GZA
GeoEnvironmental, Inc.

Engineers and Scientists

MAG910399

December 9, 2008
File No. 13190.36

Mr. Victor Alvarez
United States Environmental Protection Agency – Region 1
1 Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

One Edgewater Drive
Norwood
Massachusetts
02062
781-278-3700
FAX 781-278-5701
http://www.gza.com

Re: Submittal of Notice of Intent (NOI)
Excavation Dewatering – Bonny Brook (North Pool & South Pool)
244 Worcester Street
North Grafton, Massachusetts
MassDEP - RTN No. 2-0535

Dear Mr. Alvarez:

GZA GeoEnvironmental, Inc. (GZA), on behalf of Wyman Gordon Company (WG), has prepared this Notice of Intent (NOI) for application of a National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) for proposed remediation activities at the above referenced location (Figures 1 and 2). This NOI is being submitted for conducting Phase IV Remedial Implementation Plan (RIP) activities for portions of Bonny Brook as per Massachusetts Contingency Plan (MCP: 310 CMR 40.0870). The RIP for the Bonny Brook was submitted to the Massachusetts Department of Environmental Protection on January 18, 2008 and defines the proposed excavation activities for remediation of portions of Bonny Brook. As there is a likely need to discharge water generated from the dewatering of the area of the brook to be excavated, the enclosed NOI form provides required information on the general site conditions, proposed treatment system, discharge location and receiving water, and analytical results for the Bonny Brook area identified as Bonny Brook (North Pool & South Pool) which is shown in the Figure 3.

The excavation, dewatering, and discharge of treated water are scheduled to begin late summer 2009.

SITE DESCRIPTION

WG's North Grafton plant, located at 244 Worcester Street (Route 122), manufactures large specialty metal parts, primarily for the military and the aerospace industry. Operations conducted at the plant include forging, milling, and etching.

Bonny Brook originates from wetlands south of Route 122, upstream of the WG property. The brook flows through a culvert under Route 122 and enters the WG property near the Grafton/Millbury town line (see Figure 2). Bonny Brook flows

through WG property, between the WG North Grafton Facility and the WG Millbury property, and thence northward along the National Grid Company power line property that separates the two WG facilities (Figure 2). At the northwest corner of the North Grafton facility, the brook turns eastward for approximately 650 feet before heading north through a culvert under the CSX Railroad right-of-way. North of the railroad tracks, Bonny Brook flows through a commercial/light industrial area, then through a residential property before entering Flint Pond.

PROPOSED ACTIVITIES

The objective of the proposed remedial action is to remove surficial sediments and sludge from portions of the Bonny Brook (North Pool & South Pool) impact area. The proposed location of excavation is depicted in Figure 3. As shown on this figure, it is anticipated that approximately 1,400 square feet of surficial sludge deposits will be excavated to an average depth of 1.5 feet below grade. The limits of the excavation vertically and horizontally will be based on visual observations. If visual impacts are observed at greater than 1.5 feet below surface, the depth of sediment removal will be increased (with a maximum depth of about 2.5 feet) in order to remove the most heavily impacted sediment observed within the pools. This material will be transported to an off-site facility for disposal.

Water generated during dewatering activities will be treated as described in the attached NOI submittal, sampled as required and discharged from the location of the proposed dewatering treatment system downstream of the North Pool excavation.

Please do not hesitate to contact the undersigned at (781) 278-3700 if you have any questions or require further information.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

John A. Colbert
Senior Project Manger

Gregg McBride
Principal

Enclosures:

Attachment 1: NOI Form
Attachment 2: Figure 1 - Site Locus Map
Attachment 3: Figure 2 - Overview of Wyman Gordon Company
Attachment 4: Figure 3 - Proposed Activity Plan of Bonny Brook Area
Attachment 5: Figure 4 - Process Flow Diagram
Attachment 6: Laboratory Analytical Results
Attachment 7: Supplemental Information - 7Q10 data for Bonny Brook (North Pool & South Pool)
Attachment 8: Copy of a letter from Tribal Historic Preservation Officer

cc: Mr. Bradford C. Middlesworth, P.E.
MassDEP – Northeast Region
File

ATTACHMENT 1

NOI FORM

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**: Wyman-Gordon			**Facility/site** address: 244 Worcester St., North	
Location of **facility/site**: North Grafton, MA longitude: -71.72 latitude: 42.23	Facility SIC code(s):		Street: Worcester	
b) Name of **facility/site owner:** Wyman-Gordon			Town: North Grafton	
Email address of owner:			State: MA	Zip: 01536
Telephone no.of facility/site **owner**: (508) 839-8183				
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**: Bradford C. Middlesworth		**Operator** telephone no: (508) 839-8158		
		Operator fax no.:	**Operator** email: bmiddle	
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: MA 2. permit or license # assigned: MCP RTN 2-0535 3. state agency contact information: name, location, and telephone number: Michael LeBlanc, DEP Central Regional Office, 627 Main St., Worcester, MA 01608, 508-767-2830	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: MA 0004341 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:

During the Phase IV implementation activities at the Bonny Brook wetland location, there is a likely need to discharge water generated from the dewatering of the wetland areas to be excavated.

b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft3/s)? Max. flow 0.22 cfs Average flow 0.11cfs 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. -7143.65 lat. 4214.33; 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 06/01/09 end 12/30/09

d) Please attach a line drawing or flow schematic showing water flow through the facility including: (SEE FIGURE 4)
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 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/L)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		✓	1	grab	160.2	2000	150,000		150,000	
2. Total Residual Chlorine	✓		1	grab	Sm4500-CLD	20	BDL		BDL	
3. Total Petroleum Hydrocarbons		✓	1	grab	1664	500	6700		6700	
4. Cyanide	✓		1	grab	335.2	10	BDL		BDL	
5. Benzene	✓		1	grab	8260	0.50	BDL		BDL	
6. Toluene	✓		1	grab	8260	0.50	BDL		BDL	
7. Ethylbenzene	✓		1	grab	8260	0.50	BDL		BDL	
8. (m,p,o) Xylenes	✓		1	grab	8260	1.50	BDL		BDL	
9. Total BTEX[4]	✓		1	grab	8260	3.0	BDL		BDL	

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/L)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide [5] (1,2- Dibromo-methane)	✓		1	grab	8260	1.0	BDL		BDL	
11. Methyl-tert-Butyl Ether (MtBE)	✓		1	grab	8260	0.50	BDL		BDL	
12. tert-Butyl Alcohol (TBA)	✓		1	grab	8260	13	BDL		BDL	
13. tert-Amyl Methyl Ether (TAME)	✓		1	grab	8260	1.0	BDL		BDL	
14. Naphthalene	✓		1	grab	8260	1.0	BDL		BDL	
15. Carbon Tetra-chloride	✓		1	grab	8260	0.50	BDL		BDL	
16. 1,4 Dichlorobenzene	✓		1	grab	8260	0.50	BDL		BDL	
17. 1,2 Dichlorobenzene	✓		1	grab	8260	0.50	BDL		BDL	
18. 1,3 Dichlorobenzene	✓		1	grab	8260	0.50	BDL		BDL	
19. 1,1 Dichloroethane	✓		1	grab	8260	0.50	BDL		BDL	
20. 1,2 Dichloroethane	✓		1	grab	8260	0.50	BDL		BDL	
21. 1,1 Dichloroethylene	✓		1	grab	8260	0.50	BDL		BDL	
22. cis-1,2 Dichloro-ethylene	✓		1	grab	8260	0.50	BDL		BDL	
23. Dichloromethane (Methylene Chloride)	✓		1	grab	8260	1.0	BDL		BDL	
24. Tetrachloroethylene	✓		1	grab	8260	0.50	BDL		BDL	

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

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/L)	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		1	grab	8260	0.50	BDL		BDL	
26. 1,1,2 Trichloroethane	✓		1	grab	8260	0.50	BDL		BDL	
27. Trichloroethylene	✓		1	grab	8260	0.50	BDL		BDL	
28. Vinyl Chloride	✓		1	grab	8260	0.50	BDL		BDL	
29. Acetone	✓		1	grab	8260	13	BDL		BDL	
30. 1,4 Dioxane	✓		1	grab	8260	50	BDL		BDL	
31. Total Phenols	✓		1	grab	8270	10	BDL		BDL	
32. Pentachlorophenol	✓		1	grab	8270	50	BDL		BDL	
33. Total Phthalates [6] (Phthalate esthers)	✓		1	grab	8270	65	BDL		BDL	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		1	grab	8270	10	BDL		BDL	
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)										
a. Benzo(a) Anthracene	✓		1	grab	8270	20	BDL		BDL	
b. Benzo(a) Pyrene	✓		1	grab	8270	20	BDL		BDL	
c. Benzo(b)Fluoranthene	✓		1	grab	8270	20	BDL		BDL	
d. Benzo(k) Fluoranthene	✓		1	grab	8270	20	BDL		BDL	
e. Chrysene	✓		1	grab	8270	20	BDL		BDL	

[6] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/L)	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		1	grab	8270	2.0	BDL		BDL	
g. Indeno(1,2,3-cd) Pyrene	✓		1	grab	8270	2.0	BDL		BDL	
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)										
h. Acenaphthene	✓		1	grab	8270	2.0	BDL		BDL	
i. Acenaphthylene	✓		1	grab	8270	2.0	BDL		BDL	
j. Anthracene	✓		1	grab	8270	2.0	BDL		BDL	
k. Benzo(ghi) Perylene	✓		1	grab	8270	2.0	BDL		BDL	
l. Fluoranthene	✓		1	grab	8270	2.0	BDL		BDL	
m. Fluorene	✓		1	grab	8270	2.0	BDL		BDL	
n. Naphthalene-	✓		1	grab	8270	2.0	BDL		BDL	
o. Phenanthrene	✓		1	grab	8270	2.0	BDL		BDL	
p. Pyrene	✓		1	grab	8270	2.0	BDL		BDL	
37. Total Polychlorinated Biphenyls (PCBs)	✓		1	grab	608	3.5	BDL		BDL	
38. Antimony	✓		1	grab	6010B	25	BDL		BDL	
39. Arsenic		✓	1	grab	6010B	5	15		15	
40. Cadmium	✓		1	grab	6010B	5	BDL		BDL	
41. Chromium III		✓	1	grab	6010B	5	70		70	
42. Chromium VI	✓		1	grab	SM3500CRD	5	BDL		BDL	

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method (ug/L)	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		✓	1	grab	6010B	5.0	300		300	
44. Lead		✓	1	grab	6010B	10	73		73	
45. Mercury	✓		1	grab	7470A	0.2	BDL		BDL	
46. Nickel		✓	1	grab	6010B	10.0	58		58	
47. Selenium	✓		1	grab	6010B	25	BDL		BDL	
48. Silver	✓		1	grab	6010B	5	BDL		BDL	
49. Zinc		✓	1	grab	6010B	10	520		520	
50. Iron		✓	1	grab	6010B	25	13,000		13,000	
Other (describe):										

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

Step 1: Do any of the metals in the influent have a **reasonable potential** to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y[✓] N[ ]	If yes, which metals? Arsenic, Chromium III, Copper, Lead, Nickel, Zinc, Iron
Step 2: 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: Arsenic, Chromium III, Copper, Lead, Nickel, Zinc, Iron DF: 1.16 (SEE ATTACHED STREAM STAT REPORT)	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: Arsenic, Chromium III, Nickel, Copper, Lead, Iron, Zinc

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 50 gpm Maximum flow rate of treatment system 100 gpm Design flow rate of treatment system 50 gpm						
d) A description of chemical additives being used or planned to be used (attach MSDS sheets): NONE						

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: Treated water discharges from the location of proposed treatment system downstream of the south pool excavation into the existing culvert. Discharged water flows via a channel and wetlands to Flint Pond.						
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 Class B,						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0.0365 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)? Phosphorous Is there a TMDL? Yes ✓ No____ If yes, for which pollutant(s)? Phosphorous						

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: Wyman-Gordon

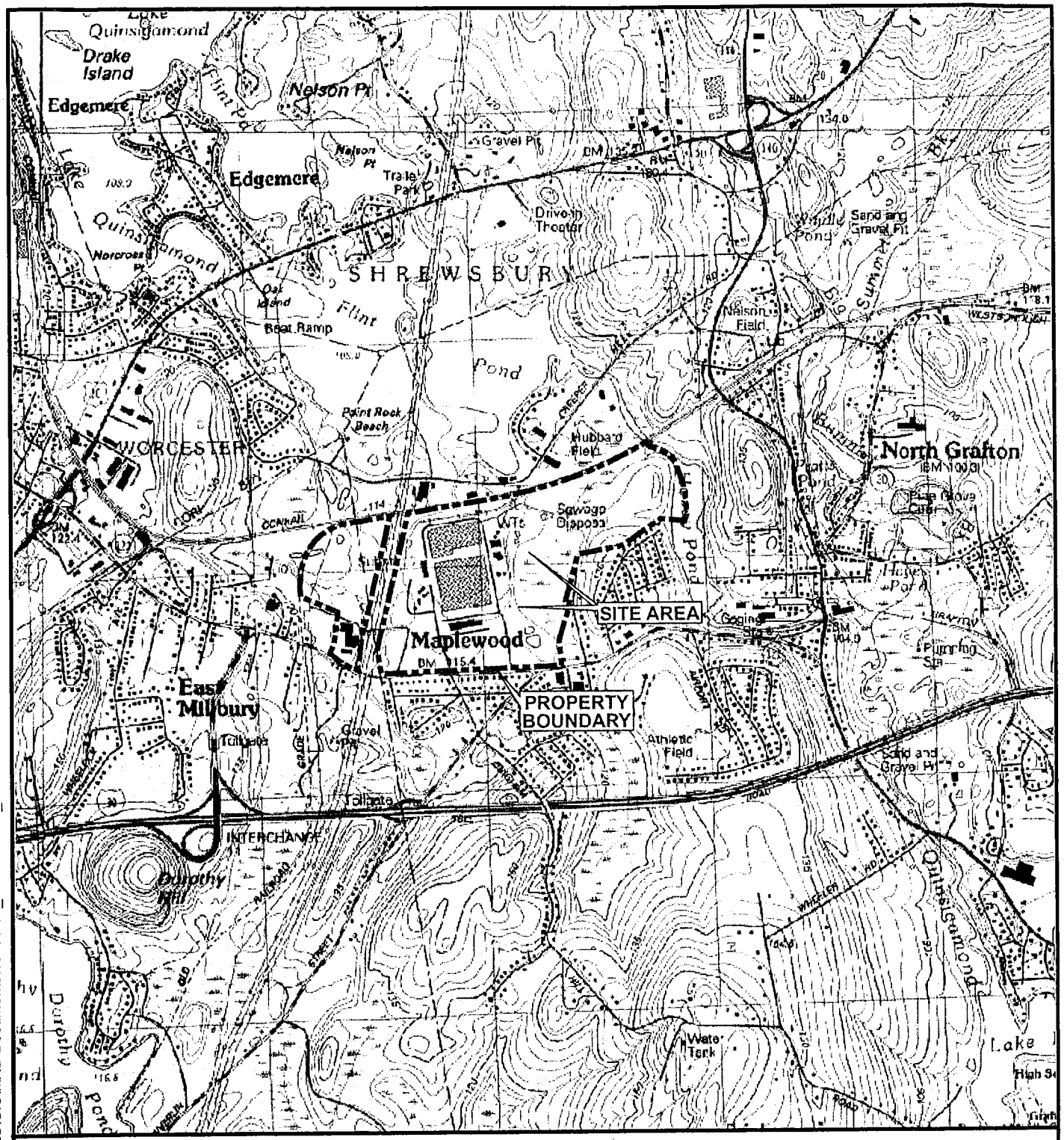
Operator signature: Bradford Middlesworth

Title: Division Environmental Manager

Date: 12/9/08

ATTACHMENT 2

FIGURE 1 – SITE LOCUS MAP



SOURCE : SCANNED USGS TOPOGRAPHIC QUADRANGLES
SCANNED BY THE MASSACHUSETTS EXECUTIVE OFFICE OF

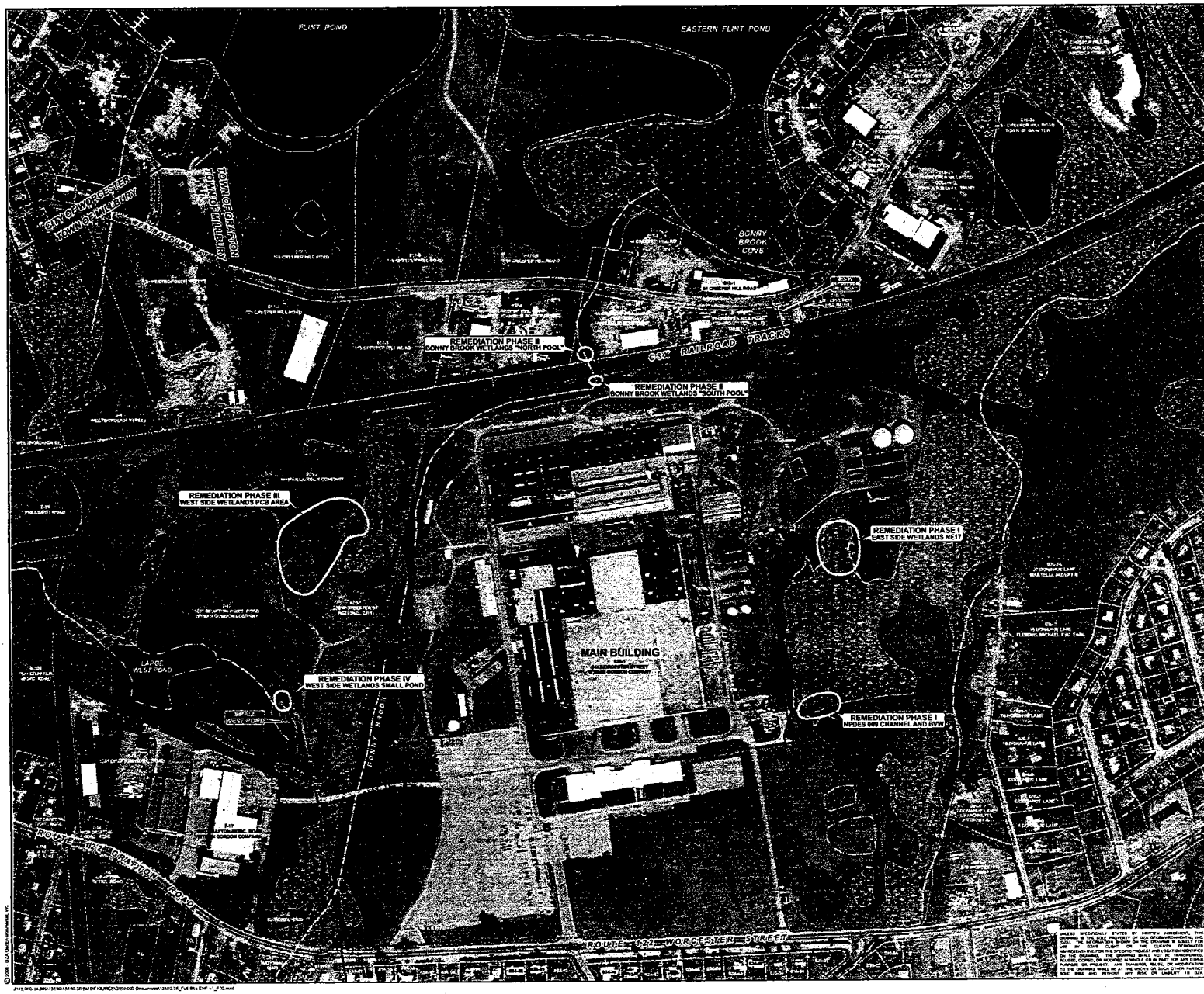
Data Supplied by :

