



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL RETURN RECEIPT REQUESTED

AUG 23 2013

J. David Simmons, Esq.
President
Angle Tree Properties, Inc.
76 Taunton Street
Plainville, MA 02762

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Building construction and excavation site located at 2 East Bacon Street, Plainville, MA 02762 Norfolk County; Authorization #MAG910595

Dear Mr. Simmons:

Based on the review of a Notice of Intent (NOI) submitted by your company Angle Tree Properties Inc., on behalf of JJK Realty Holdings, LLC, the owner of the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the owner's representative and 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 check list includes monitoring of several metals some of which you have marked "Believe Present" even though, in accordance with laboratory records that accompanied the Notice of Intent (NOI) only lead exceeded the RGP's Appendix III list. However, we are requiring you to monitor all the pollutants listed for the next six months at the end of which time, if you wish, you may file a notice of change (NOC) and request a deletion of all the metals not detected above the limits established on Appendix III of the RGP.

Please note also, that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on a dilution factor range (DFR). With the

limited dilution to the Massachusetts Ten Mile River, EPA determined that the DFR for each parameter is in the one and five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities) Therefore, the limits for arsenic of 10 ug/L, trivalent chromium of 48.8 ug/L, lead of 1.3 ug/L, nickel of 29 ug/L, zinc of 66.6 ug/L and iron of 1,000 ug/L, are required to achieve permit compliance at your site.

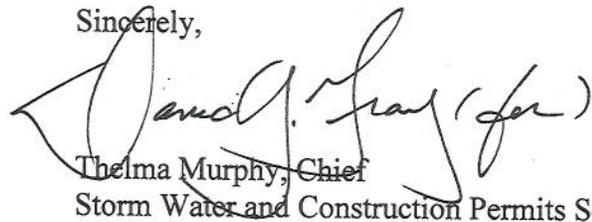
The dilution factor (calculations) submitted with the NOI was not used because it was based on information from the State of RI watershed rather than determining dilution using the MassDEP stream-stats calculations.

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 November 1, 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,

A handwritten signature in black ink, appearing to read "Thelma Murphy (for)", is written over the typed name and title.

Thelma Murphy, Chief
Storm Water and Construction Permits Section

Enclosures:

cc: Robert Kubit, MassDEP
Burton Bryan, Plainville Conservation Commission

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

NPDES Authorization Number:		MAG910595
Authorization Issued:	August, 2013	
Facility/Site Name:	Building Construction and Site Excavation	
Facility/Site Address:	2 East Beacon Street, Plainville, MA 02762	
	Email address of owner: davidsimmons@angle-tree.com	
Legal Name of Operator:	Angle Tree Properties Inc.	
Operator contact name, title, and Address:	J. David Simmons, President, Angle Tree Properties Inc. 76 Taunton Street, Plainville, MA 02762	
	Email: Same as the owner	
Estimated date of Completion:	November 1, 2013	
Category and Sub-Category:	Contaminated Construction Dewatering. Sub-category B. Known Contaminated Sites.	
RGP Termination Date:	September 10, 2015	
Receiving Water:	10 Mile River	

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#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
	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ML 2ug/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)
	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) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/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)
	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 H¹⁰ = 50 mg/l CaCO₃, Units = ug/l^(11/12)	Minimum level=ML
		Freshwater Limits	
	39. Antimony	5.6	10
✓	40. Arsenic **	10	20
	41. Cadmium **	0.2	10
✓	42. Chromium III (trivalent) **	48.8	15
	43. Chromium VI (hexavalent) **	11.4	10
	44. Copper **	5.2	15
✓	45. Lead **	1.3	20
	46. Mercury **	0.9	0.2
✓	47. Nickel **	29	20
	48. Selenium **	5	20
	49. Silver	1.2	10
✓	50. Zinc **	66.6	15
✓	51. Iron	1,000	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 "Orochlor 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 $DF \times 1,000 \text{ ug/L}$ (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



Land Development- Comm. Real Estate-Project Management
Residential Design/Comm. Design Management
Construction Management/Regulatory Affairs&Permitting

CONSULTING ON COMMERCIAL AND RESIDENTIAL REAL ESTATE PROPERTY DEVELOPMENT

76 Taunton Street, Plainville, MA 02762

Phone: 508-695-8999 Fax: 508-695-9982

August 12, 2013

File No. 3611.00

U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code OEP06-4
Boston, MA 02109-3912
ATTN: Remediation General Permit NOI Processing

Re: Notice of Intent for the Remediation General Permit
Temporary Construction Dewatering for Site Redevelopment
Two East Bacon Street, Plainville, Massachusetts

Dear Sir/Madam:

On behalf of JJK Realty Holdings, LLC, site owner, Angle Tree Properties, Inc. (Angle Tree) has submitted this Notice of Intent (NOI) to the USEPA for coverage under the National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) MAG910000. This letter and supporting documentation were prepared in accordance with the U.S. EPA guidance for construction dewatering under the RGP program for Two East Bacon Street in Plainville, MA (Site). Angle Tree is the Construction Manager for the project and will have direct responsibility for the dewatering activities at the Site. Subcontractors working on the project will be required to meet the requirements of this NOI and the RGP. The location of discharge via a storm drain outfall is shown on Figure 1 and the extent of the Site is shown on Figure 2.

The Site is located on the northeast corner of East Bacon Street and South Street in Plainville, Massachusetts (Figure 1). Redevelopment activities include excavation of fill and natural soils, installation of new utility systems and the earthwork required to prepare the Site for the construction of a new building. Soils impacted by petroleum have been encountered during earthwork activities. The Massachusetts Department of Environmental Protection (DEP) has assigned Release Tracking Number (RTN) 4-24671 to this property under the Massachusetts Contingency Plan (310 CMR 40.0000).

