



ETS

ENVIRONMENTAL CONSULTING AND MANAGEMENT SERVICES

May 2, 2007

United States Environmental Protection Agency
RGP-NOC Processing
1 Congress Street
Boston, Massachusetts 02114-2023
Attn: Mr. Victor Alvarez
Via email alvarez.victor@epa.gov

RE: Remediation General Permit (RGP) Notice of Intent (NOI)
Former JEMS of New England
682 Main Street, Clinton, MA 01510
MADEP RTN 2-0760

Dear Mr. Alvarez:

On behalf of JEMS of New England, Entact Solutions, Inc. (ETS) is submitting this Remediation General Permit Notice of Intent for the above referenced site. The purpose of this Permit request is to allow for the discharge of treated groundwater associated with a groundwater recovery and treatment system as part of ongoing site remediation for the above referenced site as described in the Phase II/III/IV Addendum submitted to MADEP December 2006.

As described in the attached Notice of Intent, groundwater will be recovered from up to seven groundwater recovery wells and processed through an oil/water separator prior to treatment via three 200 pound liquid phase granular activated carbon vessels plumbed in series. This permit is a continuation of a NPDES permit exclusion for the same purpose. The treated discharge is directed to the local storm drain located on Main Street which ultimately is discharged into Counterpane Brook. The approximate location of the outfall is included

Attachment A includes the completed and signed Notice of Intent. Figures depicting the site location, the approximate location of the discharge and a Process and Instrumentation Diagram are included in Attachment B. Attachment C includes the laboratory reports and Attachment D includes the USGS Streamstat output page used to derive the low-flow dilution at the outfall.

If you have any questions regarding this submittal please do not hesitate to contact the undersigned.

Sincerely

For E T S

Scott Parker L.S.P
Sr. Project Manager

ATTACHMENT A
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 :		Facility/site address:		
Location of facility/site : longitude: _____ latitude: _____	Facility SIC code(s):	Street:		
b) Name of facility/site owner :		Town:		
Email address of owner:		State:	Zip:	County:
Telephone no. of facility/site owner :				
Fax no. of facility/site owner :		Owner is (check one): 1. Federal____ 2. State/Tribal____ 3. Private____ 4. other, if so, describe:		
Address of owner (if different from site):				
Street:				
Town:	State:	Zip:	County:	
c) Legal name of operator :	Operator telephone no:			
	Operator fax no.:		Operator email:	
Operator contact name and title:				

Address of operator (if different from owner):		Street:	
Town:	State:	Zip:	County:
d) Check “yes” or “no” for the following: 1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No___, if “yes,” number: 2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No___, if “yes,” date and tracking #: 3. Is the discharge a “new discharge” as defined by 40 CFR 122.2? Yes___ No___ 4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes___ No___			
e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes___ No___ If “yes,” please list: 1. site identification # assigned by the state of NH or MA: 2. permit or license # assigned: 3. state agency contact information: name, location, and telephone number:		f) Is the site/facility covered by any other EPA permit, including: 1. multi-sector storm water general permit? Y___ N___, if Y, number: 2. phase I or II construction storm water general permit? Y___ N___, if Y, number: 3. individual NPDES permit? Y___ N___, if Y, number: 4. any other water quality related permit? Y___ N___, if Y, number:	

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

a) Describe the discharge activities for which the owner/applicant is seeking coverage:		
b) Provide the following information about each discharge:	1) Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft ³ /s)? Max. flow _____ Average flow _____ Is maximum flow a design value ? Y___ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.
3) Latitude and longitude of each discharge within 100 feet: pt.1:long.____ lat.____; pt.2: long.____ lat.____; pt.3: long.____ lat.____; pt.4:long.____ lat.____; pt.5: long.____ lat.____; pt.6:long.____ lat.____; pt.7: long.____ lat.____; pt.8:long.____ lat.____; etc.		

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent _____ or seasonal _____? Is discharge ongoing Yes _____ No _____?
c) Expected dates of discharge (mm/dd/yy): start _____ end _____	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

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

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

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

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

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

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 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 (1,2- Dibromo-methane)										
11. Methyl-tert-Butyl Ether (MtBE)										
12. tert-Butyl Alcohol (TBA)										
13. tert-Amyl Methyl Ether (TAME)										
14. Naphthalene										
15. Carbon Tetra-chloride										
16. 1,4 Dichlorobenzene										
17. 1,2 Dichlorobenzene										
18. 1,3 Dichlorobenzene										
19. 1,1 Dichloroethane										
20. 1,2 Dichloroethane										
21. 1,1 Dichloroethylene										
22. cis-1,2 Dichloro-ethylene										
23. Dichloromethane (Methylene Chloride)										
24. Tetrachloroethylene										

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

⁵The 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										
g. Indeno(1,2,3-cd) Pyrene										
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)										
h. Acenaphthene										
i. Acenaphthylene										
j. Anthracene										
k. Benzo(ghi) Perylene										
l. Fluoranthene										
m. Fluorene										
n. Naphthalene-										
o. Phenanthrene										
p. Pyrene										
37. Total Polychlorinated Biphenyls (PCBs)										
38. Antimony										
39. Arsenic										
40. Cadmium										
41. Chromium III										
42. Chromium VI										

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

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

<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 ___ N ___</p>	<p>If yes, which metals?</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: _____ 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 ___ N ___ If “Yes,” list which metals:</p>

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

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

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

a) Identify the discharge pathway:	Direct _____	Within facility__	Storm drain _____	River/brook _____	Wetlands _____	Other (describe):
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:						

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:

1. For multiple discharges, number the discharges sequentially.

2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water

The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water _____,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water _____ cfs

Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ___ No ___ If yes, for which pollutant(s)?

Is there a TMDL? Yes ___ No ___ If yes, for which pollutant(s)?

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

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes ___ No ___

Has any consultation with the federal services been completed? 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: JEMS of New England

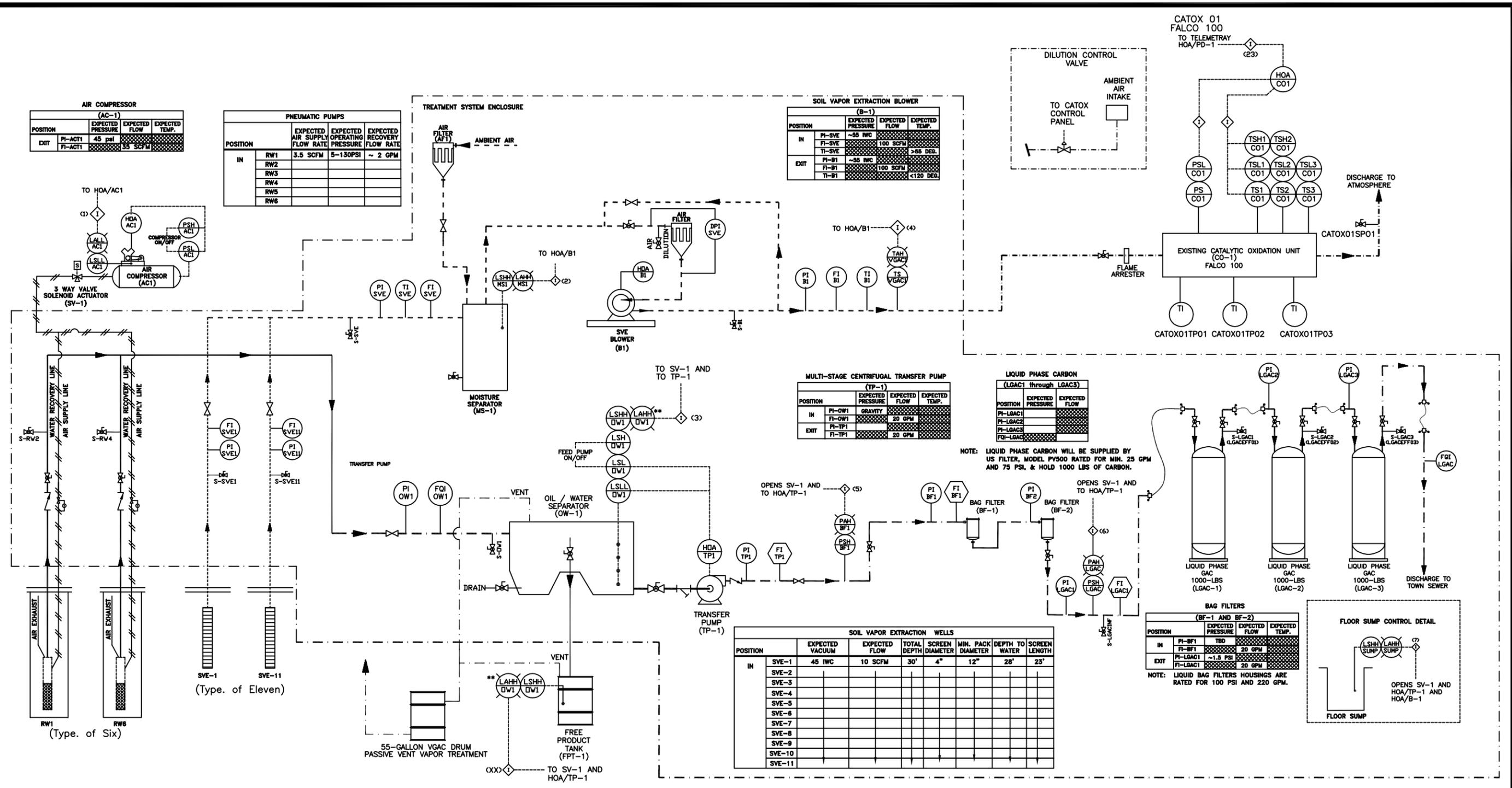
Operator signature:



Title: Project Manager

Date: 5/2/07

ATTACHMENT B
FIGURES



POSITION	EXPECTED PRESSURE	EXPECTED FLOW	EXPECTED TEMP.
EXIT	PI-AC1 FI-AC1	45 psi 55 SCFM	

POSITION	EXPECTED AIR SUPPLY FLOW RATE	EXPECTED OPERATING PRESSURE	EXPECTED RECOVERY FLOW RATE
IN	RW1 RW2 RW3 RW4 RW5 RW6	3.5 SCFM 5-130PSI	~ 2 GPM

POSITION	EXPECTED PRESSURE	EXPECTED FLOW	EXPECTED TEMP.
IN	PI-SVE FI-SVE	~55 TWC 100 SCFM	~58 DEG.
EXIT	PI-B1 FI-B1 TI-B1	~55 TWC 100 SCFM <120 DEG.	

POSITION	EXPECTED PRESSURE	EXPECTED FLOW	EXPECTED TEMP.
IN	PI-OW1 FI-OW1	GRAVITY 20 GPM	
EXIT	PI-TP1 FI-TP1	20 GPM	

POSITION	EXPECTED PRESSURE	EXPECTED FLOW
IN	PI-LGAC1 PI-LGAC2 PI-LGAC3 FI-LGAC	

POSITION	EXPECTED VACUUM	EXPECTED FLOW	TOTAL DEPTH	SCREEN DIAMETER	MIN. PACK DIAMETER	DEPTH TO WATER	SCREEN LENGTH
IN	SVE-1 SVE-2 SVE-3 SVE-4 SVE-5 SVE-6 SVE-7 SVE-8 SVE-9 SVE-10 SVE-11	45 TWC 10 SCFM	30'	4"	12"	28'	25"

POSITION	EXPECTED PRESSURE	EXPECTED FLOW	EXPECTED TEMP.
IN	PI-BF1 FI-BF1	TBD 20 GPM	
EXIT	PI-LGAC1 FI-LGAC1	~1.5 PSI 20 GPM	

INTERLOCK/FAILSAFE SCHEDULE

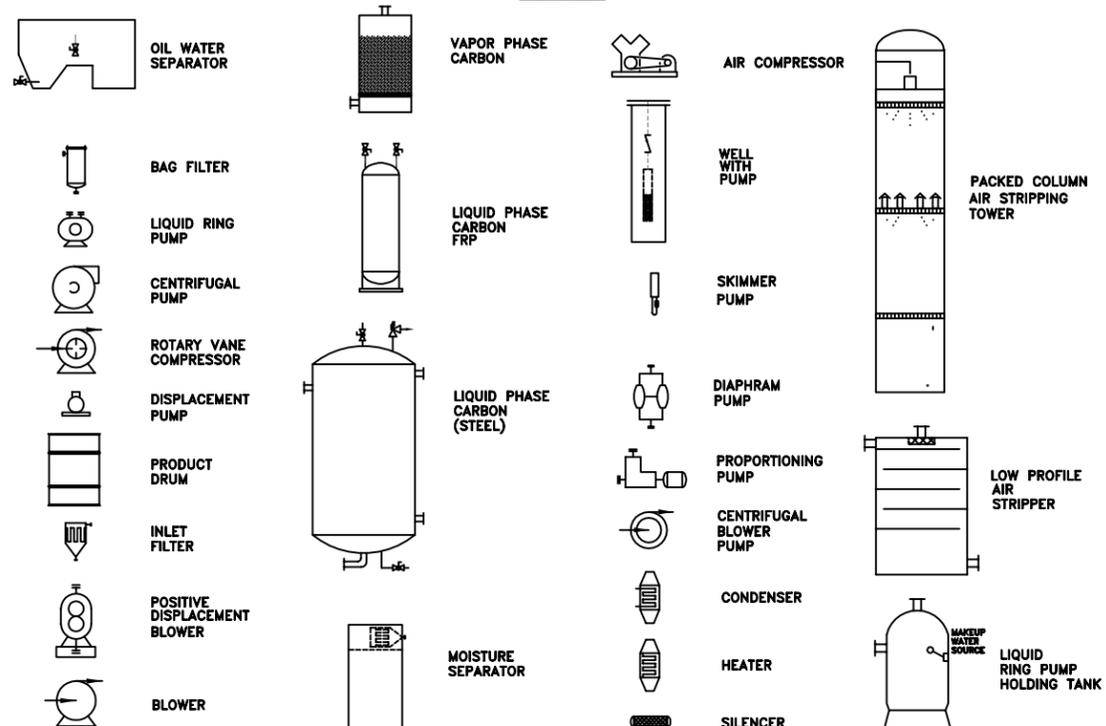
NO	LOCATION	FUNCTION
1.	Air Compressor (AC-1) Low Low Oil Level Switch	If a low oil level is detected in AC-1, AC-1 will be shut off.
2.	Moisture Separator (MS-1) High High Level Switch	If a high liquid level is detected in MS-1, the soil vapor extraction blower (B-1), and the Catox unit (CO-1) will be shut off.
3.	Vapor Phase GACs (VGAC-1 and VGAC-2) High Temperature Switch	If a high temperature is detected prior to the VGACs (VGAC-1 and VGAC-2), the soil vapor extraction blower (B-1) is shut off.
4.	Oil/Water Separator (OW-1) High High Level Switch	If a high liquid level is detected in OW-1, the 3-way valve solenoid actuator (SV-1) is opened, and the multi-stage centrifugal pump (TP-1) is shut off.
5.	Bag Filters (BFs) High Pressure Switch	If a high pressure is detected in the bag filters (BF-1 through BF-4), the 3-way valve solenoid actuator (SV-1) is opened, and the multi-stage centrifugal pump (TP-1) is shut off.
6.	Liquid Phase GACs (LGAC-1 through LGAC-3) High Pressure Switch	If a high pressure is detected in the LGACs (LGAC-1 through LGAC-3), the 3-way valve solenoid actuator (SV-1) is opened, and the multi-stage centrifugal pump (TP-1) is shut off.
7.	Floor Sump High High Level Switch	If a high liquid level is detected in the Floor Sump, the 3-way valve solenoid actuator (SV-1) is opened, and all remediation equipment is shut off.
8.	Product Drum LSHH	
9.	SVE-1 Temperature switch high	
9.	SVE-1 Pressure switch high	

