ENVIRONMENTAL NOTIFICATION FORM

MASSDEVELOPMENT PATTON AND SHABOKIN WATER TREATMENT PLANTS

SUBMITTED ON BEHALF OF:

MassDevelopment 33 Andrews Parkway Devens, MA 01434

PREPARED BY:

Caron Environmental Consulting, LLC 247 Bragg Hill Road Westminster, MA 01473

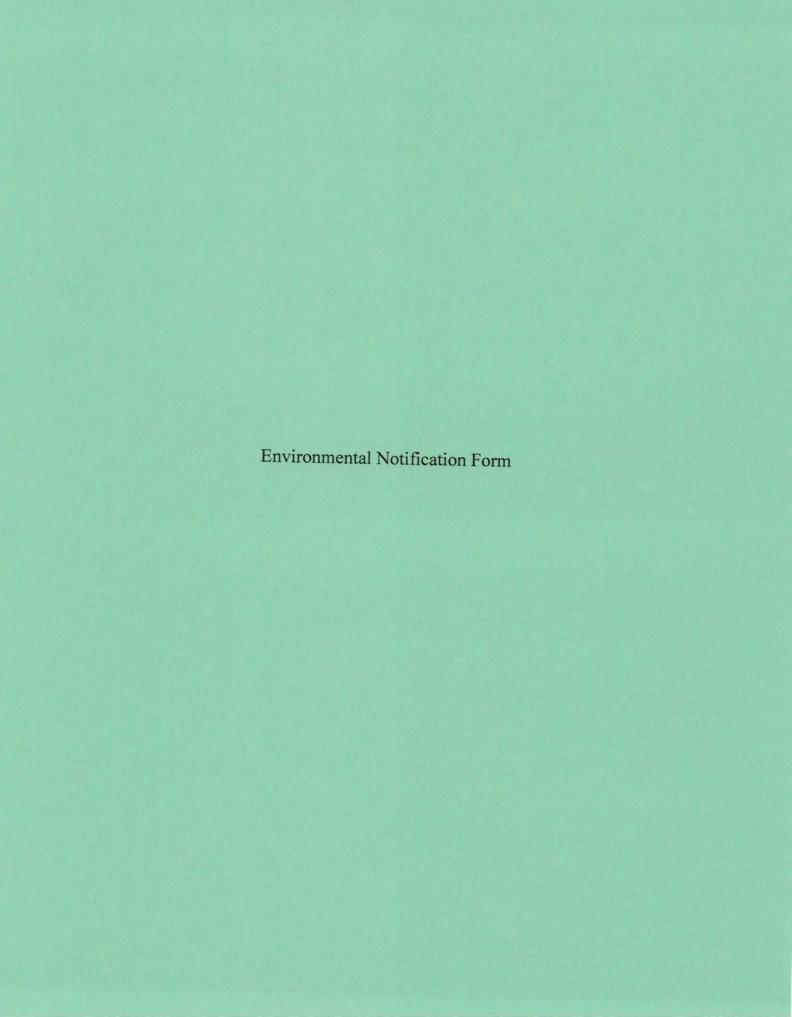
PROJECT ENGINEER:

Wright-Pierce 600 Federal Street; Suite 2151 Andover, MA 01810

September 2020

TABLE OF CONTENTS

- 1. Environmental Notification Form
- 2. Lists, Maps & Photographs:
 - o List of Attachments
 - o Distribution List
 - o List of Local and Federal Permits Required
 - o Locus Map
 - o NHESP Estimated/Priority Habitat Area
 - Site Photographs
- 3. Pilot Study Approvals
- 4. Notice of Intent & Request for Determination of Applicability
- 5. Natural Heritage & Endangered Species Program Correspondence
- 6. Stormwater Management Plan
- 7. Massachusetts Historical Commission Response
- 8. Plans:
 - o 11 x 17 plans



Commonwealth of Massachusetts

Executive Office of Energy and Environmental Affairs Massachusetts Environmental Policy Act (MEPA) Office

Environmental Notification Form

For Office Use Only					
EEA#:					
MEPA Analyst:					
The information requested on to electronically for review under t	his form must be o he Massachusetts	comp s Env	oleted in order vironmental Po	to submit a document plicy Act, 301 CMR 11.00.	
Project Name: Patton & Shall	ookin Water Trea	atme	nt Plante		
Street Address: 150 Patton F	Road & 88 Sheric	dan	Road		
Municipality: Devens				shua River Basin	
Universal Transverse Mercat	or Coordinates:		titude:42°31'4		
19 285978mE4711891mN			ngitude:71°36		
Estimated commencement da	ate: 02/21/21			pletion date: 11/09/22	
Project Type: Public Water S	upply	Sta	itus of projec	t design: 95%complete	
Proponent: MassDevelopmer	nt			- a - o - g - n - o - n - o - n - o - o - o - o - o	
Street Address:33 Andrews F	Parkway				
Municipality: Devens			State: MA	Zip Code: 01434	
Name of Contact Person: Cha	arles Caron				
Firm/Agency: Caron Environme	ental Consulting, L	LC	Street Addre	ess: 247 Bragg Hill Road	
wurlicipality. Westirlinster		16	State: MA	Zip Code: 01473	
Phone: (978) 944-2326	Fax:		E-r	mail: caronenv@aol.com	
Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)? Yes					
Which State Agency Permits will to BRP WS 24- Approval to Construction and the amount to Break and the Bre	ct a Water Treatm	? ent f	acility With a		

& Environmental Impacts	Existing	Change	Total
LAND	STATE OF THE PERSON	District the second second	
Total site acreage	62.49		
New acres of land altered	52,43	0.32 acres	
Acres of impervious area	0.95	+1.51	
Square feet of new bordering vegetated wetlands alteration	0.50	0.00	2.46
Square feet of new other wetland alteration		0.00	
Acres of new non-water dependent use of tidelands or waterways		0.00	
STRUCTURES			
Gross square footage	2770 sq. ft.	+16160 sq. ft.	18930 sq. ft.
Number of housing units	0	0	0
Maximum height (feet)	16'±	+14'	30'
TRANSPORTATION	TELESCOPE AND ESCAP		
Vehicle trips per day	4	+2	6
Parking spaces	0	+5	5
WASTEWATER			
Nater Use (Gallons per day)	1.44 MGD	0.00	1.44 MGD
Vater withdrawal (GPD)	1.44 MGD	0.00	1.44 MGD
Wastewater generation/treatment GPD)	0 GPD	+200 GPD	200 GPD
ength of water mains (miles)	0.7	+0.5	1.2
ength of sewer mains (miles)	0	0	0

GENERAL PROJECT INFORMATION - all proponents must fill out this section

PROJECT DESCRIPTION:

Describe the existing conditions and land uses on the project site:

Water treatment plants are proposed in two locations; 150 Patton Road and 88 Sheridan Road. The 96 Patton Road site is located on the south side of Patton Road, in a gravel turnaround/parking area surrounded by a revegetated gravel pit. The 88 Sheridan Road site is located in an abandoned gravel pit. Both sites are located close to the existing public water supply wells.

Describe the proposed project and its programmatic and physical elements:

The Patton and Shabokin Wells have historically had manganese concentrations above the Secondary Maximum Containment Level of 0.05 mg/L. The Patton Well's manganese concentration is approaching the Massachusetts Office of Research and Standards Guideline Level (ORSGL) of 30 mg/L and the Shabokin Well's manganese concentration has exceeded the ORSGL. In addition, PFAS concentrations in the source water at both sites have been measured above the current MCL of 20 ppt. Accordingly, the implementation of treatment is necessary for these two sources. Currently, MassDevelopment is utilizing temporary PFAS treatment equipment approved by MassDEP as full-scale pilot systems at the Shabokin, Patton and MacPherson Wells to provide required treatment in the interim before the new WTPs are constructed. Note the new MacPherson Well WTP is being designed and permitted under a separate contract and is not part of this project.

An additional groundwater source, preliminarily referred to as the Sheridan Road Well, has been permitted and approved for construction by the Massachusetts Department of Environmental Protection. Water quality testing has predicted a similarly high concentration of manganese and iron. The Shabokin Water Treatment Plant will be used for the treatment of water from the new well once constructed.

The project consists of the construction of two water treatment plants, one at 150 Patton Road (Patton WTP) and one at 88 Sheridan Road (Shabokin WTP).

The Patton WTP's construction will require the of clearing 0.38 acres of woods, and the construction of a 7500 sq.ft. water treatment plant, a paved driveway with 2 parking spaces, an emergency generator and propane tank on concrete pads, a 4000-gallon tight tank for sewage, a 10,000-gallon residuals holding tank and appurtenances. A new water main along Patton Road between the water treatment plant and well site will also be installed. The majority of the work will take place in areas that are already disturbed. The source of water will be the existing Patton Well. No increase in withdrawal is proposed.

The Shabokin WTP's construction will require the clearing of 0.30 acres of woods, and construction of a 7500 sq.ft. water treatment plant, a paved driveway with 3 parking spaces, an emergency generator and fuel tank on concrete pads, a propane tank on a concrete pad, a 4000-gallon tight tank for sewage, a 10,000-gallon residuals holding tank, the installation of water mains between the water treatment plant and well site, 3 hydrants and appurtenances. The majority of the work will take place in areas that were previously disturbed. The source of water will be the existing Shabokin Well and future Sheridan Road Well. No increase in withdrawal is proposed.

All of the proposed work at the Patton WTP Site will be outside of the 100-foot Buffer Zone with the exception of 135 linear feet of finished water main and 15 linear feet of underground electrical conduit. The finished water main will be located entirely within the road or its shoulder. The underground electrical conduit will be installed within a previously disturbed area.

The majority of the proposed work at Shabokin WTP site will be outside of the 100-foot buffer zone. Clearing of 0.10 acres of woods, a portion of the access drive, portions of a stormwater basin, a hydrant, 160 linear feet of raw water main, 290 linear feet of finish water main and 390 linear feet of underground electrical conduit are proposed within the 100-foot buffer zone.

Both the Patton WTP Site and Shabokin WTP Site are located entirely within an Estimated/Priority Habitat Area for Blanding's Turtles. The Natural Heritage and Endangered Species Program is being consulted and approval from them will be necessary.

Describe the on-site project alternatives (and alternative off-site locations, if applicable), considered by the proponent, including at least one feasible alternative that is allowed under current zoning, and the reasons(s) that they were not selected as the preferred alternative:

One alternative is to do nothing. This alternative is unfeasible as the treatment of the high levels of manganese is required. This option would leave Devens without the necessary supply of water meeting DEP's standards.

Another alternative is to treat both sources at a single water treatment plant. This alternative was initially the preferred one. It was found, however, that the cross-country water main between the well sites is in very poor condition and would need to be replaced. This would require substantial work around Mirror Lake, in an area currently under a conservation restriction. This alternative is not preferred as it will increase disturbance in the buffer zone and in the area under a conservation restriction.

The last alternative is the proposed project. This is the preferred alternative as it will minimize disturbance, while achieving the goals of the project. Two water treatment plants will also provide for redundancy so that one water treatment plant can be taken offline for maintenance or repairs.

Quantitative Alternatives Analysis of Environmental Impacts

Patton & Shabokin Water Treatment Plants MassDevelopment

Alternatives	1. Do Nothing	2. Single Water Treatment Plant	3. Two Water Treatment Plants
New Land Alteration	0.0 Acres	0.3 Acres	0.3 Acres
Estimated Total Disturbance	0.0 Acres	0.9 Acres	1.5 Acres
Alteration in Buffer Zone	0.0 Acres	0.6 Acres	0.2 Acres
Alteration in Estimated/Priority Habitat Area	0.0 Acres	0.9 Acres	1.5 Acres
Alteration in Conservation Restriction	0.0 Acres	0.5 Acres	0.0 Acres

Summarize the mitigation measures proposed to offset the impacts of the preferred alternative:

The environmental impacts of the water treatment plants will be minimized by siting them in previously disturbed areas, and by locating them close to the existing wells thereby reducing the need to construct new infrastructure.

The Patton WTP is located entirely outside of the 100-foot buffer zone and the only work proposed within a buffer zone is the installation of watermain within a roadway and underground electrical conduit within a previously disturbed area.

The majority of the Shabokin WTP is located outside of the 100-foot buffer zone. The only work proposed within the buffer zone is the clearing of 0.10 acres of woods, a portion of the access drive, portions of a stormwater basin, 160 linear feet of raw water main, 290 linear feet of finish water main and 390 linear feet of underground electrical conduit.

The attached stormwater reports and site plans detail the stormwater management features on the site.

If the project is proposed to be constructed in phases, please describe each phase:

The proposed project has two distinct components, but no phasing within them is proposed. They are proposed to be constructed in a staggered manner so only one well facility needs to be offline at a given time.

Construction at the Patton WTP is proposed to start February 21, 2021 and end May 12, 2022. The Shabokin WTP is proposed to start August 12, 2021 and end November 9, 2022.

Is the project within a medium or high stress basin, as established by the Massachusetts Water Resources Commission? ⊠Yes □No
STORMWATER MANAGEMENT:
Generally describe the project's stormwater impacts and measures that the project will take to comply with the standards found in MassDEP's Stormwater Management Regulations:
Stormwater basins, sediment forebays, swales with stone check dams and other controls are proposed. The stormwater treatment consists of infiltration basins to promote groundwater recharge and reduce runoff from the site. The attached stormwater reports and site plans detail the stormwater management features on the sites.
MASSACHUSETTS CONTINGENCY PLAN:
Has the project site been, or is it currently being, regulated under M.G.L.c.21E or the Massachusetts Contingency Plan? Yes No; if yes, please describe the current status of the site (including Release Tracking Number (RTN), cleanup phase, and Response Action Outcome classification):
Is there an Activity and Use Limitation (AUL) on any portion of the project site? ☐Yes ☒No; if yes, describe which portion of the site and how the project will be consistent with the AUL:
Are you aware of any Reportable Conditions at the property that have not yet been assigned an RTN? ☐Yes ☐No; if yes, please describe:
SOLID AND HAZARDOUS WASTE:
If the project will generate solid waste during demolition or construction, describe alternatives considered for re-use, recycling, and disposal of, e.g., asphalt, brick, concrete, gypsum, metal, wood:
The construction will generate waste typically associated with construction projects, including packaging and shipping materials, and waste construction materials.
(NOTE: Asphalt pavement, brick, concrete and metal are banned from disposal at Massachusetts landfills and waste combustion facilities and wood is banned from disposal at Massachusetts landfills. See 310 CMR 19.017 for the complete list of banned materials.)
Will your project disturb asbestos containing materials? ⊠Yes □No; if yes, please consult state asbestos requirements at http://mass.gov/MassDEP/air/asbhom01.htm
Describe anti-idling and other measures to limit emissions from construction equipment:
Contractors shall comply with any anti-idling regulations that are applicable.
DESIGNATED WILD AND SCENIC RIVER:
Is this project site located wholly or partially within a defined river corridor of a federally designated Wild and Scenic River or a state designated Scenic River? Yes No; if yes, specify name of river and designation:
If yes, does the project have the potential to impact any of the "outstandingly remarkable" resources of a federally Wild and Scenic River or the stated purpose of a state designated Scenic River? Yes No; if yes, specify name of river and designation: ; if yes, will the project will result in any impacts to any of the designated "outstandingly remarkable" resources of the Wild and Scenic River or the stated purposes of a Scenic River. Yes No; if yes, describe the potential impacts to one or more of the "outstandingly remarkable" resources or stated purposes and mitigation measures proposed.

ATTACHMENTS:

- 1. List of all attachments to this document.
- 2. U.S.G.S. map (good quality color copy, 8-1/2 x 11 inches or larger, at a scale of 1:24,000) indicating the project location and boundaries.
- Plan, at an appropriate scale, of existing conditions on the project site and its immediate environs, showing all known structures, roadways and parking lots, railroad rights-of-way, wetlands and water bodies, wooded areas, farmland, steep slopes, public open spaces, and major utilities.
- 4. Plan, at an appropriate scale, depicting environmental constraints on or adjacent to the project site such as Priority and/or Estimated Habitat of state-listed rare species, Areas of Critical Environmental Concern, Chapter 91 jurisdictional areas, Article 97 lands, wetland resource area delineations, water supply protection areas, and historic resources and/or districts.
- Plan, at an appropriate scale, of proposed conditions upon completion of project (if construction of the project is proposed to be phased, there should be a site plan showing conditions upon the completion of each phase).
- List of all agencies and persons to whom the proponent circulated the ENF, in accordance with 301 CMR 11.16(2).
- 7. List of municipal and federal permits and reviews required by the project, as applicable.

IND S	<u> ECTION</u> – all proponents mus	t fill out this sec	ction		
	hresholds / Permits Does the project meet or exceed any ☐Yes ☑No; if yes, specify each thr	review thresholds	related to land (s	see 301 CMR 11.03(1)	
		resnoid.			
II. In	npacts and Permits Describe, in acres, the current and process in acres.	roposed character o	f the project site	as follows:	
	Footprint of buildings Internal roadways Parking and other paved areas Other altered areas Undeveloped areas Total: Project Site Acreage	Existing 0.064 0.971 0.126 6.214 55.115 62.490	Change +0.344 +0.000 +1.199 -1.543 0.000 0.000	Total 0.408 0.971 1.325 4.671 55.115 62.490	
B.	Has any part of the project site be ☐Yes ☒No; if yes, how many acres important agricultural soils) will be con	of land in agricultur	al use (with prim	e last five years? ne state or locally	
C.	Is any part of the project site currently ☐Yes ☒No; if yes, please describe whether any part of the site is the sub Department of Conservation and Rec	current and propose ject of a forest man	ed forgetry activit	ice and indicate	
D.	D. Does any part of the project involve conversion of land held for natural resources purposes in accordance with Article 97 of the Amendments to the Constitution of the Commonwealth to any purpose not in accordance with Article 97? ☐Yes ☒No; if yes, describe:				
E.	Is any part of the project site currently restriction, agricultural preservation re Yes No; if yes, does the project Yes No; if yes, describe:	Striction or watershe	od preservation r	actriction?	
F.	Does the project require approval of a change in an existing urban redevelop if yes, describe:	new urban redevelo ment project under	opment project o M.G.L.c.121A?	r a fundamental ∐Yes ⊠No;	
G.	Does the project require approval of a existing urban renewal plan under M.G.	new urban renewal G.L.c.121B? ∐Yes	plan or a major i ⊠No; if yes, des	modification of an scribe:	
	nsistency Identify the current municipal compre	obeneji se tened			
	Title: Devens Reuse Plan				
d	eveloping sectors. The project is consist uality water for the area.	looks to provide for stent with the plan ir	the growth of ex that it is ensuring	ng adequate high-	
	adequacy of infrastructure: The place of adequacy of infrastructure: The place of the plan in that	an looks to attract la the project is to mai	rge water users ntain and improv	to the site. The e the amount and	

quality of water being supplied to the area. open space impacts: The plan looks to protect and enhance environmental resources. The project is consistent in that it will minimize the impact by primarily utilizing disturbed areas.

4) compatibility with adjacent land uses: The improvement of water infrastructure in the

area supports the adjacent land uses.

C. Identify the current Regional Policy Plan of the applicable Regional Planning Agency (RPA) RPA: Montachusett Regional Planning Commission

Title: Montachusett Regional Strategic Framework Plan Date: April 2011

D. Describe the project's consistency with that plan with regard to:

- 1) economic development: The goal of the plan is to strengthen the economy of the region. It seeks to do this through providing adequate infrastructure, designing and location development to preserve the regions environmental heritage, and use infrastructure efficiently. The project is consistent with this in that it provides infrastructure in close proximity to ongoing development.
- adequacy of infrastructure: Another goal of the pan is to provide adequate infrastructure.
 The project's purpose is to maintain and improve the amount and quality of water being supplied to the community.
- 3) open space impacts: The goal of the plan is to protect and preserve sensitive open space. The project is consistent with this in that it will minimize the impact by primarily utilizing disturbed areas.

RARE SPECIES SECTION

II.

I. T		W	sholds / Permits fill the project meet or exceed any review thresholds related to rare species or habitat (see 01 CMR 11.03(2))? ☐Yes ☒No; if yes, specify, in quantitative terms:
		(1	IOTE: If you are uncertain, it is recommended that you consult with the Natural Heritage and Indangered Species Program (NHESP) prior to submitting the ENF.)
	B.	Do	pes the project require any state permits related to rare species or habitat? Yes No
	C.	the	bes the project site fall within mapped rare species habitat (Priority or Estimated Habitat?) in e current Massachusetts Natural Heritage Atlas (attach relevant page)? ⊠Yes □No.
	D.		you answered "No" to <u>all</u> questions A, B and C, proceed to the Wetlands, Waterways, and delands Section. If you answered "Yes" to <u>either</u> question A or question B, fill out the mainder of the Rare Species section below.
11	Imi	nac	ts and Permits
•••	Α.	He If y	hes the project site fall within Priority or Estimated Habitat in the current Massachusetts Natural ritage Atlas (attach relevant page)? Yes No.
		1.	Have you consulted with the Division of Fisheries and Wildlife Natural Heritage and Endangered Species Program (NHESP)? Yes No; if yes, have you received a determination as to whether the project will result in the "take" of a rare species? Yes No; if yes, attach the letter of determination to this submission.
		2.	Will the project "take" an endangered, threatened, and/or species of special concern in accordance with M.G.L. c.131A (see also 321 CMR 10.04)? ☐Yes ☒No; if yes, provide a summary of proposed measures to minimize and mitigate rare species impacts
		3.	Which rare species are known to occur within the Priority or Estimated Habitat? Blanding's Turtle
		4.	Has the site been surveyed for rare species in accordance with the Massachusetts Endangered Species Act? ☐Yes ☒No
		5.	If your project is within Estimated Habitat, have you filed a Notice of Intent or received an Order of Conditions for this project? ☐Yes ☒No; if yes, did you send a copy of the Notice of Intent to the Natural Heritage and Endangered Species Program, in accordance with the Wetlands Protection Act regulations? ☐Yes ☐No
E	,	400	the project "take" an endangered, threatened, and/or species of special concern in ordance with M.G.L. c.131A (see also 321 CMR 10.04)? Yes No; if yes, provide a smary of proposed measures to minimize and mitigate impacts to significant habitations.

WETLANDS, WATERWAYS, AND TIDELANDS SECTION

1.]	hresholds / Permits						
F	Will the project meet or exceed a tidelands (see 301 CMR 11.03)	o)) / Lifes Mo; if yes,	specify, in quantitative terms:				
Е	Does the project require any state permits (or a local Order of Conditions) related to wetlands , waterways , or tidelands ? \(\subseteq \text{Yes} \subseteq \text{No}; if yes, specify which permit:						
C	If you answered "No" to <u>both</u> questions A and B, proceed to the Water Supply Section . If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder of the Wetlands, Waterways, and Tidelands Section below.						
II. W	etlands Impacts and Permits						
A	Does the project require a new or Act (M.G.L. c.131A)? ☑Yes ☐I if yes, list the date and MassDEP	file number: tions been issued? Yes	s ☐No; Was the Order of Conditions				
В.	Describe any proposed permaner the project site: No alteration of w wetland jurisdiction will solely be I		wetland resource areas located on proposed. Any work subject to fer zone.				
C.	Estimate the extent and type of in indicate whether the impacts are to	npact that the project will hemporary or permanent:	nave on wetland resources, and				
Co	pastal Wetlands	Area (square feet) or	Tomporoni as				
La	nd Under the Ocean	Area (square feet) or Length (linear feet)	Temporary or Permanent Impact?				
	signated Port Areas						
	astal Beaches astal Dunes						
	rrier Beaches						
	astal Banks						
Ro	cky Intertidal Shores						
Sa	It Marshes						
La	nd Under Salt Ponds						
Lai	nd Containing Shellfish						
	h Runs						
Lai	nd Subject to Coastal Storm Flowag	e					
Inla	and Wetlands						
Bai	nk (If)	0					
Boi	dering Vegetated Wetlands	0					
Iso	ated Vegetated Wetlands	0					
	d under Water	0					
Bor	ated Land Subject to Flooding dering Land Subject to Flooding	0					
Riv	erfront Area	0 0 0 0					
D.	Is any part of the project: 1. proposed as a limited project ? 2. the construction or alteration of	P □Yes ⊠ No; if yes, what a dam? □Yes ⊠No; if	nat is the area (in sf)? yes, describe:				

		 fill or structure in a velocity zone or regulatory floodway? Yes No dredging or disposal of dredged material? Yes No; if yes, describe the volume of dredged material and the proposed disposal site: a discharge to an Outstanding Resource Water (ORW) or an Area of Critical Environmental Concern (ACEC)? Yes No subject to a wetlands restriction order? Yes No; if yes, identify the area (in sf): located in buffer zones? Yes No; if yes, how much (in sf) 17950 sq. ft.
	E.	 Will the project: 1. be subject to a local wetlands ordinance or bylaw? ∑Yes ☐No 2. alter any federally-protected wetlands not regulated under state law? ☐Yes ∑ No; if yes, what is the area (sf)?
1	A.	aterways and Tidelands Impacts and Permits Does the project site contain waterways or tidelands (including filled former tidelands) that are subject to the Waterways Act, M.G.L.c.91? Yes No; if yes, is there a current Chapter 91 License or Permit affecting the project site? Yes No; if yes, list the date and license or permit number and provide a copy of the historic map used to determine extent of filled tidelands:
	B.	Does the project require a new or modified license or permit under M.G.L.c.91? Yes No; if yes, how many acres of the project site subject to M.G.L.c.91 will be for non-water-dependen use? Current Change Total If yes, how many square feet of solid fill or pile-supported structures (in sf)?
	C.	For non-water-dependent use projects, indicate the following: Area of filled tidelands on the site: Area of filled tidelands covered by buildings: For portions of site on filled tidelands, list ground floor uses and area of each use: Does the project include new non-water-dependent uses located over flowed tidelands? Yes No
		Height of building on filled tidelands: Also show the following on a site plan: Mean High Water, Mean Low Water, Water-dependent Use Zone, location of uses within buildings on tidelands, and interior and exterior areas and facilities dedicated for public use, and historic high and historic low water marks.
	D.	Is the project located on landlocked tidelands? Yes No; if yes, describe the project's impact on the public's right to access, use and enjoy jurisdictional tidelands and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:
	E.	Is the project located in an area where low groundwater levels have been identified by a municipality or by a state or federal agency as a threat to building foundations? Yes No; if yes, describe the project's impact on groundwater levels and describe measures the project will implement to avoid, minimize or mitigate any adverse impact:
		Is the project non-water-dependent and located on landlocked tidelands or waterways or tidelands subject to the Waterways Act and subject to a mandatory EIR? Yes No; (NOTE: If yes, then the project will be subject to Public Benefit Review and Determination.)
		Does the project include dredging? Yes No; if yes, answer the following questions: What type of dredging? Improvement Maintenance Both What is the proposed dredge volume, in cubic yards (cys) What is the proposed dredge footprint length (ft) width (ft) depth (ft); Will dredging impact the following resource areas? Intertidal Yes No; if yes, sq ft

	Outstanding Resource Waters: Yes No; if yes, sq ft Other resource area (i.e. shellfish beds, eel grass beds): Yes No; if yes sq ft
	If yes to any of the above, have you evaluated appropriate and practicable steps to: 1) avoidance; 2) if avoidance is not possible, minimization; 3) if either avoidance or minimize is not possible, mitigation?
	If no to any of the above, what information or documentation was used to support this determination?
Pr	ovide a comprehensive analysis of practicable alternatives for improvement dredging in accordance with 314 CMR 9.07(1)(b). Physical and chemical data of the sediment shall be included in the comprehensive analysis. Sediment Characterization
	Existing gradation analysis results? Yes No: if yes, provide results. Existing chemical results for parameters listed in 314 CMR 9.07(2)(b)6? Yes No; if yes, provide results.
	Do you have sufficient information to evaluate feasibility of the following management options for dredged sediment? Yes No. If yes, check the appropriate option. Beach Nourishment Unconfined Ocean Disposal Confined Disposal:
	Confined Aquatic Disposal (CAD) Confined Disposal Facility (CDF)
	Landfill Reuse in accordance with COMM-97-001 Shoreline Placement Upland Material Reuse
	In-State landfill disposal Out-of-state landfill disposal
	(NOTE: This information is required for a 401 Water Quality Certification.)
IV. Co	nsistency:
^.	Does the project have effects on the coastal resources or uses, and/or is the project located within the Coastal Zone? Yes No; if yes, describe these effects and the projects consistency with the policies of the Office of Coastal Zone Management:
В.	Is the project located within an area subject to a Municipal Harbor Plan? ☐Yes ☒No; if yes, identify the Municipal Harbor Plan and describe the project's consistency with that plan:

WATER SUPPLY SECTION

l.	Thresholds / Permits A. Will the project meet or exceed any review thresholds related to water supply (see 301 CMF 11.03(4))? ☑Yes ☐No; if yes, specify, in quantitative terms:					e 301 CMR
•	C.	Does the project require any state if yes, specify which permit:	permits related	to water supply	/? ⊠Yes □No	o;
	BRP WS 24- Approval to construct a Water Treatment Facility with a capacity > 1.0 MGD					
	O.	If you answered "No" to both quest answered "Yes" to either question Section below.	tions A and B, p A or question B	roceed to the Ward, fill out the remains	astewater Sect ainder of the Wa	ion. If you ter Supply
II. Impacts and Permits A. Describe, in gallons per day (gpd), the volume and source of water use for existing proposed activities at the project site:					and	
		Municipal or regional water supply Withdrawal from groundwater Withdrawal from surface water Interbasin transfer	Existing 1.44 MGD 1.44 MGD 0.00 MGD 0.00 MGD	Change 0.00 MGD 0.00 MGD 0.00 MGD 0.00 MGD	Total 1.44 MGD 1.44 MGD 0.00 MGD 0.00 MGD	
		TE: Interbasin Transfer approval wi er supply source is located is differe source will be discharged.)	ill be required if ent from the basi	the basin and co in and communit	ommunity where by where the was	the propose stewater fron
В		If the source is a municipal or region is adequate capacity in the system	nal supply, has to accommodate	the municipality the the project?	or region indicat ☑Yes ☐No	ed that there
С	.	If the project involves a new or expa source, has a pumping test been co sites and a summary of the alternati	anded withdrawa	al from a ground	water or surface	water the drilling
D	•	What is the currently permitted without day)? 1.44 MGD Will the project hen how much of an increase (gpd)	require an incre	oposed water su ase in that witho	pply source (in order of the property of the	gallons per ⊠No; if yes
E.		Does the project site currently conta vater main, or other water supply fa ☑Yes ☐No. If yes, describe existi	CILITY OF WILL THE	project involve o	anatrustian of -	f- 111 C
Ca	apa	acity of water supply well(s) (gpd) acity of water treatment plant (gpd)	Permitted Flow 1.44 MGD 1.44 MGD	Existing Avg Daily Flow 0.35 MGD 0.35 MGD	Project Flow 1.09 MGD 1.09 MGD	<u>Total</u> 1.44 MGD 1.44 MGD
	anacity of water treatment plant (and)					

 a non-bridged stream crossing 1,000 or less feet upstream of a public surface drinking water supply for purpose of forest harvesting activities? ☐Yes ☒No

III. Consistency

Describe the project's consistency with water conservation plans or other plans to enhance water resources, quality, facilities and services:

This project is part of the Devens Enterprise Commission overall plan to maintain and enhance water resources and quality, and to improve facilities and services.

WASTEWATER SECTION

I. Th	nresholds / Permits Will the project meet or exceed a 11.03(5))? ☐Yes ☒No; if yes,	iny review thres specify, in quan	holds related to	wastewater (see	301 CMR
В.	Does the project require any state which permit: WP-68: Treatment	e permits relate Works Plan Ap	d to wastewater proval	? □Yes ⊠No;	if yes, specify
C.	If you answered "No" to <u>both</u> que Generation) Section . If you ans remainder of the Wastewater	stions A and B, wered "Yes" to Section below.	proceed to the 1 either question A	Fransportation (7 A or question B, fi	Fraffic Il out the
II. Im A.	pacts and Permits Describe the volume (in gallons pexisting and proposed activities a septic systems or 314 CMR 7.00	Line project site	Calculate acco	wastewater gener rding to 310 CMR	ation for 15.00 for
Dis	scharge of sanitary wastewater scharge of industrial wastewater TAL	Exis	ting Cha	nge Total	
Dis Dis Dis	charge to groundwater charge to outstanding resource wa charge to surface water charge to municipal or regional wastewater facility TAL	ter	ting <u>Cha</u>	nge Total	
B.	Is the existing collection system at measures to be undertaken to acc	or near its cap commodate the	acity? Yes project's wastew	No; if yes, then o	lescribe the
	Is the existing wastewater disposa if yes, then describe the measures flows:	I facility at or ne	ar its permitted		□No; wastewater
	Does the project site currently continued wastewater disposal facility, or will ☐Yes ☐No; if yes, describe as fo	the project invo	er treatment faci	lity, sewer main, of a new facility?	or other
Was	stewater treatment plant capacity allons per day)	Permitted	Existing Avg Daily Flow	Project Flow	<u>Total</u>
If the	e project requires an interbasin tran ction of the transfer, and is the inter	sfer of wastewa	ater, which basin	s are involved, wh	nat is the

(NOTE: Interbasin Transfer approval may be needed if the basin and community where wastewater will be discharged is different from the basin and community where the source of water supply is located.)

_	(MWRA) or other Agency Yes No	of the Commor	nwealth to a mur	achusetts Water Resources Authority nicipality or sewer district?	
F.	rearrient, processing, cor	nbustion or dis ater) or other s	posal of sewage	t the project site for the storage, e sludge, sludge ash, grit, screenings, materials? ☐Yes ⊠No; if yes, what is	
	Storogo	Existing	Change	Total	
	Storage Treatment				
	Processing				
	Combustion				
	Disposal				
G.	Describe the water conservation measures to be undertaken by the project, and other wastewater mitigation, such as infiltration and inflow removal.				
	The removal of the pump s events.	tation from the	flood zone will e	eliminate possible inflow during flood	
III. Co	nsistency				
Α.	Describe measures that the local plans and policies rela	e proponent will ated to wastew	I take to comply ater managemen	with applicable state, regional, and nt:	
	wastewater management p	ian res	INO IT VAS INDIC	ension included in a comprehensive ate the EEA number for the plan and ommended or approved in that plan:	

TRANSPORTATION SECTION (TRAFFIC GENERATION)

1	A. B.	 Thresholds / Permit A. Will the project meet or exceed any review thresholds related to traffic generation CMR 11.03(6))? ☐Yes ☒No; if yes, specify, in quantitative terms: B. Does the project require any state permits related to state-controlled roadways? ☐Yes ☒No; if yes, specify which permit: 	
	C.	C. If you answered "No" to <u>both</u> questions A and B, proceed to the Roadways and O Transportation Facilities Section. If you answered "Yes" to <u>either</u> question A or out the remainder of the Traffic Generation Section below.	ther question B, fill
Ш	. Tr	Traffic Impacts and Permits	
	A.	A. Describe existing and proposed vehicular traffic generated by activities at the proje	ct site
		EXISTING Change Total	or onto.
		Number of parking spaces	
		Number of vehicle trips per day ITE Land Use Code(s):	
	B.	B. What is the estimated average daily traffic on roadways serving the site?	
		Noduway Eyisting Change Tetal	
		1	
		2	
		3.	
	C.	C. If applicable, describe proposed mitigation measures on state-controlled roadways project proponent will implement:	hat the
	D.	D. How will the project implement and/or promote the use of transit, pedestrian and bid and services to provide access to and from the project site?	ycle facilities
	F	F Is there a Transportation Management A	
	_	E. Is there a Transportation Management Association (TMA) that provides transportation management (TDM) services in the area of the project site? ☐ Yes ☐ No; if yes, do and how will the project will participate in the TMA:	on demand escribe if
	F.	F. Will the project use (or occur in the immediate vicinity of) water, rail, or air transports	ition
		facilities? Yes No; if yes, generally describe:	llion
	G.	G. If the project will penetrate approach airspace of a nearby airport, has the proponent	filed a
		Massachusetts Aeronautics Commission Airspace Review Form (780 CMR 111.7) a of Proposed Construction or Alteration with the Federal Aviation Administration (FAA 14 Part 77.13, forms 7460-1 and 7460-2)?	nd a Nation
Ш.	Cor	Consistency	
	Des	Describe measures that the proponent will take to comply with municipal, regional, state,	
	P. C.	plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities services:	and federal and

TRANSPORTATION SECTION (ROADWAYS AND OTHER TRANSPORTATION FACILITIES)

I.	Th	resholds
	A.	Will the project meet or exceed any review thresholds related to roadways or other transportation facilities (see 301 CMR 11.03(6))? ☐Yes ☒No; if yes, specify, in quantitative terms:
	B.	Does the project require any state permits related to roadways or other transportation facilities? Yes No; if yes, specify which permit:
	C.	If you answered "No" to <u>both</u> questions A and B, proceed to the Energy Section . If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder of the Roadways Section below.
II.	Tra	insportation Facility Impacts
	A.	Describe existing and proposed transportation facilities in the immediate vicinity of the project site:
	B.	Will the project involve any
		Alteration of bank or terrain (in linear feet)?
		Cutting of living public shade trees (number)?
		Elimination of stone wall (in linear feet)?
III.	Cor	nsistency

Describe the project's consistency with other federal, state, regional, and local plans and policies related to traffic, transit, pedestrian and bicycle transportation facilities and services, including consistency with the applicable regional transportation plan and the Transportation Improvements Plan (TIP), the State Bicycle Plan, and the State Pedestrian Plan:

ENERGY SECTION

1.		will the project meet or exceed any review thresholds related to energy (see 301 CMR 11.03(7))? Yes No; if yes, specify, in quantitative terms:
	B.	Does the project require any state permits related to energy ? ☐Yes ☒ No; if yes, specify which permit:
	C.	If you answered "No" to <u>both</u> questions A and B, proceed to the Air Quality Section . If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder of the Energy Section below.
II.	lm	pacts and Permits
	A.	Describe existing and proposed energy generation and transmission facilities at the project site
		Existing Change Total
	В.	Capacity of electric generating facility (megawatts) Length of fuel line (in miles) Length of transmission lines (in miles) Capacity of transmission lines (in kilovolts) If the project involves construction or expansion of an electric generating facility, what are: 1. the facility's current and proposed fuel source(s)? 2. the facility's current and proposed cooling source(s)?
	В.	If the project involves construction of an electrical transmission line, will it be located on a new, unused, or abandoned right of way? Yes No; if yes, please describe:
	C. D.	Describe the project's other impacts on energy facilities and services:
III.	Des	nsistency scribe the project's consistency with state, municipal, regional, and federal plans and policies for ancing energy facilities and services:

AIR QUALITY SECTION

I.		resholds Will the project meet or exceed any re 11.03(8))? ☐Yes ☒No; if yes, spec	eview thresholds re ify, in quantitative t	lated to air qua l erms:	lity (see 301 CMR
	B.	Does the project require any state per which permit:	mits related to air	quality? □Yes	⊠No; if yes, specify
	C.	If you answered "No" to both question Section . If you answered "Yes" to eit Air Quality Section below.	s A and B, proceed her question A or q	to the Solid ar juestion B, fill ou	nd Hazardous Waste ut the remainder of the
II.	A.	Does the project involve construction of 0, Appendix A)? Yes No; if yes per day) of:	r modification of a s, describe existing	major stationary and proposed e	source (see 310 CMR emissions (in tons
			Existing	Change	Total
		Particulate matter Carbon monoxide Sulfur dioxide Volatile organic compounds Oxides of nitrogen Lead Any hazardous air pollutant Carbon dioxide			
	D .	7			

B. Describe the project's other impacts on air resources and air quality, including noise impacts:

III. Consistency

- A. Describe the project's consistency with the State Implementation Plan:
- B. Describe measures that the proponent will take to comply with other federal, state, regional, and local plans and policies related to air resources and air quality:

SOLID AND HAZARDOUS WASTE SECTION

l.	TI A.	hresholds / Permits Will the project meet or exceed any review thresholds related to solid or hazardous waste (see 301 CMR 11.03(9))? Yes No; if yes, specify, in quantitative terms:
	В.	Does the project require any state permits related to solid and hazardous waste ? □Yes ⊠No; if yes, specify which permit:
	C.	If you answered "No" to <u>both</u> questions A and B, proceed to the Historical and Archaeological Resources Section . If you answered "Yes" to <u>either</u> question A or question B, fill out the remainder of the Solid and Hazardous Waste Section below.
II.	lm A.	Is there any current or proposed facility at the project site for the storage, treatment, processing, combustion or disposal of solid waste? Yes No; if yes, what is the volume (in tons per day) of the capacity:
		Storage Treatment, processing Combustion Disposal Change Total Total
	B.	Is there any current or proposed facility at the project site for the storage, recycling, treatment or disposal of hazardous waste? Yes No; if yes, what is the volume (in tons or gallons per day) of the capacity:
		Storage Recycling Treatment Disposal Existing Change Total
	C.	If the project will generate solid waste (for example, during demolition or construction), describe alternatives considered for re-use, recycling, and disposal:
	D.	If the project involves demolition, do any buildings to be demolished contain asbestos? ☐Yes ☐No
	E.	Describe the project's other solid and hazardous waste impacts (including indirect impacts):
		nsistency scribe measures that the proponent will take to comply with the State Solid Waste Master Plan:

HISTORICAL AND ARCHAEOLOGICAL RESOURCES SECTION

ı.	Th	resholds / Impacts
		Have you consulted with the Massachusetts Historical Commission? ⊠Yes □No; if yes, attach correspondence.
		For project sites involving lands under water, have you consulted with the Massachusetts Board of Underwater Archaeological Resources? Yes No; if yes, attach correspondence
	B.	Is any part of the project site a historic structure, or a structure within a historic district, in either case listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth? Yes No; if yes, does the project involve the demolition of all or any exterior part of such historic structure? Yes No; if yes, please describe:
	C.	Is any part of the project site an archaeological site listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth? Yes No; if yes, does the project involve the destruction of all or any part of such archaeological site? Yes No; if yes, please describe:
	D.	If you answered "No" to <u>all parts of both</u> questions A, B and C, proceed to the Attachments and Certifications Sections. If you answered "Yes" to <u>any part of either</u> question A or question B, fill out the remainder of the Historical and Archaeological Resources Section below.
1.	lmp	pacts
	1000	cribe and assess the project's impacts, direct and indirect, on listed an inventorial to the

II.

ct's impacts, direct and indirect, on listed or inventoried historical and archaeological resources:

As the only work proposed within close proximity to the historic site is electrical and water connections, we do not believe there will be any impact to the listed historical resources or archeological resources near the project area. The Mass Historical Commission (MHC) has been consulted and determined that the project is unlikely to affect significant historic or archeological resources.

III. Consistency

Describe measures that the proponent will take to comply with federal, state, regional, and local plans and policies related to preserving historical and archaeological resources:

The project will be designed to avoid or mitigate any impacts in consultation with the MHC.

CERTIFICATIONS:

 The Public Notice of Environmental Review has been/will be published in the following newspapers in accordance with 301 CMR 11.15(1):

(Name) Na shoka Valley Voice (Date) 9/11/20

2. This form has been circulated to Agencies and Persons in accordance with 301 CMR 11.16(2).

Signatures:

9/2/2020 Jim Moors

Pate Signature of Responsible Officer or Proponent

9/2/20

9/2/20

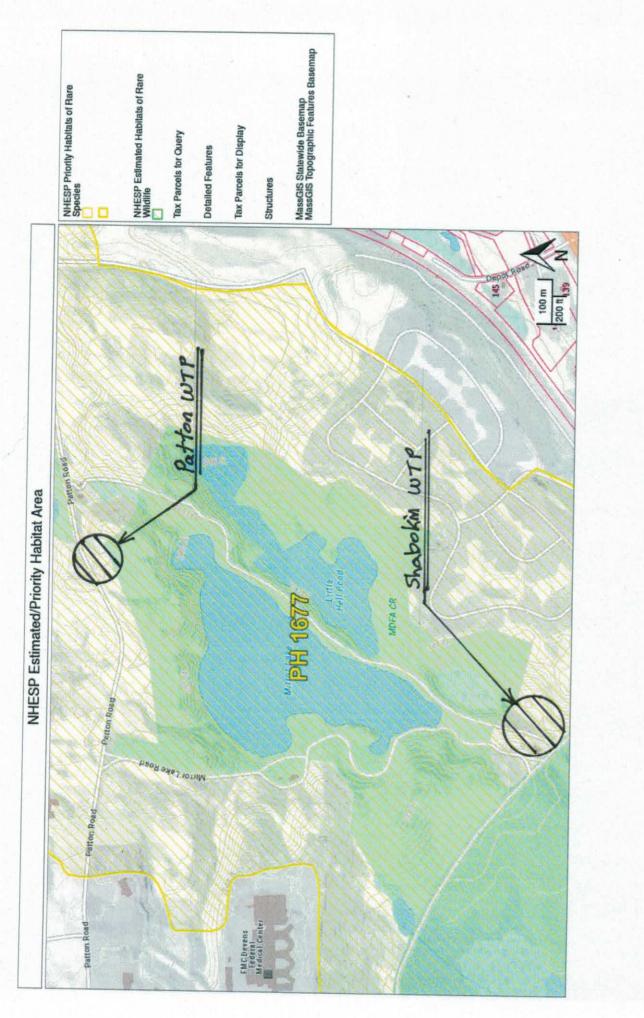
9/2/20

Signature of person preparing ENF (if different from above)

Jim Moore	Charles Caron
Name (print or type)	Name (print or type)
MassDevelopment	Caron Environmental Consulting, LLC
Firm/Agency	Firm/Agency
33 Andrews Parkway	247 Bragg Hill Road
Street	Street
Devens, MA 02110	Westminster, MA 01473
Municipality/State/Zip	Municipality/State/Zip
(978) 784-2931	(978) 874-5469
Phone	Phone

Lists, Maps & Photographs





LIST OF ATTACHMENTS

- 1. Lists, Maps & Photos:
 - o Locus Map
 - o NHESP Estimated/Priority Habitat Area Map
 - List of Attachments
 - o Distribution List
 - List of Local and Federal Permits Required
 - Site Photographs
- 2. Pilot Study Approvals
- 3. Notice of Intent & Request for Determination of Applicability
- 4. Natural Heritage & Endangered Species Program Correspondence
- 5. Stormwater Management Plan
- 6. Massachusetts Historical Commission Response
- 7. Plans:
 - o 11 x 17 plans

DISTRIBUTION LIST

Department of Environmental Protection Commissioner's Office One Winter Street Boston, MA 02108

Department of Environmental Protection Central Regional Office Attn: MEPA Coordinator 8 New Bond Street Worcester, MA 01606

Department of Environmental Protection Central Regional Office Bureau of Water Resources 8 New Bond Street Worcester, MA 01606

Massachusetts Highway Department Public/Private Development Unit 10 Park Plaza Boston, MA 02116

Massachusetts Highway Department District #3 Attn: MEPA Coordinator 403 Belmont Street Worcester, MA 01604

Massachusetts Historical Commission The MA Archives Building 220 Morrissey Boulevard Boston, MA 02125 Montachusett Regional Planning Commission 464 Abbott Avenue Leominster, MA 01453

Natural Heritage & Endangered Species Program 1 Rabbit Hill Road Westborough, MA 01581

Devens Enterprise Commission 33 Andrews Parkway Devens, MA 01434

MassDevelopment Board of Directors 99 High Street Boston, MA 02110

LIST OF LOCAL AND FEDERAL PERMITS REQUIRED

LOCAL PERMITS:

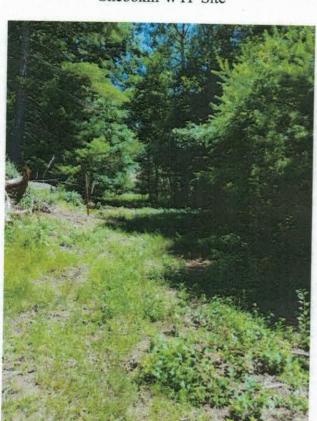
- Devens Enterprise Commission: Level 2 Unified Permits, Order of Conditions under the Devens Wetlands Bylaw, Determination of Applicability under the Devens Wetlands Bylaw
- Building Permit

FEDERAL PERMITS:

None



Shebokin WTP Site



Shebokin WTP Site Existing Cart Road



Shebokin Well Site



Patton Road Conditions

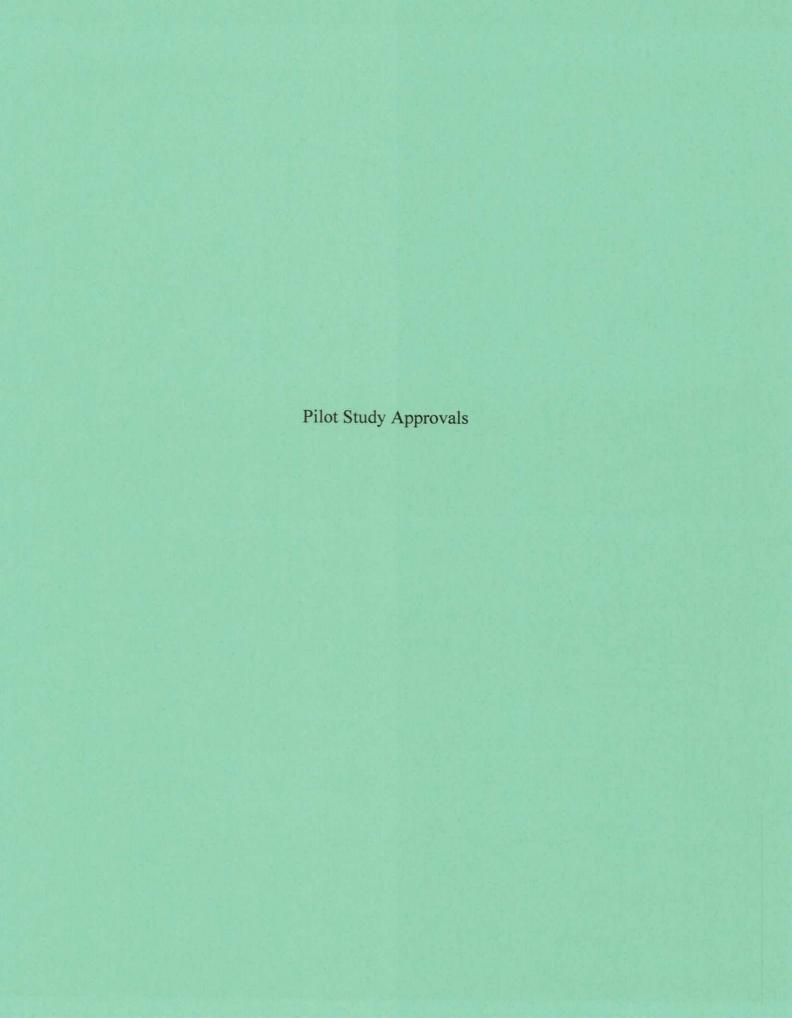


Patton WTP Site





Patton WTP Site Conditions in Revegetated Area





Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Central Regional Office • 8 New Bond Street, Worcester MA 01606 • 508-792-7650

Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor Matthew A. Beaton Secretary

October 21, 2019 Devens MassDevelopment Re PWS Town: Devens

Attn: Jim Moore, Utilities Manager 33 Andrews Parkway

Devens MA, 01434

PWS Name: Devens MassDevelopment PWS ID #: 2019001; R.O.#: 291149 Program: System Modification WS22D

Action: Approved

MassDEP Trans. #: X284411 The same was baller with the chief of the chief of the chief of the chief

Dear Mr. Moore:

The Central Regional Office of the Massachusetts Department of Environmental Protection (MassDEP) received your WS22D permit application for approval of the pilot study report that evaluated the use of Greensand Plus media for the removal of iron and manganese from the raw water at the Shabokin Well and Patton Well in Devens, Massachusetts. MassDEP approved the pilot study proposal for this project on February 12, 2019, (WS21D, Tr. # X282289). The pilot study was conducted by Blueleaf, Inc., and the pilot study report was prepared and submitted by Wright-Pierce, Inc, on behalf of the Devens MassDevelopment. The submittal included:

Permit: WS22D MassDEP Transmittal # X284411 Received by MassDEP: September 24, 2019 PIMS Fee Payment Received: October 15, 2019

Consultant: Wright-Pierce, Inc, 600 Federal Street, Suite 2151, Andover, MA 01810

Project Description and Background

Devens MassDevelopment ("Devens") is a community public water supply located in the Towns of Ayer, Harvard and Shirley, Massachusetts, that serves a drinking water population of 6,500 persons. The water system currently obtains its water from two of its 3 gravel packed wells. The two wells on line; the MacPhearson Well (03G) and the Shabokin Well (06G), are on line with temporary PFAS treatment systems, chemical addition for pH control, disinfection and corrosion control. The Patton Well (05G) is currently off line while a PFAS treatment system is designed

The Patton Well (05G) and the Shabokin Well (06G) have elevated levels of iron and manganese above the SMCL limits of 0.3 mg/l for iron and 0.05 mg/l for manganese. The Patton Well has been exceeding the ORSG guideline limit of 0.3 mg/l for manganese. To address the elevated manganese, Devens is proceeding with the design and construction of two iron and manganese water treatment plants; one Water Treatment Plant (WTP) at the Patton Well, and the other at the Shabokin Well. The pilot studies were conducted in early June 2019, to determine optimum operating conditions for removal of iron and manganese using Greensand Plus media.

Pilot Study Results

Blueleaf, Inc. conducted two one-week pilot studies with one week at the Patton Well and one week at the Shabokin Well. Three rounds of piloting were conducted at each site using four 6-inch diameter filters, each with 24 inches of Greensand Plus media topped with 12 inches of anthracite media. The filters were loaded at rates ranging from 4 gpm/sf to 8 gpm/sf with filter runtimes ranging from 65 to 35 hours respectively. Raw water was pretreated with sodium hypochlorite for oxidation of the iron and manganese, and one run added potassium hydroxide (KOH) for pH adjustment. After the first pilot trial with the KOH addition, it was determined the raw water pH was over 7 and did not need addition pH adjustment, so the KOH addition was stopped. One trial at each well was run with recycled backwash water added at a rate of 10% of total flow.

Findings from the pilot study include:

- The chlorine was added at a dose between 1.5 mg/l and 3.5 mg/l to produce a chlorine residual of 0.5-1.0 mg/l leaving the filter.
- Raw water pH was around 7 and Greensand media requires a minimum pH of 6.8, so after the first trial, pH adjustment with KOH addition was discontinued.
- Backwash water settled within four hours and had 1% solids.
- Pilot study runs with 10% recycled water were run when the filters were at loading rates of 6 and 8 gpm/sf. At the Patton Well, the decanted backwash water was recycled through the Greensand filters for 3 hours at the end of the pilot run. The use of recycled supernatant did have minimal effects on the iron removal. At the Shabokin Well, the recycling of decanted water was run for 4.3 hours mid-way through the pilot run. The use of recycled water had minimal effect on the treatment removal at the Shabokin Well.
- Backwash supernatant was sampled for total and dissolved iron and manganese after 22 hours of settling at the Patton Well and after 4 hours of settling at the Shabokin Well. The total iron and manganese were significantly higher (See Table 3.25 of Blueleaf Report total manganese was 1.85 mg/l and total iron was 2.0 mg/l after 4 hours settling and total manganese was 0.48 mg/l and total iron was 0.201 mg/l after 22 hours of settling.) The design of the new WTPs may want to include larger tanks to allow for additional settling time of the backwash water prior to recycling the decanted water back through the treatment process.

- The trials were run at loading rates ranging from 4-8 gpm/sf, and effective iron and manganese removal occurred under all loading rates. At the highest loading rate, the filter runtime was 35 hours. Filter run times are projected to be slightly shorter when using recycled backwash water.
- Arsenic was detected in the Shabokin Well at concentrations below the MCL limit of 0.01 mg/l (average 0.005 mg/l). The Greensand media was effective at reducing the low levels of arsenic to ND. The arsenic levels in the decanted water recycled back through the treatment system was as high as 0.04 mg/l at the Shabokin Well. The majority of the arsenic was in the settled solids which will need to be addressed in the solids removal.
- Simulated Distribution System (SDS) analysis was done on the treated water. The treated water from both the Patton Well and the Shabokin Well was spiked with chlorine and held for 72 hour prior to evaluation of disinfection byproducts. Both the Trihalomethane (THM) and Haloacetic acid (HAA5) concentrations detected were well below the DBP limits of 80 ug/l for TTHM and 60 ug/l for HAA5 (TTHM ranged from 9.7-13 ug/l and HAA5 ranged from 2.8-6.0 ug/l).
- Each well has PFAS detected at concentrations greater than 20 ppt, but less than 70 ppt.
 Temporary PFAS treatment is currently onsite at the Shabokin Well and proposed for the
 Patton Well. The proposed treatment plants will include provisions for dechlorination
 after the Greensand filters and PFAS treatment with either ion exchange media and/or
 GAC media.
- Backwash recovery values were lower for the Patton Well than at Shabokin Well. This is
 often seen in water treatment plants with higher manganese than iron.

The pilot study report demonstrated that Greensand Plus media effectively removed the iron and manganese levels at the Patton Well (05G) and the Shabokin Well (06G) to concentrations below the SMCL limits of 0.3 mg/l and 0.05 mg/l respectively.

Proposed Design:

The proposed design is for separate 1.44 MGD Greensand Plus Water Treatment Plants; one to treat the Patton Well water, and the other to treat the Shabokin Well water. The Patton Well WTP will be located on property near the well at a truck turnaround off Patton Road. The Shabokin Well WTP will be located adjacent to the Shabokin Building, and will have the ability to treat water from both the Shabokin Well as well as the new Sheriden Well when it is installed. Both WTP designs will also include treatment for the removal of PFAS after the Greensand Plus filters.

The Patton Well and Shabokin Well WTPs will have similar designs. The well will pump to a building where sodium hypochlorite and potassium hydroxide will be added to the raw water ahead of three nine foot diameter greensand plus pressure filtration vessels, each designed for a 5.3 gpm/sf loading rate. When one filter is in backwash mode, the remaining two filters will

have a loading rate of 7.9 gpm/sf. Treated water from the filters will be injected with sodium bisulfite for de-chlorination prior to discharging to a holding tank. The proposed design indicates the water in the holding tank will be pumped through 2 Granular Activated Carbon (GAC) filters followed by 2 ion exchange filters for PFAS removal, before being reinjected with chlorine for disinfection and discharging into a clearwell designed to achieve 4-log disinfection. Backwash water for the Greensand filters will come from the clearwell. Finished water will be treated with chemical addition of potassium hydroxide for pH control and poly/ortho phosphate for corrosion control. Backwash water will settle in backwash settling tanks, with the decanted water being recycled back through the treatment process and solids being pumped out by a separate hauler.

Review and Approval

MassDEP reviewed the submitted permit application and supporting documentation, and hereby issues the permit/approval of the pilot study report. Pursuant to MassDEP's authority under 310 CMR 22.04(7) to require that each supplier of water operate and maintain its system in a manner that ensures the delivery of safe drinking water to consumers, this permit is made subject to the conditions set forth below.

General Permit Conditions

- Compliance with Permit Approvals The Supplier of Water shall conduct activities in accordance with the approved plans, reports, and other submissions, except as may be modified by the conditions set forth in General Permit Conditions section and Specific Permit Conditions section. No material changes in the design or activities described in the approved documents shall be performed without prior written MassDEP approval.
- Compliance with Other Approvals The activities at this Supplier of Water shall be
 performed in compliance with all other applicable local, state and federal laws and
 regulations. This approval does not relieve the owner or operator of this Public Water
 System from complying with all other applicable local, state and federal requirements,
 licenses and permits.
- Duty to Mitigate The Supplier of Water shall remedy and shall act to prevent all
 potential and actual adverse impacts to public health or the environment resulting from
 noncompliance with the terms or conditions of the permit or approval.
- Duty to Provide Information The Supplier of Water shall furnish to MassDEP, within a
 reasonable time, any information MassDEP may request, and which is deemed by
 MassDEP to be relevant in determining compliance with permits, regulations, guidelines
 and policies.

Specific Permit Conditions

 Treatment Facility Modification WS25 Permit – A separate WS25D Treatment Facility Modification Permit shall be submitted for each new WTP design, one for the Patton Devens MassDevelopment, PