURY PREP: EPA 245.1/7040	12/15/2010	20921	12/15/2010
1012028-02I				Standard Methods - Cyanide, Total		R45954	12/16/2010
1012028-03A	100950-RWG-104	12/9/2010 9:28:00 AM		EPA 200.7 ICP METALS, DISSOLVED 200 Series Prep: ICP/GFAA	12/14/2010	20913	12/14/2010
				EPA 200.9 ARSENIC, Dissolved	12/14/2010	20930	12/20/2010
				EPA 200.9 ARSENIC, Dissolved 200 Series Prep: ICP/GFAA	12/14/2010	20913	12/20/2010
				EPA 200.9 ARSENIC, Dissolved	12/14/2010	20930	12/20/2010
				EPA 200.9 LEAD, Dissolved 200 Series Prep: ICP/GFAA	12/14/2010	20913	12/21/2010
				EPA 200.9 ANTIMONY, Dissolved	12/14/2010	20913	12/21/2010

AMRO Environmental Laboratories Corp.

30-Dec-10

Lab Order: 1012028

Client: GEI Consultants, Inc.

Project: 100950 620 Washington St.

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Analytical Test Name	Prep Date	Batch ID	Analysis Date	TCLP Date
1012028-03A	100950-RWG-104	12/9/2010 9:28:00 AM	Groundwater	EPA 200.9 CADMIUM, Dissolved		12/21/2010		
						R45975		
				EPA 200.9 SILVER, Dissolved		12/20/2010		
				200 Series Prep: ICP/GFAA	12/14/2010	20913		
				EPA 245.1 MERCURY, Dissolved		12/16/2010		
				MERCURY PREP: EPA 245.1/7040	12/15/2010	20921		
				EPA 270.2 SELENIUM, Dissolved		12/20/2010		
				200 Series Prep: ICP/GFAA	12/14/2010	20913		
1012028-04A	100950-RWG-112	12/9/2010 10:40:00 AM		EPA 200.7 ICP METALS, DISSOLVED		12/14/2010		
						20913		
				EPA 200.9 ARSENIC, Dissolved		12/20/2010		
					12/14/2010	20930		
				EPA 200.9 ARSENIC, Dissolved		12/20/2010		
					12/14/2010	20930		
				EPA 200.9 ARSENIC, Dissolved		12/22/2010		
				200 Series Prep: ICP/GFAA	12/14/2010	20913		
				EPA 200.9 LEAD, Dissolved		12/21/2010		
					12/14/2010	20913		
				EPA 200.9 ANTIMONY, Dissolved		12/21/2010		
					12/14/2010	20913		
				EPA 200.9 CADMIUM, Dissolved		12/21/2010		
						R45975		
				EPA 200.9 SILVER, Dissolved		12/20/2010		
				200 Series Prep: ICP/GFAA	12/14/2010	20913		

AMRO Environmental Laboratories Corp.

30-Dec-10

Lab Order: 1012028

Client: GEI Consultants, Inc.

Project: 100950 620 Washington St.

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Analytical Test Name Preparatory Test Name	Prep Date	Batch ID	Analysis Date TCLP Date
1012028-04A	100950-RWG-112	12/9/2010 10:40:00 AM	Groundwater	EPA 245.1 MERCURY, Dissolved MERCURY PREP: EPA 245.1/7040	12/15/2010	20921	12/16/2010
				EPA 270.2 SELENIUM, Dissolved 200 Series Prep: IC/P/GFAA	12/14/2010	20913	12/20/2010

SAMPLE RECEIPT CHECKLIST

111 Herrick Street
Merrimack, NH 03054
(603) 424-2022

Client: <u>CEI</u>		AMRO ID: <u>1012-028</u>	
Project Name: <u>1020 Washington St</u>		Date Rec.: <u>12-9-10</u>	
Ship via: (circle one) Fed Ex, <u>UPS</u> , AMRO Courier.		Date Due: <u>12-16-10</u>	
Hand Del., Other Courier, Other:			

Items to be Checked Upon Receipt	Yes	No	NA	Comments
1. Army Samples received in individual plastic bags?			✓	
2. Custody Seals present?			✓	
3. Custody Seals intact?			✓	
4. Air Bill included in folder if received?			✓	
5. Is COC included with samples?	✓			
6. Is COC signed and dated by client?	✓			
7. Laboratory receipt temperature.				
Samples rec. with ice <u>X</u> ice packs <u> </u> neither <u> </u> TEMP = <u>6°</u>				
8. Were samples received the same day they were sampled?	✓			
Is client temperature = or <6°C ?				
If no obtain authorization from the client for the analyses.				
Client authorization from: Date: Obtained by:				
9. Is the COC filled out correctly and completely?	✓			
10. Does the info on the COC match the samples?	✓			
11. Were samples rec. within holding time?	✓			
12. Were all samples properly labeled?	✓			
13. Were all samples properly preserved?	✓			
14. Were proper sample containers used?	✓			
15. Were all samples received intact? (none broken or leaking)	✓			
16. Were VOA vials rec. with no air bubbles?	✓			
17. Were the sample volumes sufficient for requested analysis?	✓			
18. Were all samples received?	✓			
19. VPH and VOA Soils only:				
Sampling Method VPH (circle one): M=Methanol, E=EnCore (air-tight container)				
Sampling Method VOA (circle one): M=Methanol, SB=Sodium Bisulfate, E=EnCore, B=Bulk				
If M or SB:				
Does preservative cover the soil?				
If NO then client must be faxed.				
Does preservation level come close to the fill line on the vial?				
If NO then client must be faxed.				
Were vials provided by AMRO?				
If NO then weights MUST be obtained from client				
Was dry weight aliquot provided?				
If NO then fax client and inform the VOA lab ASAP.				
20. Subcontracted Samples:				
What samples sent:				
Where sent:				
Date:				
Analysis:				
TAT:				
21. Information entered into:				
Internal Tracking Log?				
Dry Weight Log?				
Client Log?				
Composite Log?				
Filtration Log?				

Received By: <u>MB</u>	Date: <u>12-9-10</u>	Logged in By: <u>MB</u>	Date: <u>12-9-10</u>
Labeled By: <u>MM</u>	Date: <u>12-9-10</u>	Checked By: <u>MM</u>	Date: <u>12-9-10</u>

Please Circle if:

Sample= Soil

Sample= Waste

AMRO ID: 1012028

[illegible]

= if the laboratory preserves the drinking water sample (s) for EPA Method 200 series, sample (s) should be held at least 6 hours prior to analysis or 24 hours for water sample (s).

H Checked By: MM Date: 12-9-10 pH adjusted By: _____ Date: _____

H Checked By: _____ Date: _____ pH adj. (16 or 24hrs) By: _____ Date: _____
qc/qcmemos/forms/samplerrec Rev. 19 04/20/09

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.
Project: 100950 620 Washington St.
Lab Order: 1012028

CASE NARRATIVE**GC/MS VOLATILES:WATER:**

1. A Laboratory Control Sample (LCS) and Laboratory Sample Duplicate (LCSD) were performed on 12/10/10 (Batch ID:R45912).

- 1.1 The % Recovery for 4 analytes out of 68 analytes in the LCS was outside the control limits.
- 1.2 The % Recovery for 4 analytes out of 68 analytes in the LCSD was outside the control limits.
- 1.3 The % RPD for 3 analytes out of 68 analytes was outside the control limits

2. A quadratic regression was used for Bromoform, Bromobenzene, O-xylene, and Styrene in the Initial Calibration analyzed on 12/09/10.

GC/MS SEMIVOLATILES:

1. A Laboratory Control Sample (LCS) and Laboratory Sample Duplicate (LCSD) were performed on Batch ID: 20918:

- 1.1 The %Recovery for 2 analytes out of 57 analytes in the LCS was outside the control limits.
- 1.2 The %Recovery for 1 analyte out of 57 analytes in the LCSD was outside the control limits.
- 1.3 The %RPD for 1 analyte out of 57 analytes was outside the control limits.

GC/MS SEMIVOLATILES:PAH SIM:

1. A Laboratory Control Sample (LCS) and Laboratory Sample Duplicate (LCSD) were performed on Batch ID: 20918:

- 1.1 The %Recovery for 2 analytes out of 17 analytes in the LCS was outside the control limits.
- 1.2 The %Recovery for 2 analytes out of 17 analytes in the LCSD was outside the control limits.

PCBs:

1. No QC deviations were noted.

METALS:

- 1. The batch QC was done on AMRO # 1012028-01 (100950-RWG-104).
- 2. The Duplicate %RPD for Iron was slightly high at 21.7%.

CLIENT: GEI Consultants, Inc.
Project: 100950 620 Washington St.
Lab Order: 1012028

CASE NARRATIVE

3. No other QC deviations were noted.

WET CHEMISTRY:

1. No QC deviations were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name: AMRO Environmental Lab. Corp.

Project #: 100950

Project Location: 620 Washington St

RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
1012028-01 → 04

Matrices: ☒ Groundwater ☐ Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A ☒	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B ☒	7010 Metals CAM III C	MassDEP EPH CAM IV B	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
6010 Metals CAM III A	6020 Metals CAM III D	8082 PCB CAM V A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

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

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☒ Yes ☐ No ¹
---	---	--

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ☒ No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☒ Yes ☐ No ¹

¹All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Nancy Stewart

Position: Vice President

Printed Name: Nancy Stewart

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Date: 1-3-11

DATA COMMENT PAGE

Organic Data Qualifiers

ND	Indicates compound was analyzed for, but not detected at or above the reporting limit.
J	Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than the method detection limit.
H	Method prescribed holding time exceeded.
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
B	This flag is used when the analyte is found in the associated blank as well as in the sample.
R	RPD outside accepted recovery limits
RL	Reporting limit; defined as the lowest concentration the laboratory can accurately quantitate.
S	Spike Recovery outside accepted recovery limits.
#	See Case Narrative

Micro Data Qualifiers

TNTC	Too numerous to count
------	-----------------------

Inorganic Data Qualifiers

ND or U	Indicates element was analyzed for, but not detected at or above the reporting limit.
J	Indicates a value greater than or equal to the method detection limit, but less than the quantitation limit.
H	Indicates analytical holding time exceedance.
B	Indicates that the analyte is found in the associated blank, as well as in the sample.
MSA	Indicates value determined by the Method of Standard Addition
E	This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
R	RPD outside accepted recovery limits
RL	Reporting limit; defined as the lowest concentration the laboratory can accurately quantitate.
S	Spike Recovery outside accepted recovery limits.
W	Post-digestion spike for Furnace AA analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
*	Duplicate analysis not within control limits.
+	Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995
#	See Case Narrative

Report Comments:

1. Soil, sediment and sludge sample results are reported on a "dry weight" basis.
2. Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

AMRO Environmental Laboratories Corp.

Date: 17-Jan-11

CLIENT: GEI Consultants, Inc.**Client Sample ID:** 100950-RWG-104**Lab Order:** 1012028**Collection Date:** 12/9/2010 9:28:00 AM**Project:** 100950 620 Washington St.**Matrix:** GROUNDWATER**Lab ID:** 1012028-01A

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY MCP MET SW8260B						Analyst: SK
Tertiary Butanol	ND	10		µg/L	1	12/10/2010 3:35:00 PM
Acetone	ND	10		µg/L	1	12/10/2010 3:35:00 PM
Tertiary Amyl Methyl Ether	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Benzene	ND	1.0		µg/L	1	12/10/2010 3:35:00 PM
Bromobenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Bromochloromethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Bromoform	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Bromomethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Carbon disulfide	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Chlorobenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Dibromochloromethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Chloroethane	ND	5.0		µg/L	1	12/10/2010 3:35:00 PM
Chloroform	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Chloromethane	ND	3.0		µg/L	1	12/10/2010 3:35:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	12/10/2010 3:35:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Dibromomethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Dichlorodifluoromethane	ND	5.0		µg/L	1	12/10/2010 3:35:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/10/2010 3:35:00 PM
cis-1,2-Dichloroethene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/10/2010 3:35:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/10/2010 3:35:00 PM

AMRO Environmental Laboratories Corp.

Date: 17-Jan-11

CLIENT: GEI Consultants, Inc.**Client Sample ID:** 100950-RWG-104**Lab Order:** 1012028**Collection Date:** 12/9/2010 9:28:00 AM**Project:** 100950 620 Washington St.**Matrix:** GROUNDWATER**Lab ID:** 1012028-01A

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diethyl ether	ND	5.0		µg/L	1	12/10/2010 3:35:00 PM
Diisopropyl ether	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,4-Dioxane	ND	50		µg/L	1	12/10/2010 3:35:00 PM
Ethyl Tertiary Butyl Ether	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Ethylbenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
2-Hexanone	ND	10		µg/L	1	12/10/2010 3:35:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
2-Butanone	ND	10		µg/L	1	12/10/2010 3:35:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/10/2010 3:35:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Methylene chloride	ND	5.0		µg/L	1	12/10/2010 3:35:00 PM
Naphthalene	ND	5.0		µg/L	1	12/10/2010 3:35:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Styrene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Tetrahydrofuran	ND	10		µg/L	1	12/10/2010 3:35:00 PM
Toluene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Trichloroethene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Vinyl chloride	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
o-Xylene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
m,p-Xylene	ND	2.0		µg/L	1	12/10/2010 3:35:00 PM
Surr: Dibromofluoromethane	105	70-130		%REC	1	12/10/2010 3:35:00 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	12/10/2010 3:35:00 PM
Surr: Toluene-d8	101	70-130		%REC	1	12/10/2010 3:35:00 PM
Surr: 4-Bromofluorobenzene	90.4	70-130		%REC	1	12/10/2010 3:35:00 PM

AMRO Environmental Laboratories Corp.

Date: 17-Jan-11

CLIENT: GEI Consultants, Inc.**Client Sample ID:** 100950-RWG-112**Lab Order:** 1012028**Collection Date:** 12/9/2010 10:40:00 AM**Project:** 100950 620 Washington St.**Matrix:** GROUNDWATER**Lab ID:** 1012028-02A

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY MCP MET SW8260B						Analyst: SK
Tertiary Butanol	ND	10		µg/L	1	12/10/2010 4:08:00 PM
Acetone	ND	10		µg/L	1	12/10/2010 4:08:00 PM
Tertiary Amyl Methyl Ether	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Benzene	ND	1.0		µg/L	1	12/10/2010 4:08:00 PM
Bromobenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Bromochloromethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Bromodichloromethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Bromoform	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Bromomethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
sec-Butylbenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
n-Butylbenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
tert-Butylbenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Carbon disulfide	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Carbon tetrachloride	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Chlorobenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Dibromochloromethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Chloroethane	ND	5.0		µg/L	1	12/10/2010 4:08:00 PM
Chloroform	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Chloromethane	ND	3.0		µg/L	1	12/10/2010 4:08:00 PM
2-Chlorotoluene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
4-Chlorotoluene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	12/10/2010 4:08:00 PM
1,2-Dibromoethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Dibromomethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,3-Dichlorobenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,2-Dichlorobenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,4-Dichlorobenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Dichlorodifluoromethane	ND	5.0		µg/L	1	12/10/2010 4:08:00 PM
1,1-Dichloroethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,2-Dichloroethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/10/2010 4:08:00 PM
cis-1,2-Dichloroethene	6.6	2.0		µg/L	1	12/10/2010 4:08:00 PM
trans-1,2-Dichloroethene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,2-Dichloropropane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,3-Dichloropropane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,1-Dichloropropene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/10/2010 4:08:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/10/2010 4:08:00 PM

AMRO Environmental Laboratories Corp.