Excavation of contaminated and uncontaminated soils will be required for the construction of the proposed building footings and basement. Groundwater is anticipated to be encountered at approximately six feet below ground surface (bgs). Groundwater that flows

into the excavations during construction and remediation activities will be treated prior to discharge to a storm drain such that the discharged effluent meets the effluent limitations established by Appendix III and Appendix IV of the RGP Application. Figure 3 includes a schematic of the proposed dewatering treatment system. The completed Notice of Intent for the Remediation General Permit form is included as Appendix A. The analytical laboratory data is included in Appendix B. The storm drain discharges to the Ten Mile River.

According to the Massachusetts Geographical Information System (MassGIS), the excavation activities will not impact Areas of Critical Environmental Concern (ACEC) or Habitats of Rare Wetland Wildlife. A review of the information on the U.S. Fish and Wildlife Service website led to the conclusion that the project will not impact federally-listed threatened or endangered species. A letter from that agency is included in Appendix D. A letter requesting information regarding Oceanic Fisheries was sent to the National Oceanic and Atmospheric Administration (NOAA), and their response (Appendix D) states that no listed species are known to occur in the Ten Mile River. Discharge of treated water is scheduled to begin as early as August 19, 2013, pending authorization from the EPA and other agencies.

Thank you for your consideration of this NOI/Permit. Please feel free to contact us if you wish to discuss the information contained in this application, or if any additional information is needed.

Very truly yours,
ANGLE TREE PROPERTIES, INC.

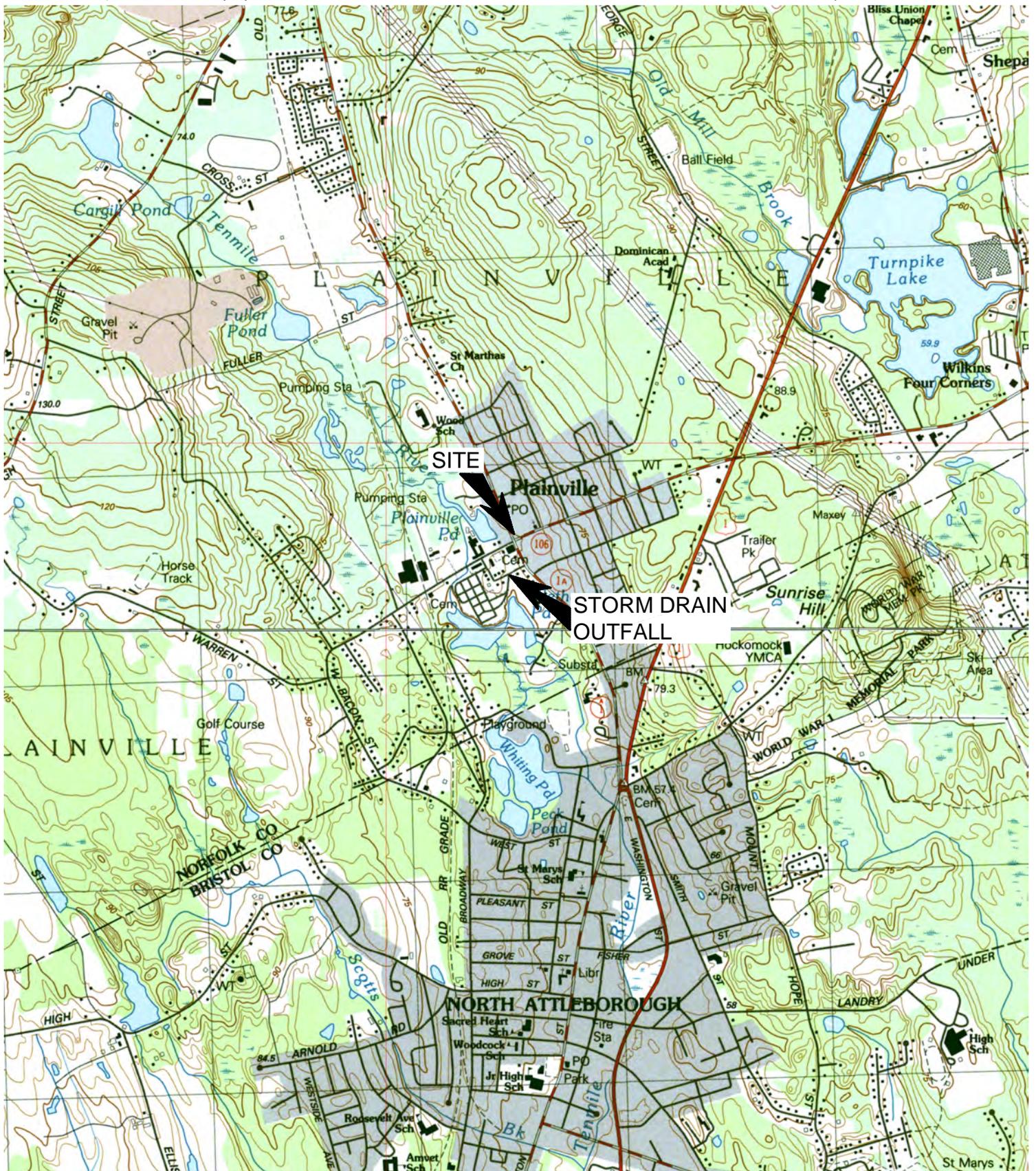


J. David Simmons
President

- encl. Figure 1 – Locus Plan
- Figure 2 – Location of Project Site
- Figure 3 – Proposed Groundwater Treatment Schematic
- Appendix A – Notice of Intent Form
- Appendix B – Analytical Data
- Appendix C – Ten Mile River Calculations
- Appendix D – Federal Correspondence
- Appendix E – National Register of Historic Places, Cambridge, Massachusetts
- Appendix F – Best Management Practices Plan

cc: Plainville Board of Health

FIGURES



SITE

STORM DRAIN OUTFALL



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: Wrentham, MA, REV: 1987

Drawn By: R.Hirtle
 Designed By: Q.Pratt
 Reviewed By: A.Lunn
 Project No: 3611.00
 Date: August 2013

