MAG910363

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**: Assembly Square		**Facility/site** address:	
Location of **facility/site**: longitude: 71.078 latitude: 42.390	Facility SIC code(s): N/A	Street: 100 Sturtevant Street	
b) Name of **facility/site owner**: FR Sturtevant Street, LLC		Town: Somerville	
Email address of owner:		State: MA	Zip: 02145 / County: Middlesex
Telephone no.of facility/site **owner**: 301-998-8100			
Fax no. of facility/site **owner**: 301-998-3722		**Owner** is (check one): 1. Federal____ 2. State/Tribal_____ 3. Private ✓ 4. other, if so, describe:	
Address of **owner** (if different from site):			
Street: 1626 East Jefferson Street			
Town: Rockville	State: MD	Zip: 20852	County: Montgomery
c) Legal name of **operator**: FR Sturtevant Street, LLC	**Operator** telephone no:		
	Operator fax no.:		**Operator** email:
Operator contact name and title: Dawn Becker			
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:

Temporary construction dewatering in support of utility work and soil excavation & treatment

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 0.10 Average flow 0.02 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. 71.076 lat. 42.393 ; 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 08/01/08 end 02/28/09

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 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		✓	4	Grab	160.2	----	790,000			
2. Total Residual Chlorine	✓		4	Grab	4500	50	ND			
3. Total Petroleum Hydrocarbons	✓		4	Grab	1664	4000	ND			
4. Cyanide	✓		4	Grab	335.2	5	ND			
5. Benzene		✓	4	Grab	8260B	0.5	25			
6. Toluene	✓		4	Grab	8260B	0.75	ND			
7. Ethylbenzene	✓		4	Grab	8260B	0.5	ND			
8. (m,p,o) Xylenes	✓		4	Grab	8260B	1.0	ND			
9. Total BTEX[4]		✓	4	Grab	8260B	1.0	25			

[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	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide [5] (1,2- Dibromo-methane)	✓		4	Grab	8260B	2	ND			
11. Methyl-tert-Butyl Ether (MtBE)	✓		4	Grab	8260B	1	ND			
12. tert-Butyl Alcohol (TBA)	✓		0	----	----	----	ND			
13. tert-Amyl Methyl Ether (TAME)	✓		4	Grab	8260B	2	ND			
14. Naphthalene	✓		4	Grab	8260B	2.5	ND			
15. Carbon Tetra-chloride	✓		4	Grab	8260B	0.5	ND			
16. 1,4 Dichlorobenzene	✓		4	Grab	8260B	2.5	ND			
17. 1,2 Dichlorobenzene	✓		4	Grab	8260B	2.5	ND			
18. 1,3 Dichlorobenzene	✓		4	Grab	8260B	2.5	ND			
19. 1,1 Dichloroethane	✓		4	Grab	8260B	0.75	ND			
20. 1,2 Dichloroethane	✓		4	Grab	8260B	0.5	ND			
21. 1,1 Dichloroethylene	✓		4	Grab	8260B	0.5	ND			
22. cis-1,2 Dichloro-ethylene	✓		4	Grab	8260B	0.5	ND			
23. Dichloromethane (Methylene Chloride)	✓		4	Grab	8260B	5	ND			
24. Tetrachloroethylene	✓		4	Grab	8260B	0.5	ND			

[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	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓		4	Grab	8260B	0.5	ND			
26. 1,1,2 Trichloroethane	✓		4	Grab	8260B	0.75	ND			
27. Trichloroethylene	✓		4	Grab	8260B	0.5	ND			
28. Vinyl Chloride	✓		4	Grab	8260B	1.0	ND			
29. Acetone	✓		4	Grab	8260B	5	ND			
30. 1,4 Dioxane	✓		4	Grab	8260B	250	ND			
31. Total Phenols	✓		4	Grab	8270C	6.7	ND			
32. Pentachlorophenol	✓		4	Grab	8270C	9.5	ND			
33. Total Phthalates [6] (Phthalate esthers)	✓		4	Grab	8270C	4.8	ND			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✓		4	Grab	8270C	4.8	ND			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✓		4	Grab	8270C-SIM	0.19	ND			
a. Benzo(a) Anthracene	✓		4	Grab	8270C-SIM	0.19	ND			
b. Benzo(a) Pyrene	✓		4	Grab	8270C-SIM	0.19	ND			
c. Benzo(b)Fluoranthene	✓		4	Grab	8270C-SIM	0.19	ND			
d. Benzo(k) Fluoranthene	✓		4	Grab	8270C-SIM	0.19	ND			
e. Chrysene	✓		4	Grab	8270C-SIM	0.19	ND			

[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	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✓		4	Grab	8270C-SIM	0.19	ND			
g. Indeno(1,2,3-cd) Pyrene	✓		4	Grab	8270C-SIM	0.19	ND			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓	4	Grab	8270C-SIM	0.19	15.0			
h. Acenaphthene		✓	4	Grab	8270C-SIM	0.19	4.4			
i. Acenaphthylene	✓		4	Grab	8270C-SIM	0.19	ND			
j. Anthracene	✓		4	Grab	8270C-SIM	0.19	ND			
k. Benzo(ghi) Perylene	✓		4	Grab	8270C-SIM	0.19	ND			
l. Fluoranthene	✓		4	Grab	8270C-SIM	0.19	ND			
m. Fluorene		✓	4	Grab	8270C-SIM	0.19	5.8			
n. Naphthalene-		✓	4	Grab	8270C-SIM	0.19	2.5			
o. Phenanthrene		✓	4	Grab	8270C-SIM	0.19	2.3			
p. Pyrene	✓		4	Grab	8270C-SIM	0.19	ND			
37. Total Polychlorinated Biphenyls (PCBs)	✓		4	Grab	8082	0.25	ND			
38. Antimony	✓		4	Grab	MCP-6000/7000	50	ND			
39. Arsenic		✓	4	Grab	MCP-6000/7000	5	35			
40. Cadmium	✓		4	Grab	MCP-6000/7000	4	ND			
41. Chromium III		✓	4	Grab	3500	10	20			
42. Chromium VI	✓		4	Grab	7196A	10	ND			

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
43. Copper		✓	4	Grab	MCP-6000/7000	10	42			
44. Lead		✓	4	Grab	MCP-6000/7000	10	36			
45. Mercury	✓		4	Grab	MCP-6000/7000	0.2	ND			
46. Nickel		✓	4	Grab	MCP-6000/7000	25	28			
47. Selenium	✓		4	Grab	MCP-6000/7000	10	ND			
48. Silver	✓		4	Grab	MCP-6000/7000	7	ND			
49. Zinc		✓	4	Grab	MCP-6000/7000	50	208			
50. Iron		✓	4	Grab	MCP-6000/7000	50	24000			
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? iron, copper, lead, zinc
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: iron, copper, lead, zinc DF: 167	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: Iron

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: see figure attached						
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 8 Maximum flow rate of treatment system 45 Design flow rate of treatment system _____						
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: Dewatering effluent is scheduled to discharge any existing storm drains onsite. All storm drains lead to the Somerville Marginal Conduit, with discharge to the Mystic River below the Amelia Earhart Dam.						
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. There are no drinking water supply or wetland areas near the discharge.						
d) Provide the state water quality classification of the receiving water B,						
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 18.43 cfs Please attach any calculation sheets used to support stream flow and dilution calculations.						
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ✓ No____ If yes, for which pollutant(s)? Is there a TMDL? Yes____ No ✓ If yes, for which pollutant(s)?						

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

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

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes_____ No_✓_____ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes_____ No_✓_____

7. Supplemental information. :

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

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

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

Facility/Site Name: Assembly Square

Operator signature: FR Sturtevant Street, LLC, a Delaware limited liability company, by its sole member, FR Sturtevant Street, Inc., a Delaware corporation

Title: Dawn M. Becker
DAWN M. BECKER, Vice President - General Counsel & Secretary

Date: 6-02-2008

Table 1 - Groundwater Analytical Data
Remediation General Permit Application - 100 Sturtevant Street, Somerville, Massachusetts

ANALYSIS	MDL	B-215 5/12/08	B-216 5/12/08	B-218 5/12/08	EN-4 5/12/08
Solids, Total Suspended		66,000	790,000	620,000	50,000
Cyanide, Total	5	ND	ND	ND	ND
Chlorine, Total Residual	50	ND	ND	ND	ND
TPH	4000	ND	ND	ND	ND
Chromium, Hexavalent	10	ND	ND	ND	ND
Total Metals by MCP 6000/7000 series					
Antimony, Total	50	ND	ND	ND	ND
Arsenic, Total	5	6	17	35	14
Cadmium, Total	4	ND	ND	ND	ND
Chromium, Total	10	ND	20	ND	ND
Chromium, Trivalent	10	ND	20	ND	ND
Copper, Total	10	14	42	ND	ND
Iron, Total	50	13,000	24,000	18,000	9,100
Lead, Total	10	ND	36	ND	ND
Mercury, Total	0.2	ND	ND	ND	ND
Nickel, Total	25	ND	28	ND	ND
Selenium, Total	10	ND	ND	ND	ND
Silver, Total	7	ND	ND	ND	ND
Zinc, Total	50	ND	208	ND	ND
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	0.5	ND	ND	ND	ND
1,1,1-Trichloroethane	0.5	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.5	ND	ND	ND	ND
1,1,2-Trichloroethane	0.75	ND	ND	ND	ND
1,1-Dichloroethane	0.75	ND	ND	ND	ND
1,1-Dichloroethene	0.5	ND	ND	ND	ND
1,1-Dichloropropene	2.5	ND	ND	ND	ND
1,2,3-Trichlorobenzene	2.5	ND	ND	ND	ND
1,2,3-Trichloropropane	5	ND	ND	ND	ND
1,2,4-Trichlorobenzene	2.5	ND	ND	ND	ND
1,2,4-Trimethylbenzene	2.5	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	2.5	ND	ND	ND	ND
1,2-Dibromoethane	2	ND	ND	ND	ND
1,2-Dichlorobenzene	2.5	ND	ND	ND	ND
1,2-Dichloroethane	0.5	ND	ND	ND	ND
1,2-Dichloropropane	1.8	ND	ND	ND	ND
1,3,5-Trimethylbenzene	2.5	ND	ND	ND	ND
1,3-Dichlorobenzene	2.5	ND	ND	ND	ND
1,3-Dichloropropane	2.5	ND	ND	ND	ND
1,4-Dichlorobenzene	2.5	ND	ND	ND	ND
1,4-Dioxane	250	ND	ND	ND	ND
2,2-Dichloropropane	2.5	ND	ND	ND	ND
2-Butanone	5	ND	ND	ND	ND
2-Hexanone	5	ND	ND	ND	ND
4-Methyl-2-pentanone	5	ND	ND	ND	ND
Acetone	5	ND	ND	ND	ND
Benzene	0.5	ND	ND	ND	25
Bromobenzene	2.5	ND	ND	ND	ND
Bromochloromethane	2.5	ND	ND	ND	ND

