

APR 30 2008



April 28, 2008
Project 06437-7

Geotechnical
Environmental and
Water Resources
Engineering

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

Dear Sir or Madam:

**Re: Notice of Intent
NPDES Remediation General Permit
Boston Medical Center
725 Albany Street/830-840 Harrison Avenue
Boston, MA**

On behalf of Boston Medical Center (BMC), 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 of the proposed New Ambulatory Building (NAB) and Menino Expansion at the BMC located at 725 Albany Street and 830-840 Harrison Avenue in Boston, Massachusetts (the Property; Fig. 1). The Property is bordered by the existing Menino Building to the west, Albany Street to the south, East Concord Street to the east, and the Surgical and Moakley Buildings to the north (Figs. 1 and 2). BMC plans to construct the NAB and Menino Expansion at the location of the existing 7-story, 91 East Concord Street building, the adjacent parking area, and next to the existing Menino Pavilion.

The work will occur within the Massachusetts Department of Environmental Protection (DEP) disposal site tracked under Release Tracking Number (RTN) 3-26855 (the Site). Concentrations of extractable petroleum hydrocarbons (EPH), polycyclic aromatic hydrocarbons (PAHs), and bis(2-ethylhexyl)phthalate 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 25, 2007. Soil and groundwater management activities that are planned at the Site will be conducted as a Release Abatement Measure (RAM) per the MCP.

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 petroleum-related compounds (such as PAHs or petroleum hydrocarbon fractions). We evaluated the proposed influent by collecting two groundwater samples from the Property. We collected one sample from monitoring well B504(OW) on March 7, 2008, and one sample from a temporary well on April 3, 2008 (Fig. 2). 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 confirmed the presence of metals and one PAH (pyrene). Although no petroleum hydrocarbons were detected by EPA Method 1664, 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 6.2 to 7.5 standard units. The lower range (6.2) is outside the RGP effluent limit for Massachusetts waters (6.5 to 8.3). Therefore, we request an expanded effluent limit range of 6.2 to 8.3 due to the naturally low pH in groundwater at the Property.

The collected water will be treated to remove suspended solids, if necessary volatile organic compounds (VOCs), 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 on Albany Street. The stormwater drainage system that will receive the discharge is owned and operated by Boston Water and Sewer Commission (BWSC). The drainage system directs the water in lines along Albany Street, then along and subsequently beneath the John F. Fitzgerald Expressway (Interstate 93 [I-93]), where the water joins a combined sewer overflow (CSO) and is ultimately directed to two outfalls (CSO070 and CSO071) at the Fort Point Channel. The discharge path from the Property to the Fort Point Channel is shown in Appendix C. We consulted with BWSC on March 28, 2008, specific requirements for discharge to their stormwater drainage system, which include obtaining a Dewatering Discharge Permit. At the request of BWSC, we also consulted with the Massachusetts Water Resources Authority (MWRA), since the ultimate discharge is to a CSO outfall. We contacted Mr. Walter Schultz of the MWRA on March 28, 2008, regarding who indicated that discharge through this system was not under the jurisdiction of MWRA and that it should be permitted under the NPDES.

Consultation with Federal Services

We reviewed the Massachusetts Geographical Information System (MassGIS) online data viewer. 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) or Habitats of Rare Wetland Wildlife. We also reviewed the Massachusetts Division of Fisheries and Wildlife (MassWildlife; Natural Heritage and Endangered Species Program) online data viewer. Based on this review, neither the Property nor the point where the proposed discharge reaches the receiving surface water body are Priority Habitats of Rare Species or Estimated Habitats of Rare Wildlife. Based on this information, consultation with federal and/or state officials was deemed not to be necessary.

We reviewed the U.S. National Parks Service Natural Historic Places (NPS) electronic database. Based on this review, neither the Property nor the point where the proposed discharge reaches the receiving surface water body is a listed National Historic Place. Based on this information, consultation with federal and/or state officials was deemed not to be 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 BMC, we are requesting coverage under the NPDES RGP for the discharge of recovered water during construction activities to the surface waters of the Fort Point Channel via the 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, BMC is the owner and has operational control over the construction plans and specifications, including the ability to make modifications to those plans and specifications. William A. Berry & Son, Inc. has been contracted by BMC and will direct the personnel responsible for the implementation and day-to-day operations and activities that are necessary to ensure compliance with the NPDES RGP, including operation, inspection, monitoring, and reporting.

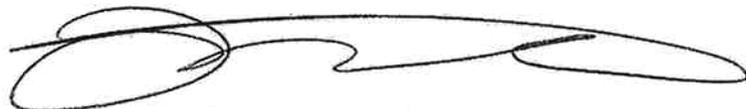
Discharge of treated water is scheduled to begin as early as May 12, 2008, pending authorization from the EPA.

The excavation and dewatering will be conducted as a RAM 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 781.721.4012 or igladstone@geiconsultants.com if you have any questions.

Very truly yours,

GEI CONSULTANTS, INC.



Ileen S. Gladstone, P.E., LSP, LEED AP
Vice President

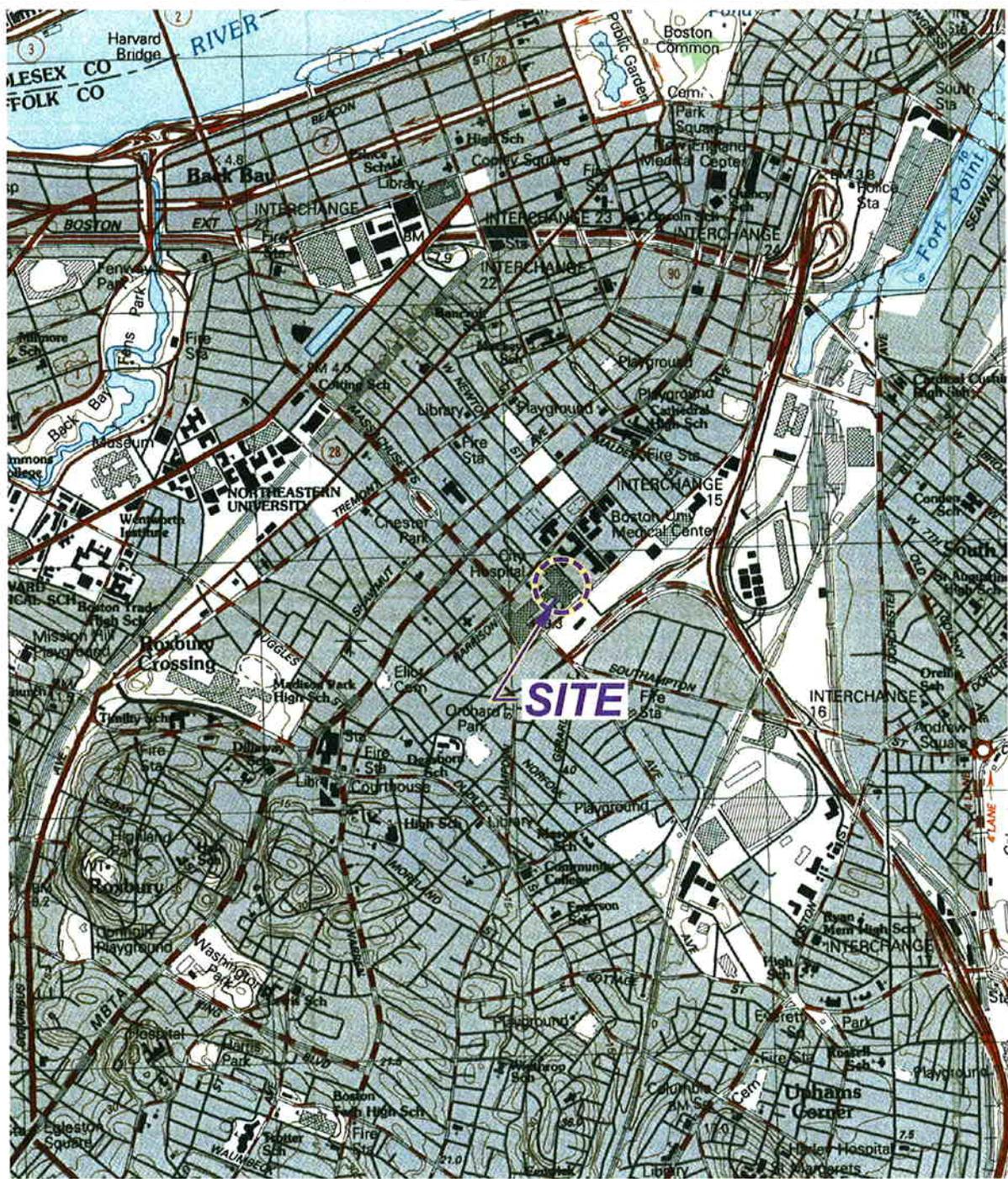
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Enclosures

c: Lorrie Adamz, Boston Medical Center
Douglas Karam, KVAssociates
Division of Watershed Management, DEP
Francis McLaughlin, Boston Water and Sewer Commission

Appendix A

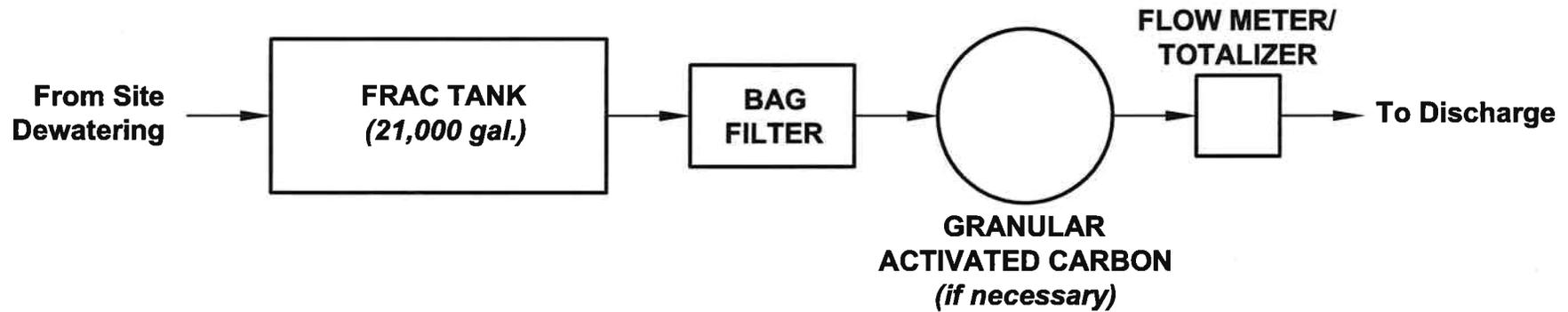
Remediation General Permit
Notice of Intent



This Image provided by MassGIS is from U.S.G.S. Topographic 7.5 X 15 Minute Series Boston South, MA Quadrangle, 1987. Datum is National Geodetic Vertical Datum (NGVD). Contour Interval is 3 Meters.