FIGURE 15
SVE/GWE SYSTEM PROCESS & INSTRUMENTATION
 JEMS NEW ENGLAND
 682 MAIN STREET
 CLINTON, MASSACHUSETTS

KA REF.: 041005.01P&ID	CHECKED BY:
DRAFTED BY: DJO	DATE: 3/22/06
REVISED BY:	DATE:
SOURCE: KLEINFELDER	

* ALL INTERLOCKS ARE LATCHING

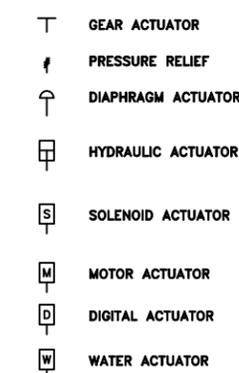
SYMBOL & LEGEND SHEET
EQUIPMENT



CONTROL VALVE BODIES



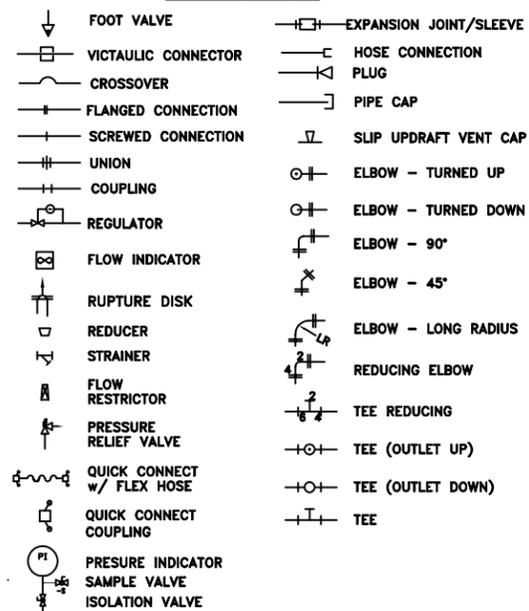
ACTUATORS / REGULATORS



VALVE ABBREVIATIONS

N.C. - NORMALLY CLOSED
N.O. - NORMALLY OPEN
MAN - MANUAL

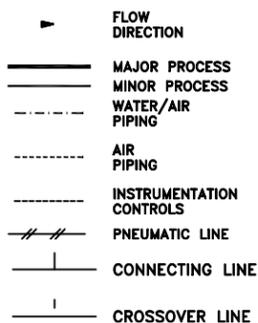
FITTINGS & PIPING



LINE DESIGNATION:

2 - VR - 01 - PV
SIZE IN INCHES PROCESS LINE NUMBER MATERIAL SPECIFICATION

PROCESS LINE INDICATORS



PROCESS LINE ABBREVIATIONS

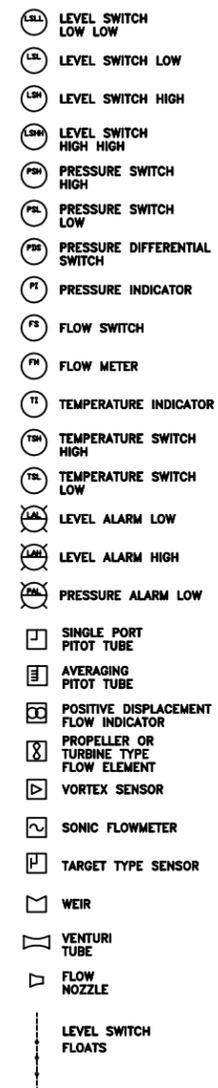
ES - ELECTRIC SUPPLY
GS - GAS SUPPLY
HS - HYDRAULIC SUPPLY
NS - NITROGEN SUPPLY
SS - STEAM SUPPLY
W - WATER SUPPLY
V - VACUUM
VR - VAPOR REMOVAL
TF - TOTAL FLUIDS
AP - ACCESS PIPE / CONDUIT
SA - SPARGE AIR
PN - PNEUMATIC SUPPLY

MATERIAL SPECIFICATION:

PV - POLYVINYL CHLORIDE
GM - GALVANIZED
RC - RIGID COPPER
IR - IRON
ABS - ACRYLONITRILE BUTADENE STYRENE
FL - FLEX

INSTRUMENTATION & CONTROLS

PRIMARY ELEMENT SYMBOLS



SYMBOL SPECIFICATION

INSTRUMENT TYPE:

PS PRESSURE SWITCH
PI PRESSURE INDICATOR
FI FLOW INDICATOR
FQI FLOW METER (TOTALIZING)
CI CAPACITIVE SENSOR
TI TEMPERATURE INDICATOR
TT TEMPERATURE TRANSDUCER
TS TEMPERATURE SENSOR
LEL EXPLOSIVITY METER
SL STATUS LAMP
PC PRESSURE CONTROL
SP SAMPLE POINT

INSTRUMENTATION



(SENSOR DESIGNATION)

D=DISCRETE
A=ANALOG
H=HI SPEED
O=OUTPUT
I=INPUT
1 SENSOR NUMBER



GENERAL INSTRUMENT OR FUNCTION SYMBOLS

	PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR	FIELD MOUNTED	AUXILIARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR
DISCRETE INSTRUMENTS			
SHARED DISPLAY, SHARED CONTROL			
1/100 CONTROL INTERLOCK LOGIC		T-100 PUMP P-100 WELL PUMP B-100 BLOWER H-100 HEATER HV-100 HYDRAULIC VALVE MV-100 MOTOR VALVE SV-100 SOLENOID VALVE	
INSTRUMENTS SHARING COMMON HOUSING			
PILOT LIGHT OR ALARM INDICATOR			

FIGURE 16
GWE/SVE SYSTEM LEGEND
JEMS NEW ENGLAND
682 MAIN STREET
CLINTON, MASSACHUSETTS

GSC REF.: 041005.01P&ID	CHECKED BY:
DRAFTED BY: DJO	DATE: 3/22/06
REVISED BY:	DATE:
SOURCE: GSC KA ENGINEERING DEPARTMENT	

ATTACHMENT C
LABORATORY REPORTS

REPORT OF ANALYTICAL RESULTS

NETLAB Case Number Q1004-09

Prepared for:

Geologic Services Corp.
30 Porter Road
Littleton, MA 01460
Attn: Trish Eliasson

Report Date: October 13, 2005

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, Rhode Island 02904-5392
PROVIDENCE (401) 353-3420 TOLL FREE: 1-888-863-8522

ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: New England Testing Laboratory, Inc.

Project #:

Project Location:

RTN¹:

This form provides certifications for the following data set: Q1004-09

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

SW-846 Methods Used	8260B ()	8151A ()	8330 ()	6010B ()	7470A/1A ()
	8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
	8082 ()	8021B ()	EPH ()	7000 S ³ ()	Other: (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, and C is required for "Presumptive Certainty" status

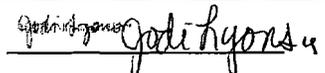
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of Custody documentation for the data set?	Yes (X) No ¹ ()
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes (X) No ¹ ()
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in Section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes (X) No ¹ () Not Applicable ()
D	VPH and EPH Methods only: Was the VPH and EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	Yes () 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?	Yes (X) No ¹ ()
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes (X) No ¹ ()

¹All NO answers 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: Director, Inorganics

Printed Name: Jodi Lyons Date: 10/12/2005

STATEMENTS/CERTIFICATIONS REQUIRED BY THE NATIONAL ENVIRONMENTAL LABORATORY APPROVAL CONFERENCE (NELAC)

New England Testing Laboratory is certified under the National Environmental Laboratory Approval Program (NELAP). This certification requires the following statements and certifications be included in our report.

This report shall not be reproduced, except in full, without written approval of the laboratory.

New England Testing certifies that the test results contained within this report meet all NELAC requirements except as detailed in the Case Narrative section of this report.

SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:

The samples listed in Table I were submitted to New England Testing Laboratory on October 4, 2005. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. The case number for this sample submission is Q1004-09.

Custody records are included in this report.

TABLE I, Samples Submitted

Sample ID	Date Sampled	Matrix	Analysis Requested
GAC INF01	10/4/05	Wastewater	Table II

TABLE II, Analysis and Methods

ANALYSIS	DETERMINATIVE METHOD
Total Suspended Solids	160.2
Total Residual Chlorine	330.5
Hexavalent Chromium	7196A
Total Metals	
Antimony	3113B
Arsenic	3113B
Cadmium	3113B
Chromium	200.7
Copper	200.7
Iron	200.7
Lead	3113B
Mercury	245.1
Nickel	200.7
Selenium	3113B
Silver	3113B
Zinc	200.7

These methods are documented in:

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992, APHA, AWWA-WPCF.

Manual of Methods for Chemical Analysis of Water and Water Wastes, EPA-600/4-79-020 (Revised 1983), USEPA/EMSL.

40 CFR 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act*, Office of Federal Register National Archives and Records Administration.



New England Testing Laboratory, Inc.

CASE NARRATIVE:

Sample Receipt:

No sample for ms/msd/duplicate analysis was supplied. No field blank was supplied. (This does not qualify the analytical results but does prevent conducting these SW-846 {Chapter 1, Section 3.4} QA Audits.)

The samples were all appropriately cooled and preserved upon receipt.

The samples were received in the appropriate containers.

The chain of custody was adequately completed and corresponded to the samples submitted.

Metals:

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures.

A marginal concentration of Iron was detected in the water method blank. The concentration of Iron was at the reporting limit. This has no significance on the usefulness of the sample result, which was found to be considerably greater than the blank contamination.

General Chemistry:

Total Residual Chlorine: No anomalies or excursions from QC limits.

Total Suspended Solids: No anomalies or excursions from QC limits.

Hexavalent Chromium: No anomalies or excursions from QC limits. As stated in Method 7196A, section 7.3, verification is required to ensure that there are no conditions interfering with the colorimetric process. This was not met with the sample, therefore a dilution was required.

Sample Results

Case No. Q1004-09

GACINF01

Parameter	Result, mg/l	Reporting Limit	Date Analyzed
Total Suspended Solids	1110	3	10/5/05
Total Residual Chlorine	N.D.	0.1	10/4/05
Hexavalent Chromium	N.D.	1	10/4/05 @ 15:37

N.D. = Not Detected

METALS RESULTS

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

METALS RESULTS



Case Number: Q1004-09
 Sample ID: GAC INF01
 Date collected: 10/04/05
 Matrix: WATER
 Sample Type: TOTAL

Analyst CC/RM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Antimony	7440-36-0	NA	3113B	0.007	0.005	0.005	mg/l	10/5/05	10/10/05
Arsenic	7440-38-2	NA	3113B	0.259	0.025	0.005	mg/l	10/5/05	10/7/05
Cadmium	7440-43-9	NA	3113B	0.0020	0.0005	0.0005	mg/l	10/5/05	10/10/05
Chromium	7440-47-3	NA	200.7	0.043	0.005	0.005	mg/l	10/4/05	10/10/05
Copper	7440-50-8	NA	200.7	0.18	0.02	0.02	mg/l	10/4/05	10/10/05
Iron	7439-89-6	NA	200.7	72	0.05	0.05	mg/l	10/4/05	10/10/05
Lead	7439-92-1	NA	3113B	0.110	0.010	0.002	mg/l	10/5/05	10/7/05
Mercury	7439-97-6	NA	245.1	ND	0.0002	0.0002	mg/l	10/5/05	10/6/05
Nickel	7440-02-0	NA	200.7	0.091	0.005	0.005	mg/l	10/4/05	10/10/05
Selenium	7782-49-2	NA	3113B	ND	0.005	0.005	mg/l	10/5/05	10/11/05
Silver	7440-22-4	NA	3113B	ND	0.0005	0.0005	mg/l	10/5/05	10/5/05
Zinc	7440-66-6	NA	200.7	0.25	0.02	0.02	mg/l	10/4/05	10/10/05

ND indicates not Detected

METALS RESULTS



Sample ID: METHOD BLANK

Matrix WATER
 Sample Type: Preparation Blank

Analyst CC/RM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Detection Limit	Units	Date of Preparation	Date Analyzed
Antimony	7440-36-0	NA	3113B	ND	0.005	0.005	mg/l	10/5/05	10/10/05
Arsenic	7440-38-2	NA	3113B	ND	0.005	0.005	mg/l	10/5/05	10/7/05
Cadmium	7440-43-9	NA	3113B	ND	0.0005	0.0005	mg/l	10/5/05	10/10/05
Chromium	7440-47-3	NA	200.7	ND	0.005	0.005	mg/l	10/4/05	10/10/05
Copper	7440-50-8	NA	200.7	ND	0.02	0.02	mg/l	10/4/05	10/10/05
Iron	7439-89-6	NA	200.7	0.08	0.05	0.05	mg/l	10/4/05	10/10/05
Lead	7439-92-1	NA	3113B	ND	0.002	0.002	mg/l	10/5/05	10/7/05
Mercury	7439-97-6	NA	245.1	ND	0.0002	0.0002	mg/l	10/5/05	10/6/05
Nickel	7440-02-0	NA	200.7	ND	0.005	0.005	mg/l	10/4/05	10/10/05
Selenium	7782-49-2	NA	3113B	ND	0.005	0.005	mg/l	10/5/05	10/11/05
Silver	7440-22-4	NA	3113B	ND	0.0005	0.0005	mg/l	10/5/05	10/5/05
Zinc	7440-66-6	NA	200.7	ND	0.02	0.02	mg/l	10/4/05	10/10/05

ND indicates not Detected

10/20/05

Technical Report for

Geologic Services Corporation

682 Main St., Clinton MA

Accutest Job Number: M51340

Sampling Date: 10/04/05

Report to:

GSC-Kleinfelder

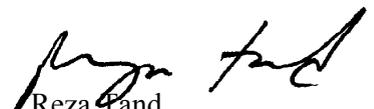
ryarnell@kleinfelder.com

ATTN: Robin Yarnell

Total number of pages in report: **14**



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

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

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Sample Summary

Geologic Services Corporation
682 Main St., Clinton MA

Job No: M51340

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M51340-1	10/04/05	08:10 MSJ	10/04/05	AQ	Ground Water	GACINF01
M51340-1A	10/04/05	08:10 MSJ	10/04/05	AQ	Ground Water	GACINF01

Report of Analysis

Client Sample ID:	GACINF01	Date Sampled:	10/04/05
Lab Sample ID:	M51340-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	682 Main St., Clinton MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G53841.D	1	10/18/05	AA	n/a	n/a	MSG2146
Run #2	G53847.D	5	10/18/05	AA	n/a	n/a	MSG2146

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	13.4	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	21.1	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:	GACINF01	Date Sampled:	10/04/05
Lab Sample ID:	M51340-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	682 Main St., Clinton 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	163	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	31.9	5.0	ug/l	
99-87-6	p-Isopropyltoluene	23.0	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	51.5	5.0	ug/l	
103-65-1	n-Propylbenzene	73.3	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	
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	15.3	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	594 ^a	25	ug/l	
108-67-8	1,3,5-Trimethylbenzene	183	5.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	345	1.0	ug/l	
95-47-6	o-Xylene	142	1.0	ug/l	
1330-20-7	Xylene (total)	487	1.0	ug/l	

ND = Not detected

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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:	GACINF01	Date Sampled:	10/04/05
Lab Sample ID:	M51340-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	682 Main St., Clinton MA		

VOA MCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	103%	82-127%
2037-26-5	Toluene-D8	98%	95%	88-112%
460-00-4	4-Bromofluorobenzene	112%	96%	80-118%

(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:	GACINF01	Date Sampled:	10/04/05
Lab Sample ID:	M51340-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	682 Main St., Clinton MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F16254.D	1	10/11/05	PN	10/05/05	OP9768	MSF886
Run #2							

Run #	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	11	ug/l	
120-83-2	2,4-Dichlorophenol	ND	11	ug/l	
105-67-9	2,4-Dimethylphenol	ND	11	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	11	ug/l	
88-75-5	2-Nitrophenol	ND	11	ug/l	
100-02-7	4-Nitrophenol	ND	21	ug/l	
87-86-5	Pentachlorophenol	ND	11	ug/l	
108-95-2	Phenol	ND	5.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	11	ug/l	
83-32-9	Acenaphthene	ND	5.3	ug/l	
208-96-8	Acenaphthylene	ND	5.3	ug/l	
120-12-7	Anthracene	11.7	5.3	ug/l	
92-87-5	Benzidine	ND	21	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.3	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.3	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.3	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.3	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.3	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.3	ug/l	
85-68-7	Butyl benzyl phthalate	ND	11	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	ug/l	
106-47-8	4-Chloroaniline	ND	11	ug/l	
218-01-9	Chrysene	ND	5.3	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.3	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.3	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.3	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:	GACINF01	Date Sampled:	10/04/05
Lab Sample ID:	M51340-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	682 Main St., Clinton MA		

ABN PPL List

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.3	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	11	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	11	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.3	ug/l	
84-74-2	Di-n-butyl phthalate	ND	11	ug/l	
117-84-0	Di-n-octyl phthalate	ND	11	ug/l	
84-66-2	Diethyl phthalate	ND	11	ug/l	
131-11-3	Dimethyl phthalate	ND	11	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	11	ug/l	
206-44-0	Fluoranthene	ND	5.3	ug/l	
86-73-7	Fluorene	ND	5.3	ug/l	
118-74-1	Hexachlorobenzene	ND	5.3	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.3	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	ug/l	
67-72-1	Hexachloroethane	ND	5.3	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.3	ug/l	
78-59-1	Isophorone	ND	5.3	ug/l	
91-20-3	Naphthalene	104	5.3	ug/l	
98-95-3	Nitrobenzene	ND	5.3	ug/l	
62-75-9	n-Nitrosodimethylamine	ND	5.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	ug/l	
85-01-8	Phenanthrene	83.2	5.3	ug/l	
129-00-0	Pyrene	15.1	5.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		10-120%
4165-62-2	Phenol-d5	32%		10-120%
118-79-6	2,4,6-Tribromophenol	98%		31-123%
4165-60-0	Nitrobenzene-d5	96%		32-120%
321-60-8	2-Fluorobiphenyl	40%		32-120%
1718-51-0	Terphenyl-d14	36%		33-123%

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:	GACINF01	Date Sampled:	10/04/05
Lab Sample ID:	M51340-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 504 EPA 504		
Project:	682 Main St., Clinton MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ29108.D	1	10/15/05	CZ	10/14/05	OP9830	GYZ1210
Run #2							

	Initial Volume	Final Volume
Run #1	35.3 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
106-93-4	1,2-Dibromoethane	0.093	0.015	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	Bromofluorobenzene (S)	106%		26-158%
460-00-4	Bromofluorobenzene (S)	117%		26-158%

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:	GACINF01	Date Sampled:	10/04/05
Lab Sample ID:	M51340-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 608 SW846 3510C		
Project:	682 Main St., Clinton MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	YZ28875.D	1	10/07/05	CZ	10/06/05	OP9777	GYZ1201
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	0.51	ug/l	
11104-28-2	Aroclor 1221	ND	0.51	ug/l	
11141-16-5	Aroclor 1232	ND	0.51	ug/l	
53469-21-9	Aroclor 1242	ND	0.51	ug/l	
12672-29-6	Aroclor 1248	ND	0.51	ug/l	
11097-69-1	Aroclor 1254	ND	0.51	ug/l	
11096-82-5	Aroclor 1260	ND	0.51	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	64%		44-132%
877-09-8	Tetrachloro-m-xylene	57%		44-132%
2051-24-3	Decachlorobiphenyl	81%		12-151%
2051-24-3	Decachlorobiphenyl	68%		12-151%

ND = Not detected
 RL = Reporting Limit
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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:	GACINF01	Date Sampled:	10/04/05
Lab Sample ID:	M51340-1	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	682 Main St., Clinton MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	10/06/05 16:22	MA	EPA 335.3
Oil And Grease, Gravimetric	17.3	5.1	mg/l	1	10/05/05	BF	EPA 1664

RL = Reporting Limit

Report of Analysis

Client Sample ID:	GACINF01	Date Sampled:	10/04/05
Lab Sample ID:	M51340-1A	Date Received:	10/04/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C BY SIM SW846 3510C		
Project:	682 Main St., Clinton MA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F16341.D	5	10/14/05	PN	10/07/05	OP9772	MSF889
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	Units	Q
87-86-5	Pentachlorophenol	ND	5.3	ug/l	
83-32-9	Acenaphthene	15.6	0.53	ug/l	
208-96-8	Acenaphthylene	5.7	0.53	ug/l	
120-12-7	Anthracene	ND	0.53	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.27	ug/l	
50-32-8	Benzo(a)pyrene	1.1	0.53	ug/l	
205-99-2	Benzo(b)fluoranthene	4.4	0.27	ug/l	
191-24-2	Benzo(g,h,i)perylene	5.6	0.53	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.53	ug/l	
218-01-9	Chrysene	1.2	0.53	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.53	ug/l	
206-44-0	Fluoranthene	2.2	0.53	ug/l	
86-73-7	Fluorene	40.8	0.53	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	3.2	0.53	ug/l	
91-57-6	2-Methylnaphthalene	281	1.1	ug/l	
91-20-3	Naphthalene	125	0.53	ug/l	
85-01-8	Phenanthrene	71.4	0.53	ug/l	
129-00-0	Pyrene	13.5	0.53	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-120%
4165-62-2	Phenol-d5	33%		10-120%
118-79-6	2,4,6-Tribromophenol	84%		23-135%
4165-60-0	Nitrobenzene-d5	43%		30-120%
321-60-8	2-Fluorobiphenyl	30%		25-120%
1718-51-0	Terphenyl-d14	33%		24-132%

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:

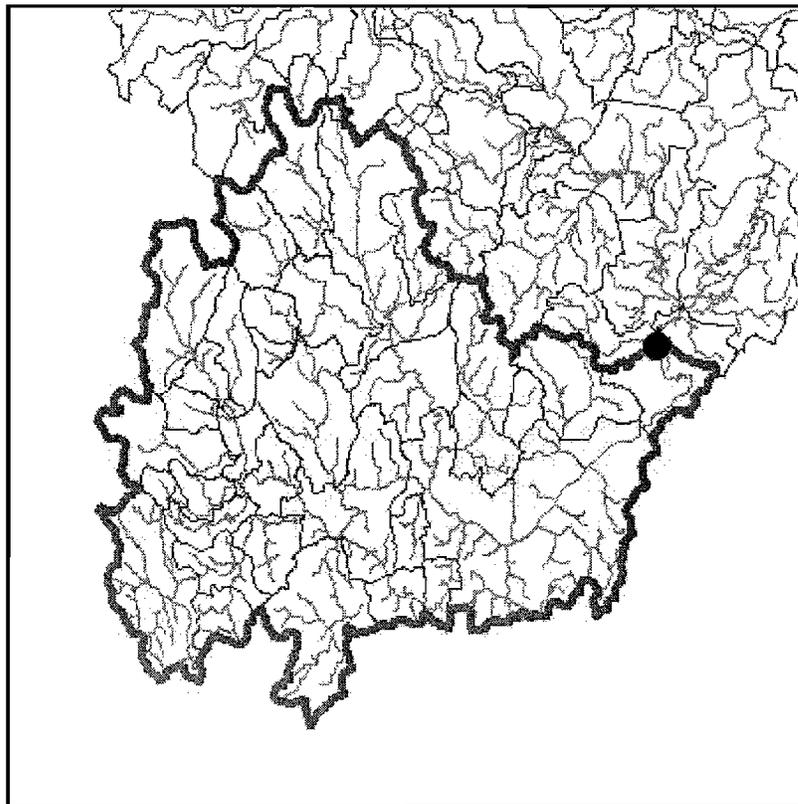
- Chain of Custody

ATTACHMENT D
STREAMSTAT OUTPUT



Clinton RFP

Streamflow Statistics Report



Date: Thu May 18 14:41:46 2006

Latitude: 42.4333

Longitude: -71.682

Measured Basin Characteristics:

Drainage Area (square miles): 126.38

Stratified Drift Area (square miles): 29.70

Stream Length (miles): 245.05

Slope (percent): 4.41

Region: 0

Statistic	Estimated streamflow, ft ³ /s	90% Prediction interval	
		Minimum	Maximum
99-percent duration flow	8.67	1.92	36.61
98-percent duration flow	10.70	2.50	43.30
95-percent duration flow	16.83	4.51	60.69
90-percent duration flow	24.91	7.34	82.70
85-percent duration flow	32.15	10.03	101.21
80-percent duration flow	39.98	12.39	127.20

75-percent duration flow	49.36	15.79	152.44
70-percent duration flow	62.81	20.33	192.15
60-percent duration flow	101.97	42.91	240.88
50-percent duration flow	132.88	60.01	293.06
7-day, 2-year low flow	16.83	4.15	65.69
7-day, 10-year low flow	8.36	1.75	37.32
August median flow	32.76	10.23	103.05

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