



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

CERTIFIED MAIL RETURN RECEIPT REQUESTED

MAR 20 2012

Mr. Michael McCarthy
Vice President
J. Derenzo Co., Inc.
338 Howard Street
Brockton, MA 02320

Re: Authorization to discharge under the Remediation General Permit (RGP) –
MAG910000. Waterside Place site located at 505 Congress Street, Suffolk County;
Authorization # MAG910525

Dear Mr. McCarthy:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Core Development Group LLC by the firm M^CPhail Associates, LLC for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

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

Please note the enclosed checklist includes parameters that exceeded Appendix III limits. Also, monitoring requirements and permit limits were included for total suspended solids (TSS) and iron. TSS was included in view of its historic present, and iron was included based on laboratory reports that show it to be above the Appendix III limits.

Please note also that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations. With the absence of dilution of freshwater into tidal water, EPA determined that the Dilution Factor Range (DFR) for each parameter for this site is in the one and five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities).

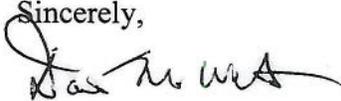
Therefore, the limits for arsenic of 36ug/L, nickel of 8.2ug/L, and iron of 1,000ug/L, are required to achieve permit compliance at your site.

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

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on March 01, 2013. You are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

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

Sincerely,



David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP
Jeff McLaughlin, BWSC

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

NPDES Authorization Number:	MAG910525
Authorization Issued:	March, 2011
Facility/Site Name:	Watersite Place
Facility/Site Address:	505 Congress Street, Boston, MA 02210 Email address of owner: hsuominen@c3boston.com
Legal Name of Operator:	J. Derenzo Co. Inc.
Operator contact name, title, and Address:	Mr. Michael McCarthy, VP, 338 Howard Street, Brockton, MA 02320, Plymouth County; Ph: 508 427.6441 Email: mmccarthy@jderenzo.com ; Fax: 508.897.8528
Estimated date of Completion:	March 01, 2013
Category and Sub-Category:	Category III. Contaminated Construction Dewatering. Sub-category A. General Urban fill Sites
RGP Termination Date:	September 10, 2015
Receiving Water:	Boston Harbor

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

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

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l/Me#8260C/ML 10ug/L
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	14. Naphthalene ⁵	20 ug/L /Me#8260C/ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML 5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML 5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) ⁶	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L

<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
b. Benzo(a) Pyrene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
c. Benzo(b)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
d. Benzo(k)Fluoranthene ⁷	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
e. Chrysene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
f. Dibenzo(a,h)anthracene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
g. Indeno(1,2,3-cd) Pyrene ⁷	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML5ug/L
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
h. Acenaphthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
i. Acenaphthylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
j. Anthracene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
l. Fluoranthene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
m. Fluorene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
n. Naphthalene ⁵	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
o. Phenanthrene	X/Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
p. Pyrene	X/Me#8270D/ML5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
37. Total Polychlorinated Biphenyls (PCBs) ^{8, 9}	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
✓ 38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

<u>Metal parameter</u>	<u>Total Recoverable Metal Limit @ H ¹⁰ = 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l) ^{11/12}</u>	<u>Minimum level=ML</u>
	<u>Saltwater</u>	
39. Antimony	5.6/ML 10	
✓ 40. Arsenic **	36/ML 20	

	Metal parameter	Total Recoverable Metal Limit @ H¹⁰ = 50 mg/l CaCO₃ for discharges in Massachusetts (ug/l)^{11/12}		Minimum level=ML
			Saltwater	
	41. Cadmium **		8.9/ML 10	
	42. Chromium III (trivalent) **		100/ML 15	
	43. Chromium VI (hexavalent) **		50.3/ML 10	
	44. Copper **		3.7/ML 15	
	45. Lead **		8.5/ML 20	
	46. Mercury **		1.1/ML 0.2	
✓	47. Nickel **		8.2/ML 20	
	48. Selenium **		71/ML 20	
	49. Silver		2.2/ML 10	
	50. Zinc **		85.6/ML 15	
✓	51. Iron		1,000/ML 20	

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

Footnotes:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

¹⁴ Temperature sampling per Method 170.1



**NOTICE OF INTENT FOR DISCHARGE
UNDER MASSACHUSETTS REMEDIAL
GENERAL PERMIT MAG910000**

WATERSIDE PLACE

BOSTON MASSACHUSETTS

to

**U.S. Environmental Protection Agency
and
Massachusetts Department of
Environmental Protection**

February 21, 2012

Project No. 4258



February 21, 2012

U.S Environmental Protection Agency
RGP-NOC Processing Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

Attention: RGP-NOC Processing

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street
Worcester, MA 01608

Attention: Mr. Robert D. Kubit

Reference: Waterside Place; Boston, Massachusetts
Notice of Intent for Construction Dewatering Discharge Under Massachusetts
Remedial General Permit MAG910000

Ladies and Gentlemen:

The purpose of this letter report is to provide a summary of the site and groundwater quality information in support of an application for permission from the U.S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (DEP) for the temporary discharge of ground water into Boston's Inner Harbor during construction at the above referenced site. Refer to **Figure 1** Project Location Plan for the general site locus.

These services were performed and this permit application was prepared with the authorization of Waterside Development Group JV, LLC. These services are subject to the limitations contained in **Appendix A**.

The Waterside Place project site occupies the northern end of the Core Block parcel along Congress Street. The site is bounded on the east by D Street, on the west by a paved parking lot and the elevated World Trade Center Avenue viaduct, and on the south by the existing MBTA Silver Line bus terminal and its easement. The project site occupies a footprint of approximately 51,303 square feet and consists of land leased from the Massachusetts Port Authority (MassPort). The existing ground surface across the site is relatively level at about Elevation +111 and currently is occupied by paved parking. About 60 feet south of the MBTA Silver Line bus terminal is an approximate 220-foot wide by 40-foot deep tunnel for Interstate 90 that traverses the Core Block parcel in an east-west direction. The limits of the subject site are shown on **Figure 2**, which is based on a plan entitled Subsurface Investigation Plan.

It is understood that the proposed building will have a footprint of about 33,100 square feet at the first floor, with 291 feet of building frontage along Congress Street and 104 feet of building frontage on D Street. The building will consist of a 21-story central tower with the remainder of building being three stories in height. One level of parking will be provided on the second level, with retail space on the ground floor. The proposed development will include no occupied below grade space, however, below-grade excavation will be required for pile caps and the depressed shear core mat foundations. The existing at grade parking to the west of the proposed building will remain. The proposed structure will be supported by a pile foundation system including pile caps, grade beams and two large pile supported mats.



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Excavation within the proposed building footprint for pile caps and the depressed shear core mat foundations will extend to depths ranging from approximately 4 to 16 feet corresponding to depths of up to approximately 10 feet below the observed groundwater level, which was observed to be about 6 feet below the existing ground surface. Additionally, the groundwater encountered across the site is anticipated to be trapped within the surficial fill which is underlain by a relatively impermeable dredge fill layer. In order to permit construction of the below grade pile caps and mats, strategically located surface sumps situated in foundation excavations will be required to facilitate construction of the building foundations in-the-dry.

It is estimated that intermittent groundwater discharge required during the initial stages of the excavation phase of the construction will be on the order of 50 to 100 gallons per minute (gpm). The quantity of groundwater discharge is based on the relatively pervious nature of the granular portion of the existing fill material. A reduction in the rate of discharge is anticipated to occur during excavation once the initial perched groundwater has been pumped from the excavations. A rate of discharge of 20 to 50 gpm is anticipated during this stage of excavation. These estimates of discharge do not include surface runoff which will be removed from the excavation during the limited duration of a rain storm and shortly thereafter.

Since the footprint of the proposed construction will occupy a majority of the site's area and the relatively high silt content of the fill material, temporary on-site collection and recharge of groundwater is not feasible. Therefore, construction dewatering will require the discharging of groundwater through the storm drain system directly into Boston's Inner Harbor under the requested U.S. EPA Remedial General Permit (RGP).

A review of the sewer and storm drainage plans available at Boston Water and Sewer Commission indicate that numerous catch basins located along Congress and D Streets connect to either a 30-inch storm drain under Congress Street or a 54-inch drainage pipe under D Street. Each of these storm drain lines connect and flow north along D Street to Seaport Boulevard where they discharge into Boston's Inner Harbor at MassPort storm drain outfall No. 3. The location of the relevant catch basins with relation to the subject site are indicated on **Figure 2**.

Based on the results of groundwater chemical analyses, it is our opinion that a settling tank, bag filter, and arsenic, nickel and cyanide treatment systems will be required to settle out particulate matter and lower the elevated levels of cyanide in the water to meet allowable total suspended solids (TSS), cyanide, and total metals discharge limits established by the US EPA prior to discharge. The cyanide, arsenic and nickel treatment systems may include but are not limited to ion exchange, precipitation, coagulation and flocculation, adsorption and absorption. One settling tank 10,000-gallons in capacity or two settling tanks 5,000-gallons in capacity, two bag filters, and cyanide and total metals treatment systems will be incorporated into the discharge system in series in order to meet allowable discharge limits for TSS, cyanide and total metals established by the RGP. It is our opinion that the removal of sediment in conjunction with the cyanide treatment will also result in a reduction in total metals to levels below the RGP permit limits. A schematic of the treatment system is shown on **Figure 3**.

To document the effectiveness of the sedimentation, total metals and cyanide treatment system, samples of the discharge water will be obtained and tested for the presence of TSS, cyanide, and total metals prior to the start of discharge into the storm drain system. Should the pre-start up testing indicate that the levels of TSS, cyanide and/or total metals in the effluent from the treatment system exceed the limits



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established under the RGP, additional treatment of the effluent will be implemented prior to initial discharge.

Should the results of testing for cyanide and total metals continue to indicate an exceedance of the RGP limit concentrations, appropriate treatment will be implemented to address the exceedances. In addition, should other contaminants be detected within the discharge water during the construction dewatering phase of the project at levels that exceed the effluent limitations, mitigative measures will be implemented to meet the allowable discharge limits.

In conclusion, it is our opinion that groundwater at the site is acceptable for discharge into Boston Harbor through the MassPort storm drain system and storm drain outfall No. 3 under a Remedial General Permit. Sampling and analysis of the effluent will be carried out in accordance with the terms of the Remedial General Permit.

Supplemental information appended to this letter in support of the RGP includes the following:

- Notice of Intent Transmittal Form for Permit Application (**Appendix B**)
- A summary of groundwater analysis (**Appendix C, Table 1**);
- A review of Areas of Critical Concern and Endangered and Threatened Species (**Appendix D**);
- A review of National Historic Places (**Appendix E**); and
- Best Management Practice Plan (**Appendix F**)

We trust that the above satisfies your present requirements. Should you have any questions or comments concerning the above, please do not hesitate to contact us.

Very truly yours,

McPHAIL ASSOCIATES, LLC

A handwritten signature in black ink, appearing to read "Jason Huestis".

Jason S. Huestis

A handwritten signature in black ink, appearing to read "Ambrose J. Donovan".

Ambrose J. Donovan, P.E., L.S.P.