Date: 17-Jan-11

CLIENT: GEI Consultants, Inc.**Client Sample ID:** 100950-RWG-112**Lab Order:** 1012028**Collection Date:** 12/9/2010 10:40:00 AM**Project:** 100950 620 Washington St.**Matrix:** GROUNDWATER**Lab ID:** 1012028-02A

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diethyl ether	ND	5.0		µg/L	1	12/10/2010 4:08:00 PM
Diisopropyl ether	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,4-Dioxane	ND	50		µg/L	1	12/10/2010 4:08:00 PM
Ethyl Tertiary Butyl Ether	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Ethylbenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Hexachlorobutadiene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
2-Hexanone	ND	10		µg/L	1	12/10/2010 4:08:00 PM
Isopropylbenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
4-Isopropyltoluene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
2-Butanone	ND	10		µg/L	1	12/10/2010 4:08:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/10/2010 4:08:00 PM
Methyl tert-butyl ether	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Methylene chloride	ND	5.0		µg/L	1	12/10/2010 4:08:00 PM
Naphthalene	ND	5.0		µg/L	1	12/10/2010 4:08:00 PM
n-Propylbenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Styrene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Tetrachloroethene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Tetrahydrofuran	ND	10		µg/L	1	12/10/2010 4:08:00 PM
Toluene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,2,4-Trichlorobenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,2,3-Trichlorobenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,1,1-Trichloroethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,1,2-Trichloroethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Trichloroethene	3.4	2.0		µg/L	1	12/10/2010 4:08:00 PM
Trichlorofluoromethane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,2,4-Trimethylbenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
1,3,5-Trimethylbenzene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Vinyl chloride	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
o-Xylene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
m,p-Xylene	ND	2.0		µg/L	1	12/10/2010 4:08:00 PM
Surr: Dibromofluoromethane	103	70-130		%REC	1	12/10/2010 4:08:00 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	12/10/2010 4:08:00 PM
Surr: Toluene-d8	99.2	70-130		%REC	1	12/10/2010 4:08:00 PM
Surr: 4-Bromofluorobenzene	86.7	70-130		%REC	1	12/10/2010 4:08:00 PM

AMRO Environmental Laboratories Corp.

Date: 13-Dec-10

CLIENT: GEI Consultants, Inc. **QC SUMMARY REPORT**
 Work Order: 1012028
 Project: 100950 620 Washington St. Method Blank

Sample ID mb-12/10/10 Batch ID: R45912 Test Code: SW8260B Units: µg/L Analysis Date 12/10/10 12:13:00 PM Prep Date 12/10/10
 Client ID: Run ID: V-3_101210A SeqNo: 763069

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	Low Limit	High Limit	Original Sample or MS Result	%RPD	RPD Limit	Qual
Acetone	ND	10	µg/L									
Tertiary Amyl Methyl Ether	ND	2.0	µg/L									
Benzene	ND	1.0	µg/L									
Bromobenzene	ND	2.0	µg/L									
Bromochloromethane	ND	2.0	µg/L									
Bromodichloromethane	ND	2.0	µg/L									
Bromoform	ND	2.0	µg/L									
Bromomethane	ND	2.0	µg/L									
sec-Butylbenzene	ND	2.0	µg/L									
n-Butylbenzene	ND	2.0	µg/L									
tert-Butylbenzene	ND	2.0	µg/L									
Carbon disulfide	ND	2.0	µg/L									
Carbon tetrachloride	ND	2.0	µg/L									
Chlorobenzene	ND	2.0	µg/L									
Dibromochloromethane	ND	2.0	µg/L									
Chloroethane	ND	5.0	µg/L									
Chloroform	ND	2.0	µg/L									
Chloromethane	ND	3.0	µg/L									
2-Chlorotoluene	ND	2.0	µg/L									
4-Chlorotoluene	ND	2.0	µg/L									
1,2-Dibromo-3-chloropropane	ND	5.0	µg/L									
1,2-Dibromoethane	ND	2.0	µg/L									
Dibromomethane	ND	2.0	µg/L									
1,3-Dichlorobenzene	ND	2.0	µg/L									
1,2-Dichlorobenzene	ND	2.0	µg/L									

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where I values or ND results occur
 RL - Reporting Limit, defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 13-Dec-10

QC SUMMARY REPORT

Method Blank

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

1,4-Dichlorobenzene	ND	2.0	µg/L
Dichlorodifluoromethane	ND	5.0	µg/L
1,1-Dichloroethane	ND	2.0	µg/L
1,2-Dichloroethane	ND	2.0	µg/L
1,1-Dichloroethene	ND	1.0	µg/L
cis-1,2-Dichloroethene	ND	2.0	µg/L
trans-1,2-Dichloroethene	ND	2.0	µg/L
1,2-Dichloropropane	ND	2.0	µg/L
1,3-Dichloropropane	ND	2.0	µg/L
2,2-Dichloropropane	ND	2.0	µg/L
1,1-Dichloropropene	ND	2.0	µg/L
cis-1,3-Dichloropropene	ND	1.0	µg/L
trans-1,3-Dichloropropene	ND	1.0	µg/L
Diethyl ether	ND	5.0	µg/L
Diisopropyl ether	ND	2.0	µg/L
1,4-Dioxane	ND	50	µg/L
Ethyl Tertiary Butyl Ether	ND	2.0	µg/L
Ethylbenzene	ND	2.0	µg/L
Hexachlorobutadiene	ND	2.0	µg/L
2-Hexanone	ND	10	µg/L
Isopropylbenzene	ND	2.0	µg/L
4-Isopropyltoluene	ND	2.0	µg/L
2-Butanone	ND	10	µg/L
4-Methyl-2-pentanone	ND	10	µg/L
Methyl tert-butyl ether	ND	2.0	µg/L
Methylene chloride	ND	5.0	µg/L
Naphthalene	ND	5.0	µg/L
n-Propylbenzene	ND	2.0	µg/L
Styrene	ND	2.0	µg/L
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur

Date: 13-Dec-10

QC SUMMARY REPORT

Method Blank.

Method Blank.

Chemical Name	Concentration (µg/L)	Concentration (µg/L)	Concentration (µg/L)	Concentration (µg/L)
Tetrachloroethene	ND	2.0	µg/L	
Tetrahydrofuran	ND	10	µg/L	
Toluene	ND	2.0	µg/L	
1,2,4-Trichlorobenzene	ND	2.0	µg/L	
1,2,3-Trichlorobenzene	ND	2.0	µg/L	
1,1,1-Trichloroethane	ND	2.0	µg/L	
1,1,2-Trichloroethane	ND	2.0	µg/L	
Trichloroethene	ND	2.0	µg/L	
Trichlorofluoromethane	ND	2.0	µg/L	
1,2,3-Trichloropropane	ND	2.0	µg/L	
1,2,4-Trimethylbenzene	ND	2.0	µg/L	
1,3,5-Trimethylbenzene	ND	2.0	µg/L	
Vinyl chloride	ND	2.0	µg/L	
o-Xylene	ND	2.0	µg/L	
m,p-Xylene	ND	2.0	µg/L	
Surr: Dibromofluoromethane	25.01	2.0	µg/L	70
Surr: 1,2-Dichloroethane-d4	26	2.0	µg/L	70
Surr: Toluene-d8	25.23	2.0	µg/L	70
Surr: 4-Bromofluorobenzene	23.09	2.0	µg/L	70

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 13-Dec-10

QC SUMMARY REPORT

Laboratory Control Spike

CLIENT: GEI Consultants, Inc.
 Work Order: 1012028
 Project: 100950 620 Washington St.

Sample ID	Ics-12/10/10	Batch ID: R45912	Test Code: SW8260B	Units: µg/L	Analysis Date	12/10/10 9:58:00 AM	Prep Date	12/10/10				
Client ID:			Run ID: V-3_101210A		SeqNo: 763071							
Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Acetone	17.35	10	µg/L	20	0	86.8	70	130	0			
Tertiary Amyl Methyl Ether	21.74	2.0	µg/L	20	0	109	70	130	0			
Benzene	22.08	1.0	µg/L	20	0	110	70	130	0			
Bromobenzene	21.43	2.0	µg/L	20	0	107	70	130	0			
Bromochloromethane	20.68	2.0	µg/L	20	0	103	70	130	0			
Bromodichloromethane	17.67	2.0	µg/L	20	0	88.4	70	130	0			
Bromoform	19.07	2.0	µg/L	20	0	95.4	70	130	0			
Bromomethane	23.01	2.0	µg/L	20	0	115	70	130	0			
sec-Butylbenzene	21.2	2.0	µg/L	20	0	106	70	130	0			
n-Butylbenzene	25.09	2.0	µg/L	20	0	125	70	130	0			
tert-Butylbenzene	19.98	2.0	µg/L	20	0	99.9	70	130	0			
Carbon disulfide	18.39	2.0	µg/L	20	0	92	70	130	0			
Carbon tetrachloride	20.35	2.0	µg/L	20	0	102	70	130	0			
Chlorobenzene	22.28	2.0	µg/L	20	0	111	70	130	0			
Dibromochloromethane	17.84	2.0	µg/L	20	0	89.2	70	130	0			
Chloroethane	23.97	5.0	µg/L	20	0	120	70	130	0			
Chloroform	22.97	2.0	µg/L	20	0	115	70	130	0			
Chloromethane	24.11	3.0	µg/L	20	0	121	70	130	0			
2-Chlorotoluene	21.41	2.0	µg/L	20	0	107	70	130	0			
4-Chlorotoluene	22.15	2.0	µg/L	20	0	111	70	130	0			
1,2-Dibromo-3-chloropropane	18.84	5.0	µg/L	20	0	94.2	70	130	0			
1,2-Dibromoethane	19.21	2.0	µg/L	20	0	96	70	130	0			
Dibromomethane	19.89	2.0	µg/L	20	0	99.4	70	130	0			
1,3-Dichlorobenzene	23.19	2.0	µg/L	20	0	116	70	130	0			
1,2-Dichlorobenzene	22.89	2.0	µg/L	20	0	114	70	130	0			

Qualifiers: NID - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

Date: 13-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike

1,4-Dichlorobenzene	23.19	2.0	µg/L	20	0	116	70	130	0	
Dichlorodifluoromethane	34	5.0	µg/L	20	0	170	70	130	0	S
1,1-Dichloroethane	23.31	2.0	µg/L	20	0	117	70	130	0	
1,2-Dichloroethane	22.71	2.0	µg/L	20	0	114	70	130	0	
1,1-Dichloroethene	20.89	1.0	µg/L	20	0	104	70	130	0	
cis-1,2-Dichloroethene	19.55	2.0	µg/L	20	0	97.8	70	130	0	
trans-1,2-Dichloroethene	20.08	2.0	µg/L	20	0	100	70	130	0	
1,2-Dichloropropane	20.91	2.0	µg/L	20	0	105	70	130	0	
1,3-Dichloropropane	21.59	2.0	µg/L	20	0	108	70	130	0	
2,2-Dichloropropane	24.13	2.0	µg/L	20	0	121	70	130	0	
1,1-Dichloropropene	20.85	2.0	µg/L	20	0	104	70	130	0	
cis-1,3-Dichloropropene	17.26	1.0	µg/L	20	0	86.3	70	130	0	
trans-1,3-Dichloropropene	15.48	1.0	µg/L	20	0	77.4	70	130	0	
Diethyl ether	19.25	5.0	µg/L	20	0	96.2	70	130	0	
Diisopropyl ether	21.22	2.0	µg/L	20	0	106	70	130	0	
1,4-Dioxane	110.7	50	µg/L	100	0	111	70	130	0	
Ethyl Tertiary Butyl Ether	21.98	2.0	µg/L	20	0	110	70	130	0	
Ethylbenzene	19.22	2.0	µg/L	20	0	96.1	70	130	0	
Hexachlorobutadiene	27.31	2.0	µg/L	20	0	137	70	130	0	S
2-Hexanone	17.87	10	µg/L	20	0	89.4	70	130	0	
Isopropylbenzene	20.66	2.0	µg/L	20	0	103	70	130	0	
4-Isopropyltoluene	23.77	2.0	µg/L	20	0	119	70	130	0	
2-Butanone	18.28	10	µg/L	20	0	91.4	70	130	0	
4-Methyl-2-pentanone	18.79	10	µg/L	20	0	94	70	130	0	
Methyl tert-butyl ether	23.8	2.0	µg/L	20	0	119	70	130	0	
Methylene chloride	22.03	5.0	µg/L	20	0	110	70	130	0	
Naphthalene	20.31	5.0	µg/L	20	0	102	70	130	0	
n-Propylbenzene	19.79	2.0	µg/L	20	0	99	70	130	0	
Styrene	18.08	2.0	µg/L	20	0	90.4	70	130	0	
1,1,1,2-Tetrachloroethane	17.13	2.0	µg/L	20	0	85.7	70	130	0	
1,1,2,2-Tetrachloroethane	20.3	2.0	µg/L	20	0	102	70	130	0	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 13-Dec-10

QC SUMMARY REPORT

Laboratory Control Spike

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

Tetrachloroethene	21.37	2.0	µg/L	20	0	107	70	130	0
Tetrahydrofuran	21.01	10	µg/L	20	0	105	70	130	0
Toluene	19.3	2.0	µg/L	20	0	96.5	70	130	0
1,2,4-Trichlorobenzene	23.02	2.0	µg/L	20	0	115	70	130	0
1,2,3-Trichlorobenzene	24.14	2.0	µg/L	20	0	121	70	130	0
1,1,1-Trichloroethane	21.48	2.0	µg/L	20	0	107	70	130	0
1,1,2-Trichloroethane	20.02	2.0	µg/L	20	0	100	70	130	0
Trichloroethene	20.5	2.0	µg/L	20	0	103	70	130	0
Trichlorofluoromethane	26.34	2.0	µg/L	20	0	132	70	130	0
1,2,3-Trichloropropane	20.89	2.0	µg/L	20	0	104	70	130	0
1,2,4-Trimethylbenzene	22.93	2.0	µg/L	20	0	115	70	130	0
1,3,5-Trimethylbenzene	20.34	2.0	µg/L	20	0	102	70	130	0
Vinyl chloride	27.37	2.0	µg/L	20	0	137	70	130	0
o-Xylene	18.25	2.0	µg/L	20	0	91.2	70	130	0
m,p-Xylene	38.66	2.0	µg/L	40	0	96.7	70	130	0
Surr: Dibromofluoromethane	25.29	2.0	µg/L	25	0	101	70	130	0
Surr: 1,2-Dichloroethane-d4	25.42	2.0	µg/L	25	0	102	70	130	0
Surr: Toluene-d8	24.45	2.0	µg/L	25	0	97.8	70	130	0
Surr: 4-Bromofluorobenzene	25.56	2.0	µg/L	25	0	102	70	130	0

S

S

Qualifiers: NID - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or NID results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 13-Dec-10

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: GEI Consultants, Inc.
 Work Order: 1012028
 Project: 100950 620 Washington St.

Sample ID	Icsd-12/10/10	Batch ID: R45912	Test Code: SW8260B	Units: µg/L	Analysis Date	12/10/10 10:31:00 AM	Prep Date	12/10/10				
Client ID:			Run ID: V-3_101210A		SeqNo: 763070							
Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Acetone	13.81	10	µg/L	20	0	69	70	130	17.35	22.7	20	SR
Tertiary Amyl Methyl Ether	20.51	2.0	µg/L	20	0	103	70	130	21.74	5.82	20	
Benzene	19.98	1.0	µg/L	20	0	99.9	70	130	22.08	9.99	20	
Bromobenzene	20.7	2.0	µg/L	20	0	104	70	130	21.43	3.47	20	
Bromochloromethane	19.08	2.0	µg/L	20	0	95.4	70	130	20.68	8.05	20	
Bromodichloromethane	16.44	2.0	µg/L	20	0	82.2	70	130	17.67	7.21	20	
Bromoform	17.58	2.0	µg/L	20	0	87.9	70	130	19.07	8.13	20	
Bromomethane	20.07	2.0	µg/L	20	0	100	70	130	23.01	13.6	20	
sec-Butylbenzene	19.7	2.0	µg/L	20	0	98.5	70	130	21.2	7.33	20	
n-Butylbenzene	23.51	2.0	µg/L	20	0	118	70	130	25.09	6.5	20	
tert-Butylbenzene	18.67	2.0	µg/L	20	0	93.4	70	130	19.98	6.78	20	
Carbon disulfide	16.29	2.0	µg/L	20	0	81.4	70	130	18.39	12.1	20	
Carbon tetrachloride	17.39	2.0	µg/L	20	0	87	70	130	20.35	15.7	20	
Chlorobenzene	20.91	2.0	µg/L	20	0	105	70	130	22.28	6.34	20	
Dibromochloromethane	15.55	2.0	µg/L	20	0	77.8	70	130	17.84	13.7	20	
Chloroethane	21.92	5.0	µg/L	20	0	110	70	130	23.97	8.93	20	
Chloroform	21.33	2.0	µg/L	20	0	107	70	130	22.97	7.4	20	
Chloromethane	22.81	3.0	µg/L	20	0	114	70	130	24.11	5.54	20	
2-Chlorotoluene	20.88	2.0	µg/L	20	0	104	70	130	21.41	2.51	20	
4-Chlorotoluene	20.9	2.0	µg/L	20	0	104	70	130	22.15	5.81	20	
1,2-Dibromo-3-chloropropane	17.12	5.0	µg/L	20	0	85.6	70	130	18.84	9.57	20	
1,2-Dibromoethane	17.23	2.0	µg/L	20	0	86.2	70	130	19.21	10.9	20	
Dibromomethane	18.39	2.0	µg/L	20	0	92	70	130	19.89	7.84	20	
1,3-Dichlorobenzene	21.84	2.0	µg/L	20	0	109	70	130	23.19	6	20	
1,2-Dichlorobenzene	20.97	2.0	µg/L	20	0	105	70	130	22.89	8.76	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

Date: 13-Dec-10

CLIENT: GEI Consultants, Inc.
 Work Order: 1012028
 Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
1,4-Dichlorobenzene	22.11	2.0	111
Dichlorodifluoromethane	30.41	5.0	152
1,1-Dichloroethane	20.04	2.0	100
1,2-Dichloroethane	20.96	2.0	105
1,1-Dichloroethene	19.1	1.0	95.5
cis-1,2-Dichloroethene	18.02	2.0	90.1
trans-1,2-Dichloroethene	18.58	2.0	92.9
1,2-Dichloropropane	18.83	2.0	94.2
1,3-Dichloropropane	20.18	2.0	101
2,2-Dichloropropane	21.5	2.0	108
1,1-Dichloropropene	18.55	2.0	92.8
cis-1,3-Dichloropropene	16.47	1.0	82.4
trans-1,3-Dichloropropene	13.89	1.0	69.5
Diethyl ether	17.65	5.0	86.2
Diisopropyl ether	19.6	2.0	98
1,4-Dioxane	84.28	50	84.3
Ethyl Tertiary Butyl Ether	20.38	2.0	102
Ethylbenzene	17.67	2.0	88.4
Hexachlorobutadiene	25.06	2.0	125
2-Hexanone	15.22	10	76.1
Isopropylbenzene	19.25	2.0	96.2
4-Isopropyltoluene	21.95	2.0	110
2-Butanone	13.57	10	67.8
4-Methyl-2-pentanone	17.62	10	88.1
Methyl tert-butyl ether	21.69	2.0	108
Methylene chloride	19.95	5.0	99.8
Naphthalene	18.25	5.0	91.2
n-Propylbenzene	18.38	2.0	91.9
Styrene	18.06	2.0	90.3
1,1,1,2-Tetrachloroethane	15.93	2.0	79.6
1,1,2,2-Tetrachloroethane	18.77	2.0	93.8

NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

Date: 13-Dec-10

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

Tetrachloroethene	20	2.0	µg/L	20	0	100	70	130	21.37	6.62	20
Tetrahydrofuran	17.29	10	µg/L	20	0	86.5	70	130	21.01	19.4	20
Toluene	18.48	2.0	µg/L	20	0	92.4	70	130	19.3	4.34	20
1,2,4-Trichlorobenzene	20.86	2.0	µg/L	20	0	104	70	130	23.02	9.85	20
1,2,3-Trichlorobenzene	21.89	2.0	µg/L	20	0	109	70	130	24.14	9.78	20
1,1,1-Trichloroethane	20.08	2.0	µg/L	20	0	100	70	130	21.48	6.74	20
1,1,2-Trichloroethane	18.65	2.0	µg/L	20	0	93.3	70	130	20.02	7.09	20
Trichloroethene	18.59	2.0	µg/L	20	0	93	70	130	20.5	9.77	20
Trichlorofluoromethane	23.15	2.0	µg/L	20	0	116	70	130	26.34	12.9	20
1,2,3-Trichloropropane	19.61	2.0	µg/L	20	0	96	70	130	20.89	6.32	20
1,2,4-Trimethylbenzene	21.63	2.0	µg/L	20	0	108	70	130	22.93	5.83	20
1,3,5-Trimethylbenzene	19.52	2.0	µg/L	20	0	97.6	70	130	20.34	4.11	20
Vinyl chloride	23.66	2.0	µg/L	20	0	118	70	130	27.37	14.5	20
o-Xylene	18.57	2.0	µg/L	20	0	92.8	70	130	18.25	1.74	20
m,p-Xylene	36.88	2.0	µg/L	40	0	92.2	70	130	38.66	4.71	20
Surr: Dibromofluoromethane	24.46	2.0	µg/L	25	0	97.8	70	130	0	0	0
Surr: 1,2-Dichloroethane-d4	24.4	2.0	µg/L	25	0	97.6	70	130	0	0	0
Surr: Toluene-d8	24.51	2.0	µg/L	25	0	98	70	130	0	0	0
Surr: 4-Bromofluorobenzene	25.73	2.0	µg/L	25	0	103	70	130	0	0	0

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Client Sample ID: 100950-RWG-104

Lab Order: 1012028

Collection Date: 12/9/2010 9:28:00 AM

Project: 100950 620 Washington St.

Matrix: GROUNDWATER

Lab ID: 1012028-01D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY MCP SW8270C						Analyst: KA
Acenaphthene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Acenaphthylene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Acetophenone	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Aniline	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Anthracene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Benz(a)anthracene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Benzo(a)pyrene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Butyl benzyl phthalate	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Di-n-butyl phthalate	ND	10		µg/L	1	12/15/2010 3:06:00 PM
4-Chloroaniline	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	12/15/2010 3:06:00 PM
2-Chloronaphthalene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
2-Chlorophenol	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Chrysene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Dibenzofuran	ND	10		µg/L	1	12/15/2010 3:06:00 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
1,4-Dichlorobenzene	ND	5.1		µg/L	1	12/15/2010 3:06:00 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	12/15/2010 3:06:00 PM
2,4-Dichlorophenol	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Diethyl phthalate	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Dimethyl phthalate	ND	10		µg/L	1	12/15/2010 3:06:00 PM
2,4-Dimethylphenol	ND	10		µg/L	1	12/15/2010 3:06:00 PM
2,4-Dinitrophenol	ND	20		µg/L	1	12/15/2010 3:06:00 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Bis(2-ethylhexyl)phthalate	ND	5.1		µg/L	1	12/15/2010 3:06:00 PM
Fluoranthene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Fluorene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Hexachlorobenzene	ND	10		µg/L	1	12/15/2010 3:06:00 PM

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.**Client Sample ID:** 100950-RWG-104**Lab Order:** 1012028**Collection Date:** 12/9/2010 9:28:00 AM**Project:** 100950 620 Washington St.**Matrix:** GROUNDWATER**Lab ID:** 1012028-01D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hexachlorobutadiene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Hexachloroethane	ND	5.1		µg/L	1	12/15/2010 3:06:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Isophorone	ND	10		µg/L	1	12/15/2010 3:06:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
2-Methylphenol	ND	10		µg/L	1	12/15/2010 3:06:00 PM
4-Methylphenol	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Naphthalene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Nitrobenzene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
2-Nitrophenol	ND	10		µg/L	1	12/15/2010 3:06:00 PM
4-Nitrophenol	ND	20		µg/L	1	12/15/2010 3:06:00 PM
Di-n-octyl phthalate	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Pentachlorophenol	ND	20		µg/L	1	12/15/2010 3:06:00 PM
Phenanthrene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Phenol	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Pyrene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	12/15/2010 3:06:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	12/15/2010 3:06:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	12/15/2010 3:06:00 PM
Surr: 2-Fluorophenol	49.7	15-110		%REC	1	12/15/2010 3:06:00 PM
Surr: Phenol-d5	30.7	15-110		%REC	1	12/15/2010 3:06:00 PM
Surr: Nitrobenzene-d5	86.5	30-130		%REC	1	12/15/2010 3:06:00 PM
Surr: 2-Fluorobiphenyl	84.4	30-130		%REC	1	12/15/2010 3:06:00 PM
Surr: 2,4,6-Tribromophenol	93.5	15-110		%REC	1	12/15/2010 3:06:00 PM
Surr: 4-Terphenyl-d14	101	30-130		%REC	1	12/15/2010 3:06:00 PM

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT:	GEI Consultants, Inc.	Client Sample ID:	100950-RWG-112
Lab Order:	1012028	Collection Date:	12/9/2010 10:40:00 AM
Project:	100950 620 Washington St.	Matrix:	GROUNDWATER
Lab ID:	1012028-02D		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY MCP SW8270C						Analyst: KA
Acenaphthene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Acenaphthylene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Acetophenone	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Aniline	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Anthracene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
1,2-Diphenylhydrazine (as Azobenzene)	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Benz(a)anthracene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Benzo(a)pyrene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Benzo(b)fluoranthene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Benzo(k)fluoranthene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Benzo(g,h,i)perylene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
4-Bromophenyl phenyl ether	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Butyl benzyl phthalate	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Di-n-butyl phthalate	ND	11		µg/L	1	12/15/2010 3:32:00 PM
4-Chloroaniline	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Bis(2-chloroethoxy)methane	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Bis(2-chloroethyl)ether	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Bis(2-chloroisopropyl)ether	ND	11		µg/L	1	12/15/2010 3:32:00 PM
2-Chloronaphthalene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
2-Chlorophenol	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Chrysene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Dibenz(a,h)anthracene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Dibenzofuran	ND	11		µg/L	1	12/15/2010 3:32:00 PM
1,2-Dichlorobenzene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
1,3-Dichlorobenzene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
1,4-Dichlorobenzene	ND	5.3		µg/L	1	12/15/2010 3:32:00 PM
3,3'-Dichlorobenzidine	ND	11		µg/L	1	12/15/2010 3:32:00 PM
2,4-Dichlorophenol	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Diethyl phthalate	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Dimethyl phthalate	ND	11		µg/L	1	12/15/2010 3:32:00 PM
2,4-Dimethylphenol	ND	11		µg/L	1	12/15/2010 3:32:00 PM
2,4-Dinitrophenol	ND	21		µg/L	1	12/15/2010 3:32:00 PM
2,4-Dinitrotoluene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
2,6-Dinitrotoluene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Bis(2-ethylhexyl)phthalate	ND	5.3		µg/L	1	12/15/2010 3:32:00 PM
Fluoranthene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Fluorene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Hexachlorobenzene	ND	11		µg/L	1	12/15/2010 3:32:00 PM

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.**Client Sample ID:** 100950-RWG-112**Lab Order:** 1012028**Collection Date:** 12/9/2010 10:40:00 AM**Project:** 100950 620 Washington St.**Matrix:** GROUNDWATER**Lab ID:** 1012028-02D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hexachlorobutadiene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Hexachloroethane	ND	5.3		µg/L	1	12/15/2010 3:32:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Isophorone	ND	11		µg/L	1	12/15/2010 3:32:00 PM
2-Methylnaphthalene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
2-Methylphenol	ND	11		µg/L	1	12/15/2010 3:32:00 PM
4-Methylphenol	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Naphthalene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Nitrobenzene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
2-Nitrophenol	ND	11		µg/L	1	12/15/2010 3:32:00 PM
4-Nitrophenol	ND	21		µg/L	1	12/15/2010 3:32:00 PM
Di-n-octyl phthalate	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Pentachlorophenol	ND	21		µg/L	1	12/15/2010 3:32:00 PM
Phenanthrene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Phenol	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Pyrene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
1,2,4-Trichlorobenzene	ND	11		µg/L	1	12/15/2010 3:32:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	12/15/2010 3:32:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	12/15/2010 3:32:00 PM
Surr: 2-Fluorophenol	52.9	15-110		%REC	1	12/15/2010 3:32:00 PM
Surr: Phenol-d5	32.8	15-110		%REC	1	12/15/2010 3:32:00 PM
Surr: Nitrobenzene-d5	88.8	30-130		%REC	1	12/15/2010 3:32:00 PM
Surr: 2-Fluorobiphenyl	89.3	30-130		%REC	1	12/15/2010 3:32:00 PM
Surr: 2,4,6-Tribromophenol	89.0	15-110		%REC	1	12/15/2010 3:32:00 PM
Surr: 4-Terphenyl-d14	99.9	30-130		%REC	1	12/15/2010 3:32:00 PM

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

CLIENT: GEI Consultants, Inc.
 Work Order: 1012028
 Project: 100950 620 Washington St.

QC SUMMARY REPORT

Method Blank

Sample ID	MB-20918	Batch ID: 20918	Test Code: SW8270C	Units: µg/L	Analysis Date	12/15/10 1:06:00 PM	Prep Date	12/15/10		
Client ID:			Run ID:	SV-4_101215A	SeqNo:	763384				
Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	HighLimit	LowLimit	%RPD	RPDLimit	Qua
Acenaphthene	ND	10	µg/L							
Acenaphthylene	ND	10	µg/L							
Acetophenone	ND	10	µg/L							
Aniline	ND	10	µg/L							
Anthracene	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Benzo(a)anthracene	ND	10	µg/L							
Benzo(a)pyrene	ND	10	µg/L							
Benzo(b)fluoranthene	ND	10	µg/L							
Benzo(k)fluoranthene	ND	10	µg/L							
Benzo(g,h,i)perylene	ND	10	µg/L							
4-Bromophenyl phenyl ether	ND	10	µg/L							
Butyl benzyl phthalate	ND	10	µg/L							
Di-n-butyl phthalate	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
Chrysene	ND	10	µg/L							
Dibenz(a,h)anthracene	ND	10	µg/L							
Dibenzofuran	ND	10	µg/L							
1,2-Dichlorobenzene	ND	10	µg/L							
1,3-Dichlorobenzene	ND	10	µg/L							

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 NA - Not applicable where f values or ND results occur

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

CLIENT: GEI Consultants, Inc.

QC SUMMARY REPORT

Work Order: 1012028

Method Blank

Project: 100950 620 Washington St.

1,4-Dichlorobenzene	ND	5.0	µg/L
3,3'-Dichlorobenzidine	ND	10	µg/L
2,4-Dichlorophenol	ND	10	µg/L
Diethyl phthalate	ND	10	µg/L
Dimethyl phthalate	ND	10	µg/L
2,4-Dimethylphenol	ND	10	µg/L
2,4-Dinitrophenol	ND	20	µg/L
2,4-Dinitrotoluene	ND	10	µg/L
2,6-Dinitrotoluene	ND	10	µg/L
Bis(2-ethylhexyl)phthalate	ND	5.0	µg/L
Fluoranthene	ND	10	µg/L
Fluorene	ND	10	µg/L
Hexachlorobenzene	ND	10	µg/L
Hexachlorobutadiene	ND	10	µg/L
Hexachloroethane	ND	5.0	µg/L
Indeno(1,2,3-cd)pyrene	ND	10	µg/L
Isophorone	ND	10	µg/L
2-Methylnaphthalene	ND	10	µg/L
2-Methylphenol	ND	10	µg/L
4-Methylphenol	ND	10	µg/L
Naphthalene	ND	10	µg/L
Nitrobenzene	ND	10	µg/L
2-Nitrophenol	ND	10	µg/L
4-Nitrophenol	ND	20	µg/L
Di-n-octyl phthalate	ND	10	µg/L
Pentachlorophenol	ND	20	µg/L
Phenanthrene	ND	10	µg/L
Phenol	ND	10	µg/L
Pyrene	ND	10	µg/L
1,2,4-Trichlorobenzene	ND	10	µg/L
2,4,5-Trichlorophenol	ND	10	µg/L

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 RL - Reporting Limit, defined as the lowest concentration the laboratory can accurately quantitate.
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 NA - Not applicable where J values or ND results occur

Date: 23-Dec-10

QC SUMMARY REPORT

		Method Blank			
2,4,6-Trichlorophenol	ND	10	µg/L		
Surr: 2-Fluorophenol	44.42	1.0	µg/L		
Surr: Phenol-d5	28.51	1.0	µg/L	75	0
Surr: Nitrobenzene-d5	44.94	1.0	µg/L	75	0
Surr: 2-Fluorobiphenyl	45.29	1.0	µg/L	50	0
Surr: 2,4,6-Tribromophenol	71.53	1.0	µg/L	50	0
Surr: 4-Terphenyl-d14	53.67	1.0	µg/L	75	0
				50	0
				107	0
				30	0
				15	0
				38	0
				89.9	0
				30	0
				130	0
				130	0
				130	0
				15	0
				110	0
				130	0

Qualifiers:

N/D - Not Detected at the Reporting Limit

† Analytic detected below quantitation limits

$$R - RFD \text{ outside accepted recovery limits}$$

S - Spike Recovery outside accepted recovery limits

RF - RFD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

NA = Not applicable where f values or NO results occur

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

QC SUMMARY REPORT

Laboratory Control Spike

CLIENT: GEI Consultants, Inc.
Work Order: 1012028
Project: 100950 620 Washington St.

Sample ID	LCS-20918	Batch ID	20918	Test Code	SW8270C	Units	µg/L	Analysis Date	12/15/10 1:32:00 PM	Prep Date	12/15/10	
Client ID:		Run ID:	SV-4_101215A	SeqNo:	763385							
Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Acenaphthene	48.77	10	µg/L	50	0	97.5	46	103	0			
Acenaphthylene	48.2	10	µg/L	50	0	96.4	40	111	0			
Acetophenone	49.47	10	µg/L	50	0	98.9	40	140	0			
Aniline	32.02	10	µg/L	50	0	64	40	140	0			
Anthracene	50.58	10	µg/L	50	0	101	51	118	0			
1,2-Diphenylhydrazine (as Azobe	50.85	10	µg/L	50	0	102	45	116	0			
Benzo(a)anthracene	50.88	10	µg/L	50	0	102	50	117	0			
Benzo(a)pyrene	49.8	10	µg/L	50	0	99.6	62	110	0			
Benzo(b)fluoranthene	48.26	10	µg/L	50	0	96.5	60	105	0			
Benzo(k)fluoranthene	53.48	10	µg/L	50	0	107	58	116	0			
Benzo(g,h,i)perylene	50.78	10	µg/L	50	0	102	61	109	0			
4-Bromophenyl phenyl ether	52.33	10	µg/L	50	0	105	46	117	0			
Butyl benzyl phthalate	52.8	10	µg/L	50	0	106	46	121	0			
Di-n-butyl phthalate	52.58	10	µg/L	50	0	105	49	126	0			
4-Chloroaniline	43.72	10	µg/L	50	0	87.4	54	100	0			
Bis(2-chloroethoxy)methane	50.22	10	µg/L	50	0	100	52	103	0			
Bis(2-chloroethyl)ether	47.3	10	µg/L	50	0	94.6	44	100	0			
Bis(2-chloroisopropyl)ether	49.05	10	µg/L	50	0	98.1	47	127	0			
2-Chloronaphthalene	48.1	10	µg/L	50	0	96.2	40	109	0			
2-Chlorophenol	68.09	10	µg/L	75	0	90.8	48	93	0			
Chrysene	50.2	10	µg/L	50	0	100	63	107	0			
Dibenz(a,h)anthracene	52.63	10	µg/L	50	0	105	62	113	0			
Dibenzofuran	48.97	10	µg/L	50	0	97.9	52	106	0			
1,2-Dichlorobenzene	40.44	10	µg/L	50	0	80.9	40	93	0			
1,3-Dichlorobenzene	40.42	10	µg/L	50	0	80.8	40	90	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike

1,4-Dichlorobenzene	39.83	5.0	µg/L	50	0	79.7	40	92	0
3,3'-Dichlorobenzidine	53.33	10	µg/L	50	0	107	40	131	0
2,4-Dichlorophenol	75.14	10	µg/L	75	0	100	55	107	0
Diethyl phthalate	53.27	10	µg/L	50	0	107	40	125	0
Dimethyl phthalate	51.49	10	µg/L	50	0	103	40	140	0
2,4-Dimethylphenol	75.87	10	µg/L	75	0	101	46	97	0
2,4-Dinitrophenol	54.49	20	µg/L	75	0	72.7	30	130	0
2,4-Dinitrotoluene	55.2	10	µg/L	50	0	110	49	120	0
2,6-Dinitrotoluene	51.06	10	µg/L	50	0	102	61	115	0
Bis(2-ethylhexyl)phthalate	53.86	5.0	µg/L	50	0	108	43	133	0
Fluoranthene	51.28	10	µg/L	50	0	103	64	109	0
Fluorene	49.7	10	µg/L	50	0	99.4	45	114	0
Hexachlorobenzene	50.31	10	µg/L	50	0	101	47	120	0
Hexachlorobutadiene	41.15	10	µg/L	50	0	82.3	40	98	0
Hexachloroethane	41.17	5.0	µg/L	50	0	82.3	40	89	0
Indeno(1,2,3-cd)pyrene	51.69	10	µg/L	50	0	103	58	112	0
Isophorone	46.82	10	µg/L	50	0	93.6	54	103	0
2-Methylnaphthalene	47.13	10	µg/L	50	0	94.3	40	100	0
2-Methylphenol	64.17	10	µg/L	75	0	85.6	30	100	0
4-Methylphenol	82.16	10	µg/L	150	0	54.8	30	75	0
Naphthalene	45.35	10	µg/L	50	0	90.7	40	106	0
Nitrobenzene	48.06	10	µg/L	50	0	96.1	48	103	0
2-Nitrophenol	76.32	10	µg/L	75	0	102	48	108	0
4-Nitrophenol	31.8	20	µg/L	75	0	42.4	30	53	0
Di-n-octyl phthalate	54.89	10	µg/L	50	0	110	54	130	0
Pentachlorophenol	68.26	20	µg/L	75	0	91	40	110	0
Phenanthrene	49.52	10	µg/L	50	0	99	49	115	0
Phenol	29.34	10	µg/L	75	0	39.1	20	46	0
Pyrene	50.19	10	µg/L	50	0	100	55	109	0
1,2,4-Trichlorobenzene	43.05	10	µg/L	50	0	86.1	40	98	0
2,4,5-Trichlorophenol	76.57	10	µg/L	75	0	102	30	95	0

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

CLIENT: GEI Consultants, Inc.
 Work Order: 1012028
 Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike

2,4,6-Trichlorophenol	75.02	10	µg/L	75	0	100	59	110	0
Surr: 2-Fluorophenol	39.06	1.0	µg/L	75	0	52.1	21	76	0
Surr: Phenol-d5	25.03	1.0	µg/L	75	0	33.4	15	50	0
Surr: Nitrobenzene-d5	44.67	1.0	µg/L	50	0	89.3	38	118	0
Surr: 2-Fluorobiphenyl	44.64	1.0	µg/L	50	0	89.3	39	109	0
Surr: 2,4,6-Tribromophenol	68.89	1.0	µg/L	75	0	91.9	45	110	0
Surr: 4-Terphenyl-d14	50.69	1.0	µg/L	50	0	101	39	128	0

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID	LCSD-20918	Batch ID: 20918	Test Code: SW8270C	Units: µg/L	Analysis Date 12/15/10 2:40:00 PM	Prep Date 12/15/10
Client ID:	SV-4_101215A	Run ID:	SV-4_101215A	SeqNo: 763386		
Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	RPD Limit
Acenaphthene	49.2	10	µg/L	50	48.77	20
Acenaphthylene	48.86	10	µg/L	50	48.2	20
Acetophenone	46.69	10	µg/L	50	49.47	20
Aniline	23.2	10	µg/L	50	32.02	20
Anthracene	50.42	10	µg/L	50	50.58	20
1,2-Diphenylhydrazine (as Azobenzene)	50.16	10	µg/L	50	50.85	20
Benz(a)anthracene	49.78	10	µg/L	50	50.88	20
Benzo(a)pyrene	49.91	10	µg/L	50	49.8	20
Benzo(b)fluoranthene	51.11	10	µg/L	50	48.26	20
Benzo(k)fluoranthene	48.89	10	µg/L	50	53.48	20
Benzo(g,h,i)perylene	50.22	10	µg/L	50	50.78	20
4-Bromophenyl phenyl ether	49.3	10	µg/L	50	52.33	20
Butyl benzyl phthalate	50.8	10	µg/L	50	52.8	20
Di-n-butyl phthalate	52.43	10	µg/L	50	52.58	20
4-Chloroaniline	41.08	10	µg/L	50	43.72	20
Bis(2-chloroethoxy)methane	47.27	10	µg/L	50	50.22	20
Bis(2-chloroethyl)ether	46.5	10	µg/L	50	47.3	20
Bis(2-chloroisopropyl)ether	46.95	10	µg/L	50	49.05	20
2-Chloronaphthalene	47.61	10	µg/L	50	48.1	20
2-Chlorophenol	66.43	10	µg/L	75	68.09	20
Chrysene	49.52	10	µg/L	50	50.2	20
Dibenz(a,h)anthracene	50.94	10	µg/L	50	52.63	20
Dibenzofuran	49.38	10	µg/L	50	48.97	20
1,2-Dichlorobenzene	38.39	10	µg/L	50	40.44	20
1,3-Dichlorobenzene	38.32	10	µg/L	50	40.42	20

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

1,4-Dichlorobenzene	38.1	5.0	µg/L	50	0	76.2	40	92	39.83	4.44	20
3,3'-Dichlorobenzidine	51.85	10	µg/L	50	0	104	40	131	53.33	2.81	20
2,4-Dichlorophenol	71.67	10	µg/L	75	0	95.6	55	107	75.14	4.73	20
Diethyl phthalate	51.72	10	µg/L	50	0	103	40	125	53.27	2.95	20
Dimethyl phthalate	51.17	10	µg/L	50	0	102	40	140	51.49	0.623	20
2,4-Dimethylphenol	72.32	10	µg/L	75	0	96.4	46	97	75.87	4.79	20
2,4-Dinitrophenol	58.23	20	µg/L	75	0	77.6	30	130	54.49	6.64	20
2,4-Dinitrotoluene	55.85	10	µg/L	50	0	112	49	120	55.2	1.17	20
2,6-Dinitrotoluene	52.76	10	µg/L	50	0	106	61	115	51.06	3.27	20
Bis(2-ethylhexyl)phthalate	52.43	5.0	µg/L	50	0	105	43	133	53.86	2.69	20
Fluoranthene	50.36	10	µg/L	50	0	101	64	109	51.28	1.81	20
Fluorene	49.93	10	µg/L	50	0	99.9	45	114	49.7	0.462	20
Hexachlorobenzene	48.3	10	µg/L	50	0	96.6	47	120	50.31	4.08	20
Hexachlorobutadiene	40.26	10	µg/L	50	0	80.5	40	98	41.15	2.19	20
Hexachloroethane	38.92	5.0	µg/L	50	0	77.8	40	89	41.17	5.62	20
Indeno(1,2,3-cd)pyrene	50.81	10	µg/L	50	0	102	58	112	51.69	1.72	20
Isophorone	46.33	10	µg/L	50	0	92.7	54	103	46.82	1.05	20
2-Methylnaphthalene	45.58	10	µg/L	50	0	91.2	40	100	47.13	3.34	20
2-Methylphenol	62.13	10	µg/L	75	0	82.8	30	100	64.17	3.23	20
4-Methylphenol	76.83	10	µg/L	150	0	51.2	30	75	82.16	6.7	20
Naphthalene	43.51	10	µg/L	50	0	87	40	106	45.35	4.14	20
Nitrobenzene	45.65	10	µg/L	50	0	91.3	48	103	48.06	5.14	20
2-Nitrophenol	71.5	10	µg/L	75	0	95.3	48	108	76.32	6.52	20
4-Nitrophenol	30.88	20	µg/L	75	0	41.2	30	53	31.8	2.94	20
Di-n-octyl phthalate	53.48	10	µg/L	50	0	107	54	130	54.89	2.6	20
Pentachlorophenol	67.76	20	µg/L	75	0	90.3	40	110	68.26	0.735	20
Phenanthrene	49.68	10	µg/L	50	0	99.4	49	115	49.52	0.323	20
Phenol	28.7	10	µg/L	75	0	38.3	20	46	29.34	2.21	20
Pyrene	49.09	10	µg/L	50	0	98.2	55	109	50.19	2.22	20
1,2,4-Trichlorobenzene	41.92	10	µg/L	50	0	83.8	40	98	43.05	2.66	20
2,4,5-Trichlorophenol	77.98	10	µg/L	75	0	104	30	95	76.57	1.82	20

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

NA - Not applicable where J values or ND results occur

RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

2,4,6-Trichlorophenol	76.06	10	µg/L	75	0	101	59	110	75.02	1.38	20
Surr: 2-Fluorophenol	38.66	1.0	µg/L	75	0	51.5	21	76	0	0	0
Surr: Phenol-d5	25.06	1.0	µg/L	75	0	33.4	15	50	0	0	0
Surr: Nitrobenzene-d5	43.38	1.0	µg/L	50	0	86.8	38	118	0	0	0
Surr: 2-Fluorobiphenyl	44.86	1.0	µg/L	50	0	89.7	39	109	0	0	0
Surr: 2,4,6-Tribromophenol	70.96	1.0	µg/L	75	0	94.6	45	110	0	0	0
Surr: 4-Terphenyl-d14	50.41	1.0	µg/L	50	0	101	39	128	0	0	0

Qualifiers: NID - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected to the associated Method Blank
NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT:	GEI Consultants, Inc.	Client Sample ID:	100950-RWG-104
Lab Order:	1012028	Collection Date:	12/9/2010 9:28:00 AM
Project:	100950 620 Washington St.	Matrix:	GROUNDWATER
Lab ID:	1012028-01D		

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PAH BY EPA 8270C SIM		SW8270C				Analyst: KA
Naphthalene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
2-Methylnaphthalene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Acenaphthylene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Acenaphthene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Fluorene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Phenanthrene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Anthracene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Fluoranthene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Pyrene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Benz(a)anthracene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Chrysene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Benzo(k)fluoranthene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Benzo(a)pyrene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Dibenz(a,h)anthracene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Benzo(g,h,i)perylene	ND	0.10		µg/L	1	12/16/2010 12:20:00 PM
Surr: Nitrobenzene-d5	45.3	24.5-146		%REC	1	12/16/2010 12:20:00 PM
Surr: 2-Fluorobiphenyl	86.7	32.4-120		%REC	1	12/16/2010 12:20:00 PM
Surr: 4-Terphenyl-d14	92.0	47.9-124		%REC	1	12/16/2010 12:20:00 PM

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.**Client Sample ID:** 100950-RWG-112**Lab Order:** 1012028**Collection Date:** 12/9/2010 10:40:00 AM**Project:** 100950 620 Washington St.**Matrix:** GROUNDWATER**Lab ID:** 1012028-02D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PAH BY EPA 8270C SIM		SW8270C				Analyst: KA
Naphthalene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
2-Methylnaphthalene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Acenaphthylene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Acenaphthene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Fluorene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Phenanthrene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Anthracene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Fluoranthene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Pyrene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Benz(a)anthracene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Chrysene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Benzo(b)fluoranthene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Benzo(k)fluoranthene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Benzo(a)pyrene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Dibenz(a,h)anthracene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Benzo(g,h,i)perylene	ND	0.11		µg/L	1	12/16/2010 12:54:00 PM
Surr: Nitrobenzene-d5	45.8	24.5-146		%REC	1	12/16/2010 12:54:00 PM
Surr: 2-Fluorobiphenyl	88.1	32.4-120		%REC	1	12/16/2010 12:54:00 PM
Surr: 4-Terphenyl-d14	91.3	47.9-124		%REC	1	12/16/2010 12:54:00 PM

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

QC SUMMARY REPORT

Method Blank

CLIENT: GEI Consultants, Inc.
 Work Order: 1012028
 Project: 100950 620 Washington St.

Sample ID MB-20918 Batch ID: 20918 Test Code: SW8270C Units: µg/L Analysis Date 12/16/10 10:40:00 AM Prep Date 12/15/10
 Client ID: Run ID: SV-3_101216A SeqNo: 763513

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Naphthalene	ND	0.10	µg/L	0	0	0	0	0	0	0		
2-Methylnaphthalene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Acenaphthylene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Acenaphthene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Fluorene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Phenanthrene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Anthracene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Fluoranthene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Pyrene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Benz(a)anthracene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Chrysene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Benzo(a)pyrene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	ND	0.10	µg/L	0	0	0	0	0	0	0		
Surr: Nitrobenzene-d5	22.48	1.0	µg/L	50	0	45	24.5	146	0	0		
Surr: 2-Fluorobiphenyl	45.74	1.0	µg/L	50	0	91.5	32.4	120	0	0		
Surr: 4-Terphenyl-d14	48.49	1.0	µg/L	50	0	97	47.9	124	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	LCS-20918	Batch ID: 20918	Test Code: SW8270C	Units: µg/L	Analysis Date	12/16/10 11:13:00 AM	Prep Date	12/15/10				
Client ID:			Run ID: SV-3_101216A		SeqNo: 763514							
Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Naphthalene	5.205	0.10	µg/L	5	0	104	40	132	0			
2-Methylnaphthalene	5.63	0.10	µg/L	5	0	113	40	132	0			
Acenaphthylene	5.64	0.10	µg/L	5	0	113	51	122	0			
Acenaphthene	5.775	0.10	µg/L	5	0	116	40	121	0			
Fluorene	6.06	0.10	µg/L	5	0	121	40	139	0			
Phenanthrene	6.115	0.10	µg/L	5	0	122	44	116	0			
Anthracene	6.105	0.10	µg/L	5	0	122	44	124	0			
Fluoranthene	6.315	0.10	µg/L	5	0	126	40	140	0			
Pyrene	5.925	0.10	µg/L	5	0	118	40	130	0			
Benz(a)anthracene	6.535	0.10	µg/L	5	0	131	41	127	0			S
Chrysene	6.445	0.10	µg/L	5	0	129	40	131	0			
Benzo(b)fluoranthene	6.145	0.10	µg/L	5	0	123	46	126	0			
Benzo(k)fluoranthene	5.48	0.10	µg/L	5	0	110	46	130	0			
Benzo(a)pyrene	5.78	0.10	µg/L	5	0	116	52	122	0			
Dibenz(a,h)anthracene	5.615	0.10	µg/L	5	0	112	40	140	0			
Indeno(1,2,3-cd)pyrene	5.435	0.10	µg/L	5	0	109	40	140	0			
Benzo(g,h,i)perylene	5.535	0.10	µg/L	5	0	111	44	135	0			
Surr: Nitrobenzene-d5	2.43	1.0	µg/L	5	0	48.6	40	135	0			
Surr: 2-Fluorobiphenyl	5.2	1.0	µg/L	5	0	104	44	118	0			
Surr: 4-Terphenyl-d14	5.345	1.0	µg/L	5	0	107	55	121	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

CLIENT: GEI Consultants, Inc.
 Work Order: 1012028
 Project: 100950 620 Washington St.

Sample ID	LCSD-20918	Batch ID: 20918	Test Code: SW8270C	Units: µg/L	Analysis Date	12/16/10 11:47:00 AM	Prep Date	12/15/10				
Client ID:		Run ID:	SV-3_101216A		SeqNo:	763515						
Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Naphthalene	5.1	0.10	µg/L	5	0	102	40	132	5.205	2.04	20	
2-Methylnaphthalene	5.875	0.10	µg/L	5	0	118	40	132	5.63	4.26	20	
Acenaphthylene	5.42	0.10	µg/L	5	0	108	51	122	5.64	3.98	20	
Acenaphthene	5.585	0.10	µg/L	5	0	112	40	121	5.775	3.35	20	
Fluorene	5.875	0.10	µg/L	5	0	118	40	139	6.06	3.1	20	
Phenanthrene	6.07	0.10	µg/L	5	0	121	44	116	6.115	0.739	20	S
Anthracene	5.925	0.10	µg/L	5	0	118	44	124	6.105	2.99	20	
Fluoranthene	6.115	0.10	µg/L	5	0	122	40	140	6.315	3.22	20	
Pyrene	5.91	0.10	µg/L	5	0	118	40	130	5.925	0.253	20	
Benz(a)anthracene	6.54	0.10	µg/L	5	0	131	41	127	6.535	0.0765	20	S
Chrysene	6.41	0.10	µg/L	5	0	128	40	131	6.445	0.545	20	
Benzo(b)fluoranthene	6.075	0.10	µg/L	5	0	122	46	126	6.145	1.15	20	
Benzo(k)fluoranthene	5.59	0.10	µg/L	5	0	112	46	130	5.48	1.99	20	
Benzo(a)pyrene	5.715	0.10	µg/L	5	0	114	52	122	5.78	1.13	20	
Dibenz(a,h)anthracene	5.505	0.10	µg/L	5	0	110	40	140	5.615	1.98	20	
Indeno(1,2,3-cd)pyrene	5.5	0.10	µg/L	5	0	110	40	140	5.435	1.19	20	
Benzo(g,h,i)perylene	5.405	0.10	µg/L	5	0	108	44	135	5.535	2.38	20	
Surr: Nitrobenzene-d5	2.45	1.0	µg/L	5	0	49	40	135	0	0	0	
Surr: 2-Fluorobiphenyl	5.145	1.0	µg/L	5	0	103	44	118	0	0	0	
Surr: 4-Terphenyl-d14	5.49	1.0	µg/L	5	0	110	55	121	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.
Project: 100950 620 Washington St.**Lab Order:** 1012028**Lab ID:** 1012028-01**Collection Date:** 12/9/2010 9:28:00 AM**Collection Time:****Client Sample ID:** 100950-RWG-104**Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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ORGANOCHLORINE PCBS**E608****Analyst:** KA

Aroclor 1016	ND	0.20		µg/L	1	12/13/2010 11:00:00 PM
Aroclor 1221	ND	0.20		µg/L	1	12/13/2010 11:00:00 PM
Aroclor 1232	ND	0.20		µg/L	1	12/13/2010 11:00:00 PM
Aroclor 1242	ND	0.20		µg/L	1	12/13/2010 11:00:00 PM
Aroclor 1248	ND	0.20		µg/L	1	12/13/2010 11:00:00 PM
Aroclor 1254	ND	0.20		µg/L	1	12/13/2010 11:00:00 PM
Aroclor 1260	ND	0.20		µg/L	1	12/13/2010 11:00:00 PM
Surr: Decachlorobiphenyl	77.2	20-119		%REC	1	12/13/2010 11:00:00 PM
Surr: Tetrachloro-m-xylene	80.2	34-113		%REC	1	12/13/2010 11:00:00 PM

Lab ID: 1012028-02**Collection Date:** 12/9/2010 10:40:00 AM**Collection Time:****Client Sample ID:** 100950-RWG-112**Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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ORGANOCHLORINE PCBS**E608****Analyst:** KA

Aroclor 1016	ND	0.22		µg/L	1	12/13/2010 11:28:00 PM
Aroclor 1221	ND	0.22		µg/L	1	12/13/2010 11:28:00 PM
Aroclor 1232	ND	0.22		µg/L	1	12/13/2010 11:28:00 PM
Aroclor 1242	ND	0.22		µg/L	1	12/13/2010 11:28:00 PM
Aroclor 1248	ND	0.22		µg/L	1	12/13/2010 11:28:00 PM
Aroclor 1254	ND	0.22		µg/L	1	12/13/2010 11:28:00 PM
Aroclor 1260	ND	0.22		µg/L	1	12/13/2010 11:28:00 PM
Surr: Decachlorobiphenyl	81.9	20-119		%REC	1	12/13/2010 11:28:00 PM
Surr: Tetrachloro-m-xylene	83.2	34-113		%REC	1	12/13/2010 11:28:00 PM

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

CLIENT: GEI Consultants, Inc.
 Work Order: 1012028
 Project: 100950 620 Washington St.

QC SUMMARY REPORT

Method Blank

Sample ID	MB-20902	Batch ID: 20902	Test Code: E608	Units: µg/L	Analysis Date	12/13/10 9:38:00 PM	Prep Date	12/13/10				
Client ID:			Run ID: GC-TRENT_101213A		SeqNo: 763130							
Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Aroclor 1016	ND	0.20	µg/L									
Aroclor 1221	ND	0.20	µg/L									
Aroclor 1232	ND	0.20	µg/L									
Aroclor 1242	ND	0.20	µg/L									
Aroclor 1248	ND	0.20	µg/L									
Aroclor 1254	ND	0.20	µg/L									
Aroclor 1260	ND	0.20	µg/L									
Surr: Decachlorobiphenyl	0.06235	0	µg/L	0.064	0	97.4	20	119	0			
Surr: Tetrachloro-m-xylene	0.05451	0	µg/L	0.064	0	85.2	34	113	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

Date: 23-Dec-10

CLIENT: GEL Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	LCS-20902	Batch ID: 20902	Test Code: E608	Units: µg/L	Analysis Date	12/13/10 10:06:00 PM	Prep Date	12/13/10				
Client ID:			Run ID: GC-TRENT_101213A		SeqNo: 763131							
Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Aroclor 1016	3.234	0.20	µg/L	4	0	80.8	50	114	0			
Aroclor 1260	3.622	0.20	µg/L	4	0	90.6	8	127	0			
Surr: Decachlorobiphenyl	0.06424	0	µg/L	0.064	0	100	20	119	0			
Surr: Tetrachloro-m-xylene	0.05818	0	µg/L	0.064	0	90.9	34	113	0			

Sample ID	LCSD-20902	Batch ID: 20902	Test Code: E608	Units: µg/L	Analysis Date	12/13/10 10:33:00 PM	Prep Date	12/13/10				
Client ID:			Run ID: GC-TRENT_101213A		SeqNo: 763132							
Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Aroclor 1016	3.204	0.20	µg/L	4	0	80.1	51	125	3.234	0.934	50	
Aroclor 1260	3.456	0.20	µg/L	4	0	86.4	50	133	3.622	4.69	50	
Surr: Decachlorobiphenyl	0.06058	0	µg/L	0.064	0	94.7	20	119	0	0	0	
Surr: Tetrachloro-m-xylene	0.05161	0	µg/L	0.064	0	80.6	34	113	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 17-Jan-11

CLIENT: GEI Consultants, Inc.
Lab Order: 1012028
Project: 100950 620 Washington St.
Lab ID: 1012028-01H

Client Sample ID: 100950-RWG-104
Collection Date: 12/9/2010 9:28:00 AM
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP- TOTAL METALS BY 200.7		E200.7				Analyst: AL
Barium	ND	200		µg/L	1	12/14/2010 6:13:33 PM
Chromium	ND	10		µg/L	1	12/14/2010 6:13:33 PM
Copper	ND	25		µg/L	1	12/14/2010 6:13:33 PM
Iron	590	100		µg/L	1	12/14/2010 6:13:33 PM
Nickel	ND	40		µg/L	1	12/14/2010 6:13:33 PM
Zinc	ND	20		µg/L	1	12/14/2010 6:13:33 PM
SILVER, TOTAL		E200.9_AG				Analyst: REB
Silver	ND	1.0		µg/L	1	12/20/2010 6:01:27 PM
ARSENIC, TOTAL		E200.9_AS				Analyst: REB
Arsenic	2.2	2.0		µg/L	1	12/20/2010 11:42:01 AM
CADMIUM, TOTAL		E200.9_CD				Analyst: REB
Cadmium	ND	1.0		µg/L	1	12/21/2010 11:07:27 AM
LEAD, TOTAL		E200.9_PB				Analyst: REB
Lead	ND	2.0		µg/L	1	12/21/2010 3:34:03 PM
ANTIMONY, TOTAL		E200.9_SB				Analyst: REB
Antimony	ND	5.0		µg/L	1	12/21/2010 1:41:53 PM
SELENIUM, TOTAL		E200.9_SE				Analyst: REB
Selenium	ND	5.0		µg/L	1	12/20/2010 1:37:13 PM
MERCURY, TOTAL		E245.1				Analyst: AL
Mercury	ND	0.20		µg/L	1	12/16/2010 8:52:26 AM

AMRO Environmental Laboratories Corp.

Date: 17-Jan-11

CLIENT: GEI Consultants, Inc.**Client Sample ID:** 100950-RWG-112**Lab Order:** 1012028**Collection Date:** 12/9/2010 10:40:00 AM**Project:** 100950 620 Washington St.**Matrix:** GROUNDWATER**Lab ID:** 1012028-02H

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP- TOTAL METALS BY 200.7	E200.7					Analyst: AL
Barium	ND	200		µg/L	1	12/14/2010 6:58:39 PM
Chromium	ND	10		µg/L	1	12/14/2010 6:58:39 PM
Copper	ND	25		µg/L	1	12/14/2010 6:58:39 PM
Iron	5,500	100		µg/L	1	12/14/2010 6:58:39 PM
Nickel	ND	40		µg/L	1	12/14/2010 6:58:39 PM
Zinc	88	20		µg/L	1	12/14/2010 6:58:39 PM
SILVER, TOTAL	E200.9_AG					Analyst: REB
Silver	ND	1.0		µg/L	1	12/20/2010 6:15:49 PM
ARSENIC, TOTAL	E200.9_AS					Analyst: REB
Arsenic	120	4.0		µg/L	2	12/20/2010 11:58:46 AM
CADMIUM, TOTAL	E200.9_CD					Analyst: REB
Cadmium	ND	1.0		µg/L	1	12/21/2010 11:21:57 AM
LEAD, TOTAL	E200.9_PB					Analyst: REB
Lead	ND	2.0		µg/L	1	12/21/2010 3:55:01 PM
ANTIMONY, TOTAL	E200.9_SB					Analyst: REB
Antimony	ND	5.0		µg/L	1	12/21/2010 1:55:38 PM
SELENIUM, TOTAL	E200.9_SE					Analyst: REB
Selenium	ND	5.0		µg/L	1	12/20/2010 1:51:57 PM
MERCURY, TOTAL	E245.1					Analyst: AL
Mercury	ND	0.20		µg/L	1	12/15/2010 4:39:11 PM

AMRO Environmental Laboratories Corp.

Date: 17-Jan-11

CLIENT: GEI Consultants, Inc.
Lab Order: 1012028
Project: 100950 620 Washington St.
Lab ID: 1012028-03A

Client Sample ID: 100950-RWG-104
Collection Date: 12/9/2010 9:28:00 AM
Matrix: GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP- DISSOLVED METALS BY 200.7	E200.7					Analyst: AL
Barium	ND	200		µg/L	1	12/14/2010 7:04:39 PM
Chromium	ND	10		µg/L	1	12/14/2010 7:04:39 PM
Copper	ND	25		µg/L	1	12/14/2010 7:04:39 PM
Iron	ND	100		µg/L	1	12/14/2010 7:04:39 PM
Nickel	ND	40		µg/L	1	12/14/2010 7:04:39 PM
Zinc	ND	20		µg/L	1	12/14/2010 7:04:39 PM
SILVER, DISSOLVED	E200.9_AG					Analyst: REB
Silver	ND	1.0		µg/L	1	12/20/2010 6:21:21 PM
ARSENIC, DISSOLVED	E200.9_AS					Analyst: REB
Arsenic	2.1	2.0		µg/L	1	12/20/2010 12:04:21 PM
CADMIUM, DISSOLVED	E200.9_CD					Analyst: REB
Cadmium	ND	1.0		µg/L	1	12/21/2010 11:34:03 AM
LEAD, DISSOLVED	E200.9_PB					Analyst: REB
Lead	ND	2.0		µg/L	1	12/21/2010 4:06:31 PM
ANTIMONY, DISSOLVED	E200.9_SB					Analyst: REB
Antimony	ND	5.0		µg/L	1	12/21/2010 2:01:55 PM
SELENIUM, DISSOLVED	E200.9_SE					Analyst: REB
Selenium	ND	5.0		µg/L	1	12/20/2010 2:04:12 PM
MERCURY, DISSOLVED	E245.1					Analyst: AL
Mercury	ND	0.20		µg/L	1	12/16/2010 8:56:27 AM

AMRO Environmental Laboratories Corp.

Date: 17-Jan-11

CLIENT: GEI Consultants, Inc.**Client Sample ID:** 100950-RWG-112**Lab Order:** 1012028**Collection Date:** 12/9/2010 10:40:00 AM**Project:** 100950 620 Washington St.**Matrix:** GROUNDWATER**Lab ID:** 1012028-04A

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ICP- DISSOLVED METALS BY 200.7						
	E200.7					Analyst: AL
Barium	ND	200		µg/L	1	12/14/2010 7:09:14 PM
Chromium	ND	10		µg/L	1	12/14/2010 7:09:14 PM
Copper	ND	25		µg/L	1	12/14/2010 7:09:14 PM
Iron	5,100	100		µg/L	1	12/14/2010 7:09:14 PM
Nickel	ND	40		µg/L	1	12/14/2010 7:09:14 PM
Zinc	80	20		µg/L	1	12/14/2010 7:09:14 PM
SILVER, DISSOLVED						
	E200.9_AG					Analyst: REB
Silver	ND	1.0		µg/L	1	12/20/2010 6:27:12 PM
ARSENIC, DISSOLVED						
	E200.9_AS					Analyst: REB
Arsenic	110	8.0		µg/L	4	12/22/2010 12:27:56 PM
CADMIUM, DISSOLVED						
	E200.9_CD					Analyst: REB
Cadmium	ND	1.0		µg/L	1	12/21/2010 11:40:06 AM
LEAD, DISSOLVED						
	E200.9_PB					Analyst: REB
Lead	ND	2.0		µg/L	1	12/21/2010 4:18:29 PM
ANTIMONY, DISSOLVED						
	E200.9_SB					Analyst: REB
Antimony	ND	5.0		µg/L	1	12/21/2010 2:07:28 PM
SELENIUM, DISSOLVED						
	E200.9_SE					Analyst: REB
Selenium	ND	5.0		µg/L	1	12/20/2010 2:10:09 PM
MERCURY, DISSOLVED						
	E245.1					Analyst: AL
Mercury	ND	0.20		µg/L	1	12/16/2010 9:00:28 AM

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.
Project: 100950 620 Washington St.**Lab Order:** 1012028**Lab ID:** 1012028-01**Collection Date:** 12/9/2010 9:28:00 AM**Collection Time:****Client Sample ID:** 100950-RWG-104**Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
OIL & GREASE, TPH (NON-POLAR MATERIAL)	E1664					Analyst: AL
SGT-Hexane Extractable Material	ND	5.4		mg/L	1	12/16/2010
ION CHROMATOGRAPHY	E300					Analyst: REB
Chloride	18	0.50		mg/L	1	12/10/2010 11:18:14 AM
PHENOL, TOTAL	E420.1					Analyst: AL
Phenolics, Total Recoverable	ND	0.050		mg/L	1	12/17/2010
TOTAL SUSPENDED SOLIDS	SM2540 D					Analyst: DH
Suspended Solids (Residue, Non-Filterable)	11	4.0		mg/L	1	12/9/2010
HEXAVALENT CHROMIUM	M3500-CR					Analyst: AL
Chromium, Hexavalent	ND	0.010		mg/L	1	12/9/2010 3:00:00 PM
HEXAVALENT CHROMIUM, DISSOLVED	M3500-CR D					Analyst: AL
Chromium, Hexavalent	ND	0.010		mg/L	1	12/9/2010 3:00:00 PM
CHLORINE, TOTAL RESIDUAL (MODIFIED)	M4500-CL G					Analyst: AL
Chlorine, Total Residual	ND	0.10		mg/L	1	12/9/2010 2:50:00 PM
CYANIDE, TOTAL	SM4500-CN C,E					Analyst: AL
Cyanide	0.017	0.010		mg/L	1	12/16/2010

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.
Project: 100950 620 Washington St.**Lab Order:** 1012028**Lab ID:** 1012028-02**Collection Date:** 12/9/2010 10:40:00 AM**Collection Time:****Client Sample ID:** 100950-RWG-112**Matrix:** GROUNDWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
OIL & GREASE, TPH (NON-POLAR MATERIAL)	E1664					Analyst: AL
SGT-Hexane Extractable Material	ND	5.0		mg/L	1	12/16/2010
ION CHROMATOGRAPHY	E300					Analyst: REB
Chloride	9.8	0.50		mg/L	1	12/10/2010 11:18:14 AM
PHENOL, TOTAL	E420.1					Analyst: AL
Phenolics, Total Recoverable	ND	0.050		mg/L	1	12/17/2010
TOTAL SUSPENDED SOLIDS	SM2540 D					Analyst: DH
Suspended Solids (Residue, Non-Filterable)	ND	4.0		mg/L	1	12/9/2010
HEXAVALENT CHROMIUM	M3500-CR					Analyst: AL
Chromium, Hexavalent	ND	2.5		mg/L	250	12/9/2010 3:00:00 PM
HEXAVALENT CHROMIUM, DISSOLVED	M3500-CR D					Analyst: AL
Chromium, Hexavalent	ND	2.5		mg/L	250	12/9/2010 3:00:00 PM
CHLORINE, TOTAL RESIDUAL (MODIFIED)	M4500-CL G					Analyst: AL
Chlorine, Total Residual	ND	0.10		mg/L	1	12/9/2010 2:50:00 PM
CYANIDE, TOTAL	SM4500-CN C,E					Analyst: AL
Cyanide	ND	0.010		mg/L	1	12/16/2010

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Method Blank

Sample ID	MB-20913	Batch ID: 20913	Test Code: E200.7	Units: µg/L	Analysis Date	12/14/10 6:02:58 PM	Prep Date	12/14/10			
Client ID:			Run ID:	ICP-OPTIMA_101214B	SeqNo:	763259					
Analyte	QC Sample	Result	RL	Units	QC Spike Amount	Original Sample Result	HighLimit	LowLimit	%RPD	RPDLimit	Qua
Barium	ND	ND	200	µg/L							
Chromium	ND	ND	10	µg/L							
Copper	ND	ND	25	µg/L							
Iron	ND	ND	100	µg/L							
Nickel	ND	ND	40	µg/L							

Sample ID	MB-20913	Batch ID: 20913	Test Code: E200.9_Ag		Units: µg/L	Analysis Date 12/20/10 5:56:01 PM		Prep Date 12/14/10			
Client ID:			Run ID:	AANALYST 600_101220		SeqNo: 763901					
Analyte	QC Sample	Result	RL	Units	QC Spike Amount	Original Sample Result	HighLimit	LowLimit	%RPD	RPDLimit	Qua
Silver		ND	1.0	µg/L							

Sample ID	MB-20913	Batch ID: 20913	Test Code: E200.9_As	Units: µg/L	Analysis Date	12/20/10 11:36:14 AM	Prep Date	12/14/10			
Client ID:			Run ID: AANALYST 600_101220		SeqNo:	763818					
Analyte	QC Sample	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	HighLimit	LowLimit	%RPD	RPDLimit	Qua
Arsenic		ND	2.0	µg/L							

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Method Blank

Sample ID	MB-20913	Batch ID: R45975	Test Code: E200.9_Cd	Units: µg/L	Analysis Date	12/21/10 11:02:00 AM	Prep Date	
Client ID:			Run ID: AANALYST 600_101221		SeqNo: 763988			
Analyte	QC Sample	QC Spike	Original Sample	Result	%REC	LowLimit	HighLimit	Original Sample or MS Result
Cadmium	ND	1.0	µg/L					%RPD RPDLimit Qua

Sample ID	MB-20913	Batch ID: 20913	Test Code: E200.9_Pb	Units: µg/L	Analysis Date	12/21/10 3:28:11 PM	Prep Date	12/14/10
Client ID:			Run ID: AANALYST 600_101221		SeqNo: 764037			
Analyte	QC Sample	QC Spike	Original Sample	Result	%REC	LowLimit	HighLimit	Original Sample or MS Result
Lead	ND	2.0	µg/L					%RPD RPDLimit Qua

Sample ID	MB-20913	Batch ID: 20913	Test Code: E200.9_Sb	Units: µg/L	Analysis Date	12/21/10 1:36:26 PM	Prep Date	12/14/10
Client ID:			Run ID: AANALYST 600_101221		SeqNo: 764015			
Analyte	QC Sample	QC Spike	Original Sample	Result	%REC	LowLimit	HighLimit	Original Sample or MS Result
Antimony	ND	5.0	µg/L					%RPD RPDLimit Qua

Sample ID	MB-20913	Batch ID: 20913	Test Code: E200.9_Se	Units: µg/L	Analysis Date	12/20/10 1:31:23 PM	Prep Date	12/14/10
Client ID:			Run ID: AANALYST 600_101220		SeqNo: 763865			
Analyte	QC Sample	QC Spike	Original Sample	Result	%REC	LowLimit	HighLimit	Original Sample or MS Result
Selenium	ND	5.0	µg/L					%RPD RPDLimit Qua

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

Date: 30-Dec-10

CLIENT: GEI Cons
Work Order: 1012028

QC SUMMARY REPORT
Method Blank

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	NA - Not applicable where J values or ND results occur
	RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.		

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID LCS-20913 Batch ID: 20913 Test Code: E200.7 Units: µg/L Analysis Date 12/14/10 6:07:30 PM Prep Date 12/14/10
Client ID: Run ID: ICP-OPTIMA_101214B SeqNo: 763260

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Barium	4075	200	µg/L	4028	0	101	85	115	115	0		
Chromium	3821	10	µg/L	3976	0	96.1	85	115	115	0		
Copper	1958	25	µg/L	2004	0	97.7	85	115	115	0		
Iron	3977	100	µg/L	4004	0	99.3	85	115	115	0		
Nickel	4067	40	µg/L	3984	0	102	85	115	115	0		

Sample ID LCS-20913 Batch ID: 20913 Test Code: E200.9_Ag Units: µg/L Analysis Date 12/20/10 5:58:44 PM Prep Date 12/14/10
Client ID: Run ID: AANALYST 600_101220 SeqNo: 763902

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Silver	4.041	1.0	µg/L	4	0	101	85	115	115	0		

Sample ID LCS-20913 Batch ID: 20913 Test Code: E200.9_As Units: µg/L Analysis Date 12/20/10 11:39:18 AM Prep Date 12/14/10
Client ID: Run ID: AANALYST 600_101220 SeqNo: 763819

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Arsenic	20.17	2.0	µg/L	20	0	101	85	115	115	0		*

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	LCS-20913	Batch ID: R45975	Test Code: E200.9_Cd	Units: µg/L	Analysis Date	12/21/10 11:04:43 AM	Prep Date	
Client ID:			Run ID: AANALYST 600_101221		SeqNo: 763989			

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Cadmium	10.13	1.0	µg/L	10	0	101	85	115	0			*

Sample ID	LCS-20913	Batch ID: 20913	Test Code: E200.9_Pb	Units: µg/L	Analysis Date	12/21/10 3:30:53 PM	Prep Date	12/14/10
Client ID:			Run ID: AANALYST 600_101221		SeqNo: 764038			

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Lead	20.17	2.0	µg/L	20	0	101	85	115	0			*

Sample ID	LCS-20913	Batch ID: 20913	Test Code: E200.9_Sb	Units: µg/L	Analysis Date	12/21/10 1:39:09 PM	Prep Date	12/14/10
Client ID:			Run ID: AANALYST 600_101221		SeqNo: 764016			

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Antimony	21.04	5.0	µg/L	20	0	105	85	115	0			*

Sample ID	LCS-20913	Batch ID: 20913	Test Code: E200.9_Se	Units: µg/L	Analysis Date	12/20/10 1:34:18 PM	Prep Date	12/14/10
Client ID:			Run ID: AANALYST 600_101220		SeqNo: 763866			

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Selenium	18.97	5.0	µg/L	20	0	94.9	85	115	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	ics-20921	Batch ID: 20921	Test Code: E245.1	Units: µg/L	Analysis Date	12/15/10 4:31:00 PM	Prep Date	12/15/10
Client ID:			Run ID: HG-FIMS_101215A		SeqNo:	763476		
Analyte		QC Sample	QC Spike	Original Sample				
		Result	Amount	Result	LowLimit	HighLimit	%RPD	RPDLimit
Mercury		3.731	µg/L	0	85	115	0	0
Sample ID	icsd-20921	Batch ID: 20921	Test Code: E245.1	Units: µg/L	Analysis Date	12/15/10 4:35:05 PM	Prep Date	12/15/10
Client ID:			Run ID: HG-FIMS_101215A		SeqNo:	763477		
Analyte		QC Sample	QC Spike	Original Sample				
		Result	Amount	Result	LowLimit	HighLimit	%RPD	RPDLimit
Mercury		3.86	µg/L	0	85	115	3.4	20

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Sample Duplicate

Sample ID	1012028-01HD	Batch ID	20913	Test Code	E200.7	Units	µg/L	Analysis Date	12/14/10 6:40:34 PM	Prep Date	12/14/10				
Client ID	100950-RWG-104			Run ID	ICP-OPTIMA_101214B			SeqNo:	763266						
Analyte		QC Sample	Result	RL	Units	Amount	QC Spike Original Sample	Result	%REC	LowLimit	HighLimit	Original Sample	%RPD	RPDLimit	Qual
Barium			2.735	200	µg/L	0	0	0	0	0	0	2.639	3.55	20	J
Chromium			2.096	10	µg/L	0	0	0	0	0	0	2.479	16.8	20	J
Copper			14.44	25	µg/L	0	0	0	0	0	0	15.73	8.56	20	J
Iron			476.1	100	µg/L	0	0	0	0	0	0	592.2	21.7	20	R
Nickel			2.036	40	µg/L	0	0	0	0	0	0	1.329	42	20	JR

Sample ID	1012028-01HD	Batch ID	20913	Test Code	E200.9_Ag	Units	µg/L	Analysis Date	12/20/10 6:07:41 PM	Prep Date	12/14/10				
Client ID	100950-RWG-104			Run ID	AANALYST 600_101220			SeqNo:	763905						
Analyte		QC Sample	Result	RL	Units	Amount	QC Spike Original Sample	Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qual
Silver		ND		1.0	µg/L	0	0	0	0	0	0	0	0	20	

Sample ID	1012028-01HD	Batch ID:	20913	Test Code:	E200.9_As	Units:	µg/L	Analysis Date	12/20/10 11:47:56 AM	Prep Date	12/14/10				
Client ID:	100950-RWG-104	Run ID:	AANALYST 600_101220	SeqNo:	763822										
Analyte		QC Sample	Result	RL	Units	Amount	QC Spike Original Sample	Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Arsenic		2.325		2.0	µg/L	0	0	0	0	0	0	2.156	7.55	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Sample Duplicate

Sample ID 1012028-01HD Batch ID: R45975 Test Code: E200.9_Cd Units: µg/L Analysis Date 12/21/10 11:10:09 AM Prep Date
Client ID: 100950-RWG-104 Run ID: AANALYST 600_101221 SeqNo: 763991

Analyte	QC Sample Result	QC Spike Original Sample Amount	QC Spike Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Cadmium	ND	0	0	0	0	0	0	0	0	20

Sample ID 1012028-01HD Batch ID: 20913 Test Code: E200.9_Pb Units: µg/L Analysis Date 12/21/10 3:46:01 PM Prep Date 12/14/10
Client ID: 100950-RWG-104 Run ID: AANALYST 600_101221 SeqNo: 764043

Analyte	QC Sample Result	QC Spike Original Sample Amount	QC Spike Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Lead	1.315	0	0	0	0	0	1.143	14	20	J

Sample ID 1012028-01HD Batch ID: 20913 Test Code: E200.9_Sb Units: µg/L Analysis Date 12/21/10 1:44:36 PM Prep Date 12/14/10
Client ID: 100950-RWG-104 Run ID: AANALYST 600_101221 SeqNo: 764018

Analyte	QC Sample Result	QC Spike Original Sample Amount	QC Spike Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Antimony	ND	0	0	0	0	0	0	0	0	20

Sample ID 1012028-01HD Batch ID: 20913 Test Code: E200.9_Se Units: µg/L Analysis Date 12/20/10 1:43:11 PM Prep Date 12/14/10
Client ID: 100950-RWG-104 Run ID: AANALYST 600_101220 SeqNo: 753869

Analyte	QC Sample Result	QC Spike Original Sample Amount	QC Spike Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Selenium	ND	0	0	0	0	0	0	0	0	20

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.
Work Order: 1012028
Project: 100950 620 Washington St.
QC SUMMARY REPORT
 Sample Duplicate

Sample ID	1012028-02hd	Batch ID	20921	Test Code	E245.1	Units	µg/L	Analysis Date	12/15/10 4:43:16 PM	Prep Date	12/15/10												
Client ID	100950-RWG-112	Run ID	HG-FIMS_101215A	SeqNo	763479																		
Analyte	Mercury	QC Sample Result	ND	RL	0.20	Units	µg/L	QC Spike Amount	0	%REC	0	Result	0	HighLimit	0	LowLimit	0	%RPD	0	RPDLimit	0	Qua	20

Qualifiers: ND - Not Detected at the Reporting Limit
 S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantification limits
 R - RPD outside accepted recovery limits
 NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 1012028-01HMS Batch ID: 20913 Test Code: E200.7 Units: µg/L Analysis Date: 12/14/10 6:46:28 PM Prep Date: 12/14/10
Client ID: 100950-RWG-104 Run ID: ICP-OPTIMA_101214B SeqNo: 763267

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Barium	4131	200	µg/L	4028	2.639	102	70	130	0			
Chromium	3922	10	µg/L	3976	2.479	98.6	70	130	0			
Copper	2047	25	µg/L	2004	15.73	101	70	130	0			
Iron	4477	100	µg/L	4004	592.2	97	70	130	0			
Nickel	4164	40	µg/L	3984	1.329	104	70	130	0			

Sample ID: 1012028-01HMSD Batch ID: 20913 Test Code: E200.7 Units: µg/L Analysis Date: 12/14/10 6:52:34 PM Prep Date: 12/14/10
Client ID: 100950-RWG-104 Run ID: ICP-OPTIMA_101214B SeqNo: 763268

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Barium	4139	200	µg/L	4028	2.639	103	70	130	4131	0.203	20	
Chromium	3993	10	µg/L	3976	2.479	100	70	130	3922	1.8	20	
Copper	2041	25	µg/L	2004	15.73	101	70	130	2047	0.266	20	
Iron	4559	100	µg/L	4004	592.2	99.1	70	130	4477	1.82	20	
Nickel	4180	40	µg/L	3984	1.329	105	70	130	4164	0.381	20	

Sample ID: 1012028-01HMS Batch ID: 20913 Test Code: E200.9_Ag Units: µg/L Analysis Date: 12/20/10 6:10:24 PM Prep Date: 12/14/10
Client ID: 100950-RWG-104 Run ID: AANALYST 600_101220 SeqNo: 763906

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Silver	4.1	1.0	µg/L	4	0	102	70	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

CLIENT: GEI Consultants, Inc.
Work Order: 1012028
Project: 100950 620 Washington St.

Sample ID 1012028-01HMSD Batch ID: 20913 Test Code: E200.9_Ag Units: µg/L Analysis Date 12/20/10 6:13:07 PM Prep Date 12/14/10
Client ID: 100950-RWG-104 Run ID: AANALYST 600_101220 SeqNo: 763907

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Silver	4.063	1.0	µg/L	4	0	102	70	130	4.1	0.904	0	

Sample ID 1012028-01HMS Batch ID: 20913 Test Code: E200.9_As Units: µg/L Analysis Date 12/20/10 11:50:38 AM Prep Date 12/14/10
Client ID: 100950-RWG-104 Run ID: AANALYST 600_101220 SeqNo: 763823

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Arsenic	25.36	2.0	µg/L	20	2.156	116	70	130	0		*	

Sample ID 1012028-01HMSD Batch ID: 20913 Test Code: E200.9_As Units: µg/L Analysis Date 12/20/10 11:53:20 AM Prep Date 12/14/10
Client ID: 100950-RWG-104 Run ID: AANALYST 600_101220 SeqNo: 763824

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Arsenic	24.8	2.0	µg/L	20	2.156	113	70	130	25.36	2.22	0	*

Sample ID 1012028-01HMS Batch ID: R45975 Test Code: E200.9_Cd Units: µg/L Analysis Date 12/21/10 11:16:31 AM Prep Date
Client ID: 100950-RWG-104 Run ID: AANALYST 600_101221 SeqNo: 763993

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Cadmium	10.43	1.0	µg/L	10	0	104	70	130	0		*	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
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RL - Reporting Limit, defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.
Work Order: 1012028
Project: 100950 620 Washington St.

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Sample ID	1012028-01HMSD	Batch ID: R45975	Test Code: E200.9_Cd	Units: µg/L	Analysis Date	12/21/10 11:19:14 AM	Prep Date	
Client ID:	100950-RWG-104		Run ID: AANALYST 600_101221		SeqNo:	763994		
Analyte	QC Sample	QC Spike	Original Sample		LowLimit	HighLimit	%RPD	RPDLimit
	Result	Amount	Result	%REC				Qua
Cadmium	10.99	µg/L	10	0	110	70	10.43	20 *
Sample ID	1012028-01HMS	Batch ID: 20913	Test Code: E200.9_Pb	Units: µg/L	Analysis Date	12/21/10 3:48:43 PM	Prep Date	12/14/10
Client ID:	100950-RWG-104		Run ID: AANALYST 600_101221		SeqNo:	764044		
Analyte	QC Sample	QC Spike	Original Sample		LowLimit	HighLimit	%RPD	RPDLimit
	Result	Amount	Result	%REC				Qua
Lead	22.73	µg/L	20	1.143	108	70	0	*
Sample ID	1012028-01HMSD	Batch ID: 20913	Test Code: E200.9_Pb	Units: µg/L	Analysis Date	12/21/10 3:51:52 PM	Prep Date	12/14/10
Client ID:	100950-RWG-104		Run ID: AANALYST 600_101221		SeqNo:	764045		
Analyte	QC Sample	QC Spike	Original Sample		LowLimit	HighLimit	%RPD	RPDLimit
	Result	Amount	Result	%REC				Qua
Lead	22.37	µg/L	20	1.143	106	70	22.73	20 *
Sample ID	1012028-01HMS	Batch ID: 20913	Test Code: E200.9_Sb	Units: µg/L	Analysis Date	12/21/10 1:50:10 PM	Prep Date	12/14/10
Client ID:	100950-RWG-104		Run ID: AANALYST 600_101221		SeqNo:	764020		
Analyte	QC Sample	QC Spike	Original Sample		LowLimit	HighLimit	%RPD	RPDLimit
	Result	Amount	Result	%REC				Qua
Antimony	24.39	µg/L	20	0	122	70	0	*

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
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RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Sample ID	1012028-01HMSD	Batch ID: 20913	Test Code: E200.9_Sb		Units: µg/L	Analysis Date 12/21/10 1:52:54 PM		Prep Date 12/14/10					
Client ID:	100950-RWG-104		Run ID:	AANALYST 600_101221		SeqNo:	764021						
Analyte	QC Sample	Result	RL	Units	QC Spike Original Sample Amount	Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qual
Antimony		22.92	5.0	µg/L	20	0	115	70	130	24.39	6.21	20	*
Sample ID	1012028-01HMS	Batch ID: 20913	Test Code: E200.9_Se		Units: µg/L	Analysis Date 12/20/10 1:46:06 PM		Prep Date 12/14/10					
Client ID:	100950-RWG-104		Run ID:	AANALYST 600_101220		SeqNo:	763870						
Analyte	QC Sample	Result	RL	Units	QC Spike Original Sample Amount	Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qual
Selenium		18.95	5.0	µg/L	20	0	94.8	70	130	0			
Sample ID	1012028-01HMSD	Batch ID: 20913	Test Code: E200.9_Se		Units: µg/L	Analysis Date 12/20/10 1:49:02 PM		Prep Date 12/14/10					
Client ID:	100950-RWG-104		Run ID:	AANALYST 600_101220		SeqNo:	763871						
Analyte	QC Sample	Result	RL	Units	QC Spike Original Sample Amount	Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qual
Selenium		17.96	5.0	µg/L	20	0	89.8	70	130	18.95	5.37	20	
Sample ID	1012028-02Hms	Batch ID: 20921	Test Code: E245.1		Units: µg/L	Analysis Date 12/16/10 8:44:23 AM		Prep Date 12/15/10					
Client ID:	100950-RWG-112		Run ID:	HG-FIMS_101215A		SeqNo:	763486						
Analyte	QC Sample	Result	RL	Units	QC Spike Original Sample Amount	Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qual
Mercury		4.22	0.20	µg/L	4	0	105	70	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Sample ID	1012028-02hmsd	Batch ID	20921	Test Code	E245.1	Units	µg/L	Analysis Date	12/16/10 8:48:27 AM	Prep Date	12/15/10
Client ID	100950-RWG-112	Run ID	HG-FIMS_101215A	SeqNo	763487						
Analyte	Mercury	QC Sample Result	4.249	RL	0.20	QC Spike Amount	4	QC Spike Original Sample Result	0	%REC	106
						Units	µg/L	LowLimit	70	HighLimit	130
								Original Sample or MS Result	4.22	%RPD	0.689
										RPDLimit	20