<p>Notice of Intent New Ambulatory Building and Menino Expansion Boston, Massachusetts</p>		<p>SITE LOCATION MAP</p>
<p>Boston Medical Center Boston, Massachusetts</p>	<p>Project 06437-7</p>	<p>April 2008 Fig. 1</p>



PROCESS FLOW DIAGRAM
Not to Scale

Notice of Intent New Ambulatory Building and Menino Expansion Boston, Massachusetts		PROCESS FLOW DIAGRAM
Boston Medical Center Boston, Massachusetts	Project 06437-7	April 2008 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 site information. Please provide the following information about the site:

a) Name of facility/site: Boston Medical Center		Facility/site address:		
Location of facility/site: longitude: <u>-71.0730</u> latitude: <u>42.3347</u>	Facility SIC code(s): <u>8060</u>	Street: <u>725 Albany Street / 830-840 Harrison Avenue</u>		
b) Name of facility/site owner: Boston Medical Center		Town: Boston		
Email address of owner: <u>jeff.lussier@bmc.org</u>		State:	Zip:	County:
Telephone no. of facility/site owner: <u>617-638-5776</u>		<u>MA</u>	<u>02118</u>	<u>Suffolk</u>
Fax no. of facility/site owner: <u>617-638-5784</u>		Owner is (check one): 1. Federal <input type="checkbox"/> 2. State/Tribal <input type="checkbox"/>		
Address of owner (if different from site): <u>750 Albany Street, 1st Floor</u>		3. Private <input checked="" type="checkbox"/> 4. other, if so, describe:		
Street: <u>750 Albany Street</u>				
Town: <u>Boston</u>	State: <u>MA</u>	Zip: <u>02218</u>	County: <u>Suffolk</u>	
c) Legal name of operator: <u>W.A. Berry & Son Inc.</u>		Operator telephone no: <u>978-774-1057</u>		
		Operator fax no.: <u>978-777-8217</u>	Operator email: <u>pghirardini@berry.com</u>	
Operator contact name and title: <u>Peter Ghirardini, Project Manager</u>				
Address of operator (if different from owner):		Street: <u>99 Conifer Hill Drive</u>		
Town: <u>Danvers</u>	State: <u>MA</u>	Zip: <u>01923</u>	County: <u>Essex</u>	
d) Check "yes" or "no" for the following:				
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> , if "yes," number:				
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> , if "yes," date and tracking #:				
3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

<p>e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If "yes," please list:</p> <p>1. site identification # assigned by the state of NH or MA: <u>RTN 3-26855</u></p> <p>2. permit or license # assigned:</p> <p>3. state agency contact information: name, location, and telephone number: <u>MADEP, NERO, Wilmington, MA, 978-694-3200</u></p>	<p>f) Is the site/facility covered by any other EPA permit, including:</p> <p>1. multi-sector storm water general permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>, if Y, number:</p> <p>2. phase I or II construction storm water general permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>, if Y, number:</p> <p>3. individual NPDES permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>, if Y, number:</p> <p>4. any other water quality related permit? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>, if Y, number:</p>
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

<p>a) Describe the discharge activities for which the owner/applicant is seeking coverage:</p> <p>Discharge of water recovered during construction-related dewatering and stormwater management.</p>		
<p>b) Provide the following information about each discharge:</p>	<p>1) Number of discharge points: <u>2</u></p>	<p>2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow <u>0.067</u> Average flow <u>0.067</u> Is maximum flow a design value? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.</p>
<p>3) Latitude and longitude of each discharge within 100 feet: pt.1: long. <u>-71°04'20"</u> lat. <u>42°20'04"</u>; pt.2: long. <u>-71°04'18"</u> lat. <u>42°20'05"</u>; pt.3: long. _____ lat. _____; pt.4: long. _____ lat. _____; pt.5: long. _____ lat. _____; pt.6: long. _____ lat. _____; pt.7: long. _____ lat. _____; pt.8: long. _____ lat. _____; etc.</p>		
<p>4) If hydrostatic testing, total volume of the discharge (gals): <u>NA</u></p>	<p>5) Is the discharge intermittent <input checked="" type="checkbox"/> or seasonal _____? Is discharge ongoing Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>?</p>	
<p>c) Expected dates of discharge (mm/dd/yy): start <u>05/12/08</u> end <u>12/31/10</u></p>		
<p>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).</p>		

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

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

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

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		✓	2	grab	2540D	5,000	8,000	1.31	6,000	0.98
2. Total Residual Chlorine	✓		2	grab	4500CL F	20	<50	<0.008	<50	<0.008
3. Total Petroleum Hydrocarbons		✓	2	grab	1664	5,000	<4,100	<0.67	<4,100	<0.67
4. Cyanide	✓		2	grab	335.4	10	<10	<0.002	<10	<0.002
5. Benzene	✓		2	grab	8260B	2	<0.5	<0.000	<0.05	<0.000
6. Toluene	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
7. Ethylbenzene	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
8. (m,p,o) Xylenes	✓		2	grab	8260B	10	<1.0	<0.000	<1.0	<0.000
9. Total BTEX ⁴	✓		2	grab	8260B	2	<3.5	<0.01	<3.5	<0.01

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide ⁵ (1,2- Dibromo-methane)	✓		2	grab	8260B	0.1	<2.0	<0.000	<2.0	<0.000
11. Methyl-tert-Butyl Ether (MtBE)	✓		2	grab	8260B	5	<1.0	<0.000	<1.0	<0.000
12. tert-Butyl Alcohol (TBA)	✓		2	grab	8260B	100	<100	<0.02	<100	<0.02
13. tert-Amyl Methyl Ether (TAME)	✓		2	grab	8260B	0.5	<2.0	<0.000	<2.0	<0.000
14. Naphthalene	✓		2	grab	8260B	5.0	<5.0	<0.001	<5.0	<0.001
15. Carbon Tetrachloride	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
16. 1,4 Dichlorobenzene	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
17. 1,2 Dichlorobenzene	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
18. 1,3 Dichlorobenzene	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
19. 1,1 Dichloroethane	✓		2	grab	8260B	1	<1.0	<0.000	<1.0	<0.000
20. 1,2 Dichloroethane	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
21. 1,1 Dichloroethylene	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
22. cis-1,2 Dichloroethylene	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
23. Dichloromethane (Methylene Chloride)	✓		2	grab	8260B	2	<2.0	<0.000	<2.0	<0.000
24. Tetrachloroethylene	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
26. 1,1,2 Trichloroethane	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
27. Trichloroethylene	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
28. Vinyl Chloride	✓		2	grab	8260B	2	<1.0	<0.000	<1.0	<0.000
29. Acetone	✓		2	grab	8260B	50	<5.0	<0.001	<5.0	<0.001
30. 1,4 Dioxane	✓		2	grab	8260B	50	<25	<0.004	<25	<0.004
31. Total Phenols	✓		2	grab	8270C	1	<120.2	<0.02	<120.2	<0.02
32. Pentachlorophenol	✓		2	grab	8270C/SIM	5	<1	<0.000	<1	<0.000
33. Total Phthalates ⁶ (Phthalate esthers)	✓		2	grab	8270C	5	<27.5	<0.004	<27.5	<0.004
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]		✓	2	grab	8270C	5	<2.0	<0.000	<2.0	<0.000
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		2	grab	8270C/SIM	NA	NA	NA	NA	NA
a. Benzo(a) Anthracene	✓		2	grab	8270C/SIM	5	<0.051	<0.000	<0.051	<0.000
b. Benzo(a) Pyrene	✓		2	grab	8270C/SIM	10	<0.10	<0.000	<0.10	<0.000
c. Benzo(b)Fluoranthene	✓		2	grab	8270C/SIM	10	<0.051	<0.000	<0.051	<0.000
d. Benzo(k) Fluoranthene	✓		2	grab	8270C/SIM	10	<0.10	<0.000	<0.10	<0.000
e. Chrysene	✓		2	grab	8270C/SIM	10	<0.10	<0.000	<0.10	<0.000

⁶The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		2	grab	8270C/SIM	10	<0.10	<0.000	<0.10	<0.000
g. Indeno(1,2,3-cd) Pyrene	✓		2	grab	8270C/SIM	10	<0.10	<0.000	<0.10	<0.000
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓	2	grab	8270C/SIM	NA	NA	NA	NA	NA
h. Acenaphthene	✓		2	grab	8270C/SIM	1	<0.10	<0.000	<0.10	<0.000
i. Acenaphthylene	✓		2	grab	8270C/SIM	10	<0.10	<0.000	<0.10	<0.000
j. Anthracene	✓		2	grab	8270C/SIM	10	<0.10	<0.000	<0.10	<0.000
k. Benzo(ghi) Perylene	✓		2	grab	8270C/SIM	5	<0.10	<0.000	<0.10	<0.000
l. Fluoranthene	✓		2	grab	8270C/SIM	1	<0.10	<0.000	<0.10	<0.000
m. Fluorene	✓		2	grab	8270C/SIM	10	<0.10	<0.000	<0.10	<0.000
n. Naphthalene-	✓		2	grab	8270C/SIM	2	<0.10	<0.000	<0.10	<0.000
o. Phenanthrene	✓		2	grab	8270C/SIM	5	<0.051	<0.000	<0.051	<0.000
p. Pyrene		✓	2	grab	8270C/SIM	10	0.1	0.000	0.075	0.000
37. Total Polychlorinated Biphenyls (PCBs)	✓		2	grab	8082	0.5	<0.25	<0.000	<0.25	<0.000
38. Antimony	✓		2	grab	200.7	50	<6.0	<0.001	<6.0	<0.001
39. Arsenic	✓		2	grab	200.7	5	<10	<0.002	<10	<0.002
40. Cadmium	✓		2	grab	200.7	5	<4.0	<0.001	<4.0	<0.001
41. Chromium III	✓		2	grab	200.7	10	<10	<0.002	<10	<0.002
42. Chromium VI	✓		2	grab	7196A	10	<10	<0.002	<10	<0.002

PARAMETER	Believe Absent	Believe Present	# of Samples (1 minimum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper	✓		2	grab	200.7	5	<25	<0.004	<25	<0.004
44. Lead	✓		2	grab	200.7	40	<5.0	<0.001	<5.0	<0.001
45. Mercury	✓		2	grab	200.7	0.20	<0.20	<0.000	<0.20	<0.000
46. Nickel	✓		2	grab	200.7	10	<40	<0.007	<40	<0.007
47. Selenium	✓		2	grab	200.7	50	<10	<0.002	<10	<0.002
48. Silver	✓		2	grab	200.7	10	<5.0	<0.001	<5.0	<0.001
49. Zinc		✓	2	grab	200.7	10	24.2	0.004	34.2	0.006
50. Iron		✓	2	grab	200.7	NA	1,020	0.17	562	0.09
Other (describe): Trichlorofluoromethane*	✓		2	grab	8260B	NA	372	0.06	186.5	0.03

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

<p><i>Step 1:</i> Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y <input checked="" type="checkbox"/> N <input type="checkbox"/></p>	<p>If yes, which metals? iron and zinc</p>
<p><i>Step 2:</i> For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals: <u>Not applicable since discharge is to saline water.</u> DF: _____</p>	<p>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 <input type="checkbox"/> N <input type="checkbox"/> If "Yes," list which metals:</p>

*Trichlorofluoromethane is a refrigerant and propellant used for aerosol sprays and is not believed to be related to site contamination. Source may be laboratory contamination or some other means.

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: System will consist of a frac tank for initial solids removal, followed by bag filter followed by, if necessary, treatment with granular activated carbon.						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank <input checked="" type="checkbox"/>	Air stripper	Oil/water separator	Equalization tanks	Bag filter <input checked="" type="checkbox"/>	GAC filter <input checked="" type="checkbox"/>
	Chlorination	Dechlorination	Other (please describe):			
c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system: Average flow rate of discharge <u>30</u> Maximum flow rate of treatment system <u>30</u> Design flow rate of treatment system <u>30</u>						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): None planned.						

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

a) Identify the discharge pathway:	Direct <input type="checkbox"/>	Within facility <input type="checkbox"/>	Storm drain <input checked="" type="checkbox"/>	River/brook <input type="checkbox"/>	Wetlands <input type="checkbox"/>	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters: Discharge via catch basins 209 and/or 221 then directed to municipal stormwater system and ultimately to Fort Point Channel.						
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 <u>SB</u>						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water <u>Not applicable since discharge is</u> cfs Please attach any calculation sheets used to support stream flow and dilution calculations. <u>to saline water.</u>						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, for which pollutant(s)? <u>fecal coliform bacteria</u> Is there a TMDL? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, for which pollutant(s)? <u>fecal coliform bacteria</u>						

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

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

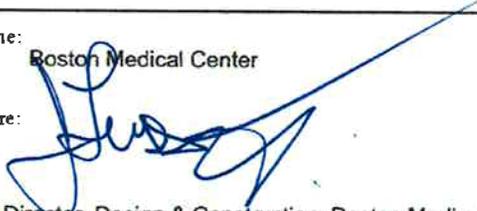
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes ___ No Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes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

7. Supplemental information :

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

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

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name:	Boston Medical Center
Owner	
Operator signature:	
Title:	Assistant Director, Design & Construction; Boston Medical Center
Date:	4.28.8

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

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

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

7. Supplemental information. :

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

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

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Boston Medical Center

Operator signature:

Title: Project Manager, William A. Berry & Son

Date:

4/28/08

Appendix B

Laboratory Data Reports



IT'S ALL IN THE CHEMISTRY

04/28/08



Technical Report for

GEI Consultants, Inc.

BMC New Ambulatory Building Boston MA

06437-0

Accutest Job Number: M71383

Sampling Date: 03/07/08

Report to:

GEI Consultants, Inc.

rhoffman@geiconsultants.com

ATTN: Ryan Hoffman

Total number of pages in report: 27



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



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Sample Summary

GEI Consultants, Inc.

Job No: M71383

BMC New Ambulatory Building Boston MA
Project No: 06437-0

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
M71383-1	03/07/08	10:50	CHA	03/07/08 AQ Ground Water	064377-B504(OW)
M71383-1A	03/07/08	10:50	CHA	03/07/08 AQ Groundwater Filtered	064377-B504(OW)
M71383-1B	03/07/08	10:50	CHA	03/07/08 AQ Ground Water	064377-B504(OW)

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: GEI Consultants, Inc.

Job No M71383

Site: BMC New Ambulatory Building Boston MA

Report Date 3/14/2008 4:27:48 PM

1 Sample was collected on 03/07/2008 and were received at Accutest on 03/07/2008 properly preserved, at 1.8 Deg. C and intact. These Samples received an Accutest job number of M71383. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ	Batch ID: MSM712
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- Sample(s) M71290-2MS, M71290-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for Acetone are outside control limits for sample M71290-2MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.

Extractables by GCMS By Method SW846 8270C

Matrix AQ	Batch ID: OP15375
------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M71425-7MS, M71425-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- MS/MSD Recovery(s) for Benzidine are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, Pentachlorophenol are outside control limits for sample OP15375-MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- RPD for OP15375-BSD for Benzidine: Outside control limits. Associated samples are non-detect for this compound.
- Initial calibration standard (batch MSE1531) for Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4-Nitrophenol, Fluorene, 4-Chlorophenyl-phenylether, Diethylphthalate, Benzo[b]fluoranthene is employed quadratic regression.
- Initial calibration verification standard MSE1531-ICV1531, file E31878 for Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine exceed 35% Difference. In-house criteria met this ICV.
- Continuing calibration check standard MSE1542-CC1531 for Benzidine exceed 30% Difference. This check standard met MCP criteria.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix AQ	Batch ID: OP15378
------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M71425-8MS, M71425-8MSD were used as the QC samples indicated.
- Only PAH requested.
- Initial calibration standard (batch MSF1623) for Benzo [a] pyrene, Dibenz [a,h]anthracene are employed quadratic regression.
- Continuing calibration check standard MSF1662-CC1623 for Pentachlorophenol exceed 30% Difference. This check standard met MCP criteria.

Extractables by GC By Method SW846 8082

Matrix AQ	Batch ID: OP15373
------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) OP15373-MS/MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method EPA 200.7

Matrix AQ	Batch ID: MP11578
------------------	--------------------------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M71383-1DUP, M71383-1MS, M71383-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Chromium, Nickel, Zinc are outside control limits for sample MP11578-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only 11 metals requested.

Metals By Method EPA 245.1

Matrix AQ	Batch ID: MP11571
------------------	--------------------------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M71305-1DUP, M71305-1MS were used as the QC samples for metals.

Wet Chemistry By Method EPA 1664

Matrix AQ	Batch ID: GP8918
------------------	-------------------------

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M71322-2MS, M71322-2MSD were used as the QC samples for Oil And Grease, Gravimetric.

Wet Chemistry By Method EPA 335.4

Matrix AQ	Batch ID: GP8893
------------------	-------------------------

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M71383-1DUP, M71383-1MS were used as the QC samples for Cyanide.

Wet Chemistry By Method SM21 2540D

Matrix AQ	Batch ID: GN25124
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M71292-3DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method SM21 4500CL F

Matrix AQ	Batch ID: GN25104
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M71383-1DUP, M71383-1MS were used as the QC samples for Total Residual Chlorine.

Wet Chemistry By Method SW846 7196A

Matrix AQ	Batch ID: GN25101
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M71383-1ADUP, M71383-1AMS were used as the QC samples for Chromium, Hexavalent.

Note: Compounds whose QC limits are outside MCP criteria are designated by the lab as "Difficult". QC criteria for a "Difficult" compound may meet Accutest in-house generated QC criteria but exceed MCP criteria (compounds exceeding Accutest QC criteria are flagged on the QC summary). Refer to the QC summary pages.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M71383).



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: 064377-B504(OW)	Date Sampled: 03/07/08
Lab Sample ID: M71383-1	Date Received: 03/07/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: BMC New Ambulatory Building Boston MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M23323.D	1	03/11/08	PB	n/a	n/a	MSM712
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 064377-B504(OW)	
Lab Sample ID: M71383-1	Date Sampled: 03/07/08
Matrix: AQ - Ground Water	Date Received: 03/07/08
Method: SW846 8260B	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert Butyl Alcohol	ND	100	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 064377-B504(OW) Lab Sample ID: M71383-1 Matrix: AQ - Ground Water Method: SW846 8260B Project: BMC New Ambulatory Building Boston MA	Date Sampled: 03/07/08 Date Received: 03/07/08 Percent Solids: n/a
---	---

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-130%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	107%		84-115%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 064377-B504(OW)	
Lab Sample ID: M71383-1	Date Sampled: 03/07/08
Matrix: AQ - Ground Water	Date Received: 03/07/08
Method: SW846 8270C SW846 3510C	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E32272.D	1	03/13/08	PN	03/12/08	OP15375	MSE1542
Run #2							

Run #	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.2	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	10	ug/l	
100-02-7	4-Nitrophenol	ND	21	ug/l	
87-86-5	Pentachlorophenol	ND	10	ug/l	
108-95-2	Phenol	ND	5.2	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l	
83-32-9	Acenaphthene	ND	5.2	ug/l	
208-96-8	Acenaphthylene	ND	5.2	ug/l	
120-12-7	Anthracene	ND	5.2	ug/l	
92-87-5	Benzidine	ND	21	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.2	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.2	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.2	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.2	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.2	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.2	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.2	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.2	ug/l	
106-47-8	4-Chloroaniline	ND	10	ug/l	
218-01-9	Chrysene	ND	5.2	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.2	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.2	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.2	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.2	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.2	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.2	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.2	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 064377-B504(OW)	
Lab Sample ID: M71383-1	Date Sampled: 03/07/08
Matrix: AQ - Ground Water	Date Received: 03/07/08
Method: SW846 8270C SW846 3510C	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.2	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.2	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.2	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.2	ug/l	
84-66-2	Diethyl phthalate	ND	5.2	ug/l	
131-11-3	Dimethyl phthalate	ND	5.2	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	ug/l	
206-44-0	Fluoranthene	ND	5.2	ug/l	
86-73-7	Fluorene	ND	5.2	ug/l	
118-74-1	Hexachlorobenzene	ND	5.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.2	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l	
67-72-1	Hexachloroethane	ND	5.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.2	ug/l	
78-59-1	Isophorone	ND	5.2	ug/l	
91-20-3	Naphthalene	ND	5.2	ug/l	
98-95-3	Nitrobenzene	ND	5.2	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.2	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.2	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.2	ug/l	
85-01-8	Phenanthrene	ND	5.2	ug/l	
129-00-0	Pyrene	ND	5.2	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	38%		15-110%
4165-62-2	Phenol-d5	35%		15-110%
118-79-6	2,4,6-Tribromophenol	69%		15-110%
4165-60-0	Nitrobenzene-d5	80%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-120%
1718-51-0	Terphenyl-d14	67%		30-120%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 064377-B504(OW)	Date Sampled: 03/07/08
Lab Sample ID: M71383-1	Date Received: 03/07/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8082 SW846 3510C	
Project: BMC New Ambulatory Building Boston MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB18416.D	1	03/13/08	CZ	03/12/08	OP15373	GBB763
Run #2							

