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

CERTIFIED MAIL RETURN RECEIPT REQUESTED

AUG 15 2014

Darren Naseck
Project Manager
J.W. Flett Co. Inc.
800 Pleasant Street
Belmont, MA 02478

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. 10 City Point site located at 494 and 500 Totten Pond Road, Waltham, MA 02452, Middlesex County; Authorization # MAG910633

Dear Mr. Naseck:

Based on the review of a Notice of Intent (NOI) prepared by Sanborn, Head and Associates, Inc., and submitted by Paul Lockwood Remediation Technologies, LLC (LRT) on behalf of James W. Flett Company, Inc. (Flett), and Commodore Builders, 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 you have marked "Believed Present". The checklist also includes other VOCs parameters as a precautionary step to guard against potential contamination emanating from a site adjacent to the City Point site.

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on a dilution factor range (DFR). With the absence of dilution to West Chester Brook, EPA determined that the DFR for each parameter is in the one to five (1-5) range. (See the RGP Appendix IV for Massachusetts

facilities) Therefore, the limits for arsenic of 10.9, ug/L, cadmium of 0.219 ug/L, copper of 5.7 ug/L, lead of 1.42 ug/L, nickel of 31.7 ug/L, zinc of 72.86 ug/L and iron of 1,094 ug/L, are required to achieve permit compliance at your site. Please note that these metal limitations have increased the dilution factor range. The reason for the increase has to do with the new RGP regulations which allows for a limit increase based on the metal limit times the available dilution of the receiving stream not to exceed 5. The available dilution in this case is 1.09. See footnote eleven at the end of the "Summary of Monitoring Parameters" listed below for further explanation.

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 this project will be completed on August 1, 2016. Because the project completion is after the permit expiration date, you are required to reapply for continuity of permit coverage by submitting a Notice of Intent (NOI) to EPA after the RGP is reissued. Also, regardless of your project termination date 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,

Thelma Murphy

Thelma Murphy, Chief
Storm Water and Construction
Permits Section

Enclosure

cc: Robert Kubit, MassDEP
Stephen A. Casazza, Waltham PWD
Paul Lockwood, Remediation Technologies, LLC

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**MAG910633**
Authorization Issued:	August, 2014
Facility/Site Name:	10 City Point
Facility/Site Address:	494-500 Totten Pond Road, Waltham, Massachusetts 02452, Middlesex County
	Email address of owner: mcantalupa&bostonproperties.com
Legal Name of Operator:	J.W. Flett Co. Inc
Operator contact name, title, and Address:	Darren Naseck, Project Manager/Kevin Raposo, General Superintendent
	Email: kraposo@jwflett.com
Estimated date of the site's Completion:	August 1, 2016
Category and Sub-Category:	Contaminated Construction Dewatering. Subcategory B. General Urban Fill Sites.
RGP Termination Date:	September 10, 2015
Receiving Water:	Westchester Brook

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

	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)
√	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing ** Me#160.2/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

	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)
	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
	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)	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML

	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)
	Phthalate]	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
	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 100 ug/L

	Metal parameter	Total Recoverable MA/Metal Limit H [10] = 50 mg/l CaCO3, Units = ug/l [(11/12)] Freshwater Limits	Minimum level=ML	
	39. Antimony	5.6	ML	10
√	40. Arsenic **	10.9	ML	20
√	41. Cadmium **	0.22	ML	10
	42. Chromium III (trivalent) **	48.8	ML	15
	43. Chromium VI (hexavalent) **	11.4	ML	10
√	44. Copper **	5.7	ML	15
√	45. Lead **	1.42	ML	20
	46. Mercury **	0.9	ML	02
√	47. Nickel **	31.7	ML	20
	48. Selenium **	5	ML	20
	49. Silver	1.2	ML	10
√	50. Zinc **	66.6	ML	15
√	51. Iron	1,094	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.
[9]Although 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 x 1,000ug/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 x 2 =2,000 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

89 Crawford Street
Leominster, MA 01453
Tel: 774.450.7177
Fax: 888.835.0617
www.lrt-llc.net

July 18, 2014

U.S. Environmental Protection Agency—Region 1
5 Post Office Square, Suite 100
Mail Code OEP06-4
Boston, Massachusetts 02109-3912
Attn.: Remediation General Permit NOI Processing

Reference: Notice of Intent
NPDES Remediation General Permit
10 CityPoint
494 and 500 Totten Pond Road
Waltham, Massachusetts

To whom it may concern:

On behalf of James W. Flett Company, Inc. (Flett) and Commodore Builders, Lockwood Remediation Technologies, LLC (LRT) is submitting this Notice of Intent (NOI) for coverage under the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP), Massachusetts General Permit (MAG910000). This NOI was prepared by Sanborn, Head and Associates, Inc. in accordance with the general requirements of the NPDES and related guidance documentation provided by the US Environmental Protection Agency (EPA). The completed Notice of Intent Form is provided in Appendix A.

The enclosed NOI form provides required information on the general site conditions, discharge, treatment system, receiving water, and consultation with federal services. For this project, Flett has operational control over the construction plans and specifications, including the ability to make modifications to those plans and specifications.

Please feel free to contact us at 774-450-7177 or at plockwood@lrt-llc.net if you have any questions or if you require additional information.

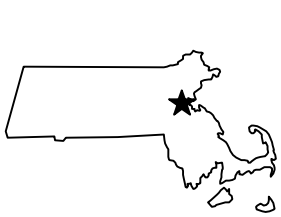
Sincerely,
Lockwood Remediation Technologies, LLC

Paul Lockwood

Paul Lockwood
President

Attachments:
Figure 1 – Locus Plan
Figure 2 – Location of Proposed Excavation & Dewatering
Figure 3 – Proposed Groundwater Treatment Schematic
Appendix A – Notice of Intent Form
Appendix B – Analytical Data
Appendix C – West Chester Brook Dilution Calculation
Appendix D – Federal Correspondence
Appendix E – National Register of Historical Places, Waltham, Massachusetts
Appendix F – Best Management Practices Plan

FIGURES



NOTES:
Base map was taken from the "Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts Information Technology Division"
7.5 minute USGS Quadrangle Maps: Waltham, Massachusetts, REV: 1987

Drawn By: C.Green
Designed By: A.Blomeke
Reviewed By: K.Stetson
Project No: 2773.02
Date: July 2014