MASS GIS

G:\13190-36\FIGURES\GIS\MXD Documents\13190-36_SiteLocus-v2_F01.mxd

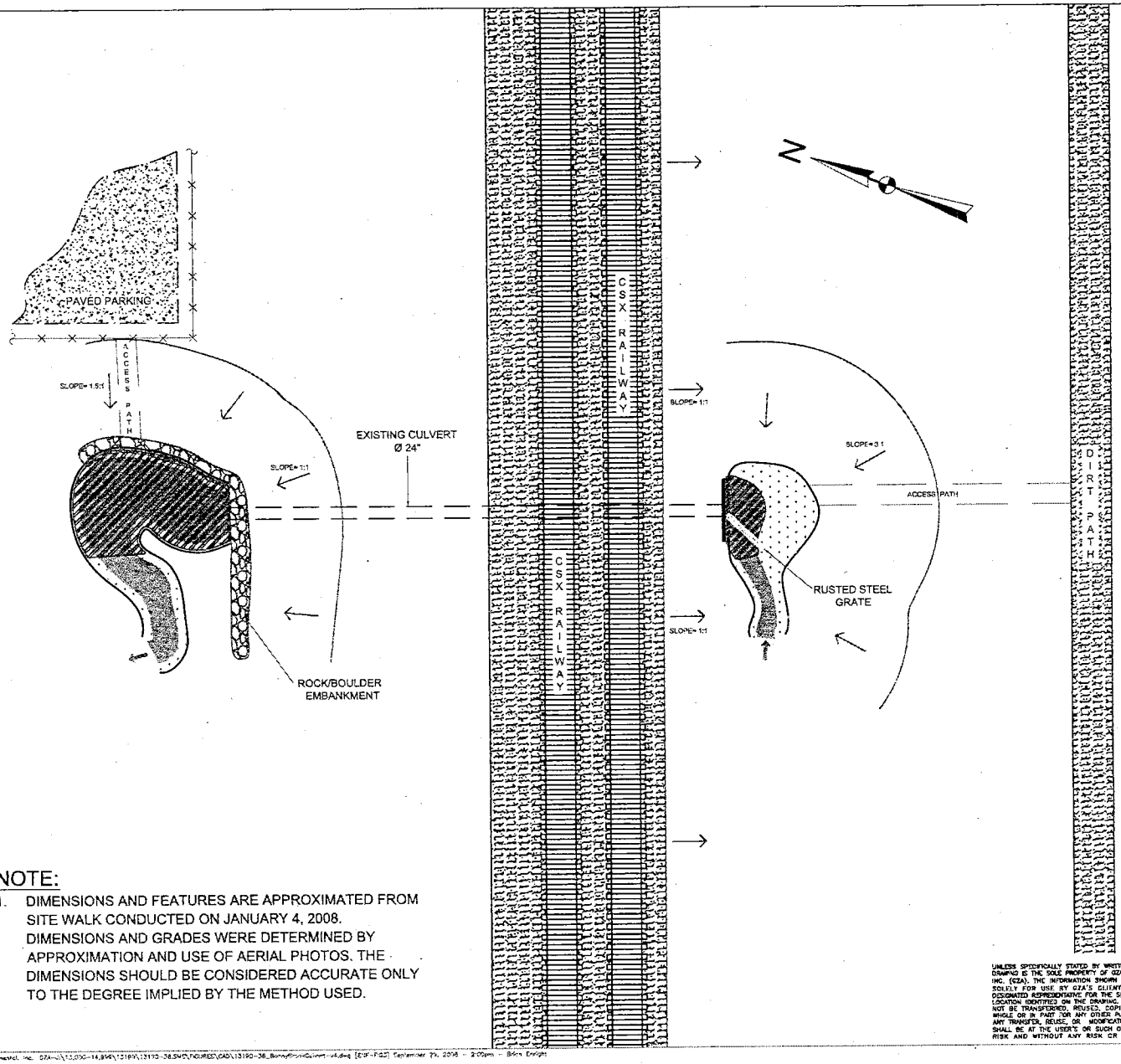
ATTACHMENT 3

FIGURE 2 – OVERVIEW OF WYMAN GORDON COMPANY


FLINT POND
EASTERN FLINT POND
CITY OF WORCESTER
TOWN OF MILLBURY
TOWN OF GRAFTON
BONNY BROOK COVE
REMEDIATION PHASE II
BONNY BROOK WETLANDS "NORTH POOL"
REMEDIATION PHASE II
BONNY BROOK WETLANDS "SOUTH POOL"
CSX RAILROAD TRACKS
REMEDIATION PHASE III
WEST SIDE WETLANDS PCB AREA
REMEDIATION PHASE I
EAST SIDE WETLANDS NE17
MAIN BUILDING
LAPPE WEST POND
REMEDIATION PHASE IV
WEST SIDE WETLANDS SMALL POND
REMEDIATION PHASE I
NPDES 009 CHANNEL AND BVW
ROUTE 122 WORCESTER STREET

ATTACHMENT 4

FIGURE 3 – PROPOSED ACTIVITY PLAN OF BONNY BROOK AREA



LEGEND

- BONNY BROOK
- DIRECTION OF FLOW FOR BONNY BROOK
- CSX RAILWAY
- MARSH/MUCK
- DIRT/GRAVEL
- LIMITS OF REMEDIATION
- ROCK/BOULDER
- CHAIN LINK FENCE
- BEGINNING OF SLOPE
- DIRECTION OF GRADE (DOWNWARD SLOPE)

0 10' 20' 40'

SCALE IN FEET
(SEE NOTE 1)

NOTE:

1. DIMENSIONS AND FEATURES ARE APPROXIMATED FROM SITE WALK CONDUCTED ON JANUARY 4, 2008. DIMENSIONS AND GRADES WERE DETERMINED BY APPROXIMATION AND USE OF AERIAL PHOTOS. THE DIMENSIONS SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

BONNY BROOK
REMEDIATION PLAN

NORTH GRAFTON, MASSACHUSETTS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists
1 EDGEWATER DRIVE
NORWOOD, MA 02062
(781) 278-3700

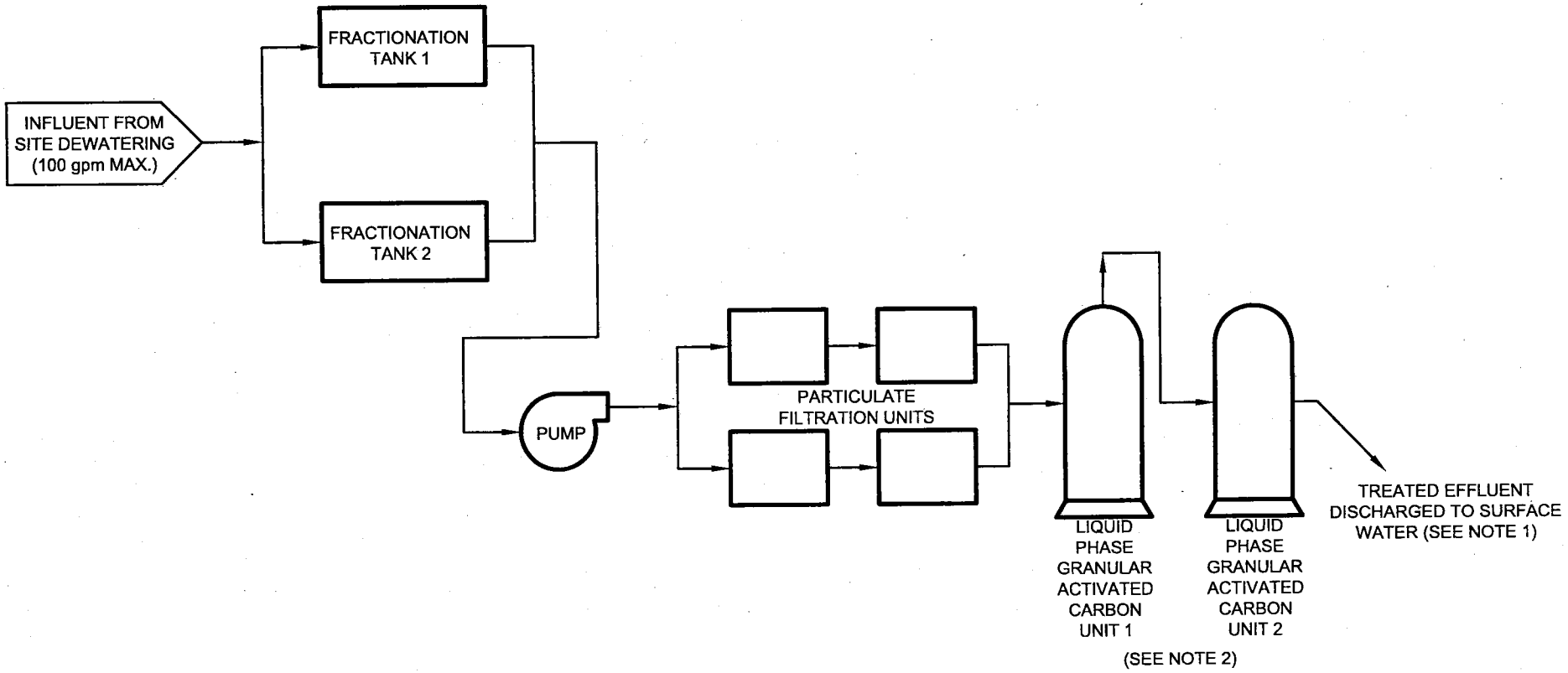
PREPARED FOR: WYMAN GORDON

PHASE IV REMEDY IMPLEMENTATION PLAN

PROJ. MGR:	JAC	REVIEWED BY:	JAC	CHECKED BY:		FIGURE
DESIGNED BY:	JAC	DRAWN BY:	BPE	SCALE:	1" = 20'	3
DATE:	1/15/08	PROJECT NO.	13190.35	REVISION NO.		