SCALE: 1:25,000



Figure 1

Locus Plan

Notice of Intent for General Remediation Permit

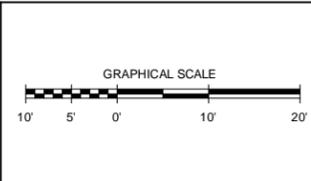
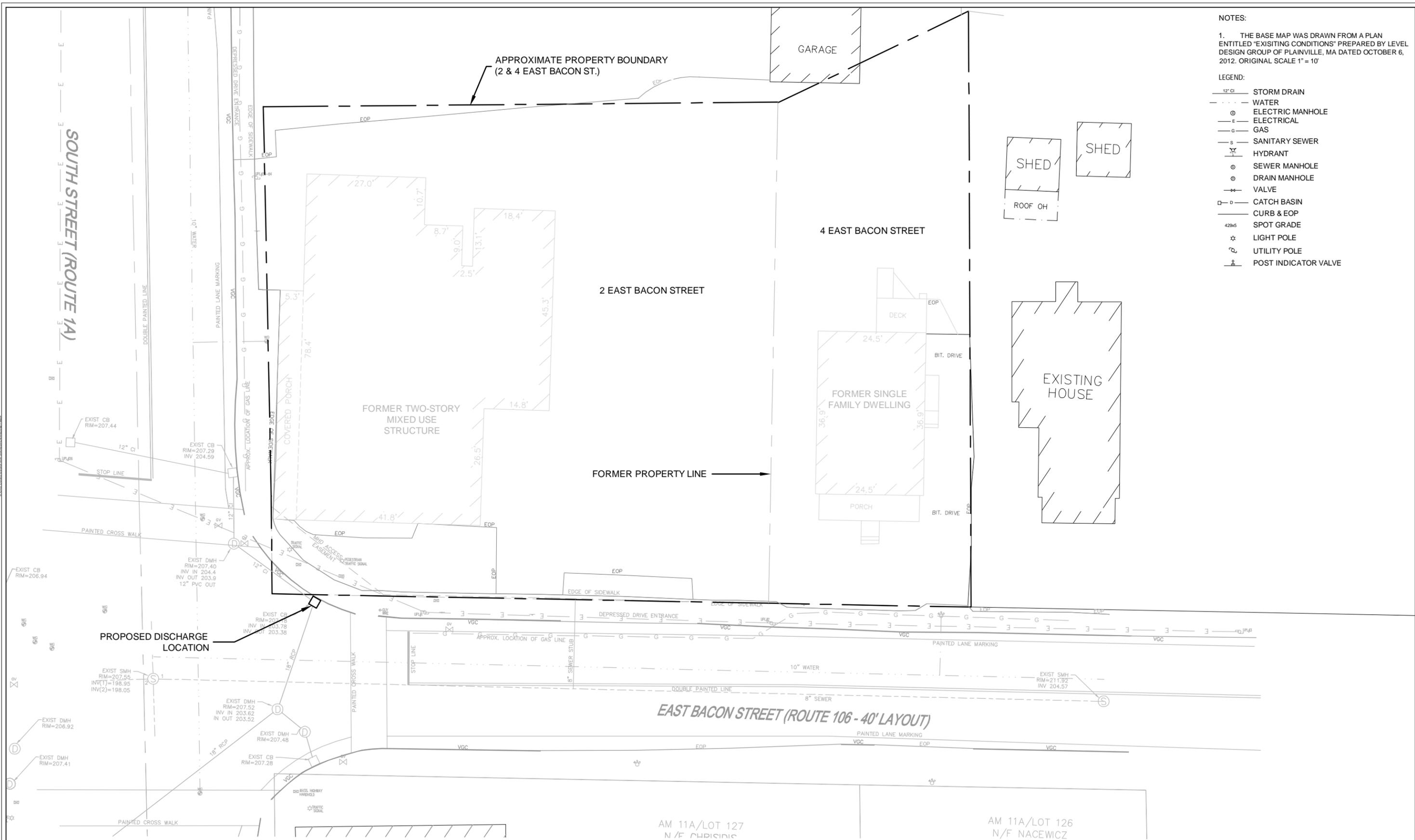
2 East Bacon Street
 Plainville, Massachusetts

NOTES:

1. THE BASE MAP WAS DRAWN FROM A PLAN ENTITLED "EXISTING CONDITIONS" PREPARED BY LEVEL DESIGN GROUP OF PLAINVILLE, MA DATED OCTOBER 6, 2012. ORIGINAL SCALE 1" = 10'

LEGEND:

- 12" CI STORM DRAIN
- WATER
- ⊕ ELECTRIC MANHOLE
- E — ELECTRICAL
- G — GAS
- S — SANITARY SEWER
- HYDRANT
- ⊕ SEWER MANHOLE
- ⊕ DRAIN MANHOLE
- V — VALVE
- ⊕ CATCH BASIN
- C — CURB & EOP
- 42965 SPOT GRADE
- ★ LIGHT POLE
- ⊕ UTILITY POLE
- ⊕ POST INDICATOR VALVE



NO.	DATE	DESCRIPTION	BY

DRAWN BY: R.Hirtle
 DESIGNED BY: Q.Pratt
 REVIEWED BY: L.Garvey
 PROJECT MGR: A.Lunn
 PIC: M.Dipilato
 DATE: August 2013