SCALE: 1:15,000

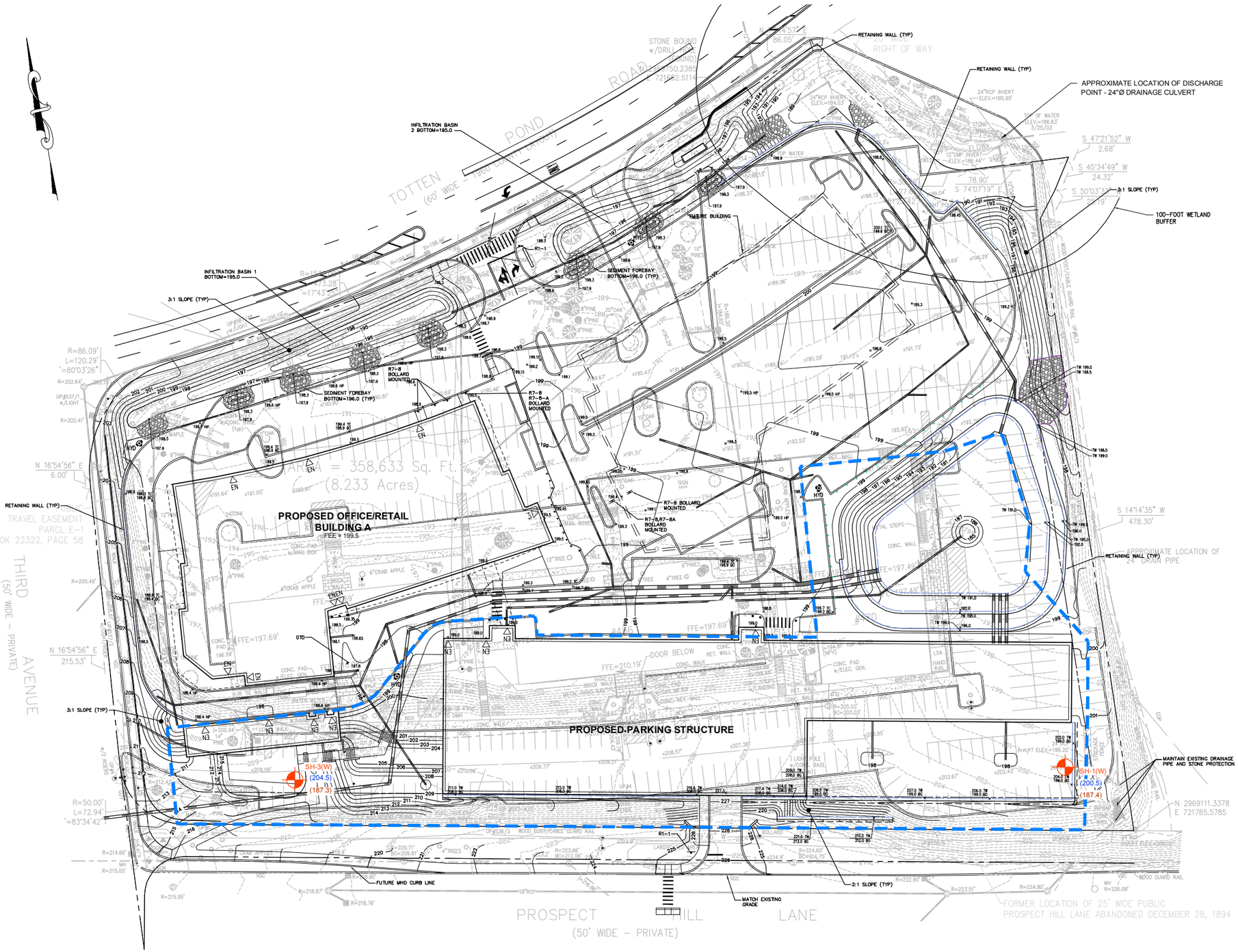
SANBORN HEAD

Figure 1

Locus Plan

Notice of Intent for Remediation General Permit

10 Citypoint
Waltham, Massachusetts



NOTES:

1. THE BASE MAP WAS DRAWN FROM A PLAN ENTITLED "SCHEMATIC GRADING PLAN", PREPARED BY VANASSE HANGEN BRUSTLIN (VHB) OF WATERTOWN, MASSACHUSETTS, DATED FEBRUARY 10, 2012 ORIGINAL SCALE: 1" = 40'.

2. THE PROPOSED GRADES WERE DRAWN FROM A PLAN ENTITLED, "PROPOSED PHASE 1A", PREPARED BY VHB OF WATERTOWN, MA DATED JUNE 25, 2014. ORIGINAL SCALE: 1"=40'.

3. THE NPDES RGP SAMPLE WAS COLLECTED AS A COMPOSITE SAMPLE FROM MONITORING WELLS, SH-1(W) AND SH-3(W), ON JUNE 10, 2014.

LEGEND:

SH-1(W) — APPROXIMATE LOCATION AND DESIGNATION OF BORING OBSERVED BY SANBORN HEAD IN MARCH 2007

(191.0) — APPROXIMATE GROUNDWATER ELEVATION OBSERVED DURING DRILLING ACTIVITIES

(171.0) — APPROXIMATE REFUSAL ELEVATION

APPROXIMATE LIMIT OF ANTICIPATED DEWATERING

SANBORN HEAD

GRAPHICAL SCALE
0 40 80 120 FT

NO.	DATE	DESCRIPTION	BY

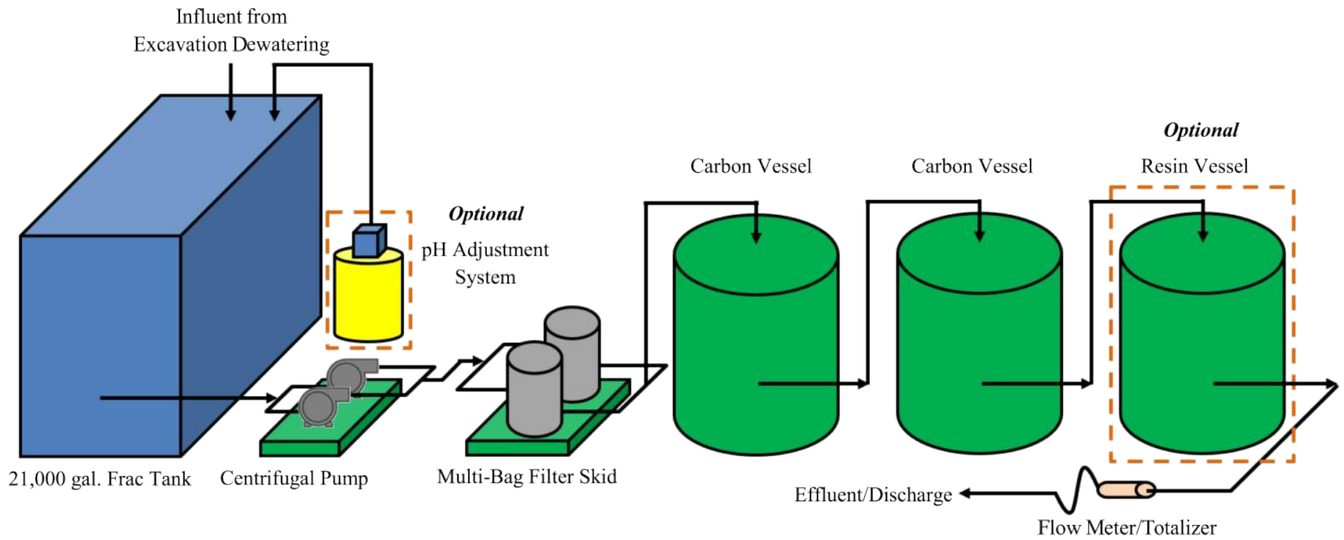
DRAWN BY: C.GREEN
DESIGNED BY: A.BLOMEKE
REVIEWED BY: M.DIPILATO
PROJECT MGR: A.BLOMEKE
PIC: K. STETSON
DATE: JULY 2014

NOTICE OF INTENT FOR REMEDIATION GENERAL PERMIT
10 CITYPOINT
WALTHAM, MASSACHUSETTS

PROJECT NUMBER: 2773.02

LOCATION OF PROPOSED EXCAVATION & DEWATERING

SHEET NUMBER: 2



NOTES:

1. SYSTEM IS RATED FOR A DESIGN FLOW OF 500GPM.
2. SYSTEM DESIGNED BY LOCKWOOD REMEDIATION TECHNOLOGIES, INC (LTR) OF LEOMINSTER, MASSACHUSETTS. THE SCHEMATIC WAS RECEIVED ELECTRONICALLY ON JUNE 25, 2014.