Enclosures

F:\WP5\REPORTS\4258 RGP.wpd

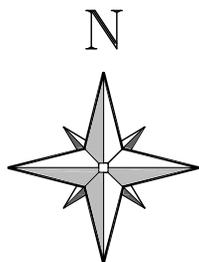
JSH/ada/ajd

FIGURE I



Geotechnical Engineers

2269 Massachusetts Avenue
Cambridge, MA 02140
617/868-1420
617/868-1423 (Fax)



SCALE 1:25,000

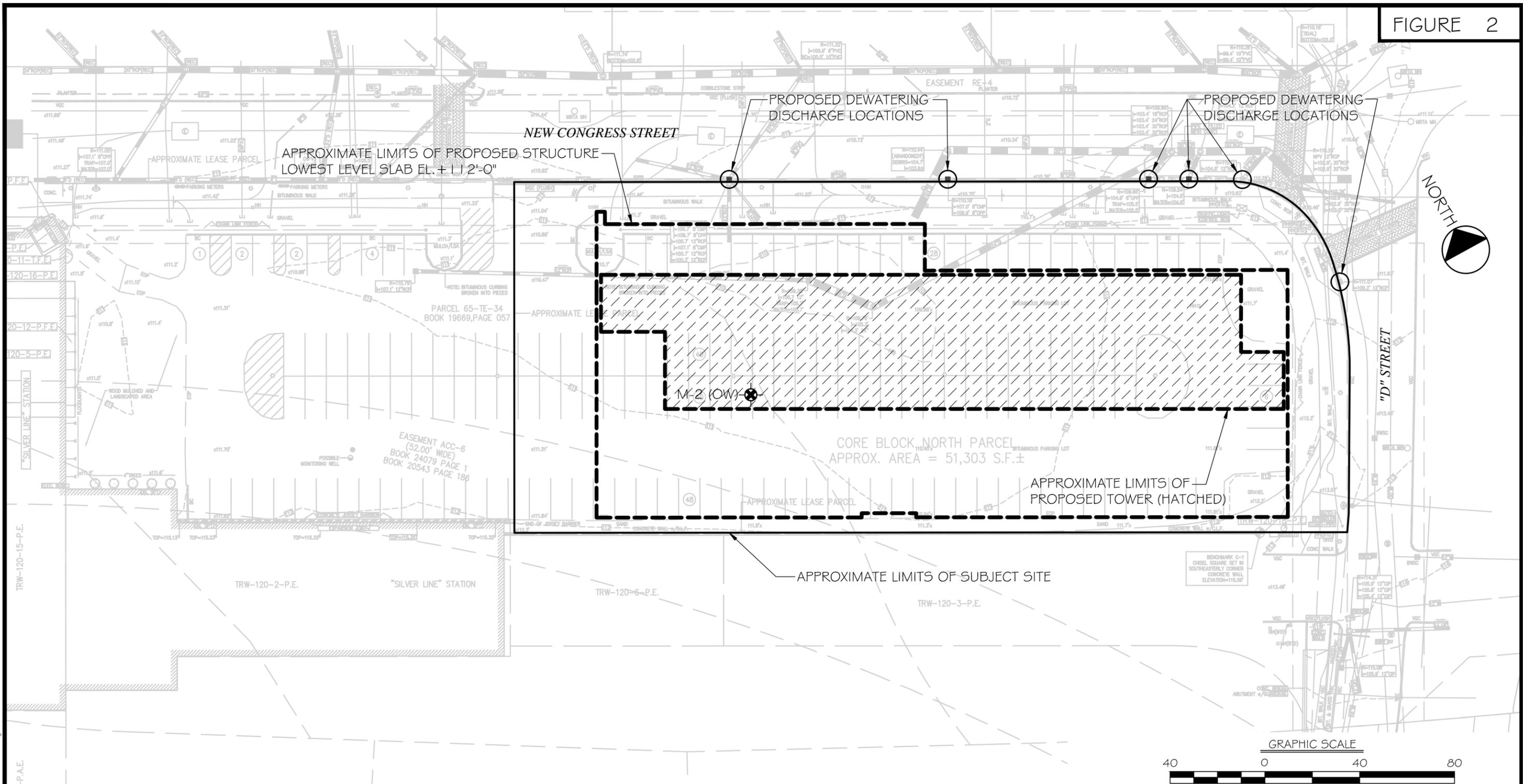
PROJECT LOCATION PLAN

WATERSIDE PLACE

SOUTH BOSTON

MASSACHUSETTS

FIGURE 2



LEGEND

⊗ — LOCATION OF GEOTECHNICAL BORINGS PERFORMED BY GEOLOGIC EARTH EXPLORATIONS, INC. DURING THE PERIOD OF JUNE 30, 2011 TO AUGUST 1, 2011 FOR McPHAIL ASSOCIATES, INC.

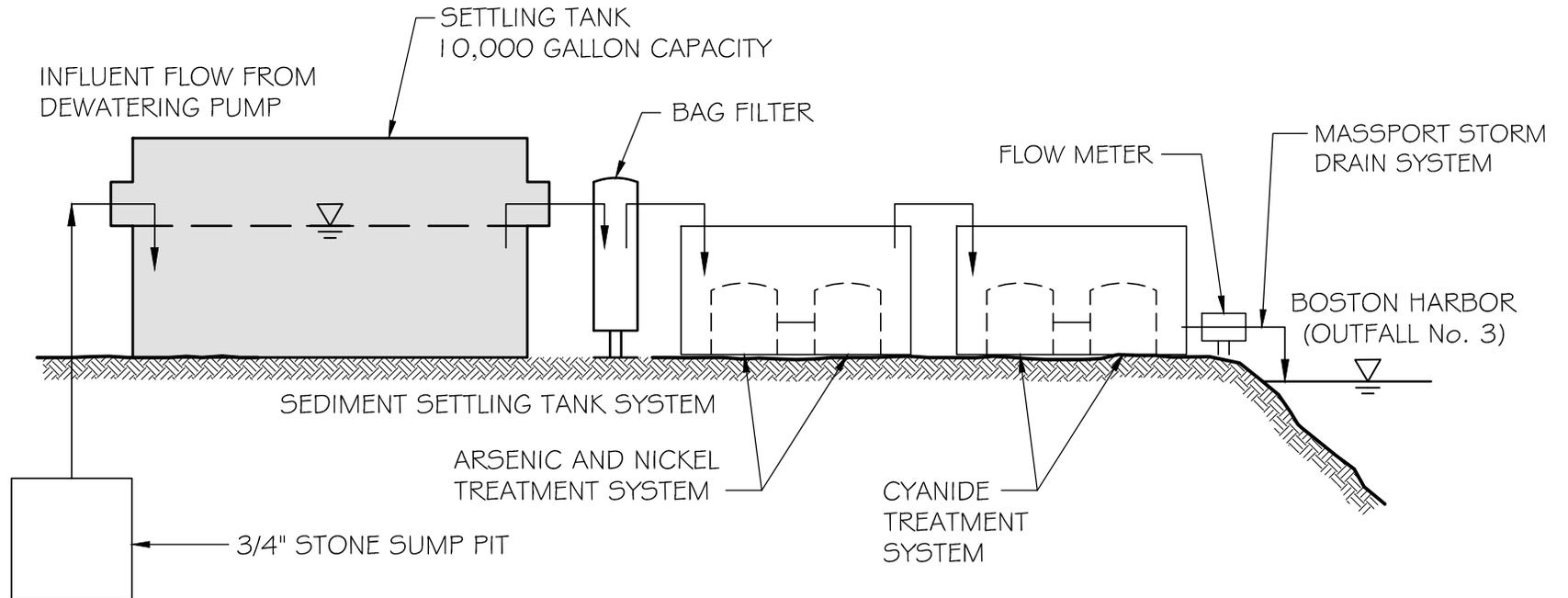
REFERENCE: THIS PLAN WAS PREPARED FROM A 20-SCALE DRAWING ENTITLED "EXISTING CONDITIONS PLAN OF LAND" DATED JUNE 7, 2011 BY VANASSE HANGEN BRUSTLIN, INC.

McPHAIL ASSOCIATES, LLC
 Geotechnical and Geoenvironmental Engineers
 2269 Massachusetts Avenue
 Cambridge, MA 02140
 617/868-1420
 617/868-1423 (Fax)

WATERSIDE PLACE			
SOUTH BOSTON		MASSACHUSETTS	
SUBSURFACE EXPLORATION PLAN			
FOR			
CORE DEVELOPMENT GROUP, LLC			
BY			
McPHAIL ASSOCIATES, LLC			
CONSULTING GEOTECHNICAL ENGINEERS			
Date: FEBRUARY 2012	Dwn: M.B.S.	Chkd: J.S.H.	Scale: 1" = 40'
Project No:	4258		

FILE NAME: H:\Acad\JOB54258\RGFP4258-F02.rev1.dwg

FIGURE 3



 <p>McPHAIL ASSOCIATES, LLC Geotechnical and Geoenvironmental Engineers 2269 Massachusetts Avenue Cambridge, MA 02140 617/868-1420 617/868-1423 (Fax)</p>	WATERSIDE PLACE	
	SOUTH BOSTON	MASSACHUSETTS
	SCHEMATIC OF WATER FLOW	
	FOR CORE DEVELOPMENT GROUP, LLC BY McPHAIL ASSOCIATES, LLC CONSULTING GEOTECHNICAL ENGINEERS	
Date: JANUARY 2012	Dwn: F.G.P.	Chkd: J.S.H.
Project No: 4258	Scale: N.T.S.	



APPENDIX A

LIMITATIONS

The purpose of this report is to present the results of testing of groundwater samples obtained from monitoring wells located at Waterside Place in Boston, Massachusetts, in support of an application for approval of construction site dewatering discharge into surface waters of the Commonwealth of Massachusetts under EPA's Massachusetts Remedial General Permit MAG910000.

The observations were made under the conditions stated in this report. The conclusions presented above were based on these observations. If variations in the nature and extent of subsurface conditions between the widely spaced subsurface explorations become evident in the future, it will be necessary to re-evaluate the conclusions presented herein after performing on-site observations and noting the characteristics of any variations.

The conclusions submitted in this report are based in part upon chemical test data obtained from analysis of groundwater samples, and are contingent upon their validity. The data have been reviewed, and interpretations have been made in the text. It should also be noted that fluctuations in the types and levels of contaminants and variations in their flow paths may occur due to changes in seasonal water table, past practices used in disposal and other factors.

Chemical analyses have been performed for specific constituents during the course of this site assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the site.

This report and application have been prepared on behalf of and for the exclusive use of Core Development Group, LLC. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party nor used in whole or in part by any other party without prior written consent of McPhail Associates, LLC.



APPENDIX B

Notice of Intent Transmittal Form

B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General facility/site information. Please provide the following information about the site:

a) Name of facility/site : Waterside Place		Facility/site mailing address:	
Location of facility/site : longitude: -71.0411 latitude: 42.3480	Facility SIC code(s):	Street: 505 Congress Street	
b) Name of facility/site owner : Waterside Development Group JV, LLC		Town: Boston	
Email address of facility/site owner : hsuominen@c3boston.com	State: MA	Zip: 02210	County: Suffolk
Telephone no. of facility/site owner : 1-617-330-9390	Owner is (check one): 1. Federal <input type="radio"/> 2. State/Tribal <input type="radio"/> 3. Private <input checked="" type="radio"/> 4. Other <input type="radio"/> if so, describe:		
Fax no. of facility/site owner : 1-617-330-9383	Address of owner (if different from site):		
Street: 2 Seaport Lane			
Town: Boston	State: MA	Zip: 02110	County: Suffolk
c) Legal name of operator : J. Derenzo Co., Inc.		Operator telephone no.: 508-427-6441	
Operator contact name and title: Mr. Michael McCarthy, VP		Operator fax no.: 508-897-8528	Operator email: mmccarthy@jderenzo.com
Address of operator (if different from owner):	Street: 338 Howard Street		
Town: Brockton	State: MA	Zip: 02320	County: Plymouth

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

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

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

1. site identification # assigned by the state of NH or MA:
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 General Permit? Y N , if Y, number:
2. Final Dewatering General Permit? Y N , if Y, number:
3. EPA Construction General Permit? Y N , if Y, number:
4. Individual NPDES permit? Y N , if Y, number:
5. any other water quality related individual or general permit? Y N , if Y, number:

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

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

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

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites <input type="checkbox"/> B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites <input type="checkbox"/> C. Hydrostatic Testing of Pipelines and Tanks <input type="checkbox"/> D. Long-Term Remediation of Contaminated Sumps and Dikes <input type="checkbox"/> E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) <input type="checkbox"/>
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2. Discharge information. Please provide information about the discharge, (attaching additional sheets as necessary) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:	
Temporary construction dewatering of groundwater during the excavation of the building foundation	
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, ft ³ /s)? Max. flow <input type="text" value="0.223"/> Is maximum flow a design value ? Y <input type="radio"/> N <input checked="" type="radio"/> Average flow (include units) <input type="text" value="0.089 ft3/s"/> Is average flow a design value or estimate? <input type="text" value="estimate"/>
3) Latitude and longitude of each discharge within 100 feet:	
pt.1: lat <input type="text" value="42.35"/> long <input type="text" value="-71.04"/>	pt.2: lat. <input type="text"/> long. <input type="text"/> ;
pt.3: lat <input type="text"/> long <input type="text"/>	pt.4: lat. <input type="text"/> long. <input type="text"/> ;
pt.5: lat <input type="text"/> long <input type="text"/>	pt.6: lat. <input type="text"/> long. <input type="text"/> ;
pt.7: lat <input type="text"/> long <input type="text"/>	pt.8: lat. <input type="text"/> long. <input type="text"/> ; etc.
4) If hydrostatic testing, total volume of the discharge (gals): <input type="text" value="N/A"/>	5) Is the discharge intermittent <input checked="" type="radio"/> or seasonal <input type="radio"/> ? Is discharge ongoing? Y <input type="radio"/> N <input type="radio"/>
c) Expected dates of discharge (mm/dd/yy): start <input type="text" value="03/01/2012"/> end <input type="text" value="03/01/2013"/>	
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). <input type="text" value="See attached Figures 2 and 3"/>	

3. Contaminant information.

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

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
1. Total Suspended Solids (TSS)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	30 2540D		18	0.00983	18	0.004
2. Total Residual Chlorine (TRC)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	30 4500CL-D	20 ug/l	ND		ND	
3. Total Petroleum Hydrocarbons (TPH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	74 1664A	4 mg/l	ND		ND	
4. Cyanide (CN)	57125	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	30 4500CN-CE	5 ug/l	7	0.00382	7	0.0015
5. Benzene (B)	71432	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	5 ug/l	ND		ND	
6. Toluene (T)	108883	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	0.75 ug/l	ND		ND	
7. Ethylbenzene (E)	100414	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	0.5 ug/l	ND		ND	
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	1 ug/l	ND		ND	
9. Total BTEX ²	n/a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624		ND		ND	
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC 504.1	0.01 ug/l	ND		ND	
11. Methyl-tert-Butyl Ether (MtBE)	1634044	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	20 ug/l	ND		ND	
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	100 ug/l	ND		ND	