Run #	Initial Volume	Final Volume
Run #1	980 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.26	ug/l	
11104-28-2	Aroclor 1221	ND	0.26	ug/l	
11141-16-5	Aroclor 1232	ND	0.26	ug/l	
53469-21-9	Aroclor 1242	ND	0.26	ug/l	
12672-29-6	Aroclor 1248	ND	0.26	ug/l	
11097-69-1	Aroclor 1254	ND	0.26	ug/l	
11096-82-5	Aroclor 1260	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		32-149%
877-09-8	Tetrachloro-m-xylene	105%		32-149%
2051-24-3	Decachlorobiphenyl	94%		30-150%
2051-24-3	Decachlorobiphenyl	95%		30-150%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 064377-B504(OW)	Date Sampled: 03/07/08
Lab Sample ID: M71383-1	Date Received: 03/07/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/11/08	03/12/08 PY	EPA 200.7 ²	EPA 200.7 ⁴
Arsenic	< 10	10	ug/l	1	03/11/08	03/12/08 PY	EPA 200.7 ²	EPA 200.7 ⁴
Cadmium	< 4.0	4.0	ug/l	1	03/11/08	03/12/08 PY	EPA 200.7 ²	EPA 200.7 ⁴
Chromium	< 10	10	ug/l	1	03/11/08	03/12/08 PY	EPA 200.7 ²	EPA 200.7 ⁴
Copper	< 25	25	ug/l	1	03/11/08	03/12/08 PY	EPA 200.7 ²	EPA 200.7 ⁴
Iron	1020	100	ug/l	1	03/11/08	03/12/08 PY	EPA 200.7 ²	EPA 200.7 ⁴
Lead	< 5.0	5.0	ug/l	1	03/11/08	03/12/08 PY	EPA 200.7 ²	EPA 200.7 ⁴
Mercury	< 0.20	0.20	ug/l	1	03/10/08	03/10/08 MA	EPA 245.1 ¹	EPA 245.1 ³
Nickel	< 40	40	ug/l	1	03/11/08	03/12/08 PY	EPA 200.7 ²	EPA 200.7 ⁴
Selenium	< 10	10	ug/l	1	03/11/08	03/12/08 PY	EPA 200.7 ²	EPA 200.7 ⁴
Silver	< 5.0	5.0	ug/l	1	03/11/08	03/12/08 PY	EPA 200.7 ²	EPA 200.7 ⁴
Zinc	< 20	20	ug/l	1	03/11/08	03/12/08 PY	EPA 200.7 ²	EPA 200.7 ⁴

- (1) Instrument QC Batch: MA9025
- (2) Instrument QC Batch: MA9036
- (3) Prep QC Batch: MP11571
- (4) Prep QC Batch: MP11578

RL = Reporting Limit

Report of Analysis

Client Sample ID: 064377-B504(OW)	Date Sampled: 03/07/08
Lab Sample ID: M71383-1	Date Received: 03/07/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	03/07/08 18:20	CF	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	03/08/08 11:36	MA	EPA 335.4
Oil And Grease, Gravimetric	< 4.2	4.2	mg/l	1	03/13/08	BF	EPA 1664
Solids, Total Suspended	8.0	4.0	mg/l	1	03/11/08	BF	SM21 2540D
Total Residual Chlorine	< 0.050	0.050	mg/l	1	03/08/08 18:30	MA	SM21 4500CL F

RL = Reporting Limit

Report of Analysis

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3

Client Sample ID: 064377-B504(OW)	Date Sampled: 03/07/08
Lab Sample ID: M71383-1A	Date Received: 03/07/08
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	<0.010	0.010	mg/l	1	03/07/08 18:20	CF	SW846 7196A

RL = Reporting Limit

Report of Analysis

Client Sample ID: 064377-B504(OW)	Date Sampled: 03/07/08
Lab Sample ID: M71383-1B	Date Received: 03/07/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270C BY SIM SW846 3510C	
Project: BMC New Ambulatory Building Boston MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F34277.D	1	03/13/08	PN	03/12/08	OP15378	MSF1662
Run #2							

Run #	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	0.10	ug/l	
208-96-8	Acenaphthylene	ND	0.10	ug/l	
120-12-7	Anthracene	ND	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	ug/l	
218-01-9	Chrysene	ND	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	ug/l	
206-44-0	Fluoranthene	ND	0.10	ug/l	
86-73-7	Fluorene	ND	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	ug/l	
91-20-3	Naphthalene	ND	0.10	ug/l	
85-01-8	Phenanthrene	ND	0.052	ug/l	
129-00-0	Pyrene	ND	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		10-110%
4165-62-2	Phenol-d5	42%		10-110%
118-79-6	2,4,6-Tribromophenol	70%		10-141%
4165-60-0	Nitrobenzene-d5	87%		30-130%
321-60-8	2-Fluorobiphenyl	78%		30-130%
1718-51-0	Terphenyl-d14	79%		30-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form

Chain-of-Custody Record		Laboratory: ACCUTEST		Laboratory Job # <i>M71383</i> <small>(Lab use only)</small>																			
 <p>400 Unicorn Park Drive Woburn, MA 01801 PH: 781.721.4000 FX: 781.721.4073</p>	Project Information			Page 1 of 1																			
	Project Name: BMC NAB		Project Location: Boston, MA																				
	Project Number: 06437-7		Project Manager: Ryan Hoffman																				
Send Report to: Ray Seigerter		Send EDD to: labdata@geiconsultants.com		Preservative <table border="1"> <tr> <td>2</td><td>2</td><td>2</td><td>2</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td> </tr> <tr> <td>HCl</td><td>None</td><td>HCl</td><td>None</td><td>HNO3</td><td>None</td><td>HNO3</td><td>None</td><td>NaOH+Asc</td> </tr> </table>		2	2	2	2	1	1	1	1	1	HCl	None	HCl	None	HNO3	None	HNO3	None	NaOH+Asc
2	2	2	2	1	1	1	1	1															
HCl	None	HCl	None	HNO3	None	HNO3	None	NaOH+Asc															
MCP PRESUMPTIVE CERTAINTY REQUIRED: YES <input checked="" type="radio"/> NO <input type="radio"/> If Yes, Are MCP Analytical Methods Required? YES <input checked="" type="radio"/> NO <input type="radio"/> NA <input type="radio"/> If Yes, Are Drinking Water Samples Submitted? YES <input checked="" type="radio"/> NO <input type="radio"/> NA <input type="radio"/> If Yes, Have You Met Minimum Field QC Requireme YES <input checked="" type="radio"/> NO <input type="radio"/> NA <input type="radio"/>		Analysis VOCs (8160) <input checked="" type="checkbox"/> SVOCs (8270)PAH by SIM <input checked="" type="checkbox"/> TPH (1664) <input checked="" type="checkbox"/> PCBs (8082) <input checked="" type="checkbox"/> Metals (filtered) <input checked="" type="checkbox"/> Hexavalent Chromium (filtered) <input checked="" type="checkbox"/> Metals (unfiltered) <input checked="" type="checkbox"/> TSS (1602), TRC (4600-C G), Hexavalent Cr (unfiltered) <input checked="" type="checkbox"/> Total Cyanide (335.3) <input checked="" type="checkbox"/>		Sample Handling Samples Field Filtered YES <input checked="" type="radio"/> NO <input type="radio"/> NA <input type="radio"/> Sampled Shipped With Ice YES <input checked="" type="radio"/> NO <input type="radio"/>																			
Lab Sample Number <i>M71383-1A</i>	GEI Sample ID: 064377-B504(OW)	Collection Date: 3/7/2008 Time: 1015 Matrix: GW No. of Bottles: 13 Sampler(s) Initials: CHA	<table border="1"> <tr> <td>VOCs (8160)</td><td>SVOCs (8270)PAH by SIM</td><td>TPH (1664)</td><td>PCBs (8082)</td><td>Metals (filtered)</td><td>Hexavalent Chromium (filtered)</td><td>Metals (unfiltered)</td><td>TSS (1602), TRC (4600-C G), Hexavalent Cr (unfiltered)</td><td>Total Cyanide (335.3)</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> </table>	VOCs (8160)	SVOCs (8270)PAH by SIM	TPH (1664)	PCBs (8082)	Metals (filtered)	Hexavalent Chromium (filtered)	Metals (unfiltered)	TSS (1602), TRC (4600-C G), Hexavalent Cr (unfiltered)	Total Cyanide (335.3)	X	X	X	X	X	X	X	X	X	Sample Specific Remarks Do not analyze Metals (filtered) until authorized by GEI	
VOCs (8160)	SVOCs (8270)PAH by SIM	TPH (1664)	PCBs (8082)	Metals (filtered)	Hexavalent Chromium (filtered)	Metals (unfiltered)	TSS (1602), TRC (4600-C G), Hexavalent Cr (unfiltered)	Total Cyanide (335.3)															
X	X	X	X	X	X	X	X	X															
MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.				Turnaround Time (Business days): Normal <input type="checkbox"/> Other <input type="checkbox"/> 10-Day <input type="checkbox"/> 7-Day <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/>																			
Relinquished by sampler (signature) <i>[Signature]</i>	Date: 3/7/08 Time: 1220	Received by (signature) 1. <i>GEI FRIDGE</i>	RUSH <i>REC @ 1.8°C</i>																				
Relinquished by (signature) <i>GEI FRIDGE</i>	Date: 3/16/08 Time: 1620	Received by (signature) <i>[Signature]</i>	Additional Requirements/Comments/Remarks: 1. Metals = As, Cd, Cr, Pb, Hg, Se, Ag, Zn, Sb, Cu, Fe, Ni 2. Bottles for metals and hexavalent Cr were unfiltered or field filtered (as specified on bottle labels). Do not analyze filtered metals until authorized by GEI. Filtered and unfiltered hexavalent Cr should be analyzed. 3. Sample collected to support EPA Remediation General Permit (RGP) application - see attached list of parameters and minimum detection limits.																				
Relinquished by (signature) <i>[Signature]</i>	Date: 3/7/08 Time: 1620	Received by (signature) 3. <i>[Signature]</i>	<i>Loc. 7B, 3C, 6A, 2H3, 4A</i>																				
Relinquished by (signature)	Date:	Received by (signature)																					

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PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GCMS	LC	FAA	Other
11. Methyl-tert-Butyl Ether (MtBE)	0.5 ug/l Method 602 ^g	5.0 ug/l Method 524.2			Method 8260C ²
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol) - 75650 -	0.5 ug/l Method 602 ^g	100 ug/l Method 1666			Method 8260C ²
13. tert-Amyl Methyl Ether (TAME) -994058-	0.5 ug/l Method 602 ^g				Method 8260C ²
14. Naphthalene - 91203 -	10 ug/l Method 610 GC/FID	2 ug/l Method 625 5.0 ug/l Method 524.2	0.2 ug/l Method 610 HPLC		Method 8270D ¹
15. Carbon Tetrachloride - 56235 -	0.5 ug/l Method 601	2 ug/l Methods 624, 1624			Method 8260C ²
16. 1,4 Dichlorobenzene (p-DCB) - 106467 -	0.5 ug/l Methods 601, 602	2 ug/l Methods 624, 625			Method 8260C ²
17. 1,2 Dichlorobenzene (o-DCB) - 95501 -	0.5 ug/l Methods 601, 602	2 ug/l Methods 624, 625			Method 8260C ²
18. 1,3 Dichlorobenzene (m-DCB) - 541731 -	0.5 ug/l Methods 601, 602	2 ug/l Methods 624, 625			Method 8260C ²
19. 1,1 Dichloroethane (DCA) - 75343 -	0.5 ug/l Method 601	1 ug/l Method 624			Method 8260C ²
20. 1,2 Dichloroethane (DCA)- 107062 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²