SANBORN HEAD

SCALE: AS NOTED

NO.	DATE	DESCRIPTION	BY

DRAWN BY: C.GREEN
DESIGNED BY: A.BLOMEKE
REVIEWED BY: M.DIPILATO
PROJECT MGR: A.BLOMEKE
PIC: K.STETSON
DATE: JULY 2014

NOTICE OF INTENT FOR REMEDIATION GENERAL PERMIT
10 CITY POINT
WALTHAM, MASSACHUSETTS

PROJECT NUMBER: 2773.02

PROPOSED GROUNDWATER TREATMENT SCHEMATIC

SHEET NUMBER: 3

APPENDIX A

NOTICE OF INTENT 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**: 10 CityPoint		**Facility/site** mailing address:			
Location of **facility/site**: longitude: 71°15'29.69"W latitude: 42°23'45.63"N	Facility SIC code(s): 1542	Street: Facility: 494 and 500 Totten Pond Road, Waltham, MA Mailing: Zee Em Trust II c/o Boston Properties 800 Boylston Street, Suite 1900, Boston, MA 02199-8103			
b) Name of **facility/site owner**: Mr. Michael Cantalupa		Town: Waltham			
Email address of facility/site owner: mcantalupa@bostonproperties.com		State: MA	Zip: 02452	County: Middlesex	
Telephone no. of facility/site **owner**: (617) 236-3342					
Fax no. of facility/site **owner**: (617) 236-3684		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ◉ 4. Other ○ if so, describe:			
Address of **owner** (if different from site):		Zee Em Trust II c/o Boston Properties, Inc.			
Street: Prudential Center, 800 Boylston Street, Suite 1900					
Town: Boston	State: MA	Zip: 02199	County: Suffolk		
c) Legal name of **operator**: J.W. Flett Co. Inc.		**Operator** telephone no: 617-484-8500			
		Operator fax no.: 617-484-1279	**Operator** email: Kraposo@jwflett.com		
Operator contact name and title: Kevin Raposo, General Superintendent					
Address of **operator** (if different from owner):	Street: 800 Pleasant Street				
Town: Belmont	State: MA	Zip: 02478	County: Middlesex		

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.

Activity Category	**Activity Sub-Category**
I - Petroleum Related Site Remediation	A. Gasoline Only Sites ☐ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☐ C. Petroleum Sites with Additional Contamination ☐
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites ☐ B. VOC Sites with Additional Contamination ☐ C. Primarily Heavy Metal Sites ☐
III - Contaminated Construction Dewatering	A. General Urban Fill Sites ☒ B. Known Contaminated Sites ☐

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites ☐ B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites ☐ C. Hydrostatic Testing of Pipelines and Tanks ☐ D. Long-Term Remediation of Contaminated Sumps and Dikes ☐ E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) ☐

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

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 1.8 Is maximum flow a **design value**? Y ◉ N ○
Average flow (include units) 450 gpm Is average flow a design value or estimate? Estimate

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat. 42°23'47.84"N long. 71°15'24.33"W; pt.2: lat. ____ long. ____;
pt.3: lat. ____ long. ____; pt.4: lat. ____ long. ____;
pt.5: lat. ____ long. ____; pt.6: lat. ____ long. ____;
pt.7: lat. ____ long. ____; pt.8: lat. ____ long. ____; etc.

4) If hydrostatic testing, total volume of the discharge (gals):

5) Is the discharge intermittent ◉ or seasonal ○?
Is discharge ongoing? Y ○ N ◉

c) Expected dates of discharge (mm/dd/yy): start 08/1/2014 end Aug 1, 2016

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). See attached figures

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.

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)
1. Total Suspended Solids (TSS)		☐	☒	1	Composite	2540D	5,000	91,000			
2. Total Residual Chlorine (TRC)		☒	☐	1	Composite	4500CL	20	ND			
3. Total Petroleum Hydrocarbons (TPH)		☒	☐	1	Composite	1664A	4,000	ND			
4. Cyanide (CN)	57125	☒	☐	1	Composite	4500CN	5.0	ND			
5. Benzene (B)	71432	☒	☐	1	Composite	8260C	0.50	ND			
6. Toluene (T)	108883	☒	☐	1	Composite	8260C	0.75	ND			
7. Ethylbenzene (E)	100414	☒	☐	1	Composite	8260C	0.50	ND			
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☒	☐	1	Composite	8260C	1.0	ND			
9. Total BTEX [2]	n/a	☒	☐	1	Composite	8260C	2.75	ND			
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	Composite	504.1	0.01	ND			
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	1	Composite	8260C	1.0	ND			
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	1	Composite	8260C	10	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.

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)
13. tert-Amyl Methyl Ether (TAME)	9940508	☒	☐	1	Composite	8260C	2.0	ND			
14. Naphthalene	91203	☒	☐	1	Composite	8260C	2.5	ND			
15. Carbon Tetrachloride	56235	☒	☐	1	Composite	8260C	0.50	ND			
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	1	Composite	8260C	2.5	ND			
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	1	Composite	8260C	2.5	ND			
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	1	Composite	8260C	2.5	ND			
18a. Total dichlorobenzene		☒	☐	1	Composite	8260C	7.5	ND			
19. 1,1 Dichloroethane (DCA)	75343	☐	☒	1	Composite	8260C	0.75	33			
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	1	Composite	8260C	0.50	ND			
21. 1,1 Dichloroethene (DCE)	75354	☐	☒	1	Composite	8260C	0.50	9.5			
22. cis-1,2 Dichloroethene (DCE)	156592	☐	☒	1	Composite	8260C	0.50	0.82			
23. Methylene Chloride	75092	☒	☐	1	Composite	8260C	3.0	ND			
24. Tetrachloroethene (PCE)	127184	☐	☒	1	Composite	8260C	0.50	2.8			
25. 1,1,1 Trichloro-ethane (TCA)	71556	☐	☒	1	Composite	8260C	0.50	7.7			
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	Composite	8260C	0.75	ND			
27. Trichloroethene (TCE)	79016	☐	☒	1	Composite	8260C	0.50	2.8			

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)
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	1	Composite	8260C	1.0	ND			
29. Acetone	67641	☒	☐	1	Composite	8260C	5.0	ND			
30. 1,4 Dioxane	123911	☐	☒	1	Composite	8260C SIM	3.0	3.2			
31. Total Phenols	108952	☐	☒	1	Composite	420.1	30	140			
32. Pentachlorophenol (PCP)	87865	☒	☐	1	Composite	8270D SIM	0.80	ND			
33. Total Phthalates (Phthalate esters) [4]		☒	☐	1	Composite	8270D	28	ND			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	1	Composite	8270D	3.0	ND			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	1	Composite	8270D SIM	7.0	ND			
a. Benzo(a) Anthracene	56553	☒	☐	1	Composite	8270D SIM	0.20	ND			
b. Benzo(a) Pyrene	50328	☒	☐	1	Composite	8270D SIM	0.20	ND			
c. Benzo(b)Fluoranthene	205992	☒	☐	1	Composite	8270D SIM	0.20	ND			
d. Benzo(k)Fluoranthene	207089	☒	☐	1	Composite	8270D SIM	0.20	ND			
e. Chrysene	21801	☒	☐	1	Composite	8270D SIM	0.20	ND			
f. Dibenzo(a,h)anthracene	53703	☒	☐	1	Composite	8270D SIM	0.20	ND			
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	1	Composite	8270D SIM	0.20	ND			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	1	Composite	8270D SIM	9.0	ND			

[4] The sum of individual phthalate compounds.

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)
h. Acenaphthene	83329	☒	☐	1	Composite	8270D SIM	0.20	ND			
i. Acenaphthylene	208968	☒	☐	1	Composite	8270D SIM	0.20	ND			
j. Anthracene	120127	☒	☐	1	Composite	8270D SIM	0.20	ND			
k. Benzo(ghi) Perylene	191242	☒	☐	1	Composite	8270D SIM	0.20	ND			
l. Fluoranthene	206440	☒	☐	1	Composite	8270D SIM	0.20	ND			
m. Fluorene	86737	☒	☐	1	Composite	8270D SIM	0.20	ND			
n. Naphthalene	91203	☒	☐	1	Composite	8270D SIM	0.20	ND			
o. Phenanthrene	85018	☒	☐	1	Composite	8270D SIM	0.20	2.4			
p. Pyrene	129000	☒	☐	1	Composite	8270D SIM	0.20	2.2			
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	1	Composite	608	1.7	ND			
38. Chloride	16887006	☐	☒	1	Composite	300.0	12,500	964,000			
39. Antimony	7440360	☒	☐	1	Composite	6020A	2.0	ND			
40. Arsenic	7440382	☐	☒	1	Composite	6020A	0.50	0.8			
41. Cadmium	7440439	☐	☒	1	Composite	6020A	0.2	0.8			
42. Chromium III (trivalent)	16065831	☒	☐	1	Composite	6020A	10	ND			
43. Chromium VI (hexavalent)	18540299	☒	☐	1	Composite	3500CR	10	ND			
44. Copper	7440508	☐	☒	1	Composite	6020A	1.0	9.29			
45. Lead	7439921	☐	☒	1	Composite	6020A	0.5	1.13			
46. Mercury	7439976	☒	☐	1	Composite	245.1	0.2	ND			
47. Nickel	7440020	☐	☒	1	Composite	6020A	0.5	3.01			
48. Selenium	7782492	☒	☐	1	Composite	6020A	5.0	ND			
49. Silver	7440224	☒	☐	1	Composite	6020A	0.4	ND			
50. Zinc	7440666	☐	☒	1	Composite	6020A	10	23.88			
51. Iron	7439896	☐	☒	1	Composite	200.7	50	950			
Other (describe):		☐	☐								

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)
Manganese		☐	☒	1	Composite	200.7	10	3,840			
		☐	☐								

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

Step 1: Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y◉ N○	If yes, which metals? Cadmium and Copper
Step 2: 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? Metal: Cadmium DF: 1.2 Metal: Copper DF: 1.2 Metal: DF: Metal: DF: Etc.	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y◉ N○ If Y, list which metals: Cadmium and Copper

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

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

Groundwater encountered during construction activities will be pumped into a treatment system prior to discharge into a storm drain. The first element of the treatment system will be a fractionalization (frac) tank where solids will settle out. The effluent will then pass through the following as necessary: a bag filter, a granular activated carbon vessel, and a cation resin vessel. The effluent will be discharged through the existing storm drain system. A pH adjustment will also be available to be incorporated within the frac tank.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ☒	Air stripper ☐	Oil/water separator ☐	Equalization tanks ☐	Bag filter ☒	GAC filter ☒
	Chlorination ☐	De-chlorination ☐	Other (please describe):	cation resin vessels (if needed for metals), pH adjustment (if needed)		

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 450 gpm Maximum flow rate of treatment system 800 gpm
Design flow rate of treatment system 500 gpm

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

None anticipated.

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 ☐	Within facility (sewer) ☐	Storm drain ☒	Wetlands ☐	Other (describe):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:
Effluent will enter an existing storm water drainage system that discharges into the West Chester Brook, then into the Chester Brook, then to the Charles River

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

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

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0.17 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)?
chlorophyll-a,DDT,pH,DO, E. coli,fishes bioassessments,nutrients,oil&grease,PCB in fish tissue,phosphorus,turbidity,sediment bioassays

Is there a final TMDL? Y ◉ N ○ If yes, for which pollutant(s)? Chlorophyll-a, E. coli, nutrients, phosphorus, turbidity

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.

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 ◉ B ○ C ○ D ○ E ○ F ○

b) If you selected Criterion D or F, has consultation with the federal services been completed? Y ○ N ◉ Underway ○

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 ◉ N ○

d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.

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 ○ 2 ◉ 3 ○

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.

7. Supplemental information.

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

Appendix B includes the analytical data collected by Sanborn, Head & Associates, Inc. on June 10, 2014
Appendix C includes calculations for the dilution factor for metals.
Appendix D includes correspondence from the National Oceanic and Atmospheric Administration and the US Fish and Wildlife Service.
Appendix E includes a list of Historic Places in Waltham, Massachusetts.
Appendix F includes the Best Management Practices Plan.

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:	10 CityPoint - 494 and 500 Totten Pond Road, Waltham, Massachusetts
Operator signature:	
Printed Name &Title:	Darren Naseck Project Manager
Date:	7-18-14

APPENDIX B

ANALYTICAL DATA

TABLE 1
Summary of Groundwater Quality Data
NPDES Remediation General Permit
10 CityPoint
Waltham, Massachusetts

LOCATION SAMPLING DATE LAB SAMPLE ID	Analytical Method	Units	NPDES RGP Effluent Limit (2010)	RGP BASELINE-2 6/10/2014 L1412573-01	RGP FILTERED 6/10/2014 L1412573-02
Field Parameter					
pH (SH-1W/SH-3W)	NA	NTU	6.5-8.3	6.04/6.56	-
Conductivity (SH-1W/SH-3W)	NA	µS	NS	2356/2530	-
Temperature (SH-1W/SH-3W)	NA	°C	NS	15.8/17.4	-
Turbidity (SH-1W/SH-3W)	NA	NTU	NS	2.80/8.52	-
General Parameter					
Solids, Total Suspended	TSS-2540	mg/l	30	91	-
Chloride	CL-300	mg/l	Monitor Only	964	-
Cyanide, Total	TCN-4500	ug/l	5.2	<5	-
Chlorine, Total Residual[2]	TRC-4500	ug/l	11	<20	-
TPH	TPH-1664	mg/l	5	<4	-
Phenolics, Total	TPHENOL-420	ug/l	300	<30	-
Total Metals*					
Chromium, Trivalent	CR-107	ug/l	48.8	<10	-
Chromium, Hexavalent	HEXCR-3500	ug/l	11.4	<10	-
Antimony, Total[2]	SB-6020T	ug/l	5.6	<2.0	-
Arsenic, Total	AS-6020T	ug/l	10	0.84	-
Cadmium, Total	CD-6020T	ug/l	0.2	0.76	-
Chromium, Total	CR-6020T	ug/l	NS	1.97	-
Copper, Total	CU-6020T	ug/l	5.2	9.29	-
Iron, Total	FE-UI	ug/l	1,000	950	-
Lead, Total	PB-6020T	ug/l	1.3	1.13	-
Manganese, Total	NA	ug/l	NS	3,840	-
Mercury, Total	HG-U	ug/l	0.9	<0.2	-
Nickel, Total	NI-6020T	ug/l	29	3.01	-
Selenium, Total[2]	SE-6020T	ug/l	5	<5	-
Silver, Total[2]	AG-6020T	ug/l	1.2	<0.4	-
Zinc, Total	ZN-6020T	ug/l	66.6	23.88	-
Dissolved Metals					
Antimony, Dissolved	NA	ug/l	NS	-	<2.0
Arsenic, Dissolved	NA	ug/l	NS	-	<0.50
Cadmium, Dissolved	NA	ug/l	NS	-	0.88
Chromium, Dissolved	NA	ug/l	NS	-	<1.0
Copper, Dissolved	NA	ug/l	NS	-	3.08
Iron, Dissolved	NA	ug/l	NS	-	<50
Lead, Dissolved	NA	ug/l	NS	-	<1.0
Manganese, Dissolved	NA	ug/l	NS	-	2,600
Mercury, Dissolved	NA	ug/l	NS	-	<0.20
Nickel, Dissolved	NA	ug/l	NS	-	3.27
Selenium, Dissolved	NA	ug/l	NS	-	<5.0
Silver, Dissolved	NA	ug/l	NS	-	0.45
Zinc, Dissolved	NA	ug/l	NS	-	17.56
Pesticides					
1,2-Dibromoethane[3]	504	ug/l	0.05	<0.01	-
Volatile Organic Compounds (VOCs)					
Methylene chloride	8260	ug/l	4.6	<3.0	-
1,1-Dichloroethane	8260	ug/l	70	33	-
Carbon tetrachloride	8260	ug/l	4.4	<0.50	-
1,1,2-Trichloroethane	8260	ug/l	5.0	<0.75	-
Tetrachloroethene	8260	ug/l	5.0	2.4	-
1,2-Dichloroethane	8260	ug/l	5.0	<0.50	-
1,1,1-Trichloroethane	8260	ug/l	200	7.7	-
Benzene	8260	ug/l	50.0 for hydrostatic testing only	<0.50	-
Toluene	8260	ug/l	see Total BTEX	<0.75	-
Ethylbenzene	8260	ug/l	see Total BTEX	<0.50	-
Vinyl chloride	8260	ug/l	2.0	<1.0	-
1,1-Dichloroethene	8260	ug/l	3.2	*9.5*	-
Trichloroethene	8260	ug/l	5.0	2.8	-
1,2-Dichlorobenzene	8260	ug/l	600	<2.5	-
1,3-Dichlorobenzene	8260	ug/l	320	<2.5	-
1,4-Dichlorobenzene	8260	ug/l	5.0	<2.5	-
Methyl tert butyl ether (MtBE)	8260	ug/l	70.0	<1.0	-
p/m-Xylene	8260	ug/l	see Total BTEX	<1.0	-
o-Xylene	8260	ug/l	see Total BTEX	<1.0	-
Xylenes, Total	8260	ug/l	see Total BTEX	<1.0	-
cis-1,2-Dichloroethene	8260	ug/l	70	0.82	-
Acetone	8260	ug/l	Monitor Only	<5.0	-
1,2-Dichloroethene, Total	8260	ug/l	NS	0.82	-
Naphthalene	8260	ug/l	20	<2.5	-
Tert-Butyl Alcohol	8260	ug/l	Monitor Only	<10	-
Tertiary-Amyl Methyl Ether	8260	ug/l	Monitor Only	<2.0	-
1,4-Dioxane	8260-SIM	ug/l	Monitor Only	*3.2*	-
Total BTEX[4]	8260	ug/l	100	BDL	
Semivolatile Organic Compounds (SVOCs)					
Bis(2-ethylhexyl)phthalate[5]	8270TCL	ug/l	6.0	<3.0	-
Butyl benzyl phthalate[5]	8270TCL	ug/l	see Total Phthalates	<5.0	-
Di-n-butylphthalate[5]	8270TCL	ug/l	see Total Phthalates	<5.0	-
Di-n-octylphthalate[5]	8270TCL	ug/l	see Total Phthalates	<5.0	-
Diethyl phthalate[5]	8270TCL	ug/l	see Total Phthalates	<5.0	-
Dimethyl phthalate[5]	8270TCL	ug/l	see Total Phthalates	<5.0	-

TABLE 1
Summary of Groundwater Quality Data
NPDES Remediation General Permit
10 CityPoint
Waltham, Massachusetts

LOCATION SAMPLING DATE LAB SAMPLE ID	Analytical Method	Units	NPDES RGP Effluent Limit (2010)	RGP BASELINE-2 6/10/2014 L1412573-01	RGP FILTERED 6/10/2014 L1412573-02
Total Phthalates[6]	8270TCL	ug/l	3.0	BDL	
Acenaphthene[7]	8270TCL-SIM	ug/l	see Total Group II PAHs	<0.20	-
Fluoranthene[7]	8270TCL-SIM	ug/l	see Total Group II PAHs	<0.20	-
Naphthalene[7]	8270TCL-SIM	ug/l	20	<0.20	-
Benzo(a)anthracene[8]	8270TCL-SIM	ug/l	0.20	<0.20	-
Benzo(a)pyrene[8]	8270TCL-SIM	ug/l	0.20	<0.20	-
Benzo(b)fluoranthene[8]	8270TCL-SIM	ug/l	0.20	<0.20	-
Benzo(k)fluoranthene[8]	8270TCL-SIM	ug/l	0.20	<0.20	-
Chrysene[8]	8270TCL-SIM	ug/l	0.20	<0.20	-
Acenaphthylene[7]	8270TCL-SIM	ug/l	see Total Group II PAHs	<0.20	-
Anthracene[7]	8270TCL-SIM	ug/l	see Total Group II PAHs	<0.20	-
Benzo(ghi)perylene[7]	8270TCL-SIM	ug/l	see Total Group II PAHs	<0.20	-
Fluorene[7]	8270TCL-SIM	ug/l	see Total Group II PAHs	<0.20	-
Phenanthrene[7]	8270TCL-SIM	ug/l	see Total Group II PAHs	<0.20	-
Dibenzo(a,h)anthracene[8]	8270TCL-SIM	ug/l	0.20	<0.20	-
Indeno(1,2,3-cd)Pyrene[8]	8270TCL-SIM	ug/l	0.20	<0.20	-
Pyrene[7]	8270TCL-SIM	ug/l	see Total Group II PAHs	<0.20	-
Pentachlorophenol	8270TCL-SIM	ug/l	1.0	<0.80	-
Total Group I PAHs[9]	8270TCL-SIM	ug/l	10.0	BDL	-
Total Group II PAHs[10]	8270TCL-SIM	ug/l	100	BDL	-
Polychlorinated Biphenyls (PCBs)					
Aroclor 1016[11]	PCB-608	ug/l	0.5	<0.25	-
Aroclor 1221[11]	PCB-608	ug/l	0.5	<0.25	-
Aroclor 1232[11]	PCB-608	ug/l	0.5	<0.25	-
Aroclor 1242[11]	PCB-608	ug/l	0.5	<0.25	-
Aroclor 1248[11]	PCB-608	ug/l	0.5	<0.25	-
Aroclor 1254[11]	PCB-608	ug/l	0.5	<0.25	-
Aroclor 12601[11]	PCB-608	ug/l	0.5	<0.20	-
Total PCBs[12]	PCB-608	ug/l	0.5	BDL	-

Notes:
1. The samples were collected by Sanborn, Head & Associates, Inc. personnel on the dates indicated and were submitted to Alpha Analytical, Inc. of Westborough, MA (Alpha) for analysis. The sample was a composite of wells SH-1(W) and SH-3(W). Discrete samples for VOCs were collected at SH-1(W).
2. The Laboratory Reporting Limit (RL) meets the requirements of Appendix VI of the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) even though RL exceeds RGP Effluent Limit.
3. RL achieved by laboratory was above the Effluent Limit.; however, 1,2-dibromoethane was also analytzed by Method 504, as shown, with an RL below the Effluent Limit.
4. Total BTEX = Sum of benzene, toluene, ethylbenzene, and total xylenes.
5. Individual phthalate compound.
6. "Total phthalates" is the sum of individual phthalate compounds; According to RGP Q&A #37, the RL for total phthalates is the highest reported phthalate RL; RL is less than the requirements in Appendix VI of RGP, even though RL exceeds RGP Effluent Limit.
7. Group II PAHs.
8. Group I PAHs; Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level of the test method used as listed in Appendix VI. According to Alpha the method detection limit for 8270 SIM is 0.20 ug/l. RLs achieved by the laboratory were above the Effluent Limits and the minimum level of the test method due to matrix interference.
9. Sum of Group I PAHs.
10. Sum of Group II PAHs.
11. Individual PCB congener.
12. Total of PCB congeners; Although the maximum value for total PCB's is 0.000064 ug/l, the compliance limit is equal to the minimum level of the test method used as listed in Appendix VI (i.e. 0.5 ug/l for Method 608).
13. 'SHADED' values indicate exceedances of the NPDES RGP Effluent Limits; which were taken from Appendix III of the RGP.
'<' = analytes not detected above laboratory reporting limits
'NS' = Not Specified
'BDL' = indicates analyte is below detection limits
14. Monitor Only means that the subject compound is not subject to a (criteria) limit, however, the Permitee is still required to monitor and report the effluent concentration.

APPENDIX C

WEST CHESTER BROOK
DILUTION CALCULATION

PURPOSE:
To calculate the dilution factor (DF) for metal concentrations in a potential discharge from on-site construction dewatering activities.

METHOD:

$$DF = (Qd + Qs)/Qd$$

Where: DF = Dilution Factor
Qd = Maximum flow rate of the discharge in cubic feet per second (cfs)
Qs = Receiving water 7Q10 flow (cfs) where 7Q10 is the minimum flow (cfs) for 7 consecutive days with a recurrence interval of 10 years

GIVEN:
1.0 gpm = 0.00223 cfs
Qd = 500 gpm = 1.12 cfs
Qs = 0.17 cfs of flow in the West Chester Brook [Reference 1]

CALCULATION:

$$DF = (1.12 \text{ cfs} + 0.17 \text{ cfs}) / 1.12 \text{ cfs}$$

DF = 1.2

RESULTS:

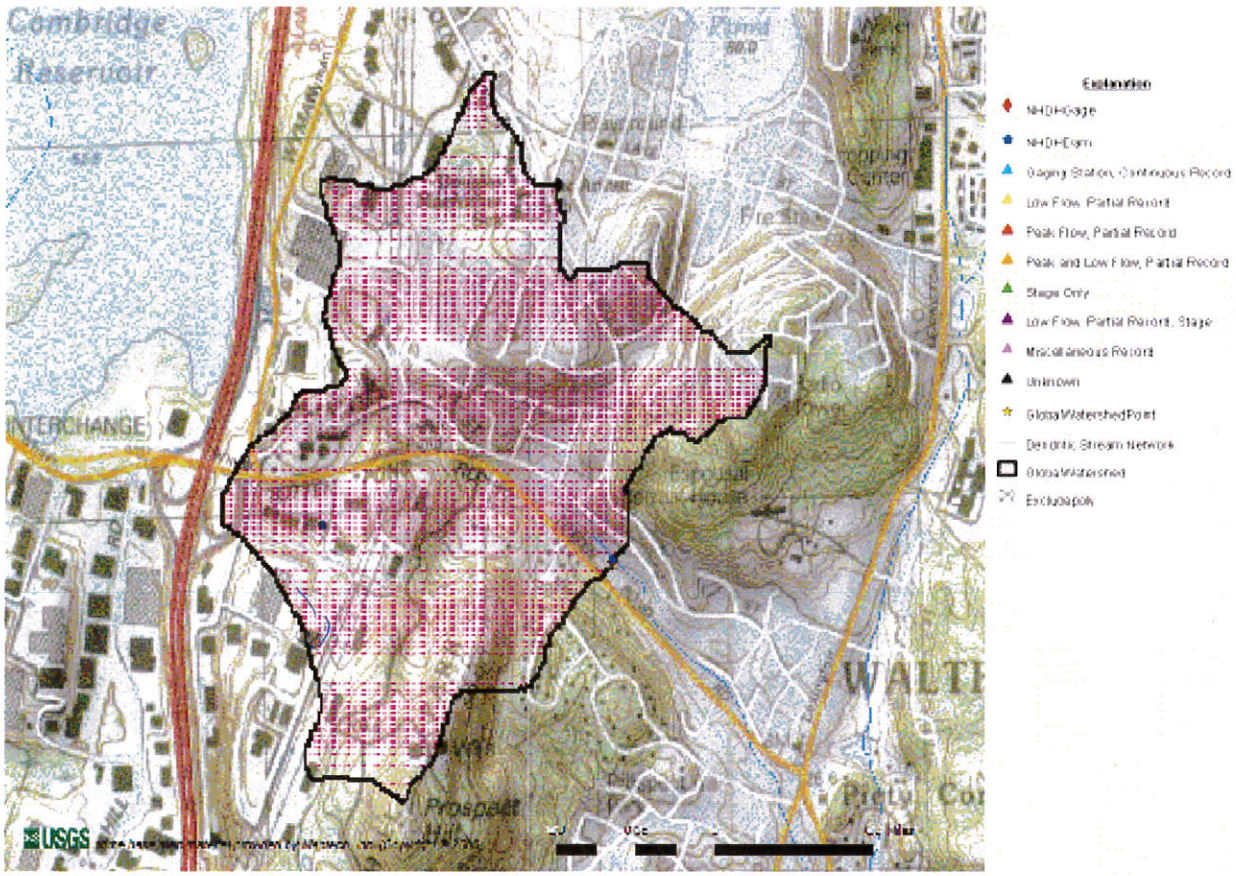
The resulting dilution factor to be used when discharging to the West Chester Brook is 1.2.

REFERENCES:

[1] M7D10Y identified on attached USGS Streamstats Site Report

USGS Massachusetts StreamStats

StreamStats Print Page



USGS Massachusetts StreamStats

Streamstats Ungaged Site Report

Date: Thu Jun 5 2014 10:54:49 Mountain Daylight Time
Site Location: Massachusetts
NAD27 Latitude: 42.3948 (42 23 41)
NAD27 Longitude: -71.2468 (-71 14 49)
NAD83 Latitude: 42.3949 (42 23 42)
NAD83 Longitude: -71.2463 (-71 14 47)
Drainage Area: 0.59 mi2
Percent Urban: 79.4 %
Percent Impervious: 42.9 %

Low Flows Basin Characteristics

100% Statewide Low Flow (0.59 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.59 (below min value 1.61)	1.61	149
Mean Basin Slope from 250K DEM (percent)	5.19	0.32	24.6
Stratified Drift per Stream Length (square mile per mile)	0.83	0	1.29
Massachusetts Region (dimensionless)	1	0	1

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Probability of Perennial Flow Basin Characteristics

100% Perennial Flow Probability (0.59 mi2)

Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.59	0.01	1.99
Percent Underlain By Sand And Gravel (percent)	8.45	0	100
Percent Forest (percent)	23.63	0	100
Massachusetts Region (dimensionless)	1	0	1

Low Flows Streamflow Statistics

Statistic	Flow (ft^3/s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
D50	0.56				
D60	0.43				
D70	0.44				
D75	0.4				
D80	0.53				
D85	0.43				
D90	0.48				
D95	0.29				
D98	0.21				
D99	0.15				
M7D2Y	0.22				
AUGD50	0.46				
M7D10Y	0.17				

M7D10Y identified using USGS Streamstats website

The equation for estimating the probability of perennial flow is applicable for most areas of Massachusetts except eastern Buzzards Bay, Cape Cod, and the Island regions. The estimate obtained from the equation assumes natural flow conditions at the site. The equation also is best used for sites with drainage areas between 0.01 to 1.99 mi2, as errors beyond for basins beyond these bounds are unknown.