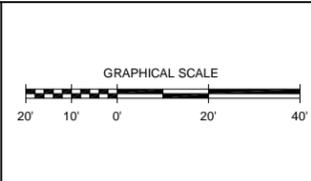
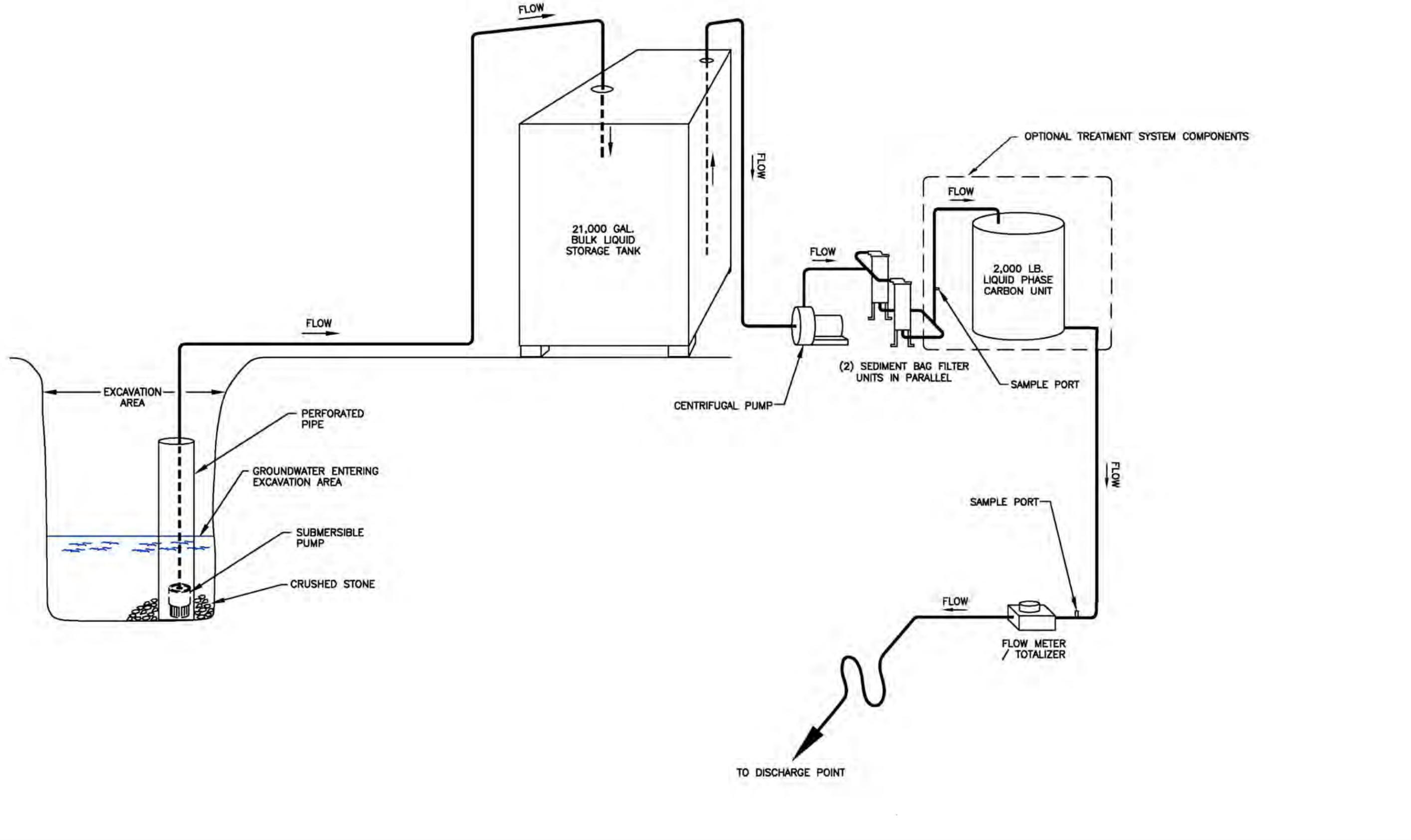
Notice of Intent for General Remediation Permit
2 East Bacon Street
 Plainville, Massachusetts

Existing Conditions Plan

PROJECT NUMBER:
3611.00

SHEET NUMBER:
2

SANBORN HEAD & ASSOCIATES, INC. 0111 SANBORN HEAD & ASSOCIATES, INC.
 MADE IN THE UNITED STATES OF AMERICA
 1000 STATE STREET, SUITE 200, BOSTON, MA 02116
 TEL: 617-552-3300 FAX: 617-552-3301
 WWW.SANBORNHEAD.COM
 PROJECT: 3611.00 - 2 EAST BACON STREET
 SHEET: 3 - PROPOSED GROUNDWATER TREATMENT SCHEMATIC
 DATE: 8/1/2013



NO.	DATE	DESCRIPTION	BY

DRAWN BY: R.Hirtle
 DESIGNED BY: Q.Pratt
 REVIEWED BY: L.Garvey
 PROJECT MGR: A.Lunn
 PIC: M.Dipilato
 DATE: August 2013

Notice of Intent for General Remediation Permit
2 East Bacon Street
 Plainville, Massachusetts
Proposed Groundwater Treatment Schematic

PROJECT NUMBER:
3611.00
 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 : 2 East Bacon Street		Facility/site mailing address:	
Location of facility/site :	Facility SIC code(s):	Street: Facility: 2 East Bacon Street, Plainville, MA, 02762	
longitude: -71.335447	N/A	Mailing: 76 Taunton Street, Plainville, MA 02762	
latitude: 42.004221			
b) Name of facility/site owner : JJK Realty Holdings, LLC		Town: Plainville	
Email address of facility/site owner : davidsimmons@angle-tree.com		State: MA	Zip: 02762
Telephone no. of facility/site owner : 508-695-8999		County: Norfolk	
Fax no. of facility/site owner : 508-695-9982		Owner is (check one): 1. Federal <input type="radio"/> 2. State/Tribal <input type="radio"/>	
Address of owner (if different from site):		3. Private <input checked="" type="radio"/> 4. Other <input type="radio"/> if so, describe:	
Street: 29 Bridal Path			
Town: Plainville	State: MA	Zip: 02762	County: Norfolk
c) Legal name of operator : Angle Tree Properties, Inc.		Operator telephone no.: 508-695-8999	
		Operator fax no.: 508-695-9982	Operator email: davidsimmons@angle-tree.com
Operator contact name and title: J. David Simmons, President			
Address of operator (if different from owner):		Street: 76 Taunton Street	
Town: Plainville	State: MA	Zip: 02762	County: Norfolk

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 type="checkbox"/> B. Known Contaminated Sites <input checked="" 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"/>
---------------------------------------	---

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 for development	
b) Provide the following information about each discharge:	
1) Number of discharge points: <input type="text" value="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="0.112"/> Is maximum flow a design value ? Y <input type="radio"/> N <input checked="" type="radio"/> Average flow (include units) <input type="text" value="0.0223"/> 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="42.001667"/> long <input type="text" value="-71.335833"/>	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"/>	5) Is the discharge intermittent <input checked="" type="radio"/> or seasonal <input type="radio"/> ? Is discharge ongoing? Y <input type="radio"/> N <input checked="" type="radio"/>
c) Expected dates of discharge (mm/dd/yy): start <input type="text" value="Aug 19, 2013"/> end <input type="text" value="Nov 1, 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"/>	

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 type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	2540D	5000	12000			
2. Total Residual Chlorine (TRC)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	4500CL-D	20	ND			
3. Total Petroleum Hydrocarbons (TPH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	1664A	4000	ND			
4. Cyanide (CN)	57125	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	9014	5	ND			
5. Benzene (B)	71432	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	0.5	ND			
6. Toluene (T)	108883	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1.0	ND			
7. Ethylbenzene (E)	100414	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1.0	ND			
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	2.0	ND			
9. Total BTEX ²	n/a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	2.0	ND			
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) ³	106934	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	2.0	ND			
11. Methyl-tert-Butyl Ether (MtBE)	1634044	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	2.0	ND			
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	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.

<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	8260C	2	ND			
14. Naphthalene	91203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	2	ND			
15. Carbon Tetrachloride	56235	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
16. 1,2 Dichlorobenzene (o-DCB)	95501	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
17. 1,3 Dichlorobenzene (m-DCB)	541731	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
18. 1,4 Dichlorobenzene (p-DCB)	106467	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
18a. Total dichlorobenzene		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
19. 1,1 Dichloroethane (DCA)	75343	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
20. 1,2 Dichloroethane (DCA)	107062	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
21. 1,1 Dichloroethene (DCE)	75354	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
22. cis-1,2 Dichloroethene (DCE)	156592	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
23. Methylene Chloride	75092	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	2	ND			
24. Tetrachloroethene (PCE)	127184	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
25. 1,1,1 Trichloro-ethane (TCA)	71556	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
26. 1,1,2 Trichloro-ethane (TCA)	79005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
27. Trichloroethene (TCE)	79016	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	1	ND			
29. Acetone	67641	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C	5	ND			
30. 1,4 Dioxane	123911	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8260C-SIM	3	ND			
31. Total Phenols	108952	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	420.1	30	ND			
32. Pentachlorophenol (PCP)	87865	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D-SIM	0.8	ND			
33. Total Phthalates (Phthalate esters) ⁴		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab						
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	3	ND			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	1.4	ND			
a. Benzo(a) Anthracene	56553	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
b. Benzo(a) Pyrene	50328	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
c. Benzo(b)Fluoranthene	205992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
d. Benzo(k)Fluoranthene	207089	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
e. Chrysene	21801	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
f. Dibenzo(a,h)anthracene	53703	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
g. Indeno(1,2,3-cd) Pyrene	193395	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	1.6	ND			

⁴The 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
i. Acenaphthylene	208968	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
j. Anthracene	120127	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
k. Benzo(ghi) Perylene	191242	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
l. Fluoranthene	206440	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
m. Fluorene	86737	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
n. Naphthalene	91203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
o. Phenanthrene	85018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
p. Pyrene	129000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	8270D	0.2	ND			
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	608	0.25	ND			
38. Chloride	16887006	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	300	5.00	176			
39. Antimony	7440360	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	1.0	ND			
40. Arsenic	7440382	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	6020	1.5	2.2			
41. Cadmium	7440439	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	0.2	ND			
42. Chromium III (trivalent)	16065831	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	6020	5	6			
43. Chromium VI (hexavalent)	18540299	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	7196A	5	ND			
44. Copper	7440508	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	6020	0.5	1.9			
45. Lead	7439921	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	6020	0.5	3.6			
46. Mercury	7439976	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	7470	0.2	ND			
47. Nickel	7440020	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	6020	0.5	1.3			
48. Selenium	7782492	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	1	ND			
49. Silver	7440224	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	grab	6020	0.4	ND			
50. Zinc	7440666	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	6020	5.0	16.1			
51. Iron	7439896	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	grab	6020	50	742			
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? Lead</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: Lead</td> <td>DF: 171</td> </tr> <tr> <td>Metal: _____</td> <td>DF: _____</td> </tr> <tr> <td>Metal: _____</td> <td>DF: _____</td> </tr> <tr> <td>Metal: _____</td> <td>DF: _____</td> </tr> <tr> <td>Etc.</td> <td></td> </tr> </table>	Metal: Lead	DF: 171	Metal: _____	DF: _____	Metal: _____	DF: _____	Metal: _____	DF: _____	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 type="radio"/> N <input checked="" type="radio"/> If Y, list which metals:</p>
Metal: Lead	DF: 171										
Metal: _____	DF: _____										
Metal: _____	DF: _____										
Metal: _____	DF: _____										
Etc.											

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 tank where solids will settle out. The effluent will then pass through a bag filter and granular activated carbon as necessary. The effluent will be discharged through the existing storm drain system.						
b) Identify each applicable treatment unit (check all that apply):	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 checked="" type="checkbox"/>
	Chlorination <input type="checkbox"/>	De-chlorination <input type="checkbox"/>	Other (please describe):			

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate(s)** (gallons per minute) of the treatment system:
 Average flow rate of discharge 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):

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 <input type="checkbox"/>	Within facility (sewer) <input type="checkbox"/>	Storm drain <input checked="" type="checkbox"/>	Wetlands <input type="checkbox"/>	Other (describe): <input type="text"/>
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b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

Into a existing storm water drainage system that discharges to the Ten Mile River at Wetherells Pond

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

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

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)? Excess Algal, fecal coliform, turbidity, phosphorous
 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.

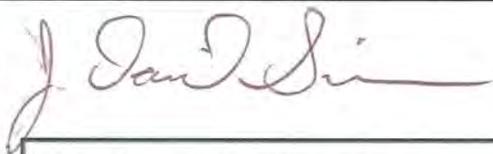
<p>a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit? A <input checked="" type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/></p> <p>b) If you selected Criterion D or F, has consultation with the federal services been completed? Y <input checked="" 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 checked="" 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>Appendix B – Analytical Data Appendix C – Ten Mile River Calculations Appendix D – Federal Correspondence Appendix E – National Register of Historic Places, Cambridge, Massachusetts Appendix F – Best Management Practices Plan</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:	2 East Bacon Street
Operator signature:	
Printed Name & Title:	J. David Simmons, Esq., President
Date:	August 12, 2013

APPENDIX B
ANALYTICAL DATA

Table 1
Summary of Groundwater Quality Data
NPDES Remediation General Permit
Two East Bacon Street
Plainville, Massachusetts

Sample ID	Laboratory Analytical Method	Units	NPDES	NPDES RGP Effluent Limit (2010)
Sample Date			7/26/13	
General Parameters				
Total Suspended Solids	2540D	mg/l	12	30
Total Residual Chlorine ²	4500CL-D	mg/l	<0.02	11
Total Cyanide	9014	mg/l	<0.005	5.2
Total Phenolics	420.1	mg/l	<0.03	300
Total Petroleum Hydrocarbons (TPH)	1664A	mg/l	<4	5
Chloride	300	mg/l	176	Monitor Only
Total Metals				
Antimony	6020A	ug/l	<1	5.6
Arsenic	6020A	ug/l	2.2	10
Cadmium	6020A	ug/l	<0.2	0.2
Chromium	6020A	ug/l	0.6	48.8
Hexavalent Chromium	7196A	ug/l	<10	11.4
Copper	6020A	ug/l	1.9	5.2
Iron	6020A	ug/l	742	1,000
Lead	6020A	ug/l	3.6	1.3
Mercury	7470A	ug/l	<0.2	0.9
Nickel	6020A	ug/l	1.3	29
Selenium	6020A	ug/l	<1.0	5.0
Silver	6020A	ug/l	<0.4	1.2
Zinc	6020A	ug/l	16.1	66.6
Pesticides				
1,2-Dibromoethane	504.1	ug/l	<0.01	0.05
Volatile Organic Compounds (VOCs)				
Methylene chloride (Dichloromethane) ³	8260C	ug/l	<2	4.6
1,1-Dichloroethane (DCA)	8260C	ug/l	<1	70
Carbon tetrachloride	8260C	ug/l	<1	4.4
1,1,2-Trichloroethane (TCA)	8260C	ug/l	<1	5.0
Tetrachloroethene (PCE)	8260C	ug/l	<1	5.0
1,2-Dichloroethane (DCA)	8260C	ug/l	<1	5.0
1,1,1-Trichloroethane (TCA)	8260C	ug/l	<1	200
Benzene (B)	8260C	ug/l	<0.5	5
Toluene (T)	8260C	ug/l	<1	see Total BTEX
Ethylbenzene (E)	8260C	ug/l	<1	see Total BTEX
Vinyl chloride (Chloroethene)	8260C	ug/l	<1	2.0
1,1-Dichloroethene (DCE)	8260C	ug/l	<1	3.2
Trichloroethene (TCE)	8260C	ug/l	<1	5.0
1,2-Dichlorobenzene (o-DCB)	8260C	ug/l	<1	600
1,3-Dichlorobenzene (m-DCB)	8260C	ug/l	<1	320
1,4-Dichlorobenzene (p-DCB)	8260C	ug/l	<1	5.0
Methyl tert butyl ether (MtBE)	8260C	ug/l	<2	70
p/m-Xylene	8260C	ug/l	<2	see Total BTEX
o-Xylene	8260C	ug/l	<1	see Total BTEX
cis-1,2-Dichloroethene (DCE)	8260C	ug/l	<1	70
Acetone	8260C	ug/l	<5	Monitor Only
Naphthalene	8260C	ug/l	<2	20
Tertiary-Amyl Methyl Ether (TAME)	8260C	ug/l	<2	Monitor Only
tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	8260C	ug/l	<10	Monitor Only
Total BTEX ⁴	8260C	ug/l	<2	100

Table 1
Summary of Groundwater Quality Data
NPDES Remediation General Permit
Two East Bacon Street
Plainville, Massachusetts