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Appendix VI: Minimum Levels and Test Methods

PARAMETER - CAS No. -	Minimum Levels and Test Methods ^{1,2,3}				
	GC ⁴	GCMS ⁵	LC ⁶	FAA ⁷	Other
1. Total Suspended Solids (TSS)					5 mg/l Method 160.2
2. Total Residual Chlorine (TRC)					20 ug/l Method 330.5
3. Total Petroleum Hydrocarbons (TPH)					5 mg/l Method 1664
4. Cyanide (total) - 57125 -					10 ug/l Method 335.4
5. Benzene (B) - 71432 -	0.5 ug/l Method 602	2 ug/l Method 624			Method 8260C ²
6. Toluene (T) - 108883 -	0.5 ug/l Method 602	2 ug/l Method 624			Method 8260C ²
7. Ethylbenzene (E) - 100414 -	0.5 ug/l Method 602	2 ug/l Method 624			Method 8260C ²
8. (m,p,o) Xylenes (X) - 108383;106423; 95476-	0.5 ug/l Method 602	10 ug/l Method 1624			Method 8260C ²
9. Total BTEX	0.5 ug/l Method 602	2 ug/l Method 624			Method 8260C ²
10. Ethylene Dibromide (EDB) (1,2- Dibromoethane) - 106934 -	1.0 ug/l Method 618 0.01 ug/l Method 504.1	0.1 ug/l Methods 524.2			Method 8260C ²

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PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GCMS	LC	FAA	Other
21. 1,1 Dichloroethylene (DCE) - 75354 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
22. cis-1,2 Dichloro-ethylene (DCE) -156592-	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
23. Dichloromethane (Methylene Chloride)- 75092 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
24. Tetrachloroethylene (PCE) - 127184 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
25. 1,1,1 Trichloro-ethane (TCA) - 71556 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
26. 1,1,2 Trichloro-ethane (TCA) - 79005 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
27. Trichloroethylene (TCE) - 79016 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
28. Vinyl Chloride - 75014 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
29. Acetone - 67641 -	1.0 ug/l Method 524.2	50 ug/l Method 1624			Method 8260C ²
30. 1,4 Dioxane -123911-		50 ug/l Method 1624			Method 8260C ²
31. Total Phenols - 108952	1.0 ug/l Method 624 Method 8260 ²	1 ug/l Methods 625, 1625			Method 8260C ² Method 8270D ³
32. Pentachlorophenol (PCP) - 87865 -	1.0 ug/l Method 604 GCFID	5 ug/l Methods 625, 1625			Method 8270D ³

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PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GCMS	LC	FAA	Other
33. Total Phthalates ⁹ (Phthalate esters)		10 ug/l* Method 625			Method 8270D ³
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate] - 117817 -	10 ug/l Method 606	5 ug/l Method 625			Method 8270D ³
35. Total Group I Polynuclear Aromatic Hydrocarbons (PAH)					Method 8270D ³
a. Benzo(a) Anthracene -56553-	10 ug/l Method 610 GC	5 ug/l Method 625	0.05 ug/l Method 610 HPLC		Method 8270D ³
b. Benzo(a) Pyrene -50328 -		10 ug/l Method 625	2 ug/l Method 610 HPLC		Method 8270D ³
c. Benzo(b)Fluoranthene - 205992 -		10 ug/l Method 625	0.1 ug/l Method 610 HPLC		Method 8270D ³
d. Benzo(k)Fluoranthene - 207089 -		10 ug/l Method 625	2 ug/l Method 610 HPLC		Method 8270D ³
e. Chrysene - 218019 -		10 ug/l Method 625	5 ug/l Method 610 HPLC		Method 8270D ³
f. Dibenzo(a,h) anthracene		10 ug/l Method 625	0.1 ug/l Method 610 HPLC		Method 8270D ³
g. Indeno(1,2,3-cd) Pyrene - 193395 -		10 ug/l Method 625	0.15 ug/l Method 610		Method 8270D ³
36. Total Group II Polynuclear Aromatic Hydrocarbons (PAH)					Method 8270D ³

Minor Modification on Remediation General Permit (RGP):

On March 22, 2007, EPA made a minor modification to the RGP to correct the Minimum Level (ML) for total phthalates (Phthalates and esters), using Gas Chromatography/Mass Spectrometry (GCMS) from 5ug/l, Method 625 to 10 ug/l, Method 625. This change is just in Row 33 on Page 4 of Appendix VI.

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h. Acenaphthene - 83329 -	1 ug/l Method 610 GC/FID	1 ug/l Method 625	0.5 ug/l Method 610 HPLC		Method 8270D ³
i. Acenaphthylene - 208968 -		10 ug/l Method 625	0.2 ug/l Method 610 HPLC		Method 8270D ³
PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GCMS	LC	FAA	Other
j. Anthracene - 120127 -		10 ug/l Method 625	2 ug/l Method 610 HPLC		Method 8270D ³
k. Benzo(ghi) Perylene - 191242 -		5 ug/l Method 625	0.1 ug/l Method 610 HPLC		Method 8270D ³
l. Fluoranthene - 206440 -	10 ug/l Method 610 GC/FID	1 ug/l Method 625	0.5 ug/l Method 610 HPLC		Method 8270D ³
m. Fluorene - 86737 -		10 ug/l Method 625	0.1 ug/l Method 610 HPLC		Method 8270D ³
n. Naphthalene - 91203 -	10 ug/l Method 610 GC/FID	2 ug/l Method 625 5.0 ug/l Method 524.2	0.2 ug/l Method 610 HPLC		Method 8270D ³
o. Phenanthrene - 85018 -		5 ug/l Method 625	0.05 ug/l Method 610 HPLC		Method 8270D ³
p. Pyrene - 129000 -		10 ug/l Method 625	0.05 ug/l Method 610 HPLC		Method 8270D ³
37. Total Polychlorinated Biphenyls (PCBs) ¹⁰	0.5 ug/l Method 608				0.00005 ug/l Method 1668a ¹¹

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M71383: Chain of Custody
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Inorganic parameters:	Minimum Levels (ug/l) and Test Methods			
	Flame Atomic Absorption	Inductively Coupled Plasma	Furnace Atomic Absorption	Other
38. Antimony	200 ug/l	50 ug/l	5 ug/l	
39. Arsenic		5 ug/l	2 ug/l	
40. Cadmium	10 ug/l	5 ug/l	0.5 ug/l	
Inorganic parameters:	Minimum Levels (ug/l) and Test Methods			
	Flame Atomic Absorption	Inductively Coupled Plasma	Furnace Atomic Absorption	Other
41. Chromium (total)	Method 218.1	10 ug/l Methods 200.7 ¹¹ , 200.8, 200.15, 1620	5 ug/l Method 200.9	50 ug/l
42. Chromium (hexavalent)				10 ug/l Method 218.6 Method 1636
43. Copper	20 ug/l	5 ug/l	3 ug/l	
44. Lead	100 ug/l	40 ug/l	3 ug/l	
45. Mercury				0.2 ug/l
46. Nickel	30 ug/l	10 ug/l	5 ug/l	
47. Selenium		50 ug/l	5 ug/l	
48. Silver	50 ug/l	10 ug/l	2 ug/l	
49. Zinc	30 ug/l	10 ug/l		
50. Iron		Methods 6010b 200.7 ¹²		

Remediation General Permit - Appendix VI

1. 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). Where a minimum level (ML) is listed but a test method is not specified, permittee may use any of the available methods approved for use under 40 CFR 136, including alternatives approved by this permit, that meets that ML. See EPA's "Methods and Guidance for the Analysis of Water" at www.epa.gov/water/owrcatalog.nsf. Where test method is specified but ML not listed for that method, the lowest ML for listed methods must be used before concentration can be considered as "non-detect."

2. For measuring volatile organic compounds, Method 8260C (or the latest version) may be used as a substitute for CWA Methods 524.2, 602, 624, or 1624. Method 8260C must be preceded by Method 5030 as the preparation method. However, any method changes must be accompanied by documented quality assurance quality control (QA/QC) test results to prove that the analytical process can achieve the lower detection limits of Method 8260C.

3. For measuring semi-volatile organic compounds, Method 8270D may be used as a substitute for Methods 610, 625, or 1625. Method 8270D must be preceded by Method 3535 or Method 3520C as the sample preparation method. In either case, the quality control requirements of Method 3500B must be taken into account. The sample preparation method must be specified with data analysis records. Method 8270D may be modified to provide lower detection and quantitation limits using Selected Ion Monitoring (SIM). Any method changes must be accompanied by documented quality assurance quality control (QA/QC) test results to prove that the analytical process can achieve the lower detection limits of Method 8270D.

4. GC - gas chromatography

5. GCMS - gas chromatography/mass spectrometry

6. LC - high pressure liquid chromatography

7. Flame Atomic Absorption

8. For measuring fuel oxygenates, Method 602 must be modified to include a heated purge.

9. The sum of individual phthalate compounds.

10. 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 Aroclor analyses*".

11. Method 1668a (HRGC/HRMS) has been proposed by EPA and is currently being validated. When approval of the method is finalized, it will be approved for use with this general permit.

12. Methods 6010b and 200.7 for metals may only be used when sample prepared with SW-846 digestion method, Method 3010.

Remediation General Permit - Appendix VI

7



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

Page 10 of 32

Title: MADEP MCP Response Action Analytical Report Certification Form

4.2
4

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England Project #: M71383
Project Location: BMC New Ambulatory Building Boston MA MADEP RTN¹ None

This form provides certifications for the following data set:
M71383-1, M71383-1A, M71383-1B

Test method: EPA 200.7, 245.1, 1664, 335.4, SM21 2540D, 4500Cl F, and below

Sample Matrices: Groundwater X Soil/Sediment () Drinking Water () Other: () ()

MCP SW-846 Methods Used	8260B (X)	8151A ()	8330 ()	6010B ()	7470A/1A ()
	8270C (X)	8081A ()	VPH ()	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (Check all that apply)	8082 (X)	8021B ()	EPH ()	7000 S ³ ()	7196A (X)

¹ List Release Tracking Number (RTN), if known
² M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
³ S - SW-846 Methods 7000 Series List Individual method and analyte

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory case 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: Reza Tand Position: Laboratory Director
Printed Name: Reza Tand Date: 03/14/2008



04/28/08

Technical Report for

GEI Consultants, Inc.