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
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AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Method Blank

Sample ID	MB-R45946	Batch ID: R45946	Test Code: E1664	Units: mg/L	Analysis Date	12/16/10	Prep Date
Client ID:			Run ID: ING-WET_101216B		SeqNo: 763585		
Analyte	QC Sample	Result	QC Spike	Original Sample	LowLimit	HighLimit	Original Sample
			Amount	Result	%REC		or MS Result
SGT-Hexane Extractable Material	ND		mg/L				%RPD RPDLimit Qua

Sample ID	MB-R45953	Batch ID: R45953	Test Code: E300	Units: mg/L	Analysis Date	12/10/10 11:18:14 AM	Prep Date
Client ID:			Run ID: DIONEX_101210A		SeqNo: 763692		
Analyte	QC Sample	Result	QC Spike	Original Sample	LowLimit	HighLimit	Original Sample
			Amount	Result	%REC		or MS Result
Chloride	ND		mg/L				%RPD RPDLimit Qua

Sample ID	MB-R45948	Batch ID: R45948	Test Code: E420.1	Units: mg/L	Analysis Date	12/17/10	Prep Date
Client ID:			Run ID: ING-WET_101217A		SeqNo: 763608		
Analyte	QC Sample	Result	QC Spike	Original Sample	LowLimit	HighLimit	Original Sample
			Amount	Result	%REC		or MS Result
Phenolics, Total Recoverable	ND		mg/L				%RPD RPDLimit Qua

Sample ID	MB-R45937	Batch ID: R45937	Test Code: SM2540 D	Units: mg/L	Analysis Date	12/9/10	Prep Date
Client ID:			Run ID: ING-WET_101209G		SeqNo: 763501		
Analyte	QC Sample	Result	QC Spike	Original Sample	LowLimit	HighLimit	Original Sample
			Amount	Result	%REC		or MS Result
Suspended Solids (Residue, Non	ND		mg/L				%RPD RPDLimit Qua

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Method Blank

Sample ID	MB-R45934	Batch ID: R45934	Test Code: M3500-Cr D	Units: mg/L	Analysis Date	12/9/10 3:00:00 PM	Prep Date
Client ID:			Run ID: ING-WET_101209F		SeqNo:	763401	
Analyte		QC Sample	QC Spike	Original Sample	LowLimit	HighLimit	Original Sample
		Result	Amount	Result	%REC	%RPD	or MS Result
Chromium, Hexavalent	ND	0.010	mg/L				RPDLimit
Qua							

Sample ID	MB-R45933	Batch ID: R45933	Test Code: M4500-CI G	Units: mg/L	Analysis Date	12/9/10 2:50:00 PM	Prep Date
Client ID:			Run ID: ING-WET_101209E		SeqNo:	763389	
Analyte		QC Sample	QC Spike	Original Sample	LowLimit	HighLimit	Original Sample
		Result	Amount	Result	%REC	%RPD	or MS Result
Chlorine, Total Residual	ND	0.10	mg/L				RPDLimit
Qua							

Sample ID	MB-R45954	Batch ID: R45954	Test Code: SM4500-CN	Units: mg/L	Analysis Date	12/16/10	Prep Date
Client ID:			Run ID: ING-WET_101216C		SeqNo:	763702	
Analyte		QC Sample	QC Spike	Original Sample	LowLimit	HighLimit	Original Sample
		Result	Amount	Result	%REC	%RPD	or MS Result
Cyanide	ND	0.010	mg/L				RPDLimit
Qua							

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEL Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	LCS-R45946	Batch ID: R45946	Test Code: E1664	Units: mg/L	Analysis Date	12/16/10	Prep Date
Client ID:			Run ID: ING-WET_101216B		SeqNo:	763586	

Analyte	QC Sample Result	RL	QC Spike Amount	Units	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
SGT-Hexane Extractable Material	19.8	5.0	20	mg/L	0	99	42.4	144	0			

Sample ID	LCS-R45953	Batch ID: R45953	Test Code: E300	Units: mg/L	Analysis Date	12/10/10 11:18:14 AM	Prep Date
Client ID:			Run ID: DIONEX_101210A		SeqNo:	763693	

Analyte	QC Sample Result	RL	QC Spike Amount	Units	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Chloride	11.82	0.50	12	mg/L	0	98.5	90	110	0			

Sample ID	LCSD-R45953	Batch ID: R45953	Test Code: E300	Units: mg/L	Analysis Date	12/10/10 11:18:14 AM	Prep Date
Client ID:			Run ID: DIONEX_101210A		SeqNo:	763696	

Analyte	QC Sample Result	RL	QC Spike Amount	Units	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Chloride	11.74	0.50	12	mg/L	0	97.8	90	110	11.82	0.62	20	

Sample ID	LCS-R45948	Batch ID: R45948	Test Code: E420.1	Units: mg/L	Analysis Date	12/17/10	Prep Date
Client ID:			Run ID: ING-WET_101217A		SeqNo:	763609	

Analyte	QC Sample Result	RL	QC Spike Amount	Units	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Phenolics, Total Recoverable	0.476	0.050	0.5	mg/L	0	95.2	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID	ICSD-R45948	Batch ID: R45948	Test Code: E420.1	Units: mg/L	Analysis Date	12/17/10	Prep Date
Client ID:			Run ID: ING-WET_101217A		SeqNo: 763615		
Analyte	QC Sample	Result	RL	Units	QC Spike Amount	Original Sample Result	Original Sample HighLimit
Phenolics, Total Recoverable	0.492	0.050	0.050	mg/L	0.5	0	80
						%REC	LowLimit
						98.4	120
						0.476	3.31
							20

Sample ID	LCS-R45937	Batch ID: R45937	Test Code: SM2540 D	Units: mg/L	Analysis Date	12/9/10	Prep Date
Client ID:			Run ID: ING-WET_101209G		SeqNo: 763502		
Analyte	QC Sample	Result	RL	Units	QC Spike Amount	Original Sample Result	Original Sample HighLimit
Suspended Solids (Residue, Non	583	4.0	4.0	mg/L	559	0	76
						%REC	LowLimit
						104	112
						0	

Sample ID	LCS-R45934	Batch ID: R45934	Test Code: M3500-Cr D	Units: mg/L	Analysis Date	12/9/10 3:00:00 PM	Prep Date
Client ID:			Run ID: ING-WET_101209F		SeqNo: 763402		
Analyte	QC Sample	Result	RL	Units	QC Spike Amount	Original Sample Result	Original Sample HighLimit
Chromium, Hexavalent	0.051	0.010	0.010	mg/L	0.05	0	90
						%REC	LowLimit
						102	110
						0	

Sample ID	ICSD-R45934	Batch ID: R45934	Test Code: M3500-Cr D	Units: mg/L	Analysis Date	12/9/10 3:00:00 PM	Prep Date
Client ID:			Run ID: ING-WET_101209F		SeqNo: 763408		
Analyte	QC Sample	Result	RL	Units	QC Spike Amount	Original Sample Result	Original Sample HighLimit
Chromium, Hexavalent	0.049	0.010	0.010	mg/L	0.05	0	90
						%REC	LowLimit
						98	110
						0.051	4
							0

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID	LCS-R45933	Batch ID: R45933	Test Code: M4500-Cl G	Units: mg/L	Analysis Date	12/9/10 2:50:00 PM	Prep Date
Client ID:		Run ID: ING-WET_101209E	QC Spike Amount	Original Sample Result	SeqNo: 763390		

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Chlorine, Total Residual	0.904	0.10	mg/L	1	0	90.4	80	120	0			

Sample ID	ICSD-R45933	Batch ID: R45933	Test Code: M4500-Cl G	Units: mg/L	Analysis Date	12/9/10 2:50:00 PM	Prep Date
Client ID:		Run ID: ING-WET_101209E	QC Spike Amount	Original Sample Result	SeqNo: 763397		

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Chlorine, Total Residual	0.943	0.10	mg/L	1	0	94.3	80	120	0.904	4.22	0	

Sample ID	LCS-R45954	Batch ID: R45954	Test Code: SM4500-CN	Units: mg/L	Analysis Date	12/16/10	Prep Date
Client ID:		Run ID: ING-WET_101216C	QC Spike Amount	Original Sample Result	SeqNo: 763703		

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Cyanide	0.183	0.010	mg/L	0.2	0	91.5	84	114	0			

Sample ID	ICSD-R45954	Batch ID: R45954	Test Code: SM4500-CN	Units: mg/L	Analysis Date	12/16/10	Prep Date
Client ID:		Run ID: ING-WET_101216C	QC Spike Amount	Original Sample Result	SeqNo: 763709		

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Cyanide	0.196	0.010	mg/L	0.2	0	98	84	114	0.183	6.86	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit, defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 1012028-01BD	Batch ID: R45953	Test Code: E300	Units: mg/L	Analysis Date: 12/10/10 11:18:14 AM	Prep Date
Client ID: 100950-RWG-104	Run ID: DIONEX_101210A	SeqNo: 763697			

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Chloride	16.6	0.50	mg/L	0	0	0	0	0	18.04	8.3	20	

Sample ID: 1012028-01gd	Batch ID: R45948	Test Code: E420.1	Units: mg/L	Analysis Date: 12/17/10	Prep Date
Client ID: 100950-RWG-104	Run ID: ING-WET_101217A	SeqNo: 763613			

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Phenolics, Total Recoverable	ND	0.050	mg/L	0	0	0	0	0	0	0	20	

Sample ID: 1012028-01Cd	Batch ID: R45934	Test Code: M3500-Cr D	Units: mg/L	Analysis Date: 12/9/10 3:00:00 PM	Prep Date
Client ID: 100950-RWG-104	Run ID: ING-WET_101209F	SeqNo: 763405			

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Chromium, Hexavalent	ND	0.010	mg/L	0	0	0	0	0	0	0	20	

Sample ID: 1012028-01bd	Batch ID: R45933	Test Code: M4500-CI G	Units: mg/L	Analysis Date: 12/9/10 2:50:00 PM	Prep Date
Client ID: 100950-RWG-104	Run ID: ING-WET_101209E	SeqNo: 763395			

Analyte	QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	Original Sample or MS Result	%RPD	RPDLimit	Qua
Chlorine, Total Residual	ND	0.10	mg/L	0	0	0	0	0	0	0	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc. **QC SUMMARY REPORT**
 Work Order: 1012028
 Project: 100950 620 Washington St. Sample Duplicate

Sample ID	1012028-01id	Batch ID: R45954	Test Code: SM4500-CN	Units: mg/L	Analysis Date	12/16/10	Prep Date
Client ID:	100950-RWG-104	Run ID:	ING-WET_101216C		SeqNo:	763707	
Analyte		QC Sample		QC Spike	Original Sample		
		Result	RL	Amount	Result	HighLimit	LowLimit
Cyanide		0.016	0.010	mg/L	0	0	0
					%REC	%RPD	RPDLimit
					0	0	6.06
					0.017		20

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 NA - Not applicable where J values or ND results occur

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID	1012028-01fms	Batch ID: R45946	Test Code: E1664	Units: mg/L	Analysis Date	12/16/10	Prep Date
Client ID:	100950-RWG-104		Run ID: ING-WET_101216B		SeqNo: 763591		
Analyte		QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	Original Sample or MS Result
SGT-Hexane Extractable Material	20.11		5.3	mg/L	20	0	101
						78	114
							0
Sample ID	1012028-01BMS	Batch ID: R45953	Test Code: E300	Units: mg/L	Analysis Date	12/10/10 11:18:14 AM	Prep Date
Client ID:	100950-RWG-104		Run ID: DIONEX_101210A		SeqNo: 763698		
Analyte		QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	Original Sample or MS Result
Chloride	28.4		0.50	mg/L	12.5	18.04	82.9
						80	120
							0
Sample ID	1012028-01gms	Batch ID: R45948	Test Code: E420.1	Units: mg/L	Analysis Date	12/17/10	Prep Date
Client ID:	100950-RWG-104		Run ID: ING-WET_101217A		SeqNo: 763614		
Analyte		QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	Original Sample or MS Result
Phenolics, Total Recoverable	0.467		0.050	mg/L	0.5	0	93.4
						80	120
							0
Sample ID	1012028-02Bms	Batch ID: R45934	Test Code: M3500-Cr	Units: mg/L	Analysis Date	12/9/10 3:00:00 PM	Prep Date
Client ID:	100950-RWG-112		Run ID: ING-WET_101209F		SeqNo: 763411		
Analyte		QC Sample Result	RL	Units	QC Spike Amount	Original Sample Result	Original Sample or MS Result
Chromium, Hexavalent	11.25		2.5	mg/L	12.5	0	90
						80	120
							0

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID	1012028-01Bms	Batch ID: R45934	Test Code: M3500-Cr	Units: mg/L	Analysis Date	12/9/10 3:00:00 PM	Prep Date
Client ID:	100950-RWG-104		Run ID: ING-WET_101209F		SeqNo: 763412		
Analyte	QC Sample Result	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	%RPD
Chromium, Hexavalent	0.052	0.05	0	104	80	120	0
Sample ID	1012028-01Cms	Batch ID: R45934	Test Code: M3500-Cr D	Units: mg/L	Analysis Date	12/9/10 3:00:00 PM	Prep Date
Client ID:	100950-RWG-104		Run ID: ING-WET_101209F		SeqNo: 763406		
Analyte	QC Sample Result	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	%RPD
Chromium, Hexavalent	0.052	0.05	0	104	85	115	0
Sample ID	1012028-02Cms	Batch ID: R45934	Test Code: M3500-Cr D	Units: mg/L	Analysis Date	12/9/10 3:00:00 PM	Prep Date
Client ID:	100950-RWG-112		Run ID: ING-WET_101209F		SeqNo: 763407		
Analyte	QC Sample Result	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	%RPD
Chromium, Hexavalent	11	12.5	0	88	85	115	0
Sample ID	1012028-01bms	Batch ID: R45933	Test Code: M4500-Cl G	Units: mg/L	Analysis Date	12/9/10 2:50:00 PM	Prep Date
Client ID:	100950-RWG-104		Run ID: ING-WET_101209E		SeqNo: 763396		
Analyte	QC Sample Result	QC Spike Amount	Original Sample Result	%REC	LowLimit	HighLimit	%RPD
Chlorine, Total Residual	0.871	1	0	87.1	80	120	0

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.

AMRO Environmental Laboratories Corp.

Date: 30-Dec-10

CLIENT: GEI Consultants, Inc.

Work Order: 1012028

Project: 100950 620 Washington St.

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID	1012028-01ms	Batch ID: R45954	Test Code: SM4500-CN	Units: mg/L	Analysis Date	12/16/10	Prep Date
Client ID:	100950-RWG-104		Run ID: ING-WET_101216C		SeqNo:	763708	
Analyte		QC Sample	QC Spike	Original Sample			
		Result	Amount	Result	LowLimit	HighLimit	Original Sample or MS Result
Cyanide		0.191	0.2	0.017	66	123	0
			mg/L		%REC	%RPD	RPDLimit
					87		
							Qua

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits NA - Not applicable where J values or ND results occur
 RL - Reporting Limit; defined as the lowest concentration the laboratory can accurately quantitate.