Sample ID	Laboratory Analytical Method	Units	NPDES	NPDES RGP Effluent Limit (2010)
Sample Date			7/26/13	
Semivolatile Organics (SVOCs)				
Bis(2-Ethylhexyl)phthalate	8270D	ug/l	<3	6.0
Total Phthalates (Phthalate esters) ⁶	8270D	ug/l	<5	5.0
Semivolatile Organics (SIM)				
Acenaphthene ⁷	8270D-SIM	ug/l	<0.2	see Total Group II PAHs
Fluoranthene ⁷	8270D-SIM	ug/l	<0.2	see Total Group II PAHs
Naphthalene ⁷	8270D-SIM	ug/l	<0.2	20
Benzo(a)anthracene ^{8,3}	8270D-SIM	ug/l	<0.2	0.1
Benzo(a)pyrene ^{8,3}	8270D-SIM	ug/l	<0.2	0.1
Benzo(b)fluoranthene ^{8,3}	8270D-SIM	ug/l	<0.2	0.1
Benzo(k)fluoranthene ^{8,3}	8270D-SIM	ug/l	<0.2	0.1
Chrysene ^{8,3}	8270D-SIM	ug/l	<0.2	0.1
Acenaphthylene ⁷	8270D-SIM	ug/l	<0.2	see Total Group II PAHs
Anthracene ⁷	8270D-SIM	ug/l	<0.2	see Total Group II PAHs
Benzo(ghi)perylene ⁷	8270D-SIM	ug/l	<0.2	see Total Group II PAHs
Fluorene ⁷	8270D-SIM	ug/l	<0.2	see Total Group II PAHs
Phenanthrene ⁷	8270D-SIM	ug/l	<0.2	see Total Group II PAHs
Dibenzo(a,h)anthracene ^{8,3}	8270D-SIM	ug/l	<0.2	0.1
Indeno(1,2,3-cd)Pyrene ^{8,3}	8270D-SIM	ug/l	<0.2	0.1
Pyrene ⁷	8270D-SIM	ug/l	<0.2	see Total Group II PAHs
Pentachlorophenol (PCP)	8270D-SIM	ug/l	<0.8	1.0
1,4-Dioxane ³	8260C-SIM	ug/l	<3	Monitor Only
Total Group I Polycyclic Aromatic Hydrocarbons (PAH) ⁹	8270C-SIM	ug/l	<1.4	10.0
Total Group II Polycyclic Aromatic Hydrocarbons (PAH) ¹⁰	8270C-SIM	ug/l	<1.6	100
Polychlorinated Biphenyls (PCBs)				
Aroclor 1016 ¹¹	608	ug/l	<0.25	NS
Aroclor 1221 ¹¹	608	ug/l	<0.25	NS
Aroclor 1232 ¹¹	608	ug/l	<0.25	NS
Aroclor 1242 ¹¹	608	ug/l	<0.25	NS
Aroclor 1248 ¹¹	608	ug/l	<0.25	NS
Aroclor 1254 ¹¹	608	ug/l	<0.25	NS
Aroclor 1260 ¹¹	608	ug/l	<0.2	NS
Total PCBs ¹²	608	ug/l	<0.25	0.5

Notes:

- The sample was collected by Sanborn, Head & Associates, Inc. personnel on the date indicated and was submitted to Alpha Analytical, Inc. of Westborough, MA for analysis.
- 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.
- RL achieved by laboratory was above the RL required in Appendix VI of the RGP and above the Effluent Limit. Please see attached correspondence between EPA and laboratory regarding analytical requirements.
- Total BTEX = Sum of benzene, toluene, ethylbenzene, and p,m and o Xylene.
- Individual phthalate compound.
- "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.
- Group II PAHs.
- 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 (i.e. 0.10 ug/l for Method 8270 SIM).
- Sum of Group I PAHs. The RL for Total Group I PAHs is the sum of each Group I PAH RL.
- Sum of Group II PAHs. The RL for Total Group I PAHs is the sum of each Group I PAH RL.
- Individual PCB congener.
- 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).
- 'SHADED' values indicate exceedences 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
- Monitor Only means that the subject compound is not subject to a (criteria) limit, however, the the Permittee is still required to monitor and report the effluent concentration.

APPENDIX C

TEN MILE RIVER 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 = 50 gpm from the system = 0.112 cfs

Qs = 19 cfs of flow in the Ten Mile River [Reference 1]

CALCULATION:

$$DF = (0.112 \text{ cfs} + 19 \text{ cfs}) / 0.112 \text{ cfs}$$

$$DF = 170$$

RESULTS:

The resulting dilution factor to be used when discharging to the Ten Mile River is 170.

REFERENCES:

- [1] State of Rhode Island, Department of Environmental Management, Office of Water Resources Surface Water Protection Section: Surface Water Monitoring in the Ten Mile River Watershed Draft Report, p. 12. April 2011(Refer to Attachment A)

significantly alter the flow rate and water quality of the Ten Mile River and its impoundments.

The watershed contains 50 lakes and ponds, many of which are along the main channel of the Ten Mile River. Twenty seven of the lakes in the basin have areas of 10 acres or more. The principal aquifers in the Ten Mile River Basin are stratified-drift deposits in valleys and lowlands. These aquifers are hydraulically connected to surface-water bodies and underlie about one-half of the basin. Many dams were built along the river, and, for much of its length, the river flows through impoundments or is confined by concrete or masonry retaining walls (Simcox, 1992). The river altitude in the basin decreases mostly at the dams

The US Geological Survey (USGS) operates a single gaging station (01109403) in the Ten Mile River (<http://waterdata.usgs.gov/nwis/uv?01109403>). The gage is located downstream of the Turner Reservoir and at the same location as station TM6 (Pawtucket Avenue- East Providence, RI). The period of record is from October 1986 to the current year. The calculated mean daily flow for the Ten Mile River at station 01109403 is 109 cfs and the 7Q10 flow is 19 cfs. Historical discharge, expressed as daily mean flow, is presented in Figure 3.

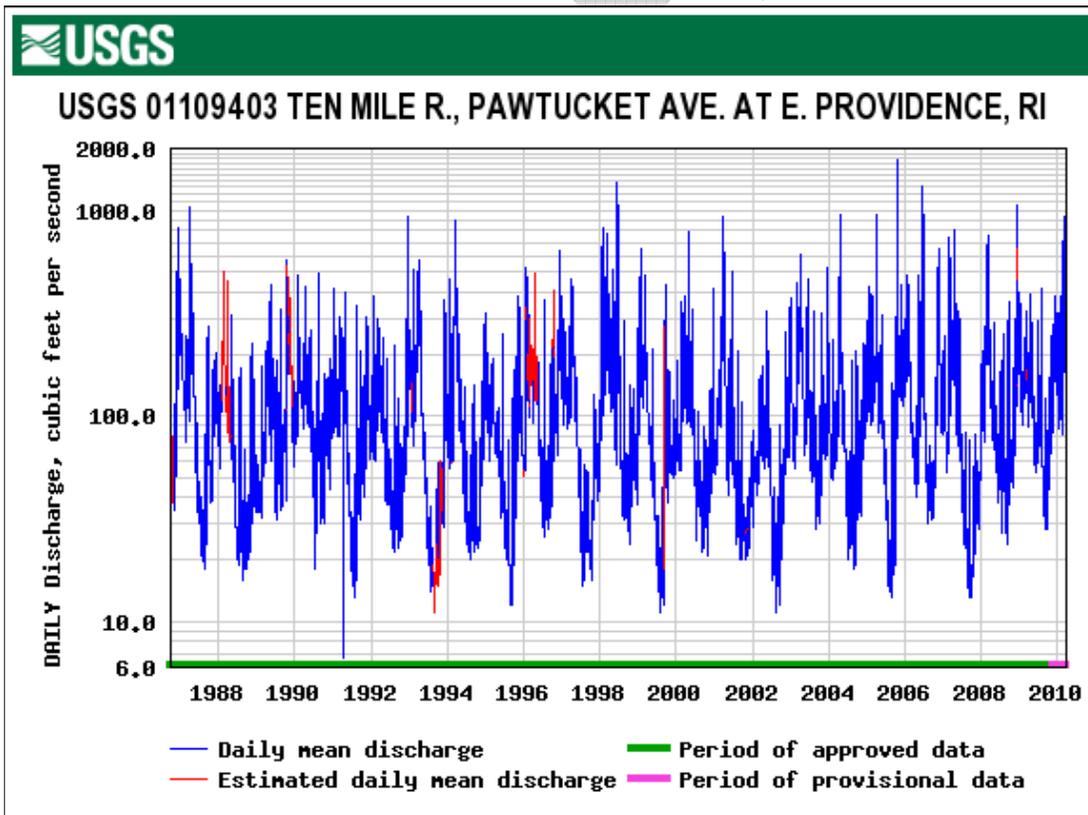


Figure 3. Historical discharge at USGS gage 01109403 on the Ten Mile River.

APPENDIX D

FEDERAL CORRESPONDENCE

National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Northeast Region
55 Great Republic Drive,
Gloucester, MA 01930-2276

July 31, 2013
File No. 3611.00

Re: Application for NPDES RGP
2 East Bacon Street
Plainville, MA

Dear Sir/Madam:

Sanborn, Head & Associates, Inc. (Sanborn Head) is submitting this request for information to be included in a Notice of Intent (NOI) for a Remediation General Permit (RGP). The NOI is for construction dewatering during construction at 2 East Bacon Street in Plainville, MA. Effluent will be discharged to the Wetherells Pond portion of the Ten Mile River in Plainville, MA, via a drain and outfall. The outfall is located on the northern bank of Wetherells Pond at approximately 42° 00' 06" N and 71° 20' 9" W.

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 Ten Mile River located downstream of the Wetherells Pond. Thank you in advance for your assistance.

Very truly yours,
SANBORN, HEAD & ASSOCIATES, INC.



Quincy Pratt
Engineer

QP/LJG: qp

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Quincy Pratt

From: Christine Vaccaro - NOAA Federal [christine.vaccaro@noaa.gov]
Sent: Tuesday, August 06, 2013 9:54 AM
To: Quincy Pratt
Subject: Plainville MA RGP

Dear Mr. Pratt,

There are no known species listed by the National Marine Fisheries Service in the area of the construction dewatering at 2 East Bacon Street in Plainville, MA in the stretch of the Ten Mile River you have indicated in your letter.

Feel free to email any further requests to us for RGP coverage.

Cheers,
Chris

Chris Vaccaro
Fisheries Biologist
Protected Resources Division
NOAA Fisheries/NERO
Gloucester, MA
Phone: 978-281-9167
Email: christine.vaccaro@noaa.gov



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, 2013

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 Mr. Brett Hillman of this office at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

APPENDIX E

**NATIONAL REGISTER OF HISTORICAL PLACES,
PLAINVILLE, MASSACHUSETTS**

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

Site Name	Address	Date Listed
Angle Tree Stone	West of North Attleborough off High Street	5/10/1979

Notes:

Sanborn, Head & Associates, Inc. (Sanborn Head) conducted a review of the National Register of Historic Places within Plainville, Massachusetts. The search returned 1 result, none of which is 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
Two East Bacon Street
Plainville, 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 Two East Bacon Street, Plainville, Massachusetts. The dewatering discharge will be conveyed through the existing storm drains and outfall to the Wetherells Pond portion of the Ten Mile River in Plainville, MA.

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. 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 excavations will be conducted within the limits of a Massachusetts Contingency Plan (MCP) release site. As such, the wastes that are generated during the operation of the dewatering treatment system will be managed as MCP wastes. The anticipated wastes are sediment that accumulates in the fractionalization tank, used bag filters, spent activated carbon (if used), 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.

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 one fractionalization tank, and two bag filter vessels (installed in parallel so the system does not need to be shut down for bag filter changeout). The system will also be designed to incorporate an active carbon treatment vessel if effluent sampling data shows that additional treatment is needed. However, baseline groundwater sampling analytical data indicates that an active carbon treatment vessel will likely not be needed. Sample ports will be available after the bag filter, and after the carbon vessel (if needed).

The bag filters will be replaced whenever the pressure drop across the filters exceeds the system's design criteria. If used, the carbon 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 Ten Mile River, it is not anticipated that the dewatering discharge will cause erosion, stream scouring at the discharge point, or additional sedimentation in the Ten Mile River.