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ANALYSIS	MDL	B-215 5/12/08	B-216 5/12/08	B-218 5/12/08	EN-4 5/12/08
Bromodichloromethane	0.5	ND	ND	ND	ND
Bromoform	2	ND	ND	ND	ND
Bromomethane	1	ND	ND	ND	ND
Carbon disulfide	5	ND	ND	ND	ND
Carbon tetrachloride	0.5	ND	ND	ND	ND
Chlorobenzene	0.5	ND	ND	ND	ND
Chloroethane	1	ND	ND	ND	ND
Chloroform	0.75	ND	ND	ND	ND
Chloromethane	2.5	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.5	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.5	ND	ND	ND	ND
Dibromochloromethane	0.5	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND
Ethyl ether	2.5	ND	ND	ND	ND
Ethyl-Tert-Butyl-Ether	2	ND	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND	ND
Hexachlorobutadiene	0.6	ND	ND	ND	ND
Isopropyl Ether	2	ND	ND	ND	ND
Isopropylbenzene	0.5	ND	ND	ND	41
Methyl tert butyl ether	1	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND
n-Butylbenzene	0.5	ND	ND	ND	ND
n-Propylbenzene	0.5	ND	ND	ND	31
Naphthalene	2.5	ND	ND	ND	ND
o-Chlorotoluene	2.5	ND	ND	ND	ND
o-Xylene	1	ND	ND	ND	ND
p-Chlorotoluene	2.5	ND	ND	ND	ND
p-Isopropyltoluene	0.5	ND	ND	ND	ND
p/m-Xylene	1	ND	ND	ND	ND
sec-Butylbenzene	0.5	ND	ND	ND	ND
Styrene	1	ND	ND	ND	ND
tert-Butylbenzene	2.5	ND	ND	ND	ND
Tertiary-Amyl Methyl Ether	2	ND	ND	ND	ND
Tetrachloroethene	0.5	ND	ND	ND	ND
Tetrahydrofuran	10	ND	ND	ND	ND
Toluene	0.75	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.75	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.5	ND	ND	ND	ND
Trichloroethene	0.5	ND	ND	ND	ND
Trichlorofluoromethane	2.5	ND	ND	ND	ND
Vinyl chloride	1	ND	ND	ND	ND
Semivolatile Organics by MCP 8270C					
1,2,4-Trichlorobenzene	4.8	ND	ND	ND	ND
1,2-Dichlorobenzene	4.8	ND	ND	ND	ND
1,3-Dichlorobenzene	4.8	ND	ND	ND	ND
1,4-Dichlorobenzene	4.8	ND	ND	ND	ND
2,4,5-Trichlorophenol	4.8	ND	ND	ND	ND
2,4,6-Trichlorophenol	4.8	ND	ND	ND	ND

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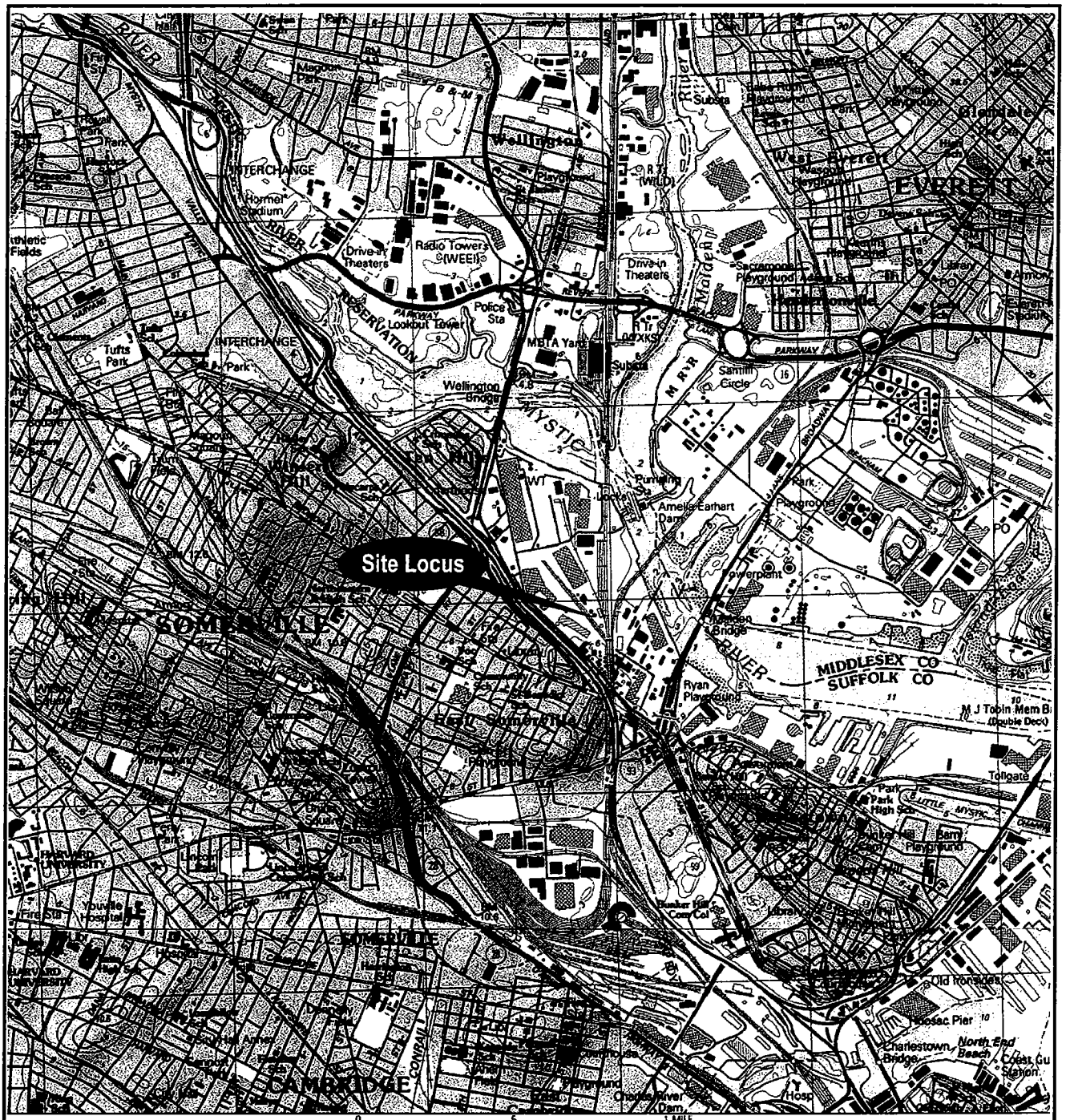
Remediation General Permit Application - 100 Sturtevant Street, Somerville, Massachusetts