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

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

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

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
13. tert-Amyl Methyl Ether (TAME)	9940508	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	20 ug/l	ND		ND	
14. Naphthalene	91203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	0.2 ug/l	ND		ND	
15. Carbon Tetrachloride	56235	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	1 ug/l	ND		ND	
16. 1,2 Dichlorobenzene (o-DCB)	95501	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	5 ug/l	ND		ND	
17. 1,3 Dichlorobenzene (m-DCB)	541731	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	5 ug/l	ND		ND	
18. 1,4 Dichlorobenzene (p-DCB)	106467	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	5 ug/l	ND		ND	
18a. Total dichlorobenzene		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624		ND		ND	
19. 1,1 Dichloroethane (DCA)	75343	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	1.5 ug/l	ND		ND	
20. 1,2 Dichloroethane (DCA)	107062	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	1.5 ug/l	ND		ND	
21. 1,1 Dichloroethene (DCE)	75354	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	1 ug/l	ND		ND	
22. cis-1,2 Dichloroethene (DCE)	156592	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	1 ug/l	1.6	0.00087	1.6	0.0003
23. Methylene Chloride	75092	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	5 ug/l	ND		ND	
24. Tetrachloroethene (PCE)	127184	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	1.5 ug/l	ND		ND	
25. 1,1,1 Trichloro-ethane (TCA)	71556	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	2 ug/l	ND		ND	
26. 1,1,2 Trichloro-ethane (TCA)	79005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	1.5 ug/l	ND		ND	
27. Trichloroethene (TCE)	79016	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	1 ug/l	ND		ND	

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
28. Vinyl Chloride (Chloroethene)	75014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	2 ug/l	ND		ND	
29. Acetone	67641	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	10 ug/l	ND		ND	
30. 1,4 Dioxane	123911	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 624	2000 ug/l	ND		ND	
31. Total Phenols	108952	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	420.1	30 ug/l	ND		ND	
32. Pentachlorophenol (PCP)	87865	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270- +	0.8 ug/l	ND		ND	
33. Total Phthalates (Phthalate esters) ⁴		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270C +		ND		ND	
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270C +	2 ug/l	ND		ND	
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270C +		ND		ND	
a. Benzo(a) Anthracene	56553	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
b. Benzo(a) Pyrene	50328	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
c. Benzo(b)Fluoranthene	205992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270- +	0.2 ug/l	ND		ND	
d. Benzo(k)Fluoranthene	207089	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270- +	0.2 ug/l	ND		ND	
e. Chrysene	21801	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
f. Dibenzo(a,h)anthracene	53703	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270- +	0.2 ug/l	ND		ND	
g. Indeno(1,2,3-cd) Pyrene	193395	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270- +	0.2 ug/l	ND		ND	
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270- +		ND		ND	

⁴The sum of individual phthalate compounds.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
h. Acenaphthene	83329	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
i. Acenaphthylene	208968	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
j. Anthracene	120127	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
k. Benzo(ghi) Perylene	191242	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
l. Fluoranthene	206440	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
m. Fluorene	86737	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
n. Naphthalene	91203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
o. Phenanthrene	85018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
p. Pyrene	129000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC/MS 8270-SIM	0.2 ug/l	ND		ND	
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	GC 608	0.25 ug/l	ND		ND	
38. Chloride	16887006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1							
39. Antimony	7440360	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	1 ug/l	1.8	0.00098	1.8	0.0004
40. Arsenic	7440382	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	6020	1 ug/l	50.8	0.02773	50.8	0.0111
41. Cadmium	7440439	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	0.5 ug/l	ND		ND	
42. Chromium III (trivalent)	16065831	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	10 ug/l	ND		ND	
43. Chromium VI (hexavalent)	18540299	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	3500CR-D	10 ug/l	ND		ND	
44. Copper	7440508	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	1	3.1	0.00169	3.1	0.0007
45. Lead	7439921	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	0.5 ug/l	0.8	0.00044	0.8	0.0002
46. Mercury	7439976	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	0.2 ug/l	ND		ND	
47. Nickel	7440020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	6020	1 ug/l	9.8	0.00535	9.8	0.0021
48. Selenium	7782492	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	1 ug/l	ND		ND	
49. Silver	7440224	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	0.5 ug/l	ND		ND	
50. Zinc	7440666	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	10 ug/l	73.1	0.0399	73.1	0.016
51. Iron	7439896	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020		12.7	0.00693	12.7	0.0028
Other (describe):		<input type="checkbox"/>	<input type="checkbox"/>								

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (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)
		<input type="checkbox"/>	<input type="checkbox"/>								
		<input type="checkbox"/>	<input type="checkbox"/>								

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

<p><i>Step 1:</i> Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y <input checked="" type="radio"/> N <input type="radio"/></p>	<p>If yes, which metals? Arsenic, Nickel</p>										
<p><i>Step 2:</i> For any metals which exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals?</p> <table border="1" style="width: 100%;"> <tr> <td>Metal: Arsenic</td> <td>DF: 0</td> </tr> <tr> <td>Metal: Nickel</td> <td>DF: 0</td> </tr> <tr> <td>Metal: _____</td> <td>DF: 0</td> </tr> <tr> <td>Metal: _____</td> <td>DF: 0</td> </tr> <tr> <td>Etc.</td> <td></td> </tr> </table>	Metal: Arsenic	DF: 0	Metal: Nickel	DF: 0	Metal: _____	DF: 0	Metal: _____	DF: 0	Etc.		<p>Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y <input checked="" type="radio"/> N <input type="radio"/> If Y, list which metals: Arsenic, Nickel</p>
Metal: Arsenic	DF: 0										
Metal: Nickel	DF: 0										
Metal: _____	DF: 0										
Metal: _____	DF: 0										
Etc.											

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

<p>a) A description of the treatment system, including a schematic of the proposed or existing treatment system: One 10,000-gallon or two 5,000 gallon capacity settling tanks, with bag filters and cyanide, arsenic, nickel treatment system, such as an ion exchange, precipitation, coagulation and flocculation, adsorption and absorption systems, in series.</p>						
<p>b) Identify each applicable treatment unit (check all that apply):</p>	Frac. tank <input checked="" type="checkbox"/>	Air stripper <input type="checkbox"/>	Oil/water separator <input type="checkbox"/>	Equalization tanks <input type="checkbox"/>	Bag filter <input checked="" type="checkbox"/>	GAC filter <input type="checkbox"/>
	Chlorination <input type="checkbox"/>	De-chlorination <input type="checkbox"/>	Other (please describe): Cyanide, arsenic and nickel by ion exchange, precipitation, coagulation and flocculation, adsorption or absorption.			

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 gpm Maximum flow rate of treatment system gpm
 Design flow rate of treatment system gpm

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

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

a) Identify the discharge pathway:	Direct to receiving water <input type="checkbox"/>	Within facility (sewer) <input type="checkbox"/>	Storm drain <input checked="" type="checkbox"/>	Wetlands <input type="checkbox"/>	Other (describe): <input style="width: 90%; height: 20px;" type="text"/>
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b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:
 1. For multiple discharges, number the discharges sequentially.
 2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water
 The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

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

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

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y N If yes, for which pollutant(s)?
Pathogens, Priority Pollutants
 Is there a final TMDL? Y N If yes, for which pollutant(s)?

6. ESA and NHPA Eligibility.

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

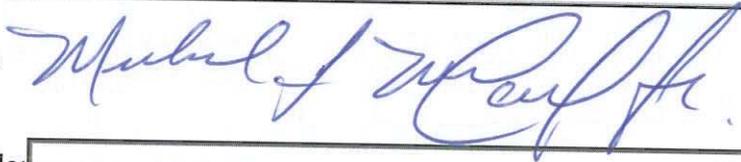
<p>a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit? A <input checked="" type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/></p> <p>b) If you selected Criterion D or F, has consultation with the federal services been completed? Y <input type="radio"/> N <input type="radio"/> Underway <input type="radio"/></p> <p>c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is “not likely to adversely affect” listed species or critical habitat received? Y <input type="radio"/> N <input type="radio"/></p> <p>d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.</p>
<p>e) Using the instructions in Appendix VII, under which criterion listed in Part II.C are you eligible for coverage under this general permit? 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/></p> <p>f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including any terms and conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the RGP.</p>

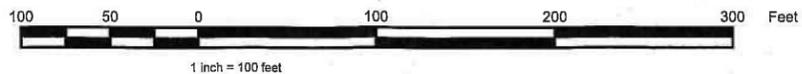
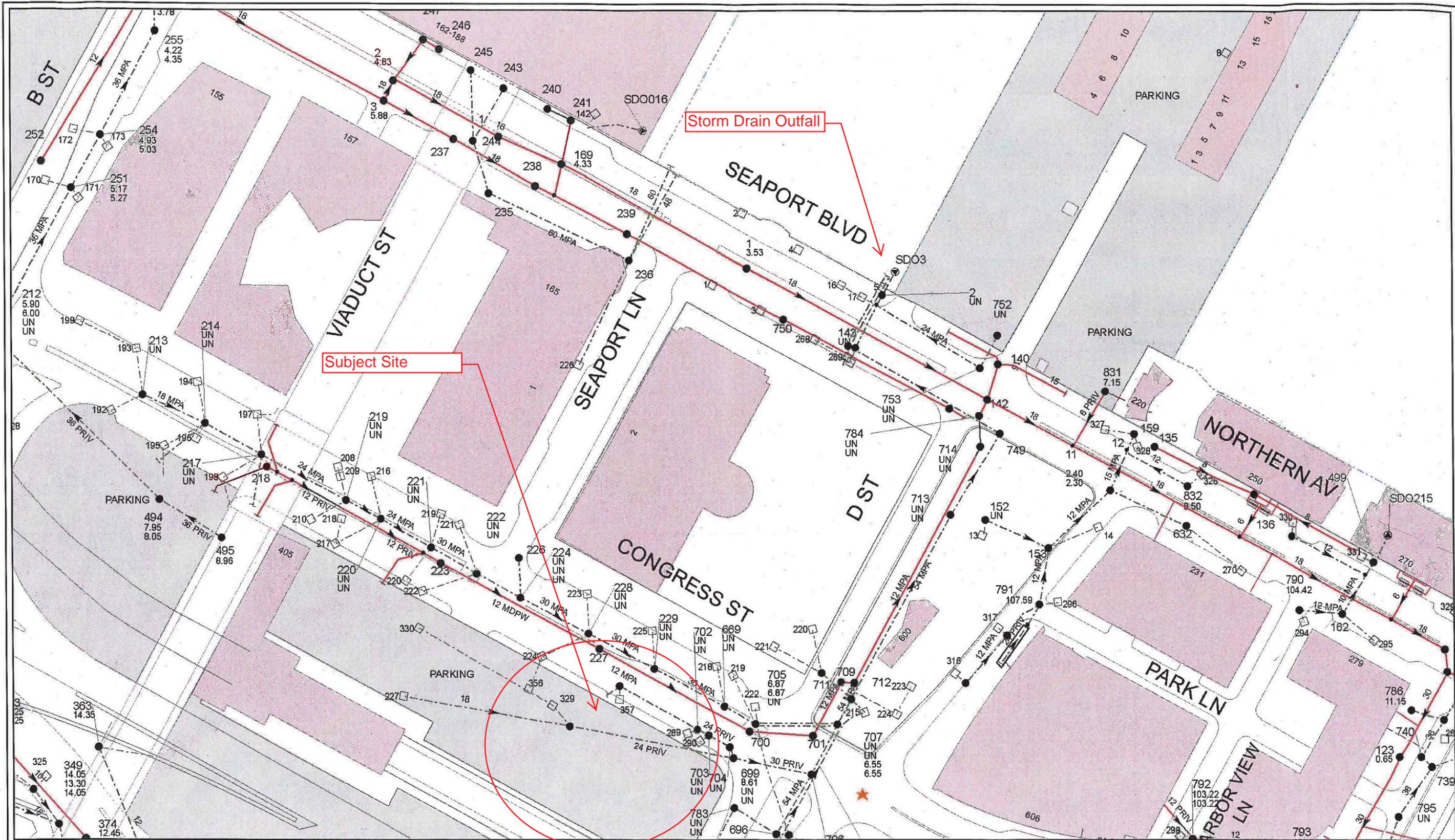
7. Supplemental information.

<p>Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.</p>
<p>See attached report.</p>

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:	Waterside Place
Operator signature:	
Printed Name & Title:	Mr. Michael McCarthy
Date:	February 21, 2012





Enter your transmittal number

X250563
Transmittal Number

Your unique Transmittal Number can be accessed online: <http://mass.gov/dep/service/online/trasmfrm.shtml>

Massachusetts Department of Environmental Protection Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

A. Permit Information

X250563

Remedial General Permit

1. Permit Code: 7 or 8 character code from permit instructions

2. Name of Permit Category

Temporary Construction Dewatering

3. Type of Project or Activity

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

B. Applicant Information – Firm or Individual

Waterside Development Group JV, LLC

1. Name of Firm - Or, if party needing this approval is an individual enter name below:

Suominen

Hank

2. Last Name of Individual

3. First Name of Individual

4. MI

2 Seaport Lane

5. Street Address

Boston

MA

02110

5084276441

6. City/Town

7. State

8. Zip Code

9. Telephone #

10. Ext. #

3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application. **Copy 2** must accompany your fee payment. **Copy 3** should be retained for your records

11. Contact Person

12. e-mail address (optional)

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

C. Facility, Site or Individual Requiring Approval

Waterside Place

1. Name of Facility, Site Or Individual

505 Congress Street

2. Street Address

Boston

MA

02110

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

8. DEP Facility Number (if Known)

9. Federal I.D. Number (if Known)

10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)*

McPhail Associates, Inc.

1. Name of Firm Or Individual

2269 Massachusetts Avenue

2. Address

Cambridge

MA

02140

6178681420

3. City/Town

4. State

5. Zip Code

6. Telephone #

7. Ext. #

Mr. Ambrose Donovan

8. Contact Person

9. LSP Number (BWSC Permits only)

* Note: For BWSC Permits, enter the LSP.

E. Permit - Project Coordination

1. Is this project subject to MEPA review? yes no
If yes, enter the project's EOE file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

F. Amount Due

DEP Use Only

Special Provisions:

1. Fee Exempt (city, town or municipal housing authority)(state agency if fee is \$100 or less).
There are no fee exemptions for BWSC permits, regardless of applicant status.
2. Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
3. Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
4. Homeowner (according to 310 CMR 4.02).

Permit No:

Rec'd Date:

Reviewer:

30139

385.00

2/29/2012

Check Number

Dollar Amount

Date

30139

MCPHAIL ASSOCIATES, LLC.
2269 MASSACHUSETTS AVENUE
CAMBRIDGE, MA 02140

Cambridge Trust Company⁰¹
CAMBRIDGE, MASS
53-59-113

2/29/2012

PAY
TO THE
ORDER OF

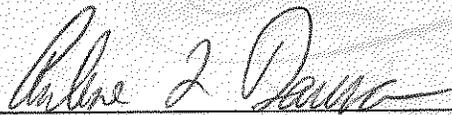
Commonwealth of Mass.

\$ **385.00

Three Hundred Eighty-Five and 00/100*****

DOLLARS

Commonwealth of Mass.



AUTHORIZED SIGNATURE

Security features. Details on back



MEMO

⑈030139⑈ ⑆011300595⑆ ⑈50552801⑈

MCPHAIL ASSOCIATES, LLC.

Commonwealth of Mass.

4258.9.01

2/29/2012

30139

385.00



APPENDIX C

RESULTS OF GROUNDWATER ANALYSIS

On December 2, 2011, a representative of McPhail Associates, Inc. obtained a groundwater sample from groundwater monitoring well M-2(OW) located on the Waterside Place parcel. The groundwater sample did not exhibit the presence of a sheen or other visual or olfactory evidence of petroleum contamination. The sample was sent to a certified laboratory and chemically analyzed for the presence of compounds required under the RGP application, including pH, total suspended solids (TSS), total residual chlorine, total petroleum hydrocarbons (TPH), cyanide, volatile organic compounds (VOCs) including total benzene, toluene, ethylbenzene and xylenes (BTEX), poly-aromatic hydrocarbons (PAHs) and semi-volatile organic compounds (SVOCs) including total phenols and total phthalates, pesticides and PCBs, and total recoverable metals. The location of the groundwater monitoring well is shown on **Figure 2**. The results of the December 2011 analysis are summarized in **Table 1**.

1. **pH:** The tested sample exhibited a level of 7.5 Standard Units (S.U.). The recommended range for pH discharge is 6.5 to 8.5 S.U.
2. **TSS:** Both of the tested sample exhibited a concentration of TSS at 18 milligrams per liter (mg/l). The limit established by the US EPA for discharge into surface water is 30 mg/l. It should be noted that groundwater will be pre-treated by passing the influent through either one 10,000 gallon or two 5,000 gallon settling tanks and a bag filter prior to discharge in order to reduce the concentration of TSS in the effluent.
3. **VOCs:** The groundwater sample indicated the presence of cis-1,2-Dichloroethene at a concentration of 1.6 ug/l which is well below the RGP effluent limit of 70 ug/l. The remainder of the chemical testing indicated no detected levels of any of the target VOCs, including BTEX.
4. **TPH:** Chemical analysis of the groundwater samples indicated no detectable levels of TPH.
5. **PAHs and SVOCs:** The results of the analysis did not indicated the presence of detectable levels of either the Group I PAHs, Group II PAHs, total phenols, no bis(2-ethylhexyl)phthalate and total phthalates.
6. **PCBs:** The laboratory results indicated no detectable levels of PCBs.
7. **Cyanide:** Cyanide was detected at a concentration of 7 ug/l which exceeds the RGP effluent limit of 1 ug/l. As a result of the exceeded level, a system designed to treat cyanide contaminated water which may include but is not limited to ion exchange, precipitation, coagulation and flocculation, adsorption and/or absorption will be implemented prior to discharge.



8. **Total Metals:** The laboratory reported no detectable levels of cadmium, chromium III, chromium VI, mercury, selenium, and silver. Levels of antimony, copper, lead, zinc and iron were reported at maximum concentrations of 1.8 ug/l, 3.1 ug/l, 0.8 ug/l, 73.1 ug/l, and 12.7 ug/l, respectively, which are below RGP permit limits of 5.6 ug/l, 3.7 ug/l, 8.5 ug/l, 85.6 ug/l and 1,000 ug/l for discharge to salt water, respectively.

Results for arsenic and nickel were 50.8 micrograms per liter (ug/l) and 9.8 ug/l, respectively. The RGP limits for these compounds are 36 ug/l and 8.2 ug/l respectively. Therefore, levels of arsenic and nickel are in excess of the RGP limits for discharge into salt water. As a result of the exceeded levels, a system designed to treat arsenic and nickel contaminated water which may include but is not limited to ion exchange, precipitation, coagulation and flocculation, adsorption and/or absorption will be implemented prior to discharge.

Table 1
Analytical Results-Groundwater
(RGP Application)

Waterside Place
South Boston, MA
Job # 4258

LOCATION		RCGW-2-08	RGP Limits	Units	M-2 (OW)
SAMPLING DATE					02-DEC-11
LAB SAMPLE ID					L1120064-01
1	Total Suspended Solids		30	mg/l	18
	pH (H)		6.5-8.3	SU	7.5
2	Total Residual Chlorine (saltwater)		0.0075	mg/l	ND(0.02)
3	TPH	5	5	mg/l	ND(4)
4	Total Cyanide (saltwater)	0.03	0.001	mg/l	0.007
5	Benzene	2	Total BTEX	mg/l	ND(0.005)
6	Toluene	40	Total BTEX	mg/l	ND(0.00075)
7	Ethylbenzene	5	Total BTEX	mg/l	ND(0.0005)
8	Xylene (Total)	5	Total BTEX	mg/l	ND(0.001)
9	Total BTEX		100	mg/l	ND
10	1,2-Dibromoethane	0.002	0.00005	mg/l	ND(0.00001)
11	Methyl-tert-Butyl Ether (MTBE)	5	0.07	mg/l	ND(0.02)
12	tert-Butyl Alcohol (TBA) (Tertiary Butanol)		Monitor Only	mg/l	ND(0.1)
13	tert-Amyl Methyl Ether (TAME)		Monitor Only	mg/l	ND(0.02)
14	Naphthalene (SVOC)	1	0.02	mg/l	ND(0.0002)
15	Carbon tetrachloride	0.002	0.0044	mg/l	ND(0.001)
16	1,2-Dichlorobenzene (o-DCB)	2	0.6	mg/l	ND(0.005)
17	1,3-Dichlorobenzene (m-DCB)	2	0.32	mg/l	ND(0.005)
18	1,4-Dichlorobenzene (p-DCB)	0.2	0.005	mg/l	ND(0.005)
19	1,1-Dichloroethane (DCA)	1	0.07	mg/l	ND(0.0015)
20	1,2-Dichloroethane	0.005	0.005	mg/l	ND(0.0015)
21	1,1-Dichloroethene	0.08	0.0032	mg/l	ND(0.001)
22	cis-1,2-Dichloroethene	0.1	0.07	mg/l	0.0016
23	Methylene Chloride	10	0.0046	mg/l	ND(0.005)
24	Tetrachloroethene	0.05	0.005	mg/l	ND(0.0015)
25	1,1,1-Trichloroethane	4	0.2	mg/l	ND(0.002)
26	1,1,2-Trichloroethane	0.9	0.005	mg/l	ND(0.0015)
27	Trichloroethene	0.03	0.005	mg/l	ND(0.001)
28	Vinyl chloride	0.002	0.002	mg/l	ND(0.002)
29	Acetone	50	Monitor Only	mg/l	ND(0.01)
30	1,4 Dioxane	6	Monitor Only	mg/l	ND(2)
31	Total Phenolics		0.3	mg/l	ND(0.03)
32	Pentachlorophenol	0.2	0.001	mg/l	ND(0.0008)
33	Total Phthalates (Phthalate esters)		0.003	mg/l	ND(0.005)
34	Bis(2-Ethylhexyl)phthalate	50	0.006	mg/l	ND(0.003)
35	Total Group I PAH		0.01	mg/l	ND
a	Benzo(a)anthracene	1	0.0000038	mg/l	ND(0.0002)
b	Benzo(a)pyrene	0.5	0.0000038	mg/l	ND(0.0002)
c	Benzo(b)fluoranthene	0.4	0.0000038	mg/l	ND(0.0002)
d	Benzo(k)fluoranthene	0.1	0.0000038	mg/l	ND(0.0002)
e	Chrysene	0.07	0.0000038	mg/l	ND(0.0002)
f	Dibenzo(a,h)anthracene	0.04	0.0000038	mg/l	ND(0.0002)
g	Indeno(1,2,3-cd)Pyrene	0.1	0.0000038	mg/l	ND(0.0002)
36	Total Group II PAH		0.01	mg/l	ND
h	Acenaphthene	6	Total Group II PAH	mg/l	ND(0.0002)
i	Acenaphthylene	0.04	Total Group II PAH	mg/l	ND(0.0002)
j	Anthracene	0.03	Total Group II PAH	mg/l	ND(0.0002)
k	Benzo(ghi)perylene	0.02	Total Group II PAH	mg/l	ND(0.0002)
l	Fluoranthene	0.2	Total Group II PAH	mg/l	ND(0.0002)
m	Fluorene	0.04	Total Group II PAH	mg/l	ND(0.0002)
n	Naphthalene	1	0.02	mg/l	ND(0.0002)
o	Phenanthrene	10	Total Group II PAH	mg/l	ND(0.0002)
p	Pyrene	0.02	Total Group II PAH	mg/l	ND(0.0002)
37	Total PCBs		0.00000064	mg/l	ND(0.00025)
38	Chloride		Monitor Only	mg/l	7200
	Total Recoverable Metal Limits				
38	Antimony	8	0.0056	mg/l	0.0018
39	Arsenic (saltwater)	0.9	0.036	mg/l	0.0508
40	Cadmium (saltwater)	0.004	0.0089	mg/l	ND(0.0005)
41	Chromium III (saltwater)	0.3	0.1	mg/l	ND(0.01)
42	Chromium IV, Hexavalent (saltwater)	0.3	0.053	mg/l	ND(0.01)
44	Copper (saltwater)	100	0.0037	mg/l	0.0031
45	Lead (saltwater)	0.01	0.0085	mg/l	0.0008
	Dissolved Lead	0.01		mg/l	-
46	Mercury (saltwater)	0.02	0.0011	mg/l	ND(0.0002)
47	Nickel (saltwater)	0.2	0.0082	mg/l	0.0098
48	Selenium (saltwater)	0.1	0.071	mg/l	ND(0.001)
49	Silver (saltwater)	0.007	0.0022	mg/l	ND(0.0005)
50	Zinc (saltwater)	0.9	0.0856	mg/l	0.0731
51	Iron		1	mg/l	0.0127

ND()-not detected above laboratory method detection limits
Blank-not analyzed

Bold-RCGW-2 exceedance
Shaded-exceedance of RGP Limit

McPhail Associates, LLC

H:\EXCEL\JOBS\4258\RGP\RGP limits.xls
Page 1 of 1



ANALYTICAL REPORT

Lab Number:	L1120064
Client:	McPhail Associates 2269 Massachusetts Avenue Cambridge, MA 02140
ATTN:	Ambrose Donovan
Phone:	(617) 868-1420
Project Name:	WATERSIDE PLACE HOUSING
Project Number:	4258
Report Date:	12/12/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1120064-01	M-2 (OW)	SOUTH BOSTON, MA	12/02/11 13:00

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Metals

The WG506888-4 MS recoveries, performed on L1120064-01, are below the acceptance criteria for Antimony (79%), Cadmium (79%), Copper (78%), Selenium (57%), Silver (77%), and Zinc (69%). A post digestion spike was performed with acceptable recoveries for Antimony (105%), Cadmium (84%), Copper (86%), Selenium (83%), Silver (95%), and Zinc (100%).

The WG506888-3 Laboratory Duplicate RPDs, performed on L1120064-01, are above the acceptance criteria for Antimony (53%), Lead (23%), and Nickel (22%); however, the sample and duplicate results are less than five times the reporting limits. Therefore, the RPDs are valid.

Chloride

L1120064-01 has an elevated detection limit due to the dilution required to quantitate the result within the calibration range.

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Case Narrative (continued)

Cyanide, Total

The WG506223-3 Laboratory Duplicate RPD (38%), performed on L1120064-01, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 12/12/11

ORGANICS

VOLATILES

Project Name: WATERSIDE PLACE HOUSING**Lab Number:** L1120064**Project Number:** 4258**Report Date:** 12/12/11**SAMPLE RESULTS**

Lab ID: L1120064-01
 Client ID: M-2 (OW)
 Sample Location: SOUTH BOSTON, MA
 Matrix: Water
 Analytical Method: 1,8260B
 Analytical Date: 12/07/11 11:14
 Analyst: PD

Date Collected: 12/02/11 13:00
 Date Received: 12/02/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	3.0	--	1
1,1-Dichloroethane	ND		ug/l	0.75	--	1
Carbon tetrachloride	ND		ug/l	0.50	--	1
1,1,2-Trichloroethane	ND		ug/l	0.75	--	1
Tetrachloroethene	ND		ug/l	0.50	--	1
1,2-Dichloroethane	ND		ug/l	0.50	--	1
1,1,1-Trichloroethane	ND		ug/l	0.50	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	0.75	--	1
Ethylbenzene	ND		ug/l	0.50	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
1,1-Dichloroethene	ND		ug/l	0.50	--	1
Trichloroethene	ND		ug/l	0.50	--	1
1,2-Dichlorobenzene	ND		ug/l	2.5	--	1
1,3-Dichlorobenzene	ND		ug/l	2.5	--	1
1,4-Dichlorobenzene	ND		ug/l	2.5	--	1
Methyl tert butyl ether	ND		ug/l	1.0	--	1
p/m-Xylene	ND		ug/l	1.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	--	1
Acetone	ND		ug/l	5.0	--	1
Naphthalene	ND		ug/l	2.5	--	1
Tert-Butyl Alcohol	ND		ug/l	10	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	94		70-130

Project Name: WATERSIDE PLACE HOUSING**Lab Number:** L1120064**Project Number:** 4258**Report Date:** 12/12/11**SAMPLE RESULTS**

Lab ID: L1120064-01

Date Collected: 12/02/11 13:00

Client ID: M-2 (OW)

Date Received: 12/02/11

Sample Location: SOUTH BOSTON, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 14,504.1

Extraction Date: 12/05/11 08:40

Analytical Date: 12/05/11 12:06

Analyst: SH

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Pesticides by GC - Westborough Lab						
1,2-Dibromoethane	ND		ug/l	0.010	--	1

Project Name: WATERSIDE PLACE HOUSING**Lab Number:** L1120064**Project Number:** 4258**Report Date:** 12/12/11**Method Blank Analysis
Batch Quality Control**

Analytical Method: 14,504.1

Analytical Date: 12/05/11 10:48

Analyst: SH

Extraction Date: 12/05/11 08:40

Parameter	Result	Qualifier	Units	RL	MDL
Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG505998-1					
1,2-Dibromoethane	ND		ug/l	0.010	--

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 12/07/11 10:05
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG506589-3					
Methylene chloride	ND		ug/l	3.0	--
1,1-Dichloroethane	ND		ug/l	0.75	--
Carbon tetrachloride	ND		ug/l	0.50	--
1,1,2-Trichloroethane	ND		ug/l	0.75	--
Tetrachloroethene	ND		ug/l	0.50	--
1,2-Dichloroethane	ND		ug/l	0.50	--
1,1,1-Trichloroethane	ND		ug/l	0.50	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	0.75	--
Ethylbenzene	ND		ug/l	0.50	--
Vinyl chloride	ND		ug/l	1.0	--
1,1-Dichloroethene	ND		ug/l	0.50	--
Trichloroethene	ND		ug/l	0.50	--
1,2-Dichlorobenzene	ND		ug/l	2.5	--
1,3-Dichlorobenzene	ND		ug/l	2.5	--
1,4-Dichlorobenzene	ND		ug/l	2.5	--
Methyl tert butyl ether	ND		ug/l	1.0	--
p/m-Xylene	ND		ug/l	1.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	0.50	--
Acetone	ND		ug/l	5.0	--
Naphthalene	ND		ug/l	2.5	--
Tert-Butyl Alcohol	ND		ug/l	10	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--

Project Name: WATERSIDE PLACE HOUSING**Lab Number:** L1120064**Project Number:** 4258**Report Date:** 12/12/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
 Analytical Date: 12/07/11 10:05
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
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Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG506589-3

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING

Project Number: 4258

Lab Number: L1120064

Report Date: 12/12/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG505998-2								
1,2-Dibromoethane	117		-		70-130	-		20
1,2-Dibromo-3-chloropropane	109		-		70-130	-		20

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG506589-1 WG506589-2								
Chlorobenzene	104		100		75-130	4		25
Benzene	106		104		76-127	2		25
Toluene	105		103		76-125	2		25
1,1-Dichloroethene	103		98		61-145	5		25
Trichloroethene	106		104		71-120	2		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG506589-1 WG506589-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		94		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	97		99		70-130
Dibromofluoromethane	98		97		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING

Lab Number: L1120064

Project Number: 4258

Report Date: 12/12/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Pesticides by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG505998-3 QC Sample: L1119775-01 Client ID: MS Sample												
1,2-Dibromoethane	ND	0.256	0.305	119		-	-		70-130	-		20
1,2-Dibromo-3-chloropropane	ND	0.256	0.280	109		-	-		70-130	-		20

SEMIVOLATILES

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

SAMPLE RESULTS

Lab ID: L1120064-01
 Client ID: M-2 (OW)
 Sample Location: SOUTH BOSTON, MA
 Matrix: Water
 Analytical Method: 1,8270C
 Analytical Date: 12/06/11 23:30
 Analyst: JB

Date Collected: 12/02/11 13:00
 Date Received: 12/02/11
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 12/04/11 19:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	26		21-120
Phenol-d6	19		10-120
Nitrobenzene-d5	45		23-120
2-Fluorobiphenyl	47		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	65		41-149

Project Name: WATERSIDE PLACE HOUSING**Lab Number:** L1120064**Project Number:** 4258**Report Date:** 12/12/11**SAMPLE RESULTS**

Lab ID: L1120064-01
 Client ID: M-2 (OW)
 Sample Location: SOUTH BOSTON, MA
 Matrix: Water
 Analytical Method: 1,8270C-SIM
 Analytical Date: 12/06/11 12:32
 Analyst: JC

Date Collected: 12/02/11 13:00
 Date Received: 12/02/11
 Field Prep: Not Specified
 Extraction Method: EPA 3510C
 Extraction Date: 12/04/11 19:05

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	--	1
Fluoranthene	ND		ug/l	0.20	--	1
Naphthalene	ND		ug/l	0.20	--	1
Benzo(a)anthracene	ND		ug/l	0.20	--	1
Benzo(a)pyrene	ND		ug/l	0.20	--	1
Benzo(b)fluoranthene	ND		ug/l	0.20	--	1
Benzo(k)fluoranthene	ND		ug/l	0.20	--	1
Chrysene	ND		ug/l	0.20	--	1
Acenaphthylene	ND		ug/l	0.20	--	1
Anthracene	ND		ug/l	0.20	--	1
Benzo(ghi)perylene	ND		ug/l	0.20	--	1
Fluorene	ND		ug/l	0.20	--	1
Phenanthrene	ND		ug/l	0.20	--	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	--	1
Pyrene	ND		ug/l	0.20	--	1
Pentachlorophenol	ND		ug/l	0.80	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	27		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	49		15-120
2,4,6-Tribromophenol	70		10-120
4-Terphenyl-d14	66		41-149

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C
Analytical Date: 12/05/11 11:09
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 12/04/11 19:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG505989-1					
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--
Dimethyl phthalate	ND		ug/l	5.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	26		21-120
Phenol-d6	18		10-120
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	52		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	73		41-149

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270C-SIM
Analytical Date: 12/05/11 17:15
Analyst: JC

Extraction Method: EPA 3510C
Extraction Date: 12/04/11 19:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG505990-1					
Acenaphthene	ND		ug/l	0.20	--
Fluoranthene	ND		ug/l	0.20	--
Naphthalene	ND		ug/l	0.20	--
Benzo(a)anthracene	ND		ug/l	0.20	--
Benzo(a)pyrene	ND		ug/l	0.20	--
Benzo(b)fluoranthene	ND		ug/l	0.20	--
Benzo(k)fluoranthene	ND		ug/l	0.20	--
Chrysene	ND		ug/l	0.20	--
Acenaphthylene	ND		ug/l	0.20	--
Anthracene	ND		ug/l	0.20	--
Benzo(ghi)perylene	ND		ug/l	0.20	--
Fluorene	ND		ug/l	0.20	--
Phenanthrene	ND		ug/l	0.20	--
Dibenzo(a,h)anthracene	ND		ug/l	0.20	--
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.20	--
Pyrene	ND		ug/l	0.20	--
Pentachlorophenol	ND		ug/l	0.80	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	21		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	58		15-120
2,4,6-Tribromophenol	80		10-120
4-Terphenyl-d14	77		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING

Lab Number: L1120064

Project Number: 4258

Report Date: 12/12/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG505989-2 WG505989-3								
Acenaphthene	80		74		37-111	8		30
1,2,4-Trichlorobenzene	64		65		39-98	2		30
2-Chloronaphthalene	74		71		40-140	4		30
1,2-Dichlorobenzene	62		63		40-140	2		30
1,4-Dichlorobenzene	60		60		36-97	0		30
2,4-Dinitrotoluene	86		82		24-96	5		30
2,6-Dinitrotoluene	90		85		40-140	6		30
Fluoranthene	89		87		40-140	2		30
4-Chlorophenyl phenyl ether	75		71		40-140	5		30
n-Nitrosodi-n-propylamine	77		73		41-116	5		30
Butyl benzyl phthalate	99		96		40-140	3		30
Anthracene	85		82		40-140	4		30
Pyrene	88		86		26-127	2		30
P-Chloro-M-Cresol	86		80		23-97	7		30
2-Chlorophenol	69		67		27-123	3		30
2-Nitrophenol	72		70		30-130	3		30
4-Nitrophenol	51		44		10-80	15		30
2,4-Dinitrophenol	71		74		20-130	4		30
Pentachlorophenol	96		87		9-103	10		30
Phenol	36		34		12-110	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING

Lab Number: L1120064

Project Number: 4258

Report Date: 12/12/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG505989-2 WG505989-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	46		42		21-120
Phenol-d6	35		33		10-120
Nitrobenzene-d5	73		68		23-120
2-Fluorobiphenyl	80		74		15-120
2,4,6-Tribromophenol	87		84		10-120
4-Terphenyl-d14	90		97		41-149

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG505990-2 WG505990-3

Acenaphthene	67		75		37-111	11	40
2-Chloronaphthalene	89		104		40-140	16	40
Fluoranthene	94		101		40-140	7	40
Anthracene	86		91		40-140	6	40
Pyrene	86		93		26-127	8	40
Pentachlorophenol	90		97		9-103	7	40

Lab Control Sample Analysis Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG505990-2 WG505990-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	42		43		21-120
Phenol-d6	29		30		10-120
Nitrobenzene-d5	72		79		23-120
2-Fluorobiphenyl	73		79		15-120
2,4,6-Tribromophenol	112		116		10-120
4-Terphenyl-d14	85		89		41-149

PCBS

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

SAMPLE RESULTS

Lab ID: L1120064-01
 Client ID: M-2 (OW)
 Sample Location: SOUTH BOSTON, MA
 Matrix: Water
 Analytical Method: 5,608
 Analytical Date: 12/06/11 02:28
 Analyst: SH

Date Collected: 12/02/11 13:00
 Date Received: 12/02/11
 Field Prep: Not Specified
 Extraction Method: EPA 608
 Extraction Date: 12/05/11 14:41
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 12/05/11
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 12/05/11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Polychlorinated Biphenyls by GC - Westborough Lab						
Aroclor 1016	ND		ug/l	0.259	--	1
Aroclor 1221	ND		ug/l	0.259	--	1
Aroclor 1232	ND		ug/l	0.259	--	1
Aroclor 1242	ND		ug/l	0.259	--	1
Aroclor 1248	ND		ug/l	0.259	--	1
Aroclor 1254	ND		ug/l	0.259	--	1
Aroclor 1260	ND		ug/l	0.259	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	89		30-150	A

Project Name: WATERSIDE PLACE HOUSING**Lab Number:** L1120064**Project Number:** 4258**Report Date:** 12/12/11

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 5,608
 Analytical Date: 12/06/11 01:38
 Analyst: SH

Extraction Method: EPA 608
 Extraction Date: 12/05/11 14:41
 Cleanup Method1: EPA 3665A
 Cleanup Date1: 12/05/11
 Cleanup Method2: EPA 3660B
 Cleanup Date2: 12/05/11

Parameter	Result	Qualifier	Units	RL	MDL
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG506141-1					
Aroclor 1016	ND		ug/l	0.250	--
Aroclor 1221	ND		ug/l	0.250	--
Aroclor 1232	ND		ug/l	0.250	--
Aroclor 1242	ND		ug/l	0.250	--
Aroclor 1248	ND		ug/l	0.250	--
Aroclor 1254	ND		ug/l	0.250	--
Aroclor 1260	ND		ug/l	0.250	--

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	89		30-150	A

Matrix Spike Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506141-3 QC Sample: L1120064-01 Client ID: M-2 (OW)												
Aroclor 1016	ND	2.08	2.08	100		-	-		40-126	-		30
Aroclor 1260	ND	2.08	2.12	102		-	-		40-127	-		30

Surrogate	MS		MSD		Acceptance Criteria	Column
	% Recovery	Qualifier	% Recovery	Qualifier		
2,4,5,6-Tetrachloro-m-xylene	90				30-150	A
Decachlorobiphenyl	90				30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING

Project Number: 4258

Lab Number: L1120064

Report Date: 12/12/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG506141-2								
Aroclor 1016	103		-		40-126	-		30
Aroclor 1260	106		-		40-127	-		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84				30-150	A
Decachlorobiphenyl	100				30-150	A

Lab Duplicate Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING

Project Number: 4258

Lab Number: L1120064

Report Date: 12/12/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506141-4 QC Sample: L1120064-01 Client ID: M-2 (OW)						
Aroclor 1016	ND	ND	ug/l	NC		30
Aroclor 1221	ND	ND	ug/l	NC		30
Aroclor 1232	ND	ND	ug/l	NC		30
Aroclor 1242	ND	ND	ug/l	NC		30
Aroclor 1248	ND	ND	ug/l	NC		30
Aroclor 1254	ND	ND	ug/l	NC		30
Aroclor 1260	ND	ND	ug/l	NC		30

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		88		30-150	A
Decachlorobiphenyl	89		79		30-150	A

METALS

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

SAMPLE RESULTS

Lab ID: L1120064-01
 Client ID: M-2 (OW)
 Sample Location: SOUTH BOSTON, MA
 Matrix: Water

Date Collected: 12/02/11 13:00
 Date Received: 12/02/11
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Antimony, Total	0.0018		mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:37	EPA 3005A	1,6020	SE
Arsenic, Total	0.0508		mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:37	EPA 3005A	1,6020	SE
Cadmium, Total	ND		mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:37	EPA 3005A	1,6020	SE
Chromium, Total	0.0008		mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:37	EPA 3005A	1,6020	SE
Copper, Total	0.0031		mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:37	EPA 3005A	1,6020	SE
Iron, Total	3.0		mg/l	0.05	--	1	12/09/11 08:30	12/09/11 12:28	EPA 3005A	19,200.7	MG
Lead, Total	0.0008		mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:37	EPA 3005A	1,6020	SE
Mercury, Total	ND		mg/l	0.0002	--	1	12/09/11 12:00	12/09/11 19:05	EPA 245.1	3,245.1	JP
Nickel, Total	0.0098		mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:37	EPA 3005A	1,6020	SE
Selenium, Total	ND		mg/l	0.001	--	1	12/08/11 13:01	12/09/11 13:37	EPA 3005A	1,6020	SE
Silver, Total	ND		mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:37	EPA 3005A	1,6020	SE
Zinc, Total	0.0127		mg/l	0.0050	--	1	12/08/11 13:01	12/09/11 13:37	EPA 3005A	1,6020	SE



Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG506888-1									
Antimony, Total	ND	mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:31	1,6020	SE
Arsenic, Total	ND	mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:31	1,6020	SE
Cadmium, Total	ND	mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:31	1,6020	SE
Chromium, Total	ND	mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:31	1,6020	SE
Copper, Total	ND	mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:31	1,6020	SE
Lead, Total	ND	mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:31	1,6020	SE
Nickel, Total	ND	mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:31	1,6020	SE
Selenium, Total	ND	mg/l	0.001	--	1	12/08/11 13:01	12/09/11 13:31	1,6020	SE
Silver, Total	ND	mg/l	0.0005	--	1	12/08/11 13:01	12/09/11 13:31	1,6020	SE
Zinc, Total	ND	mg/l	0.0050	--	1	12/08/11 13:01	12/09/11 13:31	1,6020	SE

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG507052-1									
Iron, Total	ND	mg/l	0.05	--	1	12/09/11 08:30	12/09/11 12:13	19,200.7	MG

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG507207-1									
Mercury, Total	ND	mg/l	0.0002	--	1	12/09/11 12:00	12/09/11 18:06	3,245.1	JP

Prep Information

Digestion Method: EPA 245.1



Lab Control Sample Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING

Project Number: 4258

Lab Number: L1120064

Report Date: 12/12/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG506888-2								
Antimony, Total	89		-		80-120	-		
Arsenic, Total	80		-		80-120	-		
Cadmium, Total	91		-		80-120	-		
Chromium, Total	90		-		80-120	-		
Copper, Total	89		-		80-120	-		
Lead, Total	83		-		80-120	-		
Nickel, Total	88		-		80-120	-		
Selenium, Total	91		-		80-120	-		
Silver, Total	91		-		80-120	-		
Zinc, Total	87		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG507052-2								
Iron, Total	98		-		85-115	-		
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG507207-2								
Mercury, Total	105		-		85-115	-		

Matrix Spike Analysis Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING

Lab Number: L1120064

Project Number: 4258

Report Date: 12/12/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506888-4 QC Sample: L1120064-01 Client ID: M-2 (OW)												
Antimony, Total	0.0018	0.5	0.3955	79	Q	-	-		80-120	-		20
Arsenic, Total	0.0508	0.12	0.1598	91		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.0404	79	Q	-	-		80-120	-		20
Chromium, Total	0.0008	0.2	0.1629	81		-	-		80-120	-		20
Copper, Total	0.0031	0.25	0.1996	78	Q	-	-		80-120	-		20
Lead, Total	0.0008	0.51	0.4275	84		-	-		80-120	-		20
Nickel, Total	0.0098	0.5	0.4136	81		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.069	57	Q	-	-		80-120	-		20
Silver, Total	ND	0.05	0.0385	77	Q	-	-		80-120	-		20
Zinc, Total	0.0127	0.5	0.3561	69	Q	-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507052-4 QC Sample: L1120342-01 Client ID: MS Sample												
Iron, Total	0.06	1	1.0	94		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507207-4 QC Sample: L1120064-01 Client ID: M-2 (OW)												
Mercury, Total	ND	0.001	0.0007	74		-	-		70-130	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING

Project Number: 4258

Lab Number: L1120064

Report Date: 12/12/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506888-3 QC Sample: L1120064-01 Client ID: M-2 (OW)						
Antimony, Total	0.0018	0.0011	mg/l	53	Q	20
Arsenic, Total	0.0508	0.0546	mg/l	7		20
Cadmium, Total	ND	0.0006	mg/l	NC		20
Chromium, Total	0.0008	0.0008	mg/l	2		20
Copper, Total	0.0031	0.0036	mg/l	15		20
Lead, Total	0.0008	0.0007	mg/l	23	Q	20
Nickel, Total	0.0098	0.0122	mg/l	22	Q	20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.0127	0.0150	mg/l	17		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG507207-3 QC Sample: L1120064-01 Client ID: M-2 (OW)						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

SAMPLE RESULTS

Lab ID: L1120064-01
Client ID: M-2 (OW)
Sample Location: SOUTH BOSTON, MA
Matrix: Water

Date Collected: 12/02/11 13:00
Date Received: 12/02/11
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total Suspended	18		mg/l	5.0	NA	1	-	12/06/11 13:55	30,2540D	DW
Cyanide, Total	0.007		mg/l	0.005	--	1	12/05/11 23:55	12/06/11 14:18	30,4500CN-CE	JO
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	12/03/11 00:30	30,4500CL-D	DE
pH (H)	7.5		SU	-	NA	1	-	12/06/11 01:30	30,4500H+-B	KK
TPH	ND		mg/l	4.00	--	1	12/07/11 15:30	12/08/11 13:45	74,1664A	JO
Phenolics, Total	ND		mg/l	0.03	--	1	12/05/11 17:30	12/05/11 22:02	4,420.1	TP
Chromium, Hexavalent	ND		mg/l	0.010	--	1	12/03/11 03:15	12/03/11 03:51	30,3500CR-D	DE
General Chemistry										
Trivalent Chromium	ND		mg/l	0.01	--	1	-	12/09/11 12:00	30,3500-Cr	ED
Anions by Ion Chromatography - Westborough Lab										
Chloride	7200		mg/l	250	--	500	-	12/06/11 21:12	44,300.0	AU



Project Name: WATERSIDE PLACE HOUSING

Lab Number: L1120064

Project Number: 4258

Report Date: 12/12/11

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG505925-1										
Chlorine, Total Residual	ND		mg/l	0.02	--	1	-	12/03/11 00:30	30,4500CL-D	DE
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG505931-1										
Chromium, Hexavalent	ND		mg/l	0.010	--	1	12/03/11 03:15	12/03/11 03:47	30,3500CR-D	DE
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG506183-1										
Phenolics, Total	ND		mg/l	0.03	--	1	12/05/11 17:30	12/05/11 21:56	4,420.1	TP
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG506223-1										
Cyanide, Total	ND		mg/l	0.005	--	1	12/05/11 23:55	12/06/11 14:15	30,4500CN-CE	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG506261-1										
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	12/06/11 13:55	30,2540D	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG506658-2										
TPH	ND		mg/l	4.00	--	1	12/07/11 15:30	12/08/11 13:45	74,1664A	JO
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG506752-1										
Chloride	ND		mg/l	0.50	--	1	-	12/06/11 17:24	44,300.0	AU

Lab Control Sample Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG505925-2								
Chlorine, Total Residual	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG505931-2								
Chromium, Hexavalent	110		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG506183-2								
Phenolics, Total	99		-		82-111	-		12
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG506202-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG506223-2								
Cyanide, Total	108		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG506658-1								
TPH	90		-		64-132	-		34
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG506752-2								
Chloride	102		-		90-110	-		



Matrix Spike Analysis Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING

Lab Number: L1120064

Project Number: 4258

Report Date: 12/12/11

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG505931-4 QC Sample: L1120064-01 Client ID: M-2 (OW)												
Chromium, Hexavalent	ND	0.1	0.088	88	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506183-3 QC Sample: L1119962-02 Client ID: MS Sample												
Phenolics, Total	ND	0.8	0.77	96	-	-	-	-	77-124	-	-	12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506223-4 QC Sample: L1120064-01 Client ID: M-2 (OW)												
Cyanide, Total	0.007	0.2	0.213	103	-	-	-	-	90-110	-	-	30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506658-3 QC Sample: L1120145-02 Client ID: MS Sample												
TPH	ND	20.6	17.2	84	-	-	-	-	64-132	-	-	34
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506752-3 QC Sample: L1120197-03 Client ID: MS Sample												
Chloride	ND	4	4.0	100	-	-	-	-	40-151	-	-	18

Lab Duplicate Analysis

Batch Quality Control

Project Name: WATERSIDE PLACE HOUSING

Project Number: 4258

Lab Number: L1120064

Report Date: 12/12/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG505925-3 QC Sample: L1120064-01 Client ID: M-2 (OW)						
Chlorine, Total Residual	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG505931-3 QC Sample: L1120064-01 Client ID: M-2 (OW)						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506183-4 QC Sample: L1119962-02 Client ID: DUP Sample						
Phenolics, Total	ND	ND	mg/l	NC		12
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506202-2 QC Sample: L1120038-01 Client ID: DUP Sample						
pH	7.9	7.9	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506223-3 QC Sample: L1120064-01 Client ID: M-2 (OW)						
Cyanide, Total	0.007	0.011	mg/l	38	Q	30
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506261-2 QC Sample: L1120037-01 Client ID: DUP Sample						
Solids, Total Suspended	330	440	mg/l	29		32
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506658-4 QC Sample: L1120145-01 Client ID: DUP Sample						
TPH	ND	ND	mg/l	NC		34
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG506752-4 QC Sample: L1120197-03 Client ID: DUP Sample						
Chloride	ND	ND	mg/l	NC		18

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1120064-01A	Vial Na2S2O3 preserved	A	N/A	2.0	Y	Absent	504(14)
L1120064-01B	Vial Na2S2O3 preserved	A	N/A	2.0	Y	Absent	504(14)
L1120064-01C	Vial HCl preserved	A	N/A	2.0	Y	Absent	8260(14)
L1120064-01D	Vial HCl preserved	A	N/A	2.0	Y	Absent	8260(14)
L1120064-01E	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1120064-01F	Amber 1000ml unpreserved	A	7	2.0	Y	Absent	8270TCL(7),8270TCL-SIM(7)
L1120064-01G	Plastic 500ml HNO3 preserved	A	<2	2.0	Y	Absent	SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),FE-U(180),PB-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180)
L1120064-01H	Plastic 500ml unpreserved	A	7	2.0	Y	Absent	CL-300(28),HEXCR-3500(1),TRC-4500(1),PH-4500(.01)
L1120064-01I	Amber 1000ml Na2S2O3	A	7	2.0	Y	Absent	PCB-608(7)
L1120064-01J	Amber 1000ml Na2S2O3	A	7	2.0	Y	Absent	PCB-608(7)
L1120064-01K	Plastic 250ml NaOH preserved	A	>12	2.0	Y	Absent	TCN-4500(14)
L1120064-01L	Amber 1000ml HCl preserved	A	N/A	2.0	Y	Absent	TPH-1664(28)
L1120064-01M	Amber 1000ml HCl preserved	A	N/A	2.0	Y	Absent	TPH-1664(28)
L1120064-01N	Amber 1000ml H2SO4 preserved	A	<2	2.0	Y	Absent	TPHENOL-420(28)
L1120064-01O	Plastic 1000ml unpreserved	A	7	2.0	Y	Absent	TSS-2540(7)
L1120064-01X	Plastic 250ml HNO3 preserved spl	A	<2	2.0	Y	Absent	SE-6020T(180),CR-6020T(180),NI-6020T(180),CU-6020T(180),ZN-6020T(180),FE-U(180),PB-6020T(180),HG-U(28),AS-6020T(180),SB-6020T(180),AG-6020T(180),CD-6020T(180)
L1120064-02A	Vial Na2S2O3 preserved	A	N/A	2.0	Y	Absent	-
L1120064-02B	Vial Na2S2O3 preserved	A	N/A	2.0	Y	Absent	-
L1120064-02C	Vial HCl preserved	A	N/A	2.0	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: Data Usability Report



Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

Data Qualifiers

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: WATERSIDE PLACE HOUSING
Project Number: 4258

Lab Number: L1120064
Report Date: 12/12/11

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 5 Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).
- 14 Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.
- 19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 74 Method 1664, Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised December 9, 2011 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 8081, 8082, 8330, 8151A, 624, 8260, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B;Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050C, 9065,1311, 1312, 3005A, 3050B. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8330, 8151A, 8015B, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-E, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 6020, 6020A, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3545, 3546, 3550B, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-04-1-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 9010B, 9030B.. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8015B, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. **NELAP Accredited.**
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE.
Organic Parameters: EPA 3510C, 3005A, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 802A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. **NELAP Accredited via NY-DOH.**

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 5220D, 5310C, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8270C, 8330A, 625, 8082, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9010, 9012A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8270C, 8330A/B-prep, 8082, 8081A, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:

EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO₂ in a soil matrix, NO₃ in a soil matrix, SO₄ in a soil matrix.



APPENDIX D

AREAS OF CRITICAL CONCERN, ENDANGERED AND THREATENED SPECIES

Waterside Place is located south of Boston's Inner Harbor within the South Boston Seaport District. Based on a review of Massachusetts Geographic Information Systems DEP Priority Resources' Map, there are no drinking water supplies, no Areas of Critical Environmental Concern, no Sole Source Aquifers, no fish habitats, and no habitats of Species of Special Concern or Threatened or Endangered Species at or within 500-feet of the subject site. No Protected Open Space, wetlands or flood zones are indicated within 500-feet of the subject property.

There are no surface water bodies located within the site boundaries however, Boston's Inner Harbor is located 1,000 feet to the northeast of the subject property.

A review of the most recent federal listing of threatened and endangered species published by the U.S. Fish and Wildlife Service did not identify the presence of threatened and/or endangered species or critical habitats at or in the vicinity of the discharge location and/or discharge outfall. In addition, a review of the Massachusetts Division of Fisheries and Wildlife on-line database did not indicate the presence of threatened or endangered species at the point of discharge and/or the discharge outfall.

Based upon the above, the site is considered criterion A pursuant to Appendix IV of the RGP.

MASSACHUSETTS AREAS OF CRITICAL ENVIRONMENTAL CONCERN

June 2009

Total Approximate Acreage: 268,000 acres

Approximate acreage and designation date follow ACEC names below.

Bourne Back River
(1,850 acres, 1989) Bourne

Canoe River Aquifer and Associated Areas (17,200 acres, 1991) Easton, Foxborough, Mansfield, Norton, Sharon, and Taunton

Cedar Swamp
(1,650 acres, 1975) Hopkinton and Westborough

Central Nashua River Valley
(12,900 acres, 1996) Bolton, Harvard, Lancaster, and Leominster

Cranberry Brook Watershed
(1,050 acres, 1983) Braintree and Holbrook

Ellisville Harbor
(600 acres, 1980) Plymouth

Fowl Meadow and Ponkapoag Bog
(8,350 acres, 1992) Boston, Canton, Dedham, Milton, Norwood, Randolph, Sharon, and Westwood

Golden Hills
(500 acres, 1987) Melrose, Saugus, and Wakefield

Great Marsh (originally designated as Parker River/Essex Bay)
(25,500 acres, 1979) Essex, Gloucester, Ipswich, Newbury, and Rowley

Herring River Watershed
(4,450 acres, 1991) Bourne and Plymouth

Hinsdale Flats Watershed
(14,500 acres, 1992) Dalton, Hinsdale, Peru, and Washington

Hockomock Swamp
(16,950 acres, 1990) Bridgewater, Easton, Norton, Raynham, Taunton, and West Bridgewater

Inner Cape Cod Bay
(2,600 acres, 1985) Brewster, Eastham, and Orleans

Kampoosa Bog Drainage Basin
(1,350 acres, 1995) Lee and Stockbridge

Karner Brook Watershed
(7,000 acres, 1992) Egremont and Mount Washington

Miscoe, Warren, and Whitehall Watersheds
(8,700 acres, 2000) Grafton, Hopkinton, and Upton

Neponset River Estuary
(1,300 acres, 1995) Boston, Milton, and Quincy

Petapawag
(25,680 acres, 2002) Ayer, Dunstable, Groton, Pepperell, and Tyngsborough

Pleasant Bay
(9,240 acres, 1987) Brewster, Chatham, Harwich, and Orleans

Pocasset River
(160 acres, 1980) Bourne

Rumney Marshes
(2,800 acres, 1988) Boston, Lynn, Revere, Saugus, and Winthrop

Sandy Neck Barrier Beach System
(9,130 acres, 1978) Barnstable and Sandwich

Schenob Brook Drainage Basin
(13,750 acres, 1990) Mount Washington and Sheffield

Squannassit
(37,420 acres, 2002) Ashby, Ayer, Groton, Harvard, Lancaster, Lunenburg, Pepperell, Shirley, and Townsend

Three Mile River Watershed
(14,280 acres, 2008) Dighton, Norton, Taunton

Upper Housatonic River
(12,280 acres, 2009) Lee, Lenox, Pittsfield, Washington

Waquoit Bay
(2,580 acres, 1979) Falmouth and Mashpee

Weir River
(950 acres, 1986) Cohasset, Hingham, and Hull

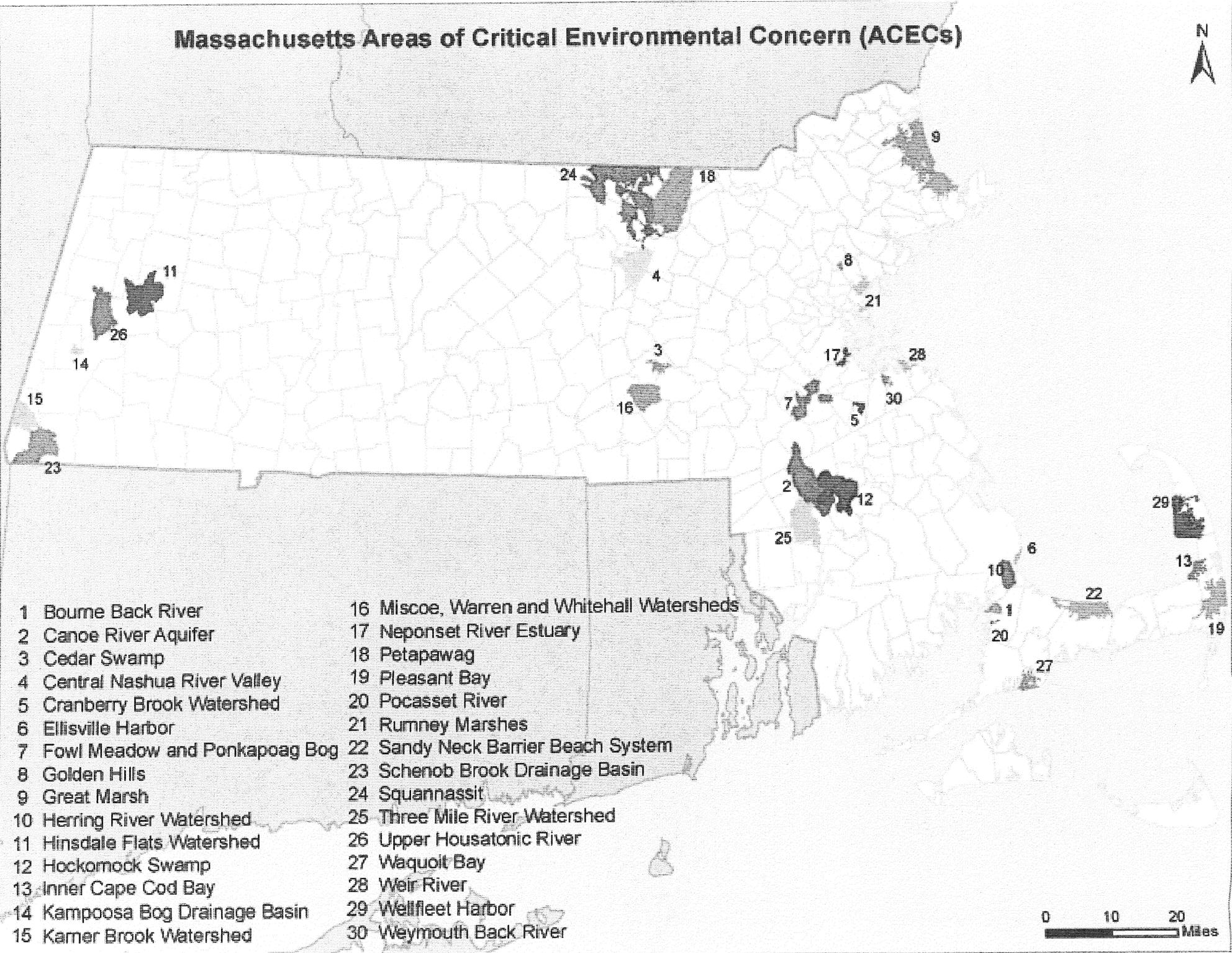
Wellfleet Harbor
(12,480 acres, 1989) Eastham, Truro, and Wellfleet

Weymouth Back River
(800 acres, 1982) Hingham and Weymouth

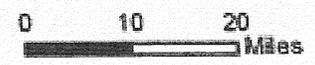
Towns with ACECs within their Boundaries
June 2009

TOWN	ACEC	TOWN	ACEC
Ashby	Squannassit	Mt. Washington	Karner Brook Watershed
Ayer	Petapawag		Schenob Brook
	Squannassit	Newbury	Great Marsh
Barnstable	Sandy Neck Barrier Beach System	Norton	Hockomock Swamp
Bolton	Central Nashua River Valley		Canoe River Aquifer
Boston	Rumney Marshes		Three Mile River Watershed
	Fowl Meadow and Ponkapoag Bog	Norwood	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary	Orleans	Inner Cape Cod Bay
Bourne	Pocasset River		Pleasant Bay
	Bourne Back River	Pepperell	Petapawag
	Herring River Watershed		Squannassit
Braintree	Cranberry Brook Watershed	Peru	Hinsdale Flats Watershed
Brewster	Pleasant Bay	Pittsfield	Upper Housatonic River
	Inner Cape Cod Bay	Plymouth	Herring River Watershed
Bridgewater	Hockomock Swamp		Ellisville Harbor
Canton	Fowl Meadow and Ponkapoag Bog	Quincy	Neponset River Estuary
Chatham	Pleasant Bay	Randolph	Fowl Meadow and Ponkapoag Bog
Cohasset	Weir River	Raynham	Hockomock Swamp
Dalton	Hinsdale Flats Watershed	Revere	Rumney Marshes
Dedham	Fowl Meadow and Ponkapoag Bog	Rowley	Great Marsh
Dighton	Three Mile River Watershed	Sandwich	Sandy Neck Barrier Beach System
Dunstable	Petapawag	Saugus	Rumney Marshes
Eastham	Inner Cape Cod Bay		Golden Hills
	Wellfleet Harbor	Sharon	Canoe River Aquifer
Easton	Canoe River Aquifer		Fowl Meadow and Ponkapoag Bog
	Hockomock Swamp	Sheffield	Schenob Brook
Egremont	Karner Brook Watershed	Shirley	Squannassit
Essex	Great Marsh	Stockbridge	Kampoosa Bog Drainage Basin
Falmouth	Waquoit Bay	Taunton	Hockomock Swamp
Foxborough	Canoe River Aquifer		Canoe River Aquifer
Gloucester	Great Marsh		Three Mile River Watershed
Grafton	Miscoe-Warren-Whitehall Watersheds	Truro	Wellfleet Harbor
		Townsend	Squannassit
Groton	Petapawag	Tyngsborough	Petapawag
	Squannassit	Upton	Miscoe-Warren-Whitehall Watersheds
Harvard	Central Nashua River Valley		
	Squannassit	Wakefield	Golden Hills
Harwich	Pleasant Bay	Washington	Hinsdale Flats Watershed
Hingham	Weir River		Upper Housatonic River
	Weymouth Back River	Wellfleet	Wellfleet Harbor
Hinsdale	Hinsdale Flats Watershed	W Bridgewater	Hockomock Swamp
Holbrook	Cranberry Brook Watershed	Westborough	Cedar Swamp
Hopkinton	Miscoe-Warren-Whitehall Watersheds	Westwood	Fowl Meadow and Ponkapoag Bog
		Weymouth	Weymouth Back River
	Cedar Swamp	Winthrop	Rumney Marshes
Hull	Weir River		
Ipswich	Great Marsh		
Lancaster	Central Nashua River Valley		
	Squannassit		
Lee	Kampoosa Bog Drainage Basin		
	Upper Housatonic River		
Lenox	Upper Housatonic River		
Leominster	Central Nashua River Valley		
Lunenburg	Squannassit		
Lynn	Rumney Marshes		
Mansfield	Canoe River Aquifer		
Mashpee	Waquoit Bay		
Melrose	Golden Hills		
Milton	Fowl Meadow and Ponkapoag Bog		
	Neponset River Estuary		