Probability of Perennial Flow Statistics

Statistic	Value	Standard Error (percent)
PROBPEREN	0.93	0.5

APPENDIX D

FEDERAL CORRESPONDENCE

United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
http://www.fws.gov/newengland

January 7, 2014

To Whom It May Concern:

This project was reviewed for the presence of federally listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm

Based on information currently available to us, no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required. No further Endangered Species Act coordination is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Maria Tur of this office at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

From: Christine Vaccaro
To: Amy Blomeke
Subject: Re: Application for NPDES RGP
Date: Monday, June 23, 2014 12:40:39 PM

There are no NMFS listed species in that waterway.

Cheers,
Chris

On Jun 23, 2014, at 12:31 PM, Amy Blomeke <ablomeke@sanbornhead.com> wrote:

> Good Afternoon Chris,
>
> I am requesting information to be included as part of a Notice of Intent (NOI) for a Remediation General Permit (RGP). The NOI is for construction dewatering during excavation activities at 470, 486 and 504 Totton Pond Road in Waltham, Massachusetts. Effluent will be discharged to the West Chester Brook in Waltham, Massachusetts, via a drain and outfall.
>
> As part of the application to the USEPA for the RGP, we need to investigate whether this proposed temporary discharge has the potential to adversely affect any federally listed species in the reach of the West Chester Brook located downstream of the discharge point.
>
> Thank you in advance for your assistance, and please let me know if you require further information.
>
> -Amy
>
> --
> Amy C. Blomeke, P.E.
> Senior Project Engineer
> ---
> SANBORN | HEAD & ASSOCIATES, INC.
>
> 1 Technology Park Drive, Westford, MA 01886
> T 978.392.0900 D 978.577.1036 C 603.770.4919
> www.sanbornhead.com
>
>

APPENDIX E

NATIONAL REGISTER OF HISTORICAL PLACES, WALTHAM, MASSACHUSETTS

Appendix E
National Register of Historic Places
Research Documentation
Waltham, Massachusetts

Site Name	Address	Date Listed
American Waltham Watch Company Historic District	185--241 Crescent St.	09/28/89
American Watch Tool Company	169 Elm St.	09/28/89
Andrews, Joseph, House	258 Linden St.	09/28/89
Baker, Charles, House	107 Adams St.	09/28/89
Baker, Charles, Property	119--121 Adams St.	09/28/89
Banks, E. Sybbill, House	27 Appleton St.	09/28/89
Beard, Josiah, House	70 School St.	09/28/89
Beth Eden Baptist Church	82 Maple St.	09/28/89
Boston Manufacturing Company	144 Moody St.	12/22/77
Boston Manufacturing Company Housing	380--410 River St.	09/28/89
Boston Manufacturing Company Housing	153--165 River St.	09/28/89
Brigham House	235 Main St.	09/28/89
Building at 202--204 Charles Street	202--204 Charles St.	09/28/89
Buttrick, Francis, House	44 Harvard St.	09/28/89
Buttrick, Francis, Library	741 Main St.	09/28/89
Byam, Charles, House	337 Crescent St.	09/28/89
Castle, The	415 South St.	04/09/79
Central Square Historic District	Roughly bounded by Church, Carter, Moody, Main and Lexington Sts.	09/28/89
Charles Street Workers' Housing Historic District	128--144 Charles St.	09/28/89
Christ Episcopal Church	750 Main St.	09/28/89
Clough, Benjamin F., House	42--44 Prospect St.	09/28/89
Colburn, Gilbert, House	110--112 Crescent St.	09/28/89
Company F State Armory	Curtis and Sharon Sts.	09/28/89
Dow, Lenoir, House	215 Adams St.	09/28/89
Dunbar--Stearns House	209 Linden St.	03/09/90
East Main Street Historic District	Roughly E. Main St. from Townsend St. to Chamberlain Ter.	09/28/89
Eastern Middlesex County Second District Court	38 Linden St.	09/28/89
Fernald, Walter E., State School	200 Trapelo Rd.	01/21/94
First Congregational Church	730 Main St.	09/28/89
First Parish Church	87 School St.	09/28/89
Fisher, Henry N., House	120 Crescent St.	09/28/89
Fiske, Elijah, House	457 Lincoln St.	09/28/89
Fitch, Ezra, School	10 Ash St.	09/28/89
Flagg, Frederick, House	65 Fairmont Ave.	09/28/89
French, Daniel, School	38--40 Common St.	09/28/89
Fuller--Bemis House	41--43 Cherry St.	03/09/90
Gale--Banks House	935 Main St.	03/09/90
Gibbs, William, House	14 Liberty St.	09/28/89
Gilbrae Inn	403 River St.	09/28/89
Gore Place	52 Gore St.	12/30/70
Grove Hill Cemetery	290 Main St.	09/28/89
Hagar--Smith--Livermore--Sanderson House	51 Sanders Ln.	09/28/89
Hager--Mead House	411 Main St.	09/28/89
Hall, Henry C., House	107 Crescent St.	09/28/89
Hammond, Ephraim, House	265 Beaver St.	09/28/89
Hammond, Jonathan, House	311 Beaver St.	09/28/89
Hardy, Nahum, House	724 Lexington St.	09/28/89
Harrington Block	376--390 Moody St.	09/28/89
Harrington, Samuel, House	475 South St.	09/28/89
Hill, Rev. Thomas, House	132 Church St.	09/28/89
Hobbs Brook Basin Gate House	Off Winter St. at mouth of Hobbs Brook	09/28/89
Holbrook, Richard, Houses	29--31 Heard St.	09/28/89
Johnson, Edwin C., House	177 Weston St./8 Caldwell St.	09/28/89
Johnson, Newell D., House	428 Lexington St.	09/28/89
Lawrence, Phineas, House	257 Trapelo Rd.	08/20/87
Lawton Place Historic District	Lawton Pl. between Amory Rd. and Jackson St.	09/28/89
Libby, Nelson F., House	147--149 Weston St.	09/28/89
Linden Street Bridge	Boston & Maine Railroad over Linden St.	09/28/89
Lord's Castle	211 Hammond St.	09/28/89
Lyman Street Historic District	Roughly Lyman St. from Church to Main Sts.	09/28/89
Martin, Aaron, House	786 Moody St.	09/28/89
Martin, Aaron, Houses	188--194 Adams St.	09/28/89
Metropolitan State Hospital	475 Trapelo Rd.	01/21/94
Moody Street Fire Station	533 Moody St.	09/28/89
Moody Street Historic District	Moody and Crescent Sts.	03/09/90
Mount Feake Cemetery	203 Prospect St.	09/28/89
Mt. Prospect School for Boys	90 Worcester Ln.	03/09/90
Murray, Robert, House	85 Crescent St.	09/28/89
Newton Street Bridge	Newton St. at River St. over the Charles River	09/28/89
North Lexington Street Historic District	508--536 N. Lexington St.	09/28/89
O'Hara Waltham Dial Company	74 Rumford Ave.	09/28/89
Olcott, John E., House	35--37 Central St.	09/28/89
Oxford, The	4 Adams St.	09/28/89
Paine, Robert Treat, Jr., House	577 Beaver St.	10/07/75
Peck, John M., House	27 Liberty St.	09/28/89
Piety Corner Historic District	Roughly Bacon and Lexington Sts.	03/09/90
Potter--O'Brian House	206 Newton St.	09/28/89
Prospect House	11 Hammond St.	09/28/89
Robbins, Royal E., School	58 Chestnut St.	09/28/89
Sanderson, John, House	562 Lexington St.	09/28/89
Sanderson, Nathan, I, House	107 Lincoln St.	09/28/89
Sanderson, Nathan, II, House	111 Lincoln St.	09/28/89
Sanderson--Clark Farmhouse	75 Lincoln/26 Lincoln Ter.	09/28/89
Smith, Marshall, House	26 Liberty St.	09/28/89