BMC New Ambulatory Building Boston MA

06437-0

Accutest Job Number: M72112

Sampling Date: 04/03/08

Report to:

GEI Consultants, Inc.

rhoffman@geiconsultants.com

ATTN: Ryan Hoffman

Total number of pages in report: 27



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Reza Fand
Lab Director

Client Service contact: Kristen Blanchard 508-481-6200

Certifications: MA (M-MA136) CT (PH-0109) NH (250204) RI (00071) ME (MA136) FL (E87579)
NY (23346) NJ (MA926) NAVY USACE

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

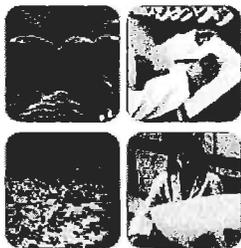


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Sample Summary

GEI Consultants, Inc.

Job No: M72112

BMC New Ambulatory Building Boston MA

Project No: 06437-0

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M72112-1	04/03/08	08:19 KAW	04/03/08	AQ	Ground Water	064377-TEMP WELL
M72112-1A	04/03/08	08:19 KAW	04/03/08	AQ	Groundwater Filtered	064377-TEMP WELL
M72112-1B	04/03/08	08:19 KAW	04/03/08	AQ	Ground Water	064377-TEMP WELL

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: GEI Consultants, Inc.

Job No M72112

Site: BMC New Ambulatory Building Boston MA

Report Date 4/22/2008 5:05:02 PM

1 Sample was collected on 04/03/2008 and were received at Accutest on 04/03/2008 properly preserved, at 2.1 Deg. C and intact. These Samples received an Accutest job number of M72112. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ	Batch ID: MSG3235
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- Sample(s) M72187-1MS, M72187-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Initial calibration standard (batch MSG3227) for 1,4-Dichlorobenzene is employed quadratic regression

Matrix AQ	Batch ID: MSG3236
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- Sample(s) M72158-1MS, M72158-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270C

Matrix AQ	Batch ID: OP15521
------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M72107-13MS, M72107-13MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2-Chlorophenol are outside control limits. Refer to Blank Spike Duplicate.
- MS/MSD Recovery(s) for 2,4-Dinitrophenol, Benzidine are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 4,6-Dinitro-o-cresol, 4-Nitrophenol are outside control limits for sample OP15521-MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- RPD for OP15521-BSD for some of compounds.: Outside control limits. Associated samples are non-detect for this compound.
- OP15521-MB for 2-Fluorophenol: Confirmed by reanalysis. Surrogate recovery within in-house control limits.
- OP15521-BS for 2-Fluorophenol: Refer to Blank Spike Duplicate.
- Initial calibration standard (batch MSE1545) for Hexachloroethane, 4-Nitrophenol, Fluorene, 4-Chlorophenyl-phenylether, Diethylphthalate, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[g,h,i]perylene is employed quadratic regression.
- Continuing calibration check standard MSE1553-CC1545 for n-Nitrosodimethylamine exceed 30% Difference. This check standard met MCP criteria.
- Initial calibration verification standard MSE1545-ICV1545, file E32347B for Hexachlorocyclopentadiene, Benzidine exceed 35% Difference. In-house criteria met for ICV.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix AQ	Batch ID: OP15522
------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) M72297-1MS, M72297-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD for OP15522-BSD for Pentachlorophenol: Outside control limits. Associated samples are non-detect for this compound.
- OP15522-MS/OP15522-MSD for Pentachlorophenol: Acid Spike not added.
- Only PAH requested.
- Initial calibration standard (batch MSF1623) for Benzo [a] pyrene, Dibenz [a,h]anthracene are employed quadratic regression.

Extractables by GC By Method SW846 8082

Matrix AQ	Batch ID: OP15527
------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) OP15527-MS/MSD were used as the QC samples indicated.

Metals By Method SW846 6010B

Matrix AQ	Batch ID: MP11706
------------------	--------------------------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M71898-1ADUP, M71898-1AMS, M71898-1ASDL were used as the QC samples for metals.
- RPD(s) for Duplicate for Antimony, Copper, Iron are outside control limits for sample MP11706-D1. RPD acceptable due to low duplicate and sample concentrations.
- RPD(s) for Serial Dilution for Selenium, Zinc are outside control limits for sample MP11706-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only 11 metals requested.

Metals By Method SW846 7470A

Matrix AQ	Batch ID: MP11699
------------------	--------------------------

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M71838-6DUP, M71838-6MS were used as the QC samples for metals.

Wet Chemistry By Method EPA 1664

Matrix AQ	Batch ID: GP9030
------------------	-------------------------

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M72229-1MS, M72229-1MSD were used as the QC samples for Oil And Grease, Gravimetric.

Wet Chemistry By Method EPA 335.4

Matrix AQ	Batch ID: GP9032
------------------	-------------------------

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M72112-1DUP, M72112-1MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.

Wet Chemistry By Method SM21 2540D

Matrix AQ	Batch ID: GN25423
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M72098-1DUP were used as the QC samples for Solids, Total Suspended.

Wet Chemistry By Method SM21 4500CL F

Matrix AQ	Batch ID: GN25392
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M72112-1DUP, M72112-1MS were used as the QC samples for Total Residual Chlorine.

Wet Chemistry By Method SW846 7196A

Matrix AQ	Batch ID: GN25391
------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) M72109-1DUP, M72109-1MS were used as the QC samples for Chromium, Hexavalent.

Note: Compounds whose QC limits are outside MCP criteria are designated by the lab as "Difficult". QC criteria for a "Difficult" compound may meet Accutest in-house generated QC criteria but exceed MCP criteria (compounds exceeding Accutest QC criteria are flagged on the QC summary). Refer to the QC summary pages.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(M72112).



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: 064377-TEMP WELL	
Lab Sample ID: M72112-1	Date Sampled: 04/03/08
Matrix: AQ - Ground Water	Date Received: 04/03/08
Method: SW846 8260B	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G80228.D	1	04/16/08	PB	n/a	n/a	MSG3235
Run #2	G80247.D	5	04/16/08	PB	n/a	n/a	MSG3236

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	5.0	ug/l	
74-97-5	Bromochloromethane	ND	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	064377-TEMP WELL	Date Sampled:	04/03/08
Lab Sample ID:	M72112-1	Date Received:	04/03/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	BMC New Ambulatory Building Boston MA		

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ug/l	
123-91-1	1,4-Dioxane	ND	25	ug/l	
60-29-7	Ethyl Ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
100-42-5	Styrene	ND	5.0	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	ug/l	
75-65-0	Tert Butyl Alcohol	ND	100	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	2.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	372 ^a	5.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: 064377-TEMP WELL	Date Sampled: 04/03/08
Lab Sample ID: M72112-1	Date Received: 04/03/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: BMC New Ambulatory Building Boston MA	

VOA MCP List

CAS No.	Compound	Result	RL	Units	Q
1330-20-7	Xylene (total)	ND	1.0	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
1868-53-7	Dibromofluoromethane	103%	100%	79-130%	
2037-26-5	Toluene-D8	101%	99%	80-120%	
460-00-4	4-Bromofluorobenzene	98%	98%	84-115%	

(a) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 064377-TEMP WELL	Date Sampled: 04/03/08
Lab Sample ID: M72112-1	Date Received: 04/03/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270C SW846 3510C	
Project: BMC New Ambulatory Building Boston MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I52636.D	1	04/14/08	AT	04/09/08	OP15521	MSI1644
Run #2							

Run #	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	10	ug/l	
120-83-2	2,4-Dichlorophenol	ND	10	ug/l	
105-67-9	2,4-Dimethylphenol	ND	10	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
88-75-5	2-Nitrophenol	ND	10	ug/l	
100-02-7	4-Nitrophenol	ND	20	ug/l	
87-86-5	Pentachlorophenol	ND	10	ug/l	
108-95-2	Phenol	ND	5.1	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	10	ug/l	
83-32-9	Acenaphthene	ND	5.1	ug/l	
208-96-8	Acenaphthylene	ND	5.1	ug/l	
120-12-7	Anthracene	ND	5.1	ug/l	
92-87-5	Benzidine	ND	20	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.1	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.1	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.1	ug/l	
106-47-8	4-Chloroaniline	ND	10	ug/l	
218-01-9	Chrysene	ND	5.1	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.1	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.1	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.1	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.1	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.1	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.1	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.1	ug/l	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: 064377-TEMP WELL	
Lab Sample ID: M72112-1	Date Sampled: 04/03/08
Matrix: AQ - Ground Water	Date Received: 04/03/08
Method: SW846 8270C SW846 3510C	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.1	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	10	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	10	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.1	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.1	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.1	ug/l	
84-66-2	Diethyl phthalate	ND	5.1	ug/l	
131-11-3	Dimethyl phthalate	ND	5.1	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.1	ug/l	
86-73-7	Fluorene	ND	5.1	ug/l	
118-74-1	Hexachlorobenzene	ND	5.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l	
67-72-1	Hexachloroethane	ND	5.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	ug/l	
78-59-1	Isophorone	ND	5.1	ug/l	
91-20-3	Naphthalene	ND	5.1	ug/l	
98-95-3	Nitrobenzene	ND	5.1	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.1	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	ug/l	
85-01-8	Phenanthrene	ND	5.1	ug/l	
129-00-0	Pyrene	ND	5.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		15-110%
4165-62-2	Phenol-d5	15%		15-110%
118-79-6	2,4,6-Tribromophenol	54%		15-110%
4165-60-0	Nitrobenzene-d5	54%		30-130%
321-60-8	2-Fluorobiphenyl	52%		30-120%
1718-51-0	Terphenyl-d14	51%		30-120%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: 064377-TEMP WELL	
Lab Sample ID: M72112-1	Date Sampled: 04/03/08
Matrix: AQ - Ground Water	Date Received: 04/03/08
Method: SW846 8082 SW846 3510C	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ46465.D	1	04/10/08	CZ	04/08/08	OP15527	GYZ1989
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.25	ug/l	
11104-28-2	Aroclor 1221	ND	0.25	ug/l	
11141-16-5	Aroclor 1232	ND	0.25	ug/l	
53469-21-9	Aroclor 1242	ND	0.25	ug/l	
12672-29-6	Aroclor 1248	ND	0.25	ug/l	
11097-69-1	Aroclor 1254	ND	0.25	ug/l	
11096-82-5	Aroclor 1260	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		32-149%
877-09-8	Tetrachloro-m-xylene	59%		32-149%
2051-24-3	Decachlorobiphenyl	70%		30-150%
2051-24-3	Decachlorobiphenyl	76%		30-150%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 064377-TEMP WELL	Date Sampled: 04/03/08
Lab Sample ID: M72112-1	Date Received: 04/03/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	04/07/08	04/09/08 PY	SW846 6010B ²	SW846 3010A ⁴
Arsenic	< 10	10	ug/l	1	04/07/08	04/09/08 PY	SW846 6010B ²	SW846 3010A ⁴
Cadmium	< 4.0	4.0	ug/l	1	04/07/08	04/09/08 PY	SW846 6010B ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	04/07/08	04/09/08 PY	SW846 6010B ²	SW846 3010A ⁴
Copper	< 25	25	ug/l	1	04/07/08	04/09/08 PY	SW846 6010B ²	SW846 3010A ⁴
Iron	104	100	ug/l	1	04/07/08	04/09/08 PY	SW846 6010B ²	SW846 3010A ⁴
Lead	< 5.0	5.0	ug/l	1	04/07/08	04/09/08 PY	SW846 6010B ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	04/05/08	04/07/08 MA	SW846 7470A ¹	SW846 7470A ³
Nickel	< 40	40	ug/l	1	04/07/08	04/09/08 PY	SW846 6010B ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	04/07/08	04/09/08 PY	SW846 6010B ²	SW846 3010A ⁴
Silver	< 5.0	5.0	ug/l	1	04/07/08	04/09/08 PY	SW846 6010B ²	SW846 3010A ⁴
Zinc	24.2	20	ug/l	1	04/07/08	04/09/08 PY	SW846 6010B ²	SW846 3010A ⁴