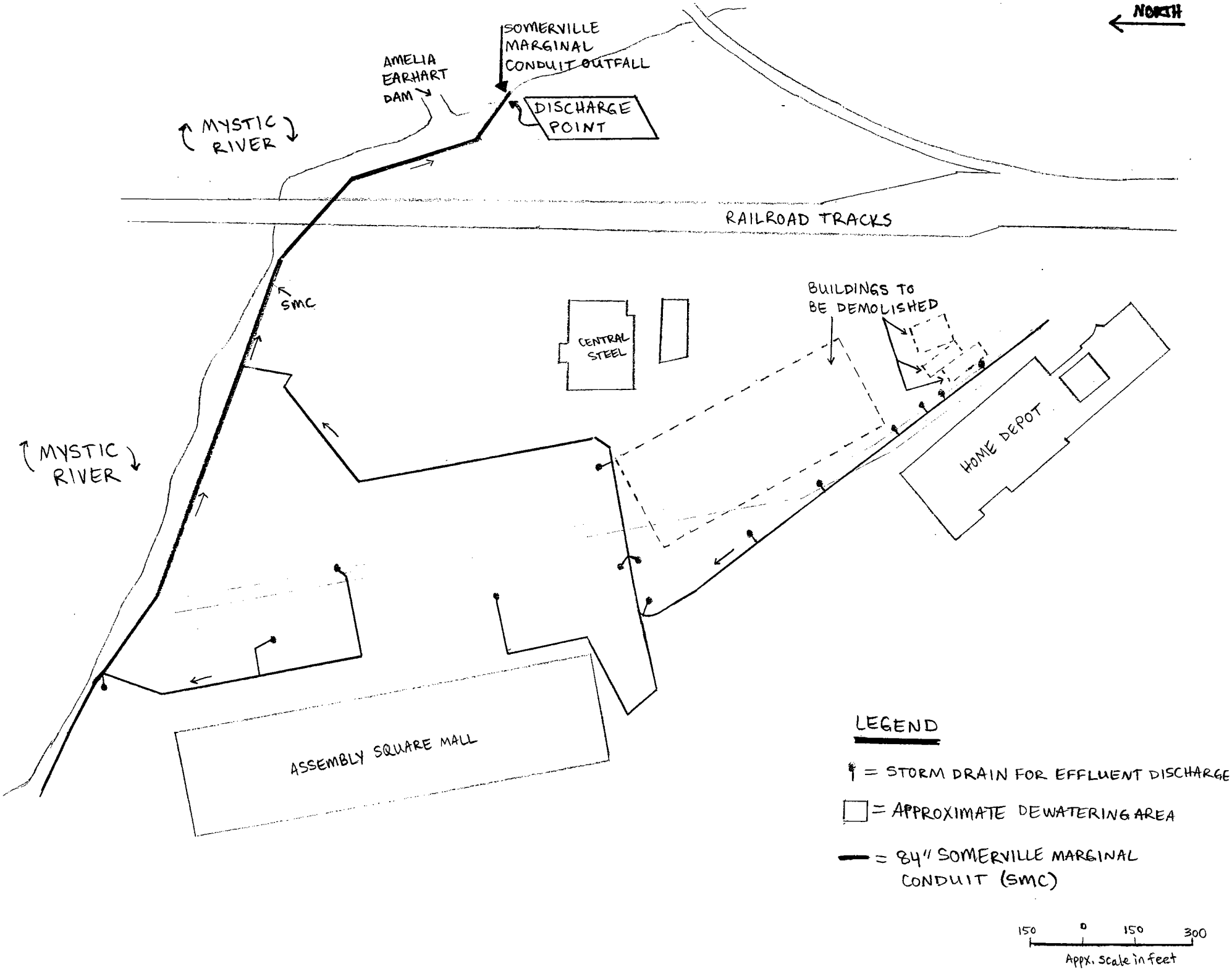
ANALYSIS	MDL	B-215 5/12/08	B-216 5/12/08	B-218 5/12/08	EN-4 5/12/08
2,4-Dichlorophenol	9.5	ND	ND	ND	ND
2,4-Dimethylphenol	4.8	ND	ND	ND	ND
2,4-Dinitrophenol	28	ND	ND	ND	ND
2,4-Dinitrotoluene	4.8	ND	ND	ND	ND
2,6-Dinitrotoluene	4.8	ND	ND	ND	ND
2-Chloronaphthalene	4.8	ND	ND	ND	ND
2-Chlorophenol	5.7	ND	ND	ND	ND
2-Methylnaphthalene	4.8	ND	ND	ND	ND
2-Methylphenol	5.7	ND	ND	ND	ND
2-Nitrophenol	19	ND	ND	ND	ND
3,3'-Dichlorobenzidine	9.5	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol	5.7	ND	ND	ND	ND
4-Bromophenyl phenyl ether	4.8	ND	ND	ND	ND
4-Chloroaniline	4.8	ND	ND	ND	ND
4-Nitrophenol	9.5	ND	ND	ND	ND
Acenaphthene	4.8	ND	ND	ND	ND
Acenaphthylene	4.8	ND	ND	ND	ND
Acetophenone	19	ND	ND	ND	ND
Aniline	19	ND	ND	ND	ND
Anthracene	4.8	ND	ND	ND	ND
Azobenzene	4.8	ND	ND	ND	ND
Benzo(a)anthracene	4.8	ND	ND	ND	ND
Benzo(a)pyrene	4.8	ND	ND	ND	ND
Benzo(b)fluoranthene	4.8	ND	ND	ND	ND
Benzo(ghi)perylene	4.8	ND	ND	ND	ND
Benzo(k)fluoranthene	4.8	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	4.8	ND	ND	ND	ND
Bis(2-chloroethyl)ether	4.8	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	4.8	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	4.8	ND	ND	ND	ND
Butyl benzyl phthalate	4.8	ND	ND	ND	ND
Chrysene	4.8	ND	ND	ND	ND
Di-n-butylphthalate	4.8	ND	ND	ND	ND
Di-n-octylphthalate	4.8	ND	ND	ND	ND
Dibenzo(a,h)anthracene	4.8	ND	ND	ND	ND
Dibenzofuran	4.8	ND	ND	ND	ND
Diethyl phthalate	4.8	ND	ND	ND	ND
Dimethyl phthalate	4.8	ND	ND	ND	ND
Fluoranthene	4.8	ND	ND	ND	ND
Fluorene	4.8	ND	ND	ND	ND
Hexachlorobenzene	4.8	ND	ND	ND	ND
Hexachlorobutadiene	9.5	ND	ND	ND	ND
Hexachloroethane	4.8	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	4.8	ND	ND	ND	ND
Isophorone	4.8	ND	ND	ND	ND
Naphthalene	4.8	ND	ND	ND	ND
Nitrobenzene	4.8	ND	ND	ND	ND
Pentachlorophenol	9.5	ND	ND	ND	ND
Phenanthrene	4.8	ND	ND	ND	ND
Phenol	6.7	ND	ND	ND	ND
Pyrene	4.8	ND	ND	ND	ND