Appendix E
National Register of Historic Places
Research Documentation
Waltham, Massachusetts

Site Name	Address	Date Listed
Smith, Perez, House	46 Lincoln St.	09/28/89
St. Charles Borromeo Church	Hall and Cushing Sts.	09/28/89
St. Mary's Roman Catholic Church Complex	133 School St.	09/28/89
Stanley, Leonard W., House	23--25 Taylor St.	09/28/89
Stark Building	416--424 Moody St.	09/28/89
Stark, Robert M., House	176 Main St.	09/28/89
Stearns, Amos, House	1079 Trapelo Rd.	09/28/89
Stewart, Henry, House	294 Linden St.	09/28/89
Swasey, James, House	30 Common St.	09/28/89
Tyler, Frank J., House	238 Linden St.	09/28/89
United States Watch Company	256 Charles St.	09/28/89
US Post Office--Waltham Main	774 Main St.	05/30/86
Vale, The	Lyman and Beaver Sts.	12/30/70
Waltham Gas and Electric Company Generating Plant	96 Pine St.	09/28/89
Waltham Gas Light Company	2 Cooper St.	09/28/89
Waltham High School	55 School St.	09/28/89
Waltham Water Works Shop	92 Felton St.	09/28/89
Warren, Nathan, House	50 Weston St.	03/09/90
Wellington, Benjamin, House	56 Whittier St.	09/28/89
Wellington, William, House	785 Trapelo Rd.	09/28/89
Wellington--Castner House	685 Trapelo Rd.	09/28/89
Wetherbee House	357 Crescent St.	09/28/89
White, Warren, House	192 Warren St.	09/28/89
Whitney--Farrington--Cook House	385 Trapelo Rd.	09/28/89
Wilson's Diner	507 Main St.	09/22/99

Notes:
Sanborn, Head & Associates, Inc. (Sanborn Head) conducted a review of the National Register of Historic Places within Waltham, Massachusetts. The search returned 109 results, none of which are located at or abutting the site.

APPENDIX F

BEST MANAGEMENT PRACTICES PLAN

APPENDIX F: BEST MANAGEMENT PRACTICES PLAN

Notice of Intent for the Remediation General Permit
Temporary Construction Dewatering for Site Redevelopment
494 and 500 Totton Pond Road
Waltham, Massachusetts

This Best Management Practices Plan (BMPP) has been prepared in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) for Massachusetts (MAG910000). This BMPP is in support of an RGP application for dewatering during redevelopment construction of 470, 486 and 504 Totton Pond Road in Waltham, Massachusetts. The dewatering discharge will be conveyed through the existing storm drains and discharged to the West Chester Brook in Waltham, Massachusetts.

The following practices will be adhered to during construction dewatering at the site.

Site Security

During construction activities, the dewatering system will be secured using standard construction practices. The fractionalization tank and associated filters, pumps, and flow meters will be located in a fenced area to limit access. All associated piping will be secured and checked regularly. Any system failure, vandalism, or other incidents will be addressed in a timely manner to prevent the discharge of oil or hazardous materials from exceeding the limits of the RGP.

Minimizing Sediment in Influent

Crushed stone sumps constructed as far as possible from the active excavation area will be used as the suction points for the dewatering system intakes. Efforts will be made to manage the pumping such that the amount of sediment in the influent to the treatment system is minimized.

Management of Generated Wastes

The anticipated wastes are sediment that accumulates in the fractionalization tank, used bag filters, spent activated carbon, spent cation resin, and miscellaneous wastes associated with water quality sampling activities. The sediment will be tested and disposed of at a licensed facility that is permitted to accept material with the documented physical and chemical characteristics of the sediment. The used bag filters and the miscellaneous sampling wastes will be appropriately disposed of as solid or contaminated wastes, based on their characteristics. The spent activated carbon will be processed and recycled by the company providing the fresh carbon. The spent cation resin will be processed and recycled by the company providing the fresh resin.

Prohibition of Discharge Exceeding Design Flow

The subcontractor providing the treatment system will provide the Operator with information on the design capacity of the treatment system and the features included in the design to monitor the flow rate to ensure that the capacity is not exceeded. The system will

be monitored with a continuous flow meter such that the overall system flow does not exceed the lowest design capacity of an individual treatment system unit.

Preventative Maintenance Required

The treatment system will likely include a pH adjustment system to be added into a frac tank, two bag filter vessels (installed in parallel so the system does not need to be shut down for bag filter changeout), two activated carbon vessels in series, and one cation resin vessel. Sample ports will be available after the bag filter, after the carbon vessel, and after each cation resin vessel.

If sampling indicates that there is breakthrough in the cation resin vessel, the system shall be shut down while the resin is changed out; however, baseline groundwater sampling analytical data indicates that breakthrough of the resin vessel is unlikely to occur during the operation of this system. If the sampling data at that point indicates that "breakthrough" has occurred on a carbon vessel, the downstream carbon vessel will be moved to the upstream position and the carbon in the upstream unit will be changed out and then placed in service at the downstream side.

The bag filters will be replaced whenever the pressure drop across the filters exceeds the system's design criteria. The carbon vessels and resin vessels will be backwashed with a clean water source when the pressure drop across the vessel exceeds the system's design criteria. The subcontractor will be responsible for developing and implementing a preventative maintenance plan and schedule based on the specific design of the treatment system.

Employee Training

The field staff of the Operator and the subcontractor will be instructed regarding the water quality limits contained in the RGP and the critical need to operate the treatment system as designed. The staff will also be provided guidance on how to reduce the sediment content that is pumped into the treatment system. Personnel who have responsibilities related to the dewatering efforts will be informed of the contents of the RGP, this BMPP and the NOI.

Management of Run-on and Runoff

Hay bales and silt fences as well as sloped grades will be used as needed to construct a berm around the perimeter of the site to prevent rainfall from migrating off-site or into the excavation. If stockpiles of soil are generated, the stockpiles of contaminated soils will be placed on plastic sheets and then covered with sheeting and bermed with hay bales until off-site transport occurs.

Erosion, Scouring and Sediment Control

Considering the design flow of the system and the planned duration of the discharge relative to the size and flow of the storm drain where it discharges to the West Chester Brook, it is not anticipated that the dewatering discharge will cause erosion, stream scouring at the discharge point, or additional sedimentation in the West Chester Brook.