- (1) Instrument QC Batch: MA9121
(2) Instrument QC Batch: MA9137
(3) Prep QC Batch: MP11699
(4) Prep QC Batch: MP11706

RL = Reporting Limit

Report of Analysis

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Client Sample ID: 064377-TEMP WELL	Date Sampled: 04/03/08
Lab Sample ID: M72112-1	Date Received: 04/03/08
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	04/03/08 17:55	MA	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	04/07/08 16:56	MA	EPA 335.4
Oil And Grease, Gravimetric	< 4.1	4.1	mg/l	1	04/07/08	BF	EPA 1664
Solids, Total Suspended	< 4.0	4.0	mg/l	1	04/08/08	BF	SM21 2540D
Total Residual Chlorine	< 0.050	0.050	mg/l	1	04/03/08 18:00	MA	SM21 4500CL F

RL = Reporting Limit

Report of Analysis

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Client Sample ID: 064377-TEMP WELL	Date Sampled: 04/03/08
Lab Sample ID: M72112-1A	Date Received: 04/03/08
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: BMC New Ambulatory Building Boston MA	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	04/03/08 17:55	MA	SW846 7196A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	064377-TEMP WELL		
Lab Sample ID:	M72112-1B	Date Sampled:	04/03/08
Matrix:	AQ - Ground Water	Date Received:	04/03/08
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	BMC New Ambulatory Building Boston MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F34969.D	1	04/11/08	PN	04/07/08	OP15522	MSF1694
Run #2							

Run #	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	1.0	ug/l	
83-32-9	Acenaphthene	ND	0.10	ug/l	
208-96-8	Acenaphthylene	ND	0.10	ug/l	
120-12-7	Anthracene	ND	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	ug/l	
218-01-9	Chrysene	ND	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	ug/l	
206-44-0	Fluoranthene	ND	0.10	ug/l	
86-73-7	Fluorene	ND	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	0.10	ug/l	
85-01-8	Phenanthrene	ND	0.051	ug/l	
129-00-0	Pyrene	0.10	0.10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		10-110%
4165-62-2	Phenol-d5	27%		10-110%
118-79-6	2,4,6-Tribromophenol	51%		10-141%
4165-60-0	Nitrobenzene-d5	70%		30-130%
321-60-8	2-Fluorobiphenyl	61%		30-130%
1718-51-0	Terphenyl-d14	70%		30-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form

Project Name: BMC NAB Project Location: Boston, MA
 Project Number: 06437-7 Project Manager: Ryan Hoffman

Send Report to: Ray Seigener
 Send EDD to: labdata@geiconsultants.com

MCP-PRESUMPTIVE CERTAINTY REQUIRED: YES NO
 If Yes, Are MCP Analytical Methods Required? YES NO NA
 If Yes, Are Drinking Water Samples Submitted? YES NO NA
 If Yes, Have You Met Minimum Field QC Require YES NO NA

Lab Sample Number	GEI Sample ID	Collection		Matrix	No. of Bottles	Sampler(s) Initials	Analysis										Sample Specific Remarks
		Date	Time				VOCs (8260)	SVOCs (8270) PAH by SIM	TPH (1664)	PCBs (8082)	Metals (filtered)	Hexavalent Chromium (filtered)	Metals (unfiltered)	TSS (160.2), TRC (4500-C), Hexavalent Cr (unfiltered)	Total Cyanide (335.3)		
M72112/1A	064377-TEMP WELL	4/3/2008	10:00	GW	13	KAW	X	X	X	X	X	X	X	X	X	X	Do not analyze Metals (filtered) until authorized by GEI

MCP Level Needed: GEI requires the most stringent Method 1 MCP standard be met for all analytes whenever possible.

Turnaround Time (Business days):
 Normal ___ Other ___
 10-Day ___ 7-Day
 5-Day ___ 3-Day ___

RUSH

Additional Requirements/Comments/Remarks:
 1. Metals = As, Cd, Cr, Pb, Hg, Se, Ag, Zn, Sb, Cu, Fe, Ni
 2. Bottles for metals and hexavalent Cr were unfiltered or field filtered (as specified on bottle labels). Do not analyze filtered metals until authorized by GEI. Filtered and unfiltered hexavalent Cr should be analyzed.
 3. Sample collected to support EPA Remediation General Permit (RGP) application - see attached list of parameters and minimum detection limits.

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Appendix VI: Minimum Levels and Test Methods

PARAMETER - CAS No. -	Minimum Levels and Test Methods ^{1,2,3}				
	GC ⁴	GCMS ⁵	LC ⁶	FAA ⁷	Other
1. Total Suspended Solids (TSS)					5 mg/l Method 160.2
2. Total Residual Chlorine (TRC)					20 ug/l Method 330.5
3. Total Petroleum Hydrocarbons (TPH)					5 mg/l Method 1664
4. Cyanide (total) - 57125 -					10 ug/l Method 335.4
5. Benzene (B) - 71432 -	0.5 ug/l Method 602	2 ug/l Method 624			Method 8260C ²
6. Toluene (T) - 108883 -	0.5 ug/l Method 602	2 ug/l Method 624			Method 8260C ²
7. Ethylbenzene (E) - 100414 -	0.5 ug/l Method 602	2 ug/l Method 624			Method 8260C ²
8. (m,p,o) Xylenes (X) - 108383;106423; 95476-	0.5 ug/l Method 602	10 ug/l Method 1624			Method 8260C ²
9. Total BTEX	0.5 ug/l Method 602	2 ug/l Method 624			Method 8260C ²
10. Ethylene Dibromide (EDB) (1,2- Dibromoethane) - 106934 -	1.0 ug/l Method 618 0.01 ug/l Method 504.1	0.1 ug/l Methods 524.2			Method 8260C ²

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PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GC/MS	LC	FAA	Other
11. Methyl-tert-Butyl Ether (MtBE)	0.5 ug/l Method 602 ^a	5.0 ug/l Method 524.2			Method 8260C ²
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol) - 75650 -	0.5 ug/l Method 602 ^b	100 ug/l Method 1666			Method 8260C ²
13. tert-Amyl Methyl Ether (TAME) -994058-	0.5 ug/l Method 602 ^b				Method 8260C ²
14. Naphthalene - 91203 -	10 ug/l Method 610 GC/FID	2 ug/l Method 625 5.0 ug/l Method 524.2	0.2 ug/l Method 610 HPLC		Method 8270D ³
15. Carbon Tetrachloride - 56235 -	0.5 ug/l Method 601	2 ug/l Methods 624, 1624			Method 8260C ²
16. 1,4 Dichlorobenzene (p-DCB) - 106467 -	0.5 ug/l Methods 601, 602	2 ug/l Methods 624, 625			Method 8260C ²
17. 1,2 Dichlorobenzene (o-DCB) - 95501 -	0.5 ug/l Methods 601, 602	2 ug/l Methods 624, 625			Method 8260C ²
18. 1,3 Dichlorobenzene (m-DCB) - 541731 -	0.5 ug/l Methods 601, 602	2 ug/l Methods 624, 625			Method 8260C ²
19. 1,1 Dichloroethane (DCA) - 75343 -	0.5 ug/l Method 601	1 ug/l Method 624			Method 8260C ²
20. 1,2 Dichloroethane (DCA)- 107062 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²

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PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GCMS	LC	FAA	Other
21. 1,1 Dichloroethylene (DCE) - 75354 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
22. cis-1,2 Dichloro-ethylene (DCE) -156592-	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
23. Dichloromethane (Methylene Chloride)- 75092 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
24. Tetrachloroethylene (PCE) - 127184 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
25. 1,1,1 Trichloro-ethane (TCA) - 71556 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
26. 1,1,2 Trichloro-ethane (TCA) - 79005 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
27. Trichloroethylene (TCE) - 79016 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
28. Vinyl Chloride - 75014 -	0.5 ug/l Method 601	2 ug/l Method 624			Method 8260C ²
29. Acetone - 67641 -	1.0 ug/l Method 524.2	50 ug/l Method 1624			Method 8260C ²
30. 1,4 Dioxane -123911-		50 ug/l Method 1624			Method 8260C ²
31. Total Phenols - 108952	1.0 ug/l Method 624 Method 8260 ²	1 ug/l Methods 625, 1625			Method 8260C ² Method 8270D ³
32. Pentachlorophenol (PCP) - 87865 -	1.0 ug/l Method 604 GCFID	5 ug/l Methods 625, 1625			Method 8270D ³

Remediation General Permit - Appendix VI

PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GCMS	LC	FAA	Other
33. Total Phthalates ⁹ (Phthalate esthers)		10 ug/l* Method 625			Method 8270D ³
34. Bis (2-Ethylhexyl) Phthalate (Di- (ethylhexyl) Phthalate) - 117817 -	10 ug/l Method 606	5 ug/l Method 625			Method 8270D ³
35. Total Group I Polynuclear Aromatic Hydrocarbons (PAH)					Method 8270D ³
a. Benzo(a) Anthracene -56553-	10 ug/l Method 610 GC	5 ug/l Method 625	0.05 ug/l Method 610 HPLC		Method 8270D ³
b. Benzo(a) Pyrene -50328 -		10 ug/l Method 625	2 ug/l Method 610 HPLC		Method 8270D ³
c. Benzo(b)Fluoranthene - 205992 -		10 ug/l Method 625	0.1 ug/l Method 610 HPLC		Method 8270D ³
d. Benzo(k)Fluoranthene - 207089 -		10 ug/l Method 625	2 ug/l Method 610 HPLC		Method 8270D ³
e. Chrysene - 218019 -		10 ug/l Method 625	5 ug/l Method 610 HPLC		Method 8270D ³
f. Dibenzo(a,h) anthracene		10 ug/l Method 625	0.1 ug/l Method 610 HPLC		Method 8270D ³
g. Indeno(1,2,3-cd) Pyrene - 193395 -		10 ug/l Method 625	0.15 ug/l Method 610		Method 8270D ³
36. Total Group II Polynuclear Aromatic Hydrocarbons (PAH)					Method 8270D ³

Minor Modification on Remediation General Permit (RGP):

On March 22, 2007, EPA made a minor modification to the RGP to correct the Minimum Level (ML) for total phthalates (Phthalates and esthers), using Gas Chromatography/Mass Spectrometry (GCMS) from 5ug/l, Method 625 to 10 ug/l, Method 625. This change is just in Row 33 on Page 4 of Appendix VI.