ATTACHMENT 5

FIGURE 4 – PROCESS FLOW DIAGRAM



NOTE:

1. DISCHARGE FROM THE VARIOUS LOCATIONS SHALL BE AS FOLLOWS:
   - EAST WETLANDS NE17 = DISCHARGE TO BE LOCATED AT DISCHARGE FOR THE RMF.
   - NPDES 009 CHANNEL = DISCHARGE TO BE TO NPDES 009 CHANNEL DOWNSTREAM OF REMEDIATION AREA.
   - BONNY BROOK = DISCHARGE TO BE TO BONNY BROOK DOWNSTREAM OF REMEDIATION AREA.
2. BASED ON ANALYTICAL RESULTS OF THE DISCHARGE AN IONIZATION EXCHANGE UNIT MAY ALSO BE NEEDED.

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists, One Edgewater Drive, Norwood, Massachusetts (781)278-3700	EAST WETLAND AND BONNY BROOK NORTH GRAFTON, MASSACHUSETTS	PROJ MGR: JAC DESIGNED BY: SC REVIEWED BY: JAC DRAWN BY: GAS CHECKED BY: RP SCALE: NOT TO SCALE	DATE: 09-29-2008 PROJECT NO.: 13190.36 REVISION NO.:	FIGURE 4
PREPARED FOR: WYMAN GORDON	PROCESS FLOW DIAGRAM PROPOSED DEWATERING TREATMENT SYSTEM			

ATTACHMENT 6

LABORATORY ANALYTICAL RESULTS

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
(781) 278-4700

ANALYTICAL REPORT

GZA GeoEnvironmental, Inc.
One Edgewater Drive
Norwood, MA 02062

Michele Simoneaux

Project Name.: **Wyman-Gordon**
Project No.: **01.0013190.36**

Date Received: **07/28/2008**
Date Reported: **08/07/2008**
Work Order No.: **0807-00184**

LABORATORY STATEMENTS:

NELAC certification, as indicated by the NELAC ID Number, is per analyte. For a complete list of NELAC validated analytes, please contact the laboratory.

Abbreviations:
% R = % Recovery
DF = Dilution Factor
CF = Calculation Factor
DO = Diluted Out

Method Key:
Method 8260: The current version of the method is 8260B.
Method 8021: The current version of the method is 8021B.
Method 8270: The current version of the method is 8270C.
Method 6010: The current version of the method is 6010B.

Soil data is reported on a dry weight basis unless otherwise specified.

Matrix Spike / Matrix Spike Duplicate sets are performed as per method and are reported at the end of the analytical report if assigned on the Chain of Custody.

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Work Order No.: **0807-00184**

Sample ID: **SW - 5**
Sample No.: **003**
Sample Date: **07/28/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
VOLATILE ORGANICS	EPA 8260			MQS	08/04/2008
Dichlorodifluoromethane	EPA 8260	<1.0	ug/L	MQS	08/04/2008
Chloromethane	EPA 8260	<1.0	ug/L	MQS	08/04/2008
Vinyl Chloride	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Bromomethane	EPA 8260	<1.0	ug/L	MQS	08/04/2008
Chloroethane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Trichlorofluoromethane	EPA 8260	<1.0	ug/L	MQS	08/04/2008
Diethylether	EPA 8260	<2.5	ug/L	MQS	08/04/2008
Acetone	EPA 8260	<13	ug/L	MQS	08/04/2008
1,1-Dichloroethene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Freon 113	EPA 8260	<1.0	ug/L	MQS	08/04/2008
Carbon Disulfide	EPA 8260	<25	ug/L	MQS	08/04/2008
Dichloromethane	EPA 8260	<1.0	ug/L	MQS	08/04/2008
tert-Butyl alcohol (TBA)	EPA 8260	<13	ug/L	MQS	08/04/2008
Methyl-Tert-Butyl-Ether	EPA 8260	<0.50	ug/L	MQS	08/04/2008
trans-1,2-Dichloroethene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,1-Dichloroethane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Di-isopropyl ether (DIPE)	EPA 8260	<1.0	ug/L	MQS	08/04/2008
Ethyl tert-butyl ether ETBE	EPA 8260	<1.0	ug/L	MQS	08/04/2008
2-Butanone	EPA 8260	<13	ug/L	MQS	08/04/2008
2,2-Dichloropropane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
cis-1,2-Dichloroethene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Chloroform	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Bromochloromethane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Tetrahydrofuran	EPA 8260	<5.0	ug/L	MQS	08/04/2008
1,1,1-Trichloroethane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,1-Dichloropropene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Carbon Tetrachloride	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,2-Dichloroethane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Benzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
tert-Amyl methyl ether TAME	EPA 8260	<1.0	ug/L	MQS	08/04/2008
Trichloroethene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,4-Dioxane	EPA 8260	<50	ug/L	MQS	08/04/2008
1,2-Dichloropropane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Bromodichloromethane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Dibromomethane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
4-Methyl-2-Pentanone	EPA 8260	<13	ug/L	MQS	08/04/2008

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ANALYTICAL REPORT

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Michele Simoneaux

Project Name.: **Wyman-Gordon**
Project No.: **01.0013190.36**

Date Received: **07/28/2008**
Date Reported: **08/07/2008**
Work Order No.: **0807-00184**

Sample ID: **SW - 5**
Sample No.: **003**

Sample Date: **07/28/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
cis-1,3-Dichloropropene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Toluene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
trans-1,3-Dichloropropene	EPA 8260	<1.0	ug/L	MQS	08/04/2008
1,1,2-Trichloroethane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
2-Hexanone	EPA 8260	<13	ug/L	MQS	08/04/2008
1,3-Dichloropropane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Tetrachloroethene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Dibromochloromethane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,2-Dibromoethane (EDB)	EPA 8260	<1.0	ug/L	MQS	08/04/2008
Chlorobenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,1,1,2-Tetrachloroethane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Ethylbenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
m&p-Xylene	EPA 8260	<1.0	ug/L	MQS	08/04/2008
o-Xylene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Styrene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Bromoform	EPA 8260	<1.0	ug/L	MQS	08/04/2008
Isopropylbenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,1,2,2-Tetrachloroethane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,2,3-Trichloropropane	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Bromobenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
N-Propylbenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
2-Chlorotoluene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,3,5-Trimethylbenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
4-Chlorotoluene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
tert-Butylbenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,2,4-Trimethylbenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
sec-Butylbenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
p-Isopropyltoluene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,3-Dichlorobenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,4-Dichlorobenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
n-Butylbenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,2-Dichlorobenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
1,2-Dibromo-3-Chloropropane	EPA 8260	<2.5	ug/L	MQS	08/04/2008
1,2,4-Trichlorobenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Hexachlorobutadiene	EPA 8260	<0.50	ug/L	MQS	08/04/2008
Naphthalene	EPA 8260	<1.0	ug/L	MQS	08/04/2008
1,2,3-Trichlorobenzene	EPA 8260	<0.50	ug/L	MQS	08/04/2008

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Michele Simoneaux

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Project No.: **01.0013190.36**

Date Received: **07/28/2008**
Date Reported: **08/07/2008**
Work Order No.: **0807-00184**

Sample ID: **SW - 5** Sample No.: **003**

Sample Date: **07/28/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Surrogates:	EPA 8260				
***1,2-Dichloroethane-D4	EPA 8260	92.2	% R	MQS	08/04/2008
***Toluene-D8	EPA 8260	97.0	% R	MQS	08/04/2008
***4-Bromofluorobenzene	EPA 8260	90.4	% R	MQS	08/04/2008
Preparation	EPA 5030B	0.5	CF	MQS	08/04/2008
SEMI-VOLATILE ORGANICS	EPA 8270			CMG	08/04/2008
ACID FRACTION:	EPA 8270				
Phenol	EPA 8270	<10	ug/L	CMG	08/04/2008
2-Chlorophenol	EPA 8270	<10	ug/L	CMG	08/04/2008
2-Methylphenol	EPA 8270	<10	ug/L	CMG	08/04/2008
3&4-Methylphenol	EPA 8270	<10	ug/L	CMG	08/04/2008
2-Nitrophenol	EPA 8270	<10	ug/L	CMG	08/04/2008
2,4-Dimethylphenol	EPA 8270	<10	ug/L	CMG	08/04/2008
Benzoic Acid	EPA 8270	<10	ug/L	CMG	08/04/2008
2,4-Dichlorophenol	EPA 8270	<10	ug/L	CMG	08/04/2008
4-Chloro-3-Methylphenol	EPA 8270	<20	ug/L	CMG	08/04/2008
2,4,6-Trichlorophenol	EPA 8270	<10	ug/L	CMG	08/04/2008
2,4,5-Trichlorophenol	EPA 8270	<10	ug/L	CMG	08/04/2008
2,4-Dinitrophenol	EPA 8270	<100	ug/L	CMG	08/04/2008
4-Nitrophenol	EPA 8270	<50	ug/L	CMG	08/04/2008
4,6-Dinitro-2-Methylphenol	EPA 8270	<50	ug/L	CMG	08/04/2008
Pentachlorophenol	EPA 8270	<50	ug/L	CMG	08/04/2008
BASE-NEUTRAL FRACTION:					
n-Nitrosodimethylamine	EPA 8270	<10	ug/L	CMG	08/04/2008
bis(2-Chloroethyl)Ether	EPA 8270	<10	ug/L	CMG	08/04/2008
1,3-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	08/04/2008
1,4-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	08/04/2008
Benzyl Alcohol	EPA 8270	<20	ug/L	CMG	08/04/2008
1,2-Dichlorobenzene	EPA 8270	<10	ug/L	CMG	08/04/2008
bis(2-Chloroisopropyl)Ether	EPA 8270	<10	ug/L	CMG	08/04/2008
n-Nitrosodi-n-Propylamine	EPA 8270	<10	ug/L	CMG	08/04/2008
Hexachloroethane	EPA 8270	<10	ug/L	CMG	08/04/2008
Nitrobenzene	EPA 8270	<10	ug/L	CMG	08/04/2008
Isophorone	EPA 8270	<10	ug/L	CMG	08/04/2008
bis(2-Chloroethoxy)Methane	EPA 8270	<10	ug/L	CMG	08/04/2008
1,2,4-Trichlorobenzene	EPA 8270	<10	ug/L	CMG	08/04/2008
Naphthalene	EPA 8270	<2.0	ug/L	CMG	08/04/2008

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Sample ID: **SW - 5**
Sample No.: **003**
Sample Date: **07/28/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
4-Chloroaniline	EPA 8270	<20	ug/L	CMG	08/04/2008
Hexachlorobutadiene	EPA 8270	<10	ug/L	CMG	08/04/2008
2-Methylnaphthalene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
Hexachlorocyclopentadiene	EPA 8270	<50	ug/L	CMG	08/04/2008
2-Chloronaphthalene	EPA 8270	<10	ug/L	CMG	08/04/2008
2-Nitroaniline	EPA 8270	<50	ug/L	CMG	08/04/2008
Dimethylphthalate	EPA 8270	<10	ug/L	CMG	08/04/2008
Acenaphthylene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
2,6-Dinitrotoluene	EPA 8270	<10	ug/L	CMG	08/04/2008
3-Nitroaniline	EPA 8270	<50	ug/L	CMG	08/04/2008
Acenaphthene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
Dibenzofuran	EPA 8270	<10	ug/L	CMG	08/04/2008
2,4-Dinitrotoluene	EPA 8270	<10	ug/L	CMG	08/04/2008
Diethylphthalate	EPA 8270	<10	ug/L	CMG	08/04/2008
Fluorene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
4-Chlorophenyl Phenyl Ether	EPA 8270	<10	ug/L	CMG	08/04/2008
4-Nitroaniline	EPA 8270	<20	ug/L	CMG	08/04/2008
n-Nitrosodiphenylamine	EPA 8270	<10	ug/L	CMG	08/04/2008
4-Bromophenyl Phenyl Ether	EPA 8270	<10	ug/L	CMG	08/04/2008
Hexachlorobenzene	EPA 8270	<10	ug/L	CMG	08/04/2008
Phenanthrene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
Anthracene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
Carbazole	EPA 8270	<10	ug/L	CMG	08/04/2008
di-n-Butylphthalate	EPA 8270	<15	ug/L	CMG	08/04/2008
Fluoranthene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
Pyrene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
Butylbenzylphthalate	EPA 8270	<10	ug/L	CMG	08/04/2008
Benzo [a] Anthracene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
3,3'-Dichlorobenzidine	EPA 8270	<20	ug/L	CMG	08/04/2008
Chrysene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
bis(2-Ethylhexyl)Phthalate	EPA 8270	<10	ug/L	CMG	08/04/2008
di-n-Octylphthalate	EPA 8270	<10	ug/L	CMG	08/04/2008
Benzo [b] Fluoranthene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
Benzo [k] Fluoranthene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
Benzo [a] Pyrene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
Indeno [1,2,3-cd] Pyrene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
Dibenzo [a,h] Anthracene	EPA 8270	<2.0	ug/L	CMG	08/04/2008

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Sample Date: **07/28/2008**

Test Performed	Method	Results	Units	Tech	Analysis Date
Benzo [g,h,i] Perylene	EPA 8270	<2.0	ug/L	CMG	08/04/2008
Surrogates:	EPA 8270				
***2-Fluorophenol	EPA 8270	21.7	% R	CMG	08/04/2008
***Phenol-D6	EPA 8270	43.3	% R	CMG	08/04/2008
***Nitrobenzene-D5	EPA 8270	36.5	% R	CMG	08/04/2008
***2-Fluorobiphenyl	EPA 8270	36.0	% R	CMG	08/04/2008
***2,4,6-Tribromophenol	EPA 8270	40.1	% R	CMG	08/04/2008
***P-Terphenyl-D14	EPA 8270	41.4	% R	CMG	08/04/2008
Extraction	EPA 3510C	1.0	DF	DAB	07/30/2008
METALS					
Antimony	EPA 6010B	<0.0050	mg/L	LLZ	07/30/2008
Arsenic	EPA 6010B	0.0045	mg/L	LLZ	07/30/2008
Cadmium	EPA 6010B	<0.0010	mg/L	LLZ	07/30/2008
Chromium	EPA 6010B	0.010	mg/L	LLZ	07/30/2008
Copper	EPA 6010B	0.037	mg/L	LLZ	07/30/2008
Lead	EPA 6010B	0.0067	mg/L	LLZ	07/30/2008
Mercury	EPA 7470A	<0.00040	mg/L	TN	07/30/2008
Nickel	EPA 6010B	0.0075	mg/L	LLZ	07/30/2008
Selenium	EPA 6010B	<0.0050	mg/L	LLZ	07/30/2008
Silver	EPA 6010B	<0.0010	mg/L	LLZ	07/30/2008
Zinc	EPA 6010B	0.067	mg/L	LLZ	07/30/2008
Iron	EPA 6010B	2.0	mg/L	LLZ	07/30/2008
Hexavalent Chromium	SM 3500CrD	<0.01	mg/L	LLZ	07/28/2008
SUBCONTRACTED ANALYTES					
Total Suspended Solids	EPA 160.2	150	mg/L	XXX	07/30/2008
Residual Chlorine	EPA 330.1	0.2	mg/L	XXX	07/29/2008
PESTICIDES AND PCBs	EPA 608				
Total Cyanide	EPA 335.2	<0.01	mg/L	XXX	07/31/2008
TPH via Method 1664	EPA 1664	6.7	mg/L	XXX	07/31/2008

GZA GEOENVIRONMENTAL, INC.
ENVIRONMENTAL CHEMISTRY LABORATORY
106 SOUTH ST, HOPKINTON, MA 01748
MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 6010B ANALYSIS
Metals by ICP

QUALITY CONTROL - AQUEOUS

DATE PREPARED: 7/30/2008

QC Sample	Method Blank	Lab Control Sample	LC Duplicate	LCS/LCD Diff.
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Silver (Ag)	<0.0050	91.0	85.0	6.86
Aluminum (Al)	NA	NA	NA	NA
Arsenic (As)	<0.010	99.2	93.6	5.74
Boron (B)	NA	NA	NA	NA
Barium (Ba)	NA	NA	NA	NA
Beryllium (Be)	NA	NA	NA	NA
Calcium (Ca)	NA	NA	NA	NA
Cadmium (Cd)	<0.0050	96.5	90.4	6.48
Cobalt (Co)	NA	NA	NA	NA
Chromium (Cr)	<0.0050	97.4	91.3	6.40
Copper (Cu)	<0.015	114	115	1.40
Iron (Fe)	<0.025	104	97.2	6.44
Magnesium (Mg)	NA	NA	NA	NA
Manganese (Mn)	NA	NA	NA	NA
Molybdenum (Mo)	NA	NA	NA	NA
Nickel (Ni)	<0.010	99.0	92.8	6.41
Lead (Pb)	<0.010	96.4	90.9	5.89
Antimony (Sb)	<0.025	99.9	94.3	5.72
Selenium (Se)	<0.025	102	96.4	5.36
Strontium (Sr)	NA	NA	NA	NA
Titanium (Ti)	NA	NA	NA	NA
Thallium (Tl)	NA	NA	NA	NA
Vanadium (V)	NA	NA	NA	NA
Zinc (Zn)	<0.010	111	101	10.1
Zirconium (Zr)	NA	NA	NA	NA

Matrix Spike / Duplicate Spike performed as per method and reported if assigned on Chain of Custody.