Table 1 - Groundwater Analytical Data
Remediation General Permit Application - 100 Sturtevant Street, Somerville, Massachusetts

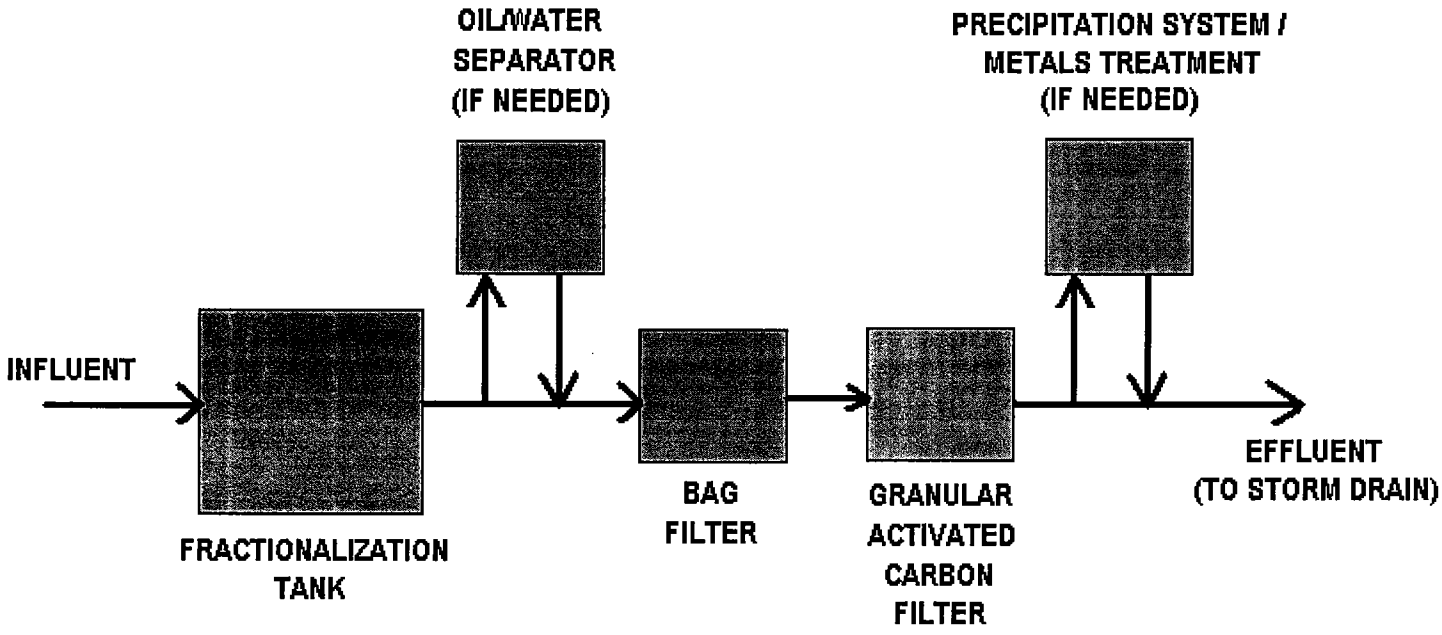
ANALYSIS	MDL	B-215 5/12/08	B-216 5/12/08	B-218 5/12/08	EN-4 5/12/08
Semivolatile Organics by MCP 8270C-SIM					
2-Chloronaphthalene	*0.19*	ND	ND	ND	ND
2-Methylnaphthalene	*0.19*	1	ND	ND	ND
Acenaphthene	*0.19*	ND	ND	ND	4.4
Acenaphthylene	*0.19*	ND	ND	ND	ND
Anthracene	*0.19*	ND	ND	ND	ND
Benzo(a)anthracene	*0.19*	ND	ND	ND	ND
Benzo(a)pyrene	*0.19*	ND	ND	ND	ND
Benzo(b)fluoranthene	*0.19*	ND	ND	ND	ND
Benzo(ghi)perylene	*0.19*	ND	ND	ND	ND
Benzo(k)fluoranthene	*0.19*	ND	ND	ND	ND
Chrysene	*0.19*	ND	ND	ND	ND
Dibenzo(a,h)anthracene	*0.19*	ND	ND	ND	ND
Fluoranthene	*0.19*	ND	ND	ND	ND
Fluorene	*0.19*	ND	ND	ND	5.8
Hexachlorobenzene	*0.76*	ND	ND	ND	ND
Hexachlorobutadiene	*0.48*	ND	ND	ND	ND
Hexachloroethane	*0.76*	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	*0.19*	ND	ND	ND	ND
Naphthalene	*0.19*	0.25	ND	ND	2.5
Pentachlorophenol	*0.76*	ND	ND	ND	ND
Phenanthrene	*0.19*	0.2	ND	ND	2.3
Pyrene	*0.19*	ND	ND	ND	ND
Polychlorinated Biphenyls by MCP 8082					
Aroclor 1016	*0.25*	ND	ND	ND	ND
Aroclor 1221	*0.25*	ND	ND	ND	ND
Aroclor 1232	*0.25*	ND	ND	ND	ND
Aroclor 1242	*0.25*	ND	ND	ND	ND
Aroclor 1248	*0.25*	ND	ND	ND	ND
Aroclor 1254	*0.25*	ND	ND	ND	ND
Aroclor 1260	*0.25*	ND	ND	ND	ND
Aroclor 1262	*0.25*	ND	ND	ND	ND
Aroclor 1268	*0.25*	ND	ND	ND	ND

Note:
All values are presented in ug/L


Site Locus
Wellington
Wellington Bridge
MBTA Yard
Radio Towers (WEEI)
Drive-in Theaters
Police Sta
Lookout Tower
Tufts Park
INTERCHANGE
Hornet Stadium
Magoun Park
Amelia Earhart Dam
Sandhill Circle
Powerplant
Charlestown Bridge
Ryan Playground
MIDDLESEX CO
SUFFOLK CO
EVERETT
Glenwood
West Everett
SOMERVILLE
CAMBRIDGE
Tollgate
Old Ironsides
Charlestown Bridge
North End Beach
Charles River Dam
Hosp
Fire Sta
Athletic Fields
Playground
Park
Substa
Sacramento Playground
Hendrickson Park
Broadway
Parkway
Mystic River
Malden River
Conrail
Harvard University
Somerville Hospital
Tufts University
Bunker Hill Community College
Bunker Hill Monument
Lookout Tower
Fire Sta
Hosp
Library
Barry Playground
Powder Hill
Little Mystic Channel
Mass Ave
Cambridge St
Broadway
Somerville Ave
Beacon St
Washington St
Medford St
Alewife Brook Pkwy
Rt 16
Rt 28
Rt 93
Rt 99
Rt 38
Rt 60
Rt 28
Rt 16
Rt 99
Rt 93
Rt 60
Rt 38


NORTH
SOMERVILLE MARGINAL CONDUIT OUTFALL
AMELIA EARHART DAM
DISCHARGE POINT
MYSTIC RIVER
RAILROAD TRACKS
SMC
CENTRAL STEEL
BUILDINGS TO BE DEMOLISHED
HOME DEPOT
MYSTIC RIVER
ASSEMBLY SQUARE MALL
LEGEND
= STORM DRAIN FOR EFFLUENT DISCHARGE
= APPROXIMATE DEWATERING AREA
= 84" SOMERVILLE MARGINAL CONDUIT (SMC)
150 0 150 300
Appx. Scale in feet

100 STURTEVANT STREET CONSTRUCTION DEWATERING
PROPOSED GROUNDWATER TREATMENT SCHEMATIC



Details of treatment system may vary from the system indicated above. Specific means and methods of treatment are to be selected by the subcontractor. All water discharged at the effluent point shall meet required effluent standards as specified in Appendix III and IV of the RGP/NOI Application.

APPENDIX A: DILUTION CALCULATIONS

WOODARD &CURRAN

Notice of Intent for the NPDES Remediation General Permit
Construction Dewatering at Assembly Square, Somerville, Massachusetts

The effluent discharge point from the Site will be from the Somerville Marginal Conduit, an 84"-diameter outfall just downstream of the Amelia Earhart Dam on the Mystic River in Somerville.

Calculation of Dilution Factor:

DF = [(Qd + Qs)/Qd] X 0.9

Where: **DF** = Dilution Factor

Qd = Maximum flow rate of the discharge in cubic feet per second (cfs) (1.0 gpm = 0.00223 cfs)

Qs = Receiving water 7Q10 flow, in cfs

7Q10 = The annual minimum flow for 7 consecutive days with a recurrence interval of 10 years

0.9 = Allowance for reserving 10% of the assets in the receiving stream as per Chapter ENV-Ws 1700, Surface Water Quality Regulations

For this Site:

The 7Q10 value is the average value of nine continuous-record gauging stations in the Aberjona and Mystic River sub-basins, as documented by "Hydrology and Water Resources of the Coastal Drainage Basin of Northeastern Massachusetts, From Castle Neck, Ipswich, to Mystic River, Boston," by Delaney and Gay, Hydrologic Investigations Atlas HA-589. The 7Q10 value here is 0.293 cfs per square mile. The documented drainage area of the Aberjona/Mystic River sub-basin is 62.9 square miles at the Amelia Earhart Dam (USGS gauging station number 01103050). Thus,

7Q10 = 0.293 cfs/mi^2 x 62.9 mi^2 = **18.43 cfs**

Qd = 0.10 cfs

DF = [(0.10 + 18.43) / 0.10] * 0.9 = **167**

Therefore, with a dilution factor of 167, effluent discharge from the Site will be subject to the Total Recoverable Metals Limitations in the " >100 " dilution factor column of Appendix IV in the NPDES RGP guidelines.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Field Office
70 Commercial Street, Suite 300
Concord, New Hampshire 03301-5087
http://www.fws.gov/northeast/newenglandfieldoffice

May 27, 2008

Reference:	Project	Location
	Groundwater discharge	Somerville, MA

Amy Wallace
Woodard & Curran Inc.
35 New England Business Center, Suite 180
Andover, MA 01810

Dear Ms. Wallace:

This responds to your recent correspondence requesting information on the presence of federally-listed and/or proposed endangered or threatened species in relation to the proposed activity(ies) referenced above.

Based on information currently available to us, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under Section 7 of the Endangered Species Act is not required.

This concludes our review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

In order to curtail the need to contact this office in the future for updated lists of federally-listed or proposed threatened or endangered species and critical habitats, please visit the Endangered Species Consultation page on the New England Field Office's website:

www.fws.gov/northeast/newenglandfieldoffice/EndangeredSpec-Consultation.htm

In addition, there is a link to procedures that may allow you to conclude if habitat for a listed species is present in the project area. If no habitat exists, then no federally-listed species are present in the project area and there is no need to contact us for further consultation. If the above conclusion cannot be reached, further consultation with this office is advised. Information describing the nature and location of the proposed activity that should be provided to us for further informal consultation can be found at the above-referenced site.

Thank you for your coordination. Please contact us at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Anthony P. Tur
Endangered Species Specialist
New England Field Office

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
NORTHEAST REGION
One Blackburn Drive
Gloucester, MA 01930-2298

MAY 16 2008

Amy Wallace
Woodard and Curran
35 New England Business Center, Suite 180
Andover, Massachusetts 01810

Dear Ms. Wallace,

This is in response to your letter dated April 2, 2008 regarding an application for coverage under the NPDES Remediation General Permit administered by the US Environmental Protection Agency. Effluent will be discharged to the Mystic River in Somerville, Massachusetts as part of utility trench dewatering activities.

Several species of listed whales and sea turtles occur seasonally in waters off the Massachusetts coast and populations of the endangered shortnose sturgeon occur in the Merrimack and Connecticut Rivers. However, no listed species are known to occur in the Mystic River. As such, no further coordination with NMFS on the effects of discharges associated with the utility trench dewatering in Somerville is necessary. Should you have any questions regarding these comments, please contact Julie Crocker at (978)281-9300 ext. 6530.

Sincerely,

Mary A. Colligan
Assistant Regional Administrator
for Protected Resources

Cc: Boelke, F/NER4

File Code: Sec 7 Mass. NSP

APPENDIX C
National Register of Historic Places Research Documentation

WOODARD &CURRAN

A search of the Nationals Register of Historic Places database for sites listed within Somerville, Massachusetts yielded 81 results. These sites are listed in the table below. None of the sites listed are within the boundaries of the subject property, nor do any of the sites abut the subject property or the construction dewatering discharge point.

Number	SITE NAME	ADDRESS	LISTED
1	Adams, Charles--Woodbury Locke House	178 Central St.	9/18/1989
2	Adams--Magoun House	438 Broadway	9/18/1989
3	Bacon, Clifton, House	27 Chester St.	9/18/1989
4	Barnes, Walter S. and Melissa E., House	140 Highland Ave.	3/8/1990
5	Bow Street Historic District	Bow St.	3/26/1976
6	Brackett, S. E., House	63 Columbus Ave.	9/18/1989
7	Broadway Winter Hill Congregational Church	404 Broadway	9/18/1989
8	Brooks, James H., House	61 Columbus Ave.	9/18/1989
9	Carr, Martin W., School	25 Atherton St.	7/5/1984
10	Central Library	79 Highland Ave.	9/18/1989
11	Cliff, Z. E., House	29 Powderhouse Terr.	9/18/1989
12	Cook, Thomas, House	21 College Hill Rd.	9/18/1989
13	Cooper--Davenport Tavern Wing	81 Eustis St.	9/18/1989
14	Crowell, C. C., House	85 Benton Rd.	9/18/1989
15	Downer Rowhouses (Adams Street)	55 Adams St.	9/18/1989
16	Downer Rowhouses (Central Street)	192--200 Central St.	9/18/1989
17	First Unitarian Church	130 Highland Ave.	9/18/1989
18	First Universalist Church	125 Highland St.	9/18/1989
19	Foster, Alexander, House	45 Laurel St.	9/18/1989
20	Gaut, Samuel, House	137 Highland Ave.	9/18/1989
21	Grandview, The	82 Munroe St.	9/18/1989
22	Highland, The	66 Highland St.	9/18/1989
23	Hollander Blocks	Walnut St. and Pleasant Ave.	9/18/1989
24	Hopkins, Elisha, House	237 School St.	9/18/1989
25	House at 10 Arlington Street	10 Arlington St.	9/18/1989
26	House at 14 Chestnut Street	14 Chestnut St.	9/18/1989
27	House at 16--18 Preston Road	16--18 Preston Rd.	9/18/1989
28	House at 197 Morrison Avenue	197 Morrison Ave.	9/18/1989
29	House at 21 Dartmouth Street	21 Dartmouth St.	9/18/1989
30	House at 25 Clyde Street	25 Clyde St.	9/18/1989
31	House at 29 Mt. Vernon Street	29 Mt. Vernon St.	9/18/1989
32	House at 343 Highland Avenue	343 Highland Ave.	9/18/1989
33	House at 35 Temple Street	35 Temple St.	9/18/1989
34	House at 42 Vinal Avenue	42 Vinal Ave.	9/18/1989
35	House at 49 Vinal Avenue	49 Vinal Ave.	9/18/1989
36	House at 5 Prospect Hill	5 Prospect Hill	9/18/1989
37	House at 6 Kent Court	6 Kent Ct.	9/18/1989
38	House at 72R Dane Street	72R Dane St.	9/18/1989
39	House at 81 Pearl Street	81 Pearl St.	9/18/1989
40	Houses at 28--36 Beacon Street	28--36 Beacon St.	9/18/1989

Number	SITE NAME	ADDRESS	LISTED
41	Ireland, Samuel, House	117 Washington	9/18/1989
42	James, Joseph K., House	83 Belmont St.	2/11/1998
43	Keyes, Amos, House	12 Adams St.	9/18/1989
44	Knight, R. A.--Eugene Lacount House	34 Day St.	9/18/1989
45	Langmaid Building	48--52 Highland Ave.	9/18/1989
46	Langmaid Terrace	359--365 Broadway	9/18/1989
47	Lockhardt, Charles H., House	88 College Ave.	9/18/1989
48	Loring, George, House	76 Highland Ave.	9/18/1989
49	Lovejoy, A. L., House	30 Warren Ave.	9/18/1989
50	Mt. Vernon Street Historic District	8--24 Mt. Vernon St.	9/18/1989
51	Munroe, Robert, House	37 Walnut St.	9/18/1989
52	Mystic Pumping Station	Alewife Brook Pkwy.	1/18/1990
53	Mystic Valley Parkway, Metropolitan Park System of Greater Boston MPS	Mystic Valley Parkway	1/18/2006
54	Mystic Water Works	Alewife Brook Pkwy & Capen St.	9/18/1989
55	Nichols, John F., House	17 Summit St.	9/18/1989
56	Niles, Louville V., House	97 Munroe St.	9/18/1989
57	Niles, Louville, House	45 Walnut St.	9/18/1989
58	Old Cemetery	Somerville Ave. and School St.	9/18/1989
59	Otis--Wyman House	67 Thurston St.	9/18/1989
60	Parker--Burnett House	48 Vinal Ave.	9/18/1989
61	Powder House Park	Powder House Circle	4/21/1975
62	Prescott, Gustavus G., House	65--67 Perkins St.	9/18/1989
63	Rosebud, The	381 Summer St.	9/22/1999
64	Russell, Philemon, House	25 Russell St.	9/18/1989
65	Russell, Susan, House	58 Sycamore St.	9/18/1989
66	Schuebeler, Charles, House	384 Washington St.	9/18/1989
67	Snow, Lemuel, Jr., House	81 Benton Rd.	9/18/1989
68	Somerville High School	93 Highland St.	9/18/1989
69	Somerville Journal Building	8--10 Walnut St.	9/18/1989
70	Somerville Theatre	55 Davis Sq.	1/26/1990
71	Spring Hill Historic District	Roughly bounded by Summer, Central, Atherton, and Spring St	9/18/1989
72	Tufts, Peter and Oliver, House	78 Sycamore St.	9/18/1989
73	US Post Office--Somerville Main	237 Washington St.	5/30/1986
74	Warren, H., House	205 School St.	9/18/1989
75	West Somerville Branch Library	40 College Ave.	9/18/1989
76	Williams, Charles, House	108 Cross St.	9/18/1989
77	Williams, Charles, Jr., House	1 Arlington St.	9/18/1989
78	Williams, F. G., House	37 Albion St.	9/18/1989
79	Worthen, Daniel, House	8 Mt. Pleasant St.	9/18/1989
80	Wright House	54 Vinal Ave.	9/18/1989
81	Wyatt, George, House	33 Beacon St.	9/18/1989

APPENDIX D
Best Management Practices Plan

WOODARD &CURRAN

Notice of Intent for the NPDES Remediation General Permit
Construction Dewatering at Assembly Square, Somerville, Massachusetts

In accordance with the Commonwealth of Massachusetts's application requirements for the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) MAG910000, this Best Management Practices Plan (BMPP) has been prepared in support of the RGP Application for contaminated construction site dewatering. Dewatering is planned in support of the a Correction Action Plan Remedy Implementation for the Site (RTN 3-11886) at 100 Sturtevant Street (Assembly Square) in Somerville, Massachusetts. The practices outlined in this Plan will be adhered to during construction dewatering at the Site.

Water Treatment and Management

Construction dewatering effluent will be pumped from the trench or excavation by a water pump via hose and directly to a fractionalization tank. The fractionalization tank will allow for the settling of excess sediment and suspended solids in the groundwater before the effluent flows to subsequent treatment systems as depicted in the groundwater treatment schematic. Treatment may consist of an oil/water separator (if needed), bag filters, granular activated carbon filters, a metals precipitation system (if needed), and then discharged to an on-site storm drain. Discharge to the storm drains will take the effluent to the 84" Somerville Marginal Conduit with an outfall just downstream of the Amelia Earhart Dam in the Mystic River. A figure showing multiple storm drains has been provided due to the need for the trenching to move along a path approximately one half mile in length; the groundwater treatment system will also require moving to multiple staging areas along the length of the work area.

Discharge Monitoring and Compliance

Regular sampling and testing of the influent and effluent will be conducted as required by the RGP. This includes chemical testing as required in the first month of discharge, and monthly sampling thereafter through the end of construction dewatering activities. Daily monitoring will include inspecting the treatment system and recording flow rates, storm drains utilized, and discharge volumes. Monthly monitoring reports will be compiled to report the analytical results, flow rates and volumes, and other pertinent system information.

System Maintenance

In an effort to maintain compliance with the terms of the RGP, regular maintenance of the groundwater treatment system will be conducted to verify proper operation. Regular maintenance includes checking the condition of the treatment system equipment such as the frac tanks, filters, hoses, pumps, and flow meters. Equipment will be monitored daily for any potential issues or unscheduled maintenance needs, and the daily monitoring checks shall be documented in the field log book.

Management of Treatment System Materials

No potential sources of pollutants are anticipated to enter the system. Erosion controls around the trenching and excavation work will be used by the contractor to prevent runoff from entering the work area. Dewatering effluent will be pumped directly to the treatment system by pumps and hoses to minimize handling. Any equipment or materials kept on-site that may be potential sources of pollution will be kept in a staging area separate from the groundwater treatment train area.

Sediment from the fractionalization tank will be characterized and disposed of at an appropriate receiving facility pending the analytical results. If used, the granular activated carbon filters and bag filters will be disposed of at an appropriate facility.