Remediation General Permit - Appendix VI

h. Acenaphthene - 83329 -	1 ug/l Method 610 GC/FID	1 ug/l Method 625	0.5 ug/l Method 610 HPLC		Method 8270D ³
i. Acenaphthylene - 208968 -		10 ug/l Method 625	0.2 ug/l Method 610 HPLC		Method 8270D ³
PARAMETER - CAS No. -	Minimum Levels and Test Methods (40 CFR 136)				
	GC	GCMS	LC	FAA	Other
j. Anthracene - 120127 -		10 ug/l Method 625	2 ug/l Method 610 HPLC		Method 8270D ³
k. Benzo(ghi) Perylene - 191242 -		5 ug/l Method 625	0.1 ug/l Method 610 HPLC		Method 8270D ³
l. Fluoranthene - 206440 -	10 ug/l Method 610 GC/FID	1 ug/l Method 625	0.5 ug/l Method 610 HPLC		Method 8270D ³
m. Fluorene - 86737 -		10 ug/l Method 625	0.1 ug/l Method 610 HPLC		Method 8270D ³
n. Naphthalene - 91203 -	10 ug/l Method 610 GC/FID	2 ug/l Method 625 5.0 ug/l Method 524.2	0.2 ug/l Method 610 HPLC		Method 8270D ³
o. Phenanthrene - 85018 -		5 ug/l Method 625	0.05 ug/l Method 610 HPLC		Method 8270D ³
p. Pyrene - 129000 -		10 ug/l Method 625	0.05 ug/l Method 610 HPLC		Method 8270D ³
37. Total Polychlorinated Biphenyls (PCBs) ¹⁰	0.5 ug/l Method 608				0.00005 ug/l Method 1668a ¹¹

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1. 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). Where a minimum level (ML) is listed but a test method is not specified, permittee may use any of the available methods approved for use under 40 CFR 136, including alternatives approved by this permit, that meets that ML. See EPA's "Methods and Guidance for the Analysis of Water" at www.epa.gov/water/owrcatalog.nsf. Where test method is specified but ML not listed for that method, the lowest ML for listed methods must be used before concentration can be considered as "non-detect."

2. For measuring volatile organic compounds, Method 8260C (or the latest version) may be used as a substitute for CWA Methods 524.2, 602, 624, or 1624. Method 8260C must be preceded by Method 5030 as the preparation method. However, any method changes must be accompanied by documented quality assurance quality control (QA/QC) test results to prove that the analytical process can achieve the lower detection limits of Method 8260C.

3. For measuring semi-volatile organic compounds, Method 8270D may be used as a substitute for Methods 610, 625, or 1625. Method 8270D must be preceded by Method 3535 or Method 3520C as the sample preparation method. In either case, the quality control requirements of Method 3500B must be taken into account. The sample preparation method must be specified with data analysis records. Method 8270D may be modified to provide lower detection and quantitation limits using Selected Ion Monitoring (SIM). Any method changes must be accompanied by documented quality assurance quality control (QA/QC) test results to prove that the analytical process can achieve the lower detection limits of Method 8270D.

4. GC - gas chromatography

5. GCMS - gas chromatography/mass spectrometry

6. LC - high pressure liquid chromatography

7. Flame Atomic Absorption

8. For measuring fuel oxygenates, Method 602 must be modified to include a heated purge.

9. The sum of individual phthalate compounds.

10. 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 Aroclor analyses".

11. Method 1668a (HRGC/HRMS) has been proposed by EPA and is currently being validated. When approval of the method is finalized, it will be approved for use with this general permit.

12. Methods 6010b and 200.7 for metals may only be used when sample prepared with SW-846 digestion method, Method 3010.

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M72112: Chain of Custody
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Inorganic parameters:	Minimum Levels (ug/l) and Test Methods			
	Flame Atomic Absorption	Inductively Coupled Plasma	Furnace Atomic Absorption	Other
38. Antimony	200 ug/l	50 ug/l	5 ug/l	
39. Arsenic		5 ug/l	2 ug/l	
40. Cadmium	10 ug/l	5 ug/l	0.5 ug/l	
Inorganic parameters:	Minimum Levels (ug/l) and Test Methods			
	Flame Atomic Absorption	Inductively Coupled Plasma	Furnace Atomic Absorption	Other
41. Chromium (total)	Method 218.1	10 ug/l Methods 200.7 ¹¹ , 200.8, 200.15, 1620	5 ug/l Method 200.9	50 ug/l
42. Chromium (hexavalent)				10 ug/l Method 218.6 Method 1636
43. Copper	20 ug/l	5 ug/l	3 ug/l	
44. Lead	100 ug/l	40 ug/l	3 ug/l	
45. Mercury				0.2 ug/l
46. Nickel	30 ug/l	10 ug/l	5 ug/l	
47. Selenium		50 ug/l	5 ug/l	
48. Silver	50 ug/l	10 ug/l	2 ug/l	
49. Zinc	30 ug/l	10 ug/l		
50. Iron		Methods 6010b 200.7 ¹²		

Remediation General Permit - Appendix VI



Massachusetts Department
of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-CAM

Exhibit VII A-1

21 May 2004

Revision No. 3.2

Final

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Title: MADEP MCP Response Action Analytical Report Certification Form

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MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Accutest Laboratories of New England Project #: M72112
Project Location: BMC New Ambulatory Building Boston MA MADEP RTN ¹ None

This form provides certifications for the following data set:
M72112-1, M72112-1A, M72112-1B

test method: EPA 1664, 335.4, SM21 2540D, 4500CL F, and below

Sample Matrices: Groundwater Soil/Sediment Drinking Water Other:

MCP SW-846 Methods Used	8260B (X)	8151A ()	8330 ()	6010B (X)	7470A/1A (X)
As specified in MADEP Compendium of Analytical Methods	8270C (X)	8081A ()	VPH ()	6020 ()	9014M ² ()
(Check all that apply)	8082 (X)	8021B ()	EPH ()	7000 S ³ ()	7196A (X)

¹ List Release Tracking Number (RTN), if known
² M - SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method
³ S - SW-846 Methods 7000 Series List Individual method and analyte

An affirmative response to questions A, B, C, and D is required for "Presumptive Certainty status"

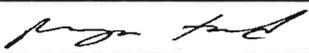
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/> No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No ¹
			Refer to Narrative	
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/> No ¹
			Refer to Narrative	

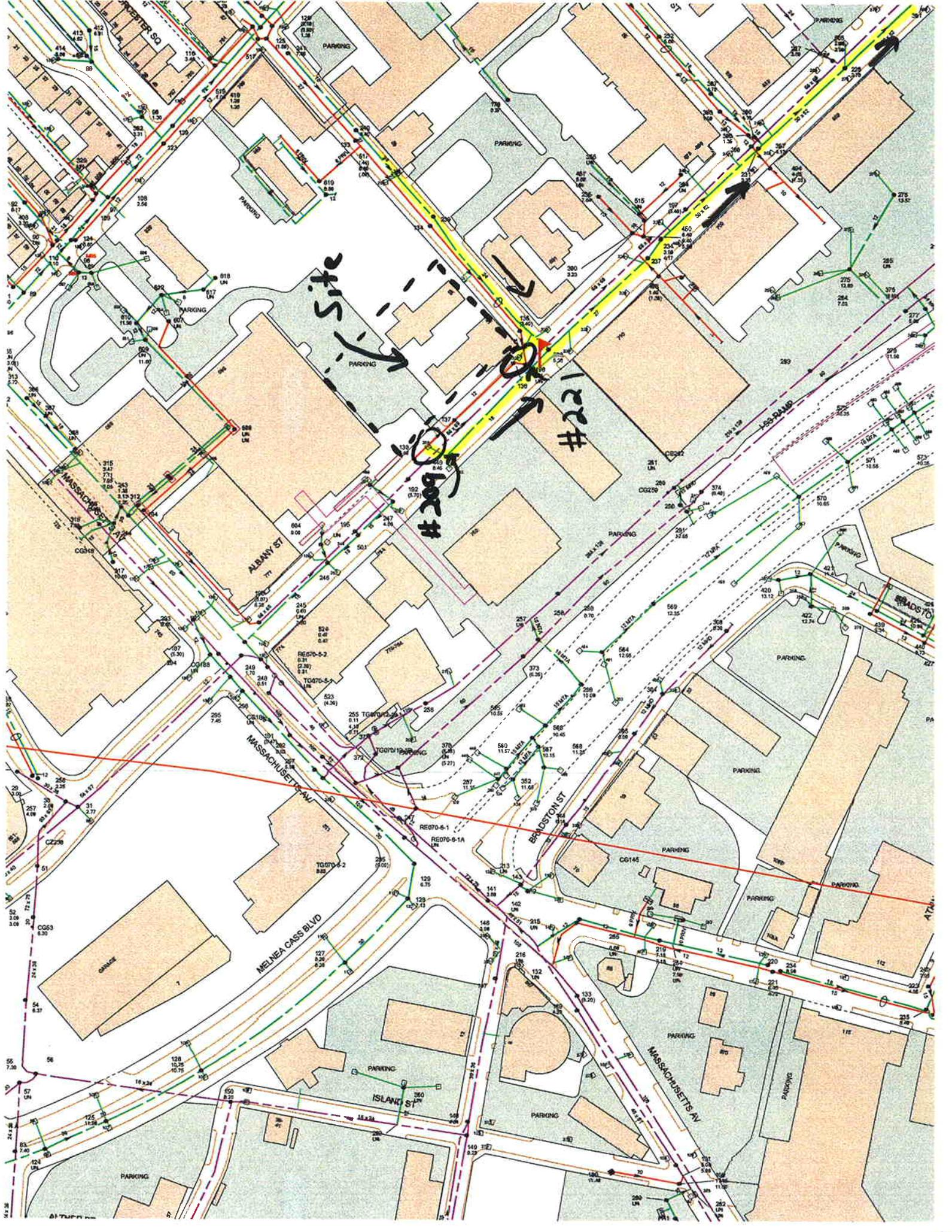
¹ All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

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:  Position: Laboratory Director
Printed Name: Reza Tand Date: 04/22/2008

Appendix C

BWSC Stormwater Drainage System Plan



Site

Bar #

#22

ALBANY ST

MASSACHUSETTS BLVD

MELNEA CASS BLVD

BOSTON ST

MASSACHUSETTS AV

ATLANTIC ST

BRADSTON ST

PARKING