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MASSACHUSETTS LABORATORY I.D. NO. MA092

EPA METHOD 7470A ANALYSIS
Mercury by Cold Vapor Atomic Absorption

QUALITY CONTROL - AQUEOUS

Date Prepared: 07/29/08

QC Sample	Method Blank	Lab Control Sample	Lab Control Sample Duplicate	LC/LCD Difference
Units	mg/L	% Recovery	% Recovery	RPD
Acceptance Limits	Results	80-120	80-120	20%
Analyte				
Mercury (Hg)	<0.00040	95.6	93.8	1.94

RPD = Relative Percent Difference

GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
MA092

EPA Method 8270/625 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Method Blank

Date Extracted:	07/31/08
Date Analyzed:	08/04/08
File Name:	L8322

Semi-Volatile Organics	Result	Reporting Limit (ug/L)
n-nitrosodimethylamine	ND	10
pyridine	ND	100
phenol	ND	10
bis(2-chloroethyl)ether	ND	10
2-chlorophenol	ND	10
1,3-dichlorobenzene	ND	10
1,4-dichlorobenzene	ND	10
benzyl alchohol	ND	20
1,2-dichlorobenzene	ND	10
2-methylphenol	ND	10
bis(2-chloroisopropyl)ether	ND	10
3&4-methylphenol	ND	10
n-nitrosodi-n-propylamine	ND	10
acetophenone	ND	10
hexachloroethane	ND	10
nitrobenzene	ND	10
isophrone	ND	10
2-nitrophenol	ND	10
2,4-dimethylphenol	ND	10
benzoic acid	ND	10
bis(2-chloroethoxy)methane	ND	10
2,4-dichlorophenol	ND	10
1,2,4-trichlorobenzene	ND	10
naphthalene	ND	2.0
4-chloroaniline	ND	10
hexachlorobutadiene	ND	10
4-chloro-3-methylphenol	ND	20
2-methylnaphthalene	ND	2.0
aniline	ND	10
hexachlorocyclopentadiene	ND	50
2,4,6-trichlorophenol	ND	10
2,4,5-trichlorophenol	ND	10
2-chloronaphthalene	ND	10
2-nitroaniline	ND	50
dimethylphthalate	ND	10
acenaphthylene	ND	2.0
2,6-dinitrotoluene	ND	10
3-nitroaniline	ND	50
acenaphthene	ND	2.0
2,4-dinitrophenol	ND	100
dibenzofuran	ND	10
4-nitrophenol	ND	50
2,4-dinitrotoluene	ND	10
diethylphthalate	ND	10
fluorene	ND	2.0
4-chlorophenyl phenyl ether	ND	10
4-nitroaniline	ND	20
4,6-dinitro-2-methylphenol	ND	50
n-nitrosodiphenylamine	ND	10
azobenzene	ND	10
4-bromophenyl phenyl ether	ND	10
hexachlorobenzene	ND	10
pentachlorophenol	ND	50
phenanthrene	ND	2.0
anthracene	ND	2.0
carbazole	ND	10
di-n-butylphthalate	ND	15
fluoranthene	ND	2.0
pyrene	ND	2.0
butylbenzylphthalate	ND	10
benz [a] anthracene	ND	2.0
3,3'-dichlorobenzidine	ND	20
chrysene	ND	2.0
bis(2-ethylhexyl)phthalate	ND	10
di-n-octylphthalate	ND	10
benzo [b] fluoranthene	ND	2.0
benzo [k] fluoranthene	ND	2.0
benzo [a] pyrene	ND	2.0
indeno [1,2,3-cd] pyrene	ND	2.0
dibenz [a,h] anthracene	ND	2.0
benzo [ghi] perylene	ND	2.0

Surrogates:	Recovery (%)	Acceptance Limits
2-FLUOROPHENOL	23.3	15-110
2-CHLOROPHENOL-D4	15.1	15-110
NITROBENZENE-D5	53.9	30-130
2-FLUOROBIPHENYL	54.9	30-130
2,4,6-TRIBROMOPHENOL	61.4	15-100
p-TERPHENYL-D14	60.5	30-130

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GZA GeoEnvironmental, Inc.
106 South Street
Hopkinton, MA 01748
MA092

EPA Method 8270/625 Aqueous Method Blank (MB) and Laboratory Control Sample (LCS) Data

Laboratory Control Sample				Laboratory Control Sample Duplicate					
Date Extracted:	07/31/08			Date Extracted:	07/31/08				
Date Analyzed:	08/04/08			Date Analyzed:	08/04/08				
File Name:	L8323			File Name:	L8324				
Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	Relative % Diff	Limits	Verdict
n-nitrosodimethylamine	23.5	40-140	out	26.9	40-140	out	13	<20	ok
pyridine	15.7	40-140	out	7.49	40-140	out	71	<20	out
phenol	14.0	30-130	out	14.9	30-130	out	6.7	<20	ok
bis(2-chloroethyl)ether	49.8	40-140	ok	50.1	40-140	ok	0.56	<20	ok
2-chlorophenol	46.1	30-130	ok	49.8	30-130	ok	7.4	<20	ok
1,3-dichlorobenzene	41.4	40-140	ok	37.9	40-140	out	8.6	<20	ok
1,4-dichlorobenzene	41.5	40-140	ok	40.8	40-140	ok	1.5	<20	ok
benzyl alchohol	34.8	40-140	out	38.8	40-140	out	11	<20	ok
1,2-dichlorobenzene	45.1	40-140	ok	42.3	40-140	ok	6.4	<20	ok
2-methylphenol	38.0	30-130	ok	40.2	30-130	ok	5.8	<20	ok
bis(2-chloroisopropyl)ether	51.4	40-140	ok	49.4	40-140	ok	4.0	<20	ok
3&4-methylphenol	63.1	30-140	ok	70.6	30-130	ok	11	<20	ok
n-nitrosodi-n-propylamine	53.5	40-140	ok	52.7	40-140	ok	1.4	<20	ok
acetophenone	55.2	40-140	ok	56.8	40-140	ok	3.0	<20	ok
hexachloroethane	40.2	40-140	ok	36.5	40-140	out	9.7	<20	ok
nitrobenzene	53.1	40-140	ok	51.1	40-140	ok	3.8	<20	ok
isophrone	57.6	30-130	ok	57.1	30-130	ok	1.0	<20	ok
2-nitrophenol	56.4	30-130	ok	55.2	30-130	ok	2.2	<20	ok
2,4-dimethylphenol	49.1	30-130	ok	50.8	30-130	ok	2.9	<20	ok
benzoic acid	18.9	40-140	out	21.0	40-140	out	11	<20	ok
bis(2-chloroethoxy)methane	54.8	30-130	ok	56.3	30-130	ok	2.6	<20	ok
2,4-dichlorophenol	0.46	40-140	out	0.12	40-140	out	117	<20	out
1,2,4-trichlorobenzene	45.8	40-140	ok	43.4	40-140	ok	5.4	<20	ok
naphthalene	51.3	40-140	ok	49.5	40-140	ok	3.6	<20	ok
4-chloroaniline	52.1	40-140	ok	42.1	40-140	ok	21	<20	out
hexachlorobutadiene	42.3	30-130	ok	40.7	30-130	ok	4.0	<20	ok
4-chloro-3-methylphenol	50.6	40-140	ok	57.4	40-140	ok	13	<20	ok
2-methylnaphthalene	50.9	40-140	ok	49.7	40-140	ok	2.5	<20	ok
aniline	29.7	40-140	out	13.5	40-140	out	75	<20	out
hexachlorocyclopentadiene	26.4	30-130	out	24.8	30-130	out	6.3	<20	ok
2,4,6-trichlorophenol	56.6	30-130	ok	55.0	30-130	ok	2.8	<20	ok
2,4,5-trichlorophenol	55.7	40-140	ok	60.2	40-140	ok	7.9	<20	ok
2-chloronaphthalene	52.7	40-140	ok	52.4	40-140	ok	0.65	<20	ok
2-nitroaniline	51.7	40-140	ok	54.6	40-140	ok	5.4	<20	ok
dimethylphthalate	56.7	40-140	ok	56.7	40-140	ok	0.00	<20	ok
acenaphthylene	56.0	40-140	ok	55.1	40-140	ok	1.5	<20	ok
2,6-dinitrotoluene	51.0	40-140	ok	51.1	40-140	ok	0.27	<20	ok
3-nitroaniline	53.4	40-140	ok	50.4	40-140	ok	5.6	<20	ok
acenaphthene	54.4	30-130	ok	54.2	30-130	ok	0.48	<20	ok
2,4-dinitrophenol	43.4	40-140	ok	43.4	40-140	ok	0.18	<20	ok
dibenzofuran	57.0	30-130	ok	56.5	30-130	ok	0.85	<20	ok
4-nitrophenol	11.6	40-140	out	14.6	40-140	out	23	<20	out
2,4-dinitrotoluene	52.4	40-140	ok	51.9	40-140	ok	0.84	<20	ok
diethylphthalate	59.7	40-140	ok	58.7	40-140	ok	1.7	<20	ok
fluorene	58.6	40-140	ok	57.8	40-140	ok	1.2	<20	ok
4-chlorophenyl phenyl ether	55.3	40-140	ok	54.2	40-140	ok	2.0	<20	ok
4-nitroaniline	55.9	30-130	ok	57.7	30-130	ok	3.1	<20	ok
4,6-dinitro-2-methylphenol	47.7	40-140	ok	46.2	40-140	ok	3.2	<20	ok
n-nitrosodiphenylamine	48.5	40-140	ok	44.0	40-140	ok	9.6	<20	ok
azobenzene	52.7	40-140	ok	52.4	40-140	ok	0.49	<20	ok
4-bromophenyl phenyl ether	56.1	40-140	ok	54.3	40-140	ok	3.2	<20	ok
hexachlorobenzene	54.9	40-140	ok	54.3	40-140	ok	1.1	<20	ok
pentachlorophenol	60.3	40-140	ok	48.4	40-140	ok	3.7	<20	ok
phenanthrene	57.6	40-140	ok	57.1	40-140	ok	0.91	<20	ok
anthracene	60.9	40-140	ok	59.3	40-140	ok	2.6	<20	ok
carbazole	58.3	40-140	ok	57.0	40-140	ok	2.1	<20	ok
di-n-butylphthalate	63.1	40-140	ok	63.0	40-140	ok	0.14	<20	ok
fluoranthene	62.0	40-140	ok	60.9	40-140	ok	1.9	<20	ok
pyrene	58.8	40-140	ok	58.2	40-140	ok	0.92	<20	ok
butylbenzylphthalate	61.3	40-140	ok	61.2	40-140	ok	0.21	<20	ok
benz [a] anthracene	58.4	40-140	ok	57.9	40-140	ok	0.77	<20	ok
3,3'-dichlorobenzidine	56.1	40-140	ok	51.4	40-140	ok	8.8	<20	ok
chrysene	50.7	40-140	ok	49.2	40-140	ok	3.0	<20	ok
bis(2-ethylhexyl)phthalate	57.8	40-140	ok	57.4	40-140	ok	0.61	<20	ok
di-n-octylphthalate	53.2	40-140	ok	54.2	40-140	ok	1.8	<20	ok
benzo [b] fluoranthene	48.6	40-140	ok	49.3	40-140	ok	1.3	<20	ok
benzo [k] fluoranthene	50.4	40-140	ok	47.0	40-140	ok	6.9	<20	ok
benzo [a] pyrene	45.3	40-140	ok	44.3	40-140	ok	2.3	<20	ok
indeno [1,2,3-cd] pyrene	62.3	40-140	ok	59.8	40-140	ok	4.2	<20	ok
dibenz [a,h] anthracene	60.3	40-140	ok	57.7	40-141	ok	4.4	<20	ok
benzo [ghi] perylene	60.2	40-140	ok	57.6	40-142	ok	4.4	<20	ok

CAM criteria allows 15% of analytes to exceed criteria.

Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	Relative % Diff.	Limits	Verdict
2-FLUOROPHENOL	21.6	15-110	ok	25.8	10-100	ok	18	<20	ok
2-CHLOROPHENOL-D4	48.1	15-110	ok	54.9	15-110	ok	13	<20	ok
NITROBENZENE-D5	52.1	30-130	ok	52.6	10-130	ok	0.98	<20	ok
2-FLUOROBIPHENYL	52.6	30-130	ok	55.2	10-105	ok	4.4	<20	ok
2,4,6-TRIBROMOPHENOL	61.5	15-110	ok	63.22	14-134	ok	2.7	<20	ok
p-TERPHENYL-D14	59.1	30-130	ok	64.37	11-102	ok	8.5	<20	ok

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GZA GeoEnvironmental, Inc.
108 South Street
Hopkinton, MA 01748

EPA Method 8260 / 524.2 Aqueous Method Blank (MB) and Laboratory Control Sample/Duplicate (LCS/LCSD) Data

Method Blank			Laboratory Control Sample				Laboratory Control Sample Duplicate					
Date Analyzed:	8/4/2008		Date Analyzed:	8/4/2008			8/4/2008					
Volatile Organics	Conc. ug/L	Acceptance Limit	Spike Concentration = 20ug/L	% Recovery	Acceptance Limits	Verdict	% Recovery	Acceptance Limits	Verdict	RPD	Limit	Verdict
dichlorodifluoromethane	< 1.0	< 1.0	dichlorodifluoromethane	80.5	70-130	ok	80.0	70-130	ok	0.60	<25	ok
chloromethane	< 1.0	< 1.0	chloromethane	100	70-130	ok	98.6	70-130	ok	3.91	<25	ok
vinyl chloride	< 0.5	< 0.5	vinyl chloride	109	80-120	ok	107	80-120	ok	1.20	<25	ok
bromomethane	< 1.0	< 1.0	bromomethane	88.6	70-130	ok	87.4	70-130	ok	1.28	<25	ok
chloroethane	< 0.5	< 0.5	chloroethane	107	70-130	ok	105	70-130	ok	1.91	<25	ok
trichlorofluoromethane	< 1.0	< 1.0	trichlorofluoromethane	105	70-130	ok	104	70-130	ok	1.19	<25	ok
diethyl ether	< 2.5	< 2.5	diethyl ether	104	70-130	ok	106	70-130	ok	1.68	<25	ok
acetone	< 13	< 13	acetone	113	70-130	ok	108	70-130	ok	3.95	<25	ok
1,1-dichloroethene	< 0.5	< 0.5	1,1-dichloroethene	107	80-120	ok	105	80-120	ok	1.52	<25	ok
FREON-113	< 1.0	< 1.0	FREON-113	93.0	70-130	ok	91.7	70-130	ok	1.31	<25	ok
iodomethane	< 0.5	< 0.5	iodomethane	99.5	70-130	ok	101	70-130	ok	1.32	<25	ok
carbon disulfide	< 5.0	< 5.0	carbon disulfide	97.3	70-130	ok	96.3	70-130	ok	1.02	<25	ok
dichloromethane	< 1.0	< 1.0	dichloromethane	97.3	70-130	ok	97.1	70-130	ok	0.17	<25	ok
tert-butyl alcohol (TBA)	< 13	< 13	tert-butyl alcohol (TBA)	117	70-130	ok	128	70-130	ok	9.36	<25	ok
acrylonitrile	< 0.5	< 0.5	acrylonitrile	0.12	70-130	out	0.06	70-130	out	0.00	<25	ok
methyl-tert-butyl-ether	< 0.5	< 0.5	methyl-tert-butyl-ether	97.2	70-130	ok	98.4	70-130	ok	1.27	<25	ok
trans-1,2-dichloroethene	< 0.5	< 0.5	trans-1,2-dichloroethene	105	70-130	ok	103	70-130	ok	1.41	<25	ok
1,1-dichloroethane	< 0.5	< 0.5	1,1-dichloroethane	116	70-130	ok	113	70-130	ok	2.21	<25	ok
di-isopropyl ether (DIPE)	< 1.0	< 1.0	di-isopropyl ether (DIPE)	108	70-130	ok	105	70-130	ok	2.54	<25	ok
ethyl tert-butyl ether (EtBE)	< 1.0	< 1.0	ethyl tert-butyl ether (EtBE)	108	70-130	ok	106	70-130	ok	1.53	<25	ok
vinyl acetate	< 13	< 13	vinyl acetate	113	70-130	ok	110	70-130	ok	2.46	<25	ok
2-butanone	< 13	< 13	2-butanone	107	70-130	ok	109	70-130	ok	1.86	<25	ok
2,2-dichloropropane	< 0.5	< 0.5	2,2-dichloropropane	121	70-130	ok	117	70-130	ok	3.37	<25	ok
cis-1,2-dichloroethene	< 0.5	< 0.5	cis-1,2-dichloroethene	108	70-130	ok	109	70-130	ok	0.76	<25	ok
chloroform	< 0.5	< 0.5	chloroform	103	80-120	ok	102	80-120	ok	0.11	<25	ok
bromochloromethane	< 0.5	< 0.5	bromochloromethane	101	70-130	ok	104	70-130	ok	3.36	<25	ok
tetrahydrafuran	7.0	< 5.0	tetrahydrafuran	96.3	70-130	ok	95.7	70-130	ok	0.63	<25	ok
1,1,1-trichloroethane	< 0.5	< 0.5	1,1,1-trichloroethane	113	70-130	ok	113	70-130	ok	0.16	<25	ok
1,1-dichloropropene	< 0.5	< 0.5	1,1-dichloropropene	111	70-130	ok	110	70-130	ok	0.68	<25	ok
carbon tetrachloride	< 0.5	< 0.5	carbon tetrachloride	113	70-130	ok	114	70-130	ok	0.16	<25	ok
1,2-dichloroethane	< 0.5	< 0.5	1,2-dichloroethane	122	70-130	ok	118	70-130	ok	3.25	<25	ok
benzene	< 0.5	< 0.5	benzene	106	70-130	ok	106	70-130	ok	0.54	<25	ok
tert-amyl methyl ether (TAME)	< 1.0	< 1.0	tert-amyl methyl ether (TAME)	105	70-130	ok	105	70-130	ok	0.15	<25	ok
trichloroethene	< 0.5	< 0.5	trichloroethene	104	70-130	ok	106	70-130	ok	1.74	<25	ok
1,2-dichloropropane	< 0.5	< 0.5	1,2-dichloropropane	114	80-120	ok	112	80-120	ok	1.04	<25	ok
bromodichloromethane	< 0.5	< 0.5	bromodichloromethane	108	70-130	ok	109	70-130	ok	0.23	<25	ok
1,4-Dioxane	< 50	< 50	1,4-Dioxane	94.5	70-130	ok	95.3	70-130	ok	0.85	<25	ok
dibromomethane	< 0.5	< 0.5	dibromomethane	95.4	70-130	ok	99.4	70-130	ok	4.08	<25	ok
4-methyl-2-pentanone	< 13	< 13	4-methyl-2-pentanone	108	70-130	ok	107	70-130	ok	1.20	<25	ok
cis-1,3-dichloropropene	< 0.5	< 0.5	cis-1,3-dichloropropene	107	70-130	ok	107	70-130	ok	0.47	<25	ok
toluene	< 0.5	< 0.5	toluene	106	80-120	ok	105	80-120	ok	0.48	<25	ok
trans-1,3-dichloropropene	< 1.0	< 1.0	trans-1,3-dichloropropene	101	70-130	ok	101	70-130	ok	0.08	<25	ok
1,1,2-trichloroethane	< 0.5	< 0.5	1,1,2-trichloroethane	104	70-130	ok	106	70-130	ok	2.59	<25	ok
2-hexanone	< 13	< 13	2-hexanone	105	70-130	ok	105	70-130	ok	0.28	<25	ok
1,3-dichloropropane	< 0.5	< 0.5	1,3-dichloropropane	104	70-130	ok	107	70-130	ok	2.13	<25	ok
tetrachloroethene	< 0.5	< 0.5	tetrachloroethene	92.4	70-130	ok	97.9	70-130	ok	5.76	<25	ok
dibromochloromethane	< 0.5	< 0.5	dibromochloromethane	97.9	70-130	ok	101	70-130	ok	3.38	<25	ok
1,2-dibromoethane (EDB)	< 1.0	< 1.0	1,2-dibromoethane (EDB)	104	70-130	ok	106	70-130	ok	2.00	<25	ok
chlorobenzene	< 0.5	< 0.5	chlorobenzene	104	70-130	ok	105	70-130	ok	1.40	<25	ok
1,1,1,2-tetrachloroethane	< 0.5	< 0.5	1,1,1,2-tetrachloroethane	101	70-130	ok	104	70-130	ok	3.06	<25	ok
ethylbenzene	< 0.5	< 0.5	ethylbenzene	105	80-120	ok	107	80-120	ok	1.72	<25	ok
1,1,2,2-tetrachloroethane	< 0.5	< 0.5	1,1,2,2-tetrachloroethane	99.9	70-130	ok	101	70-130	ok	0.85	<25	ok
m&p-xylene	< 1.0	< 1.0	m&p-xylene	104	70-130	ok	104	70-130	ok	0.13	<25	ok
o-xylene	< 0.5	< 0.5	o-xylene	109	70-130	ok	109	70-130	ok	0.09	<25	ok
styrene	< 0.5	< 0.5	styrene	108	70-130	ok	108	70-130	ok	0.44	<25	ok
bromoform	< 1.0	< 1.0	bromoform	99.0	70-130	ok	103	70-130	ok	3.88	<25	ok
isopropylbenzene	< 0.5	< 0.5	isopropylbenzene	97.7	70-130	ok	97.3	70-130	ok	0.45	<25	ok
1,2,3-trichloropropane	< 0.5	< 0.5	1,2,3-trichloropropane	115	70-130	ok	115	70-130	ok	0.20	<25	ok
bromobenzene	< 0.5	< 0.5	bromobenzene	100	70-130	ok	101	70-130	ok	0.85	<25	ok
n-propylbenzene	< 0.5	< 0.5	n-propylbenzene	109	70-130	ok	106	70-130	ok	2.09	<25	ok
2-chlorotoluene	< 0.5	< 0.5	2-chlorotoluene	110	70-130	ok	105	70-130	ok	4.77	<25	ok
1,3,5-trimethylbenzene	< 0.5	< 0.5	1,3,5-trimethylbenzene	113	70-130	ok	113	70-130	ok	0.13	<25	ok
trans-1,4-dichloro-2-butene	< 1.0	< 1.0	trans-1,4-dichloro-2-butene	126	70-130	ok	128	70-130	ok	2.02	<25	ok
4-chlorotoluene	< 0.5	< 0.5	4-chlorotoluene	109	70-130	ok	108	70-130	ok	0.99	<25	ok
tert-butyl-benzene	< 0.5	< 0.5	tert-butyl-benzene	97.9	70-130	ok	97.2	70-130	ok	0.73	<25	ok
1,2,4-trimethylbenzene	< 0.5	< 0.5	1,2,4-trimethylbenzene	114	70-130	ok	113	70-130	ok	0.91	<25	ok
sec-butyl-benzene	< 0.5	< 0.5	sec-butyl-benzene	115	70-130	ok	113	70-130	ok	1.56	<25	ok
p-isopropyltoluene	< 0.5	< 0.5	p-isopropyltoluene	116	70-130	ok	115	70-130	ok	1.01	<25	ok
1,3-dichlorobenzene	< 0.5	< 0.5	1,3-dichlorobenzene	103	70-130	ok	101	70-130	ok	1.88	<25	ok
1,4-dichlorobenzene	< 0.5	< 0.5	1,4-dichlorobenzene	101	70-130	ok	101	70-130	ok	0.21	<25	ok
n-butylbenzene	< 0.5	< 0.5	n-butylbenzene	114	70-130	ok	113	70-130	ok	1.04	<25	ok
1,2-dichlorobenzene	< 0.5	< 0.5	1,2-dichlorobenzene	96.6	70-130	ok	101	70-130	ok	4.60	<25	ok
1,2-dibromo-3-chloropropane	< 2.5	< 2.5	1,2-dibromo-3-chloropropane	113	70-130	ok	112	70-130	ok	0.14	<25	ok
1,2,4-trichlorobenzene	< 0.5	< 0.5	1,2,4-trichlorobenzene	100	70-130	ok	102	70-130	ok	1.26	<25	ok
hexachlorobutadiene	< 0.5	< 0.5	hexachlorobutadiene	103	70-130	ok	105	70-130	ok	1.28	<25	ok
naphthalene	< 1.0	< 1.0	naphthalene	86.7	70-130	ok	97.6	70-130	ok	11.8	<25	ok
1,2,3-trichlorobenzene	< 0.5	< 0.5	1,2,3-trichlorobenzene	98.6	70-130	ok	101	70-130	ok	2.36	<25	ok

SMF criteria allows 5 compounds to be outside acceptance limits

Surrogates:	Recovery (%)	Acceptance Limits	Surrogates:	Recovery (%)	Acceptance Limits	Verdict	Recovery (%)	Acceptance Limits	Verdict	RPD	Limit	Verdict
DIBROMOFLUOROMETHANE	96.0	70-130	DIBROMOFLUOROMETHANE	97.9	70-130	ok	98.0	70-130	ok	0.09	<25	ok
1,2-DICHLOROETHANE-D4	87.2	70-130	1,2-DICHLOROETHANE-D4	97.8	70-130	ok	97.6	70-130	ok	0.26	<25	ok
TOLUENE-D8	98.9	70-130	TOLUENE-D8	100	70-130	ok	101	70-130	ok	0.76	<25	ok
4-BROMOFLUOROBENZENE	88.0	70-130	4-BROMOFLUOROBENZENE	91.5	70-130	ok	89.4	70-130	ok	2.34	<25	ok
1,2-DICHLOROBENZENE-D4	89.5	70-130	1,2-DICHLOROBENZENE-D4	92.2	70-130	ok	91.5	70-130	ok	0.75	<25	ok

Instrument: HP GC/MS "A"

CHAIN-OF-CUSTODY RECORD

W.O. # 08

Sample I.D.	Date/Time Sampled	Matrix (A=Air, S=Soil, GW=Ground W., SW=Surface W., WW=Waste W., DW=Drinking W., P=Product, Other (specify))	ANALYSIS REQUIRED: pH, Cond.	GC Methane, Ethane, Ethene	EPA 8260	EPA 8260 – 8010 List (Chlor.)	EPA 8260 – 8021 list	EPA 8021 – 8020 List (BTEX)	EPA 524.2 DW VOCs	EPA 624 WW VOCs	601, 602 WW VOCs	EPA 8270 FULL SVOCs	EPA 8270 PAH, A, BN	EPA 625 WW SVOCs	EPA PCBs	EPA 8081–Pest	TPH–GC (Modified) 1664	TPH–GC w/FING.	EPA (MA DEP)	VPH (MA DEP)	Metals PPM–13 R–8	MCP 14 Metals (MA)	Metals (List Below)**	TCLP – Specify Below	SPLP – Specify Below	EPA 300 Cl, SO4	EPA 300 NO2, NO3
SW-3	1045am 7/28/08	SW			X							X			X		X						X			
SW-4	1215pm 7/28/08	SW			X							X			X		X						X			
SW-5	115pm 7/28/08	SW			X							X			X		X						X			
SW-2	210pm 7/28/08																X									

PRESERVATIVE (Cl - HCl, M=Methanol, N - HNO3, S - H2SO4, Na - NaOH, O - Other)*

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, T-Teflon, O-Other)*

RELINQUISHED BY: (AFFILIATION)	DATE/TIME	RECEIVED BY: (AFFILIATION)
Sowjanya Cl	7/28/08 245pm	
RELINQUISHED BY: (AFFILIATION)	DATE/TIME	RECEIVED BY: (AFFILIATION)
RELINQUISHED BY: (AFFILIATION)	DATE/TIME	RECEIVED BY: (AFFILIATION)

NOTES: (Unless otherwise noted, all samples have been refrigerated to 4° C)
*Specify "Other" preservatives and containers types in this space.
1. Refer Appendix VI form RGP.
2. TSS (EPA 160.2); Cyanide total (EPA 3
total residual (EPA 330.1).

PROJECT MANAGER Michele Simoneau EXT: 5802

TURNAROUND TIME: Standard Rush___ Days, Approved by _____ LAB USE: TEMP. OF COOLER___

GZA GeoEnvironmental, Inc.
Labaratory Division

106 South Street
Hopkinton, MA 01748
(781) 278-4700
FAX (508) 435-9912

01.00
GZA FILE NO: 13190.36 TASK NO: _____ P.O. NO.

PROJECT Hymon-Gordon

LOCATION North Grafton, MA

COLLECTOR(S) Bill Davis, Sowjanya Chintalapati SHEET___