Massachusetts Areas of Critical Environmental Concern (ACECs)



- | | |
|---------------------------------|--|
| 1 Bourne Back River | 16 Miscoe, Warren and Whitehall Watersheds |
| 2 Canoe River Aquifer | 17 Neponset River Estuary |
| 3 Cedar Swamp | 18 Petapawag |
| 4 Central Nashua River Valley | 19 Pleasant Bay |
| 5 Cranberry Brook Watershed | 20 Pocasset River |
| 6 Ellisville Harbor | 21 Rurney Marshes |
| 7 Fowl Meadow and Ponkapoag Bog | 22 Sandy Neck Barrier Beach System |
| 8 Golden Hills | 23 Schenob Brook Drainage Basin |
| 9 Great Marsh | 24 Squannassit |
| 10 Herring River Watershed | 25 Three Mile River Watershed |
| 11 Hinsdale Flats Watershed | 26 Upper Housatonic River |
| 12 Hockomock Swamp | 27 Waquoit Bay |
| 13 Inner Cape Cod Bay | 28 Weir River |
| 14 Kampoosa Bog Drainage Basin | 29 Wellfleet Harbor |
| 15 Kamer Brook Watershed | 30 Weymouth Back River |



**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES
 IN MASSACHUSETTS**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Boume (north of the Cape Cod Canal)
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Raynham and Taunton
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Gloucester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague
	Dwarf wedgemussel	Endangered	Mill River	Whately
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hadley, Hatfield, Amherst and Northampton
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoisett
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, and Wareham
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, Wareham, and Mattapoisett.
Suffolk	Piping Plover	Threatened	Coastal Beaches	Winthrop
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Lcominster

- Eastern cougar and gray wolf are considered extirpated in Massachusetts.
- Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.
- Critical habitat for the Northern Red-bellied cooter is present in Plymouth County.

7/31/2008

**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES
 IN NEW HAMPSHIRE**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Belknap	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Meredith, Alton and Laconia
Carroll	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Albany, Eaton, Madison Wolfeboro, Brookfield and Wakefield
Coos	Canada Lynx	Threatened	Regenerating softwood forest, usually with a high density of snowshoe hare.	All Towns
	Dwarf wedgemussel	Endangered	Connecticut River main channel and Johns River	Northumberland, Lancaster and Dalton
Cheshire	Dwarf wedgemussel	Endangered	S. Branch Ashuelot River and Ashuelot River	Swanzey, Keene and Surry
Grafton	Dwarf wedgemussel	Endangered	Connecticut River main channel	Haverhill, Piermont, Orford and Lyme
	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Holderness
Hillsborough	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Weare
Merrimack	Karner Blue Butterfly	Endangered	Pine Barrens with wild blue lupine	Concord and Pembroke
	Small whorled Pogonia	Threatened	Forests	Danbury, Epsom, Warner and Allenstown
Rockingham	Piping Plover	Threatened	Coastal Beaches	Hampton and Seabrook
	Roseate Tern	Endangered	Atlantic Ocean and nesting at the Isle of Shoals	
	Small whorled Pogonia	Threatened	Forests	Northwood, Nottingham, and Epping
Strafford	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Middleton, New Durham, Milton, Farmington, Strafford, Barrington, and Madbury
Sullivan	Northeastern bulrush	Endangered	Wetlands	Acworth, Charlestown, Langdon and Walpole
	Dwarf wedgemussel	Endangered	Connecticut River main channel	Plainfield, Cornish, Claremont and Charlestown
	Jesup's milk-vetch	Endangered	Banks of the Connecticut River	Plainfield and Claremont

-Eastern cougar, gray wolf and Puritan tiger beetle are considered extirpated in New Hampshire.

-Endangered gray wolves are not known to be present in New Hampshire, but dispersing individuals from source populations in Canada may occur statewide.

-There is no federally-designated Critical Habitat in New Hampshire.

7/31/2008

MassDEP - Bureau of Waste Site Cleanup

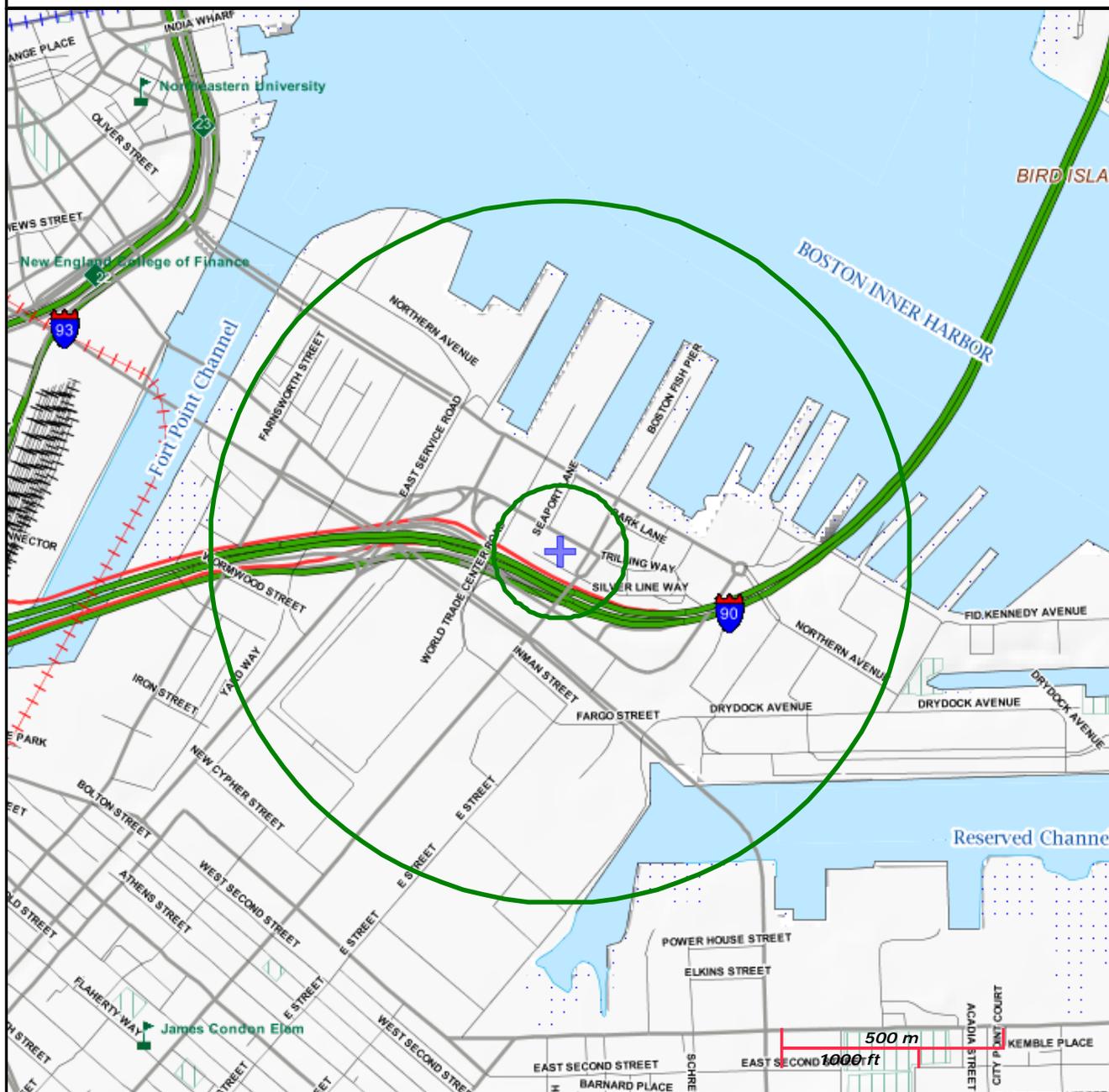
Site Information: MCP Numerical Ranking System Map: 500 feet & 0.5 Mile Radii

WATERSIDE PLACE
501 CONGRESS STREET BOSTON, MA

NAD83 UTM Meters:
4690436mN , 331879mE (Zone: 19)

January 19, 2012

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at:
<http://www.mass.gov/mcjs/>



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail	PWS Protection Areas: Zone II, IWPA, Zone A		
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct	Hydrography: Open Water, PWS Reservoir, Tidal Flat		
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam	Wetlands: Freshwater, Saltwater, Cranberry Bog		
Aquifers: Medium Yield, High Yield, EPA Sole Source	FEMA 100yr Floodplain; Protected Open Space; ACEC		
Non Potential Drinking Water Source Area: Medium, High (Yield)	Est. Rare Wetland Wildlife Hab, Vernal Pool: Cert., Potential		
	Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com		



APPENDIX E

NATIONAL REGISTER OF HISTORIC PLACES

The National Register of Historic Places on-line database was reviewed for listings located within the immediate vicinity of the subject site in Boston, Massachusetts. A review of the most recent National Register of Historical Places for Suffolk County, Massachusetts did not identify records or addresses of Historic Places that exist in the immediate vicinity of the subject site and/or outfall location. The nearest National Historic Place to the subject site is the Congress Street Fire Station which is located approximately 0.6 miles to the northwest of the subject site. It is not anticipated that dewatering activities at the subject site will affect the Congress Street Fire Station National Historic Place.

Based upon the above, the site considered criterion 2 pursuant to Appendix IV of the RGP.



APPENDIX F

Best Management Practice Plan

A Notice of Intent for a Remediation General Permit (RGP) under the National Pollutant Discharge Elimination System (NPDES) has been submitted to the US Environmental Protection Agency (EPA) in anticipation of temporary construction dewatering planned to occur at Waterside Place located in Boston, Massachusetts. This Best Management Practices Plan (BMPP) has been prepared as an Appendix to the RGP and will be posted at the site during the time period that temporary construction dewatering is occurring at the site.

Water Treatment and Management

Construction dewatering effluent is anticipated to be pumped from localized sumps and trenches within the excavation and directly into a settling tank. The effluent will then flow through any necessary treatment systems and discharge through hoses into the Massport Storm Drain System which discharges into Boston Harbor along Seaport Boulevard at storm drain outfall SDO No. 3 located to the northeast of the subject site. Dewatering effluent treatment may consist of bag filters, ion exchange, and/or precipitation, as required.

Discharge Monitoring and Compliance

Regular sampling and testing will be conducted at the influent to the system and the treated effluent as required by the RGP. This includes chemical testing required within days 1 and 3 of initial discharge and the monthly testing to be conducted through the end of the scheduled discharge.

Monitoring will include checking the condition of the treatment system, assessing the need for treatment system adjustments based on monitoring data, observing and recording daily flow rates and discharge quantities, and verifying the flow path of the discharged effluent.

The total monthly flow will be monitored by checking and documenting the flow through the flow meter to be installed on the system. Flow will be maintained below the "system design flow" by regularly monitoring flow and adjusting the amount of construction dewatering as needed.

Monthly monitoring reports will be compiled and maintained at the site.



System Maintenance

A number of methods will be used to minimize the potential for violations for the term of this permit. Scheduled regular maintenance of the treatment system will be conducted to verify proper operation. Regular maintenance will include checking the condition of the treatment system equipment such as the settling tanks, bag filters, ion exchange treatment system, filters, hoses, pumps, and flow meters. Equipment will be monitored daily for potential issues or unscheduled maintenance requirements.

Employees who have direct or indirect responsibility for ensuring compliance with the RGP will be trained by the Contractor.

Miscellaneous Items

It is anticipated that the erosion control measures and the nature of the site will minimize potential runoff to or from the site. The project specifications also include requirements for erosion control. Site security for the treatment system will be covered within the overall site security plan.

No adverse affects on designated uses of surrounding surface water bodies is anticipated. The nearest surface water body is Boston Harbor which is located to the north of the subject site.

Management of Treatment System Materials

Dewatering effluent will be pumped directly to the treatment system from the excavation with use of hoses and sumps to minimize handling. The Contractor will establish staging areas for equipment or materials storage that may be possible sources of pollution away from any dewatering activities, to the extent practicable.

Sediment from the tank used in the treatment system will be characterized and removed from the site to an appropriate receiving facility, in accordance with applicable laws and regulations. If used, the ion exchange resin may be recycled and/or removed from the site to an appropriate receiving facility. Bag filters, will be changed and disposed of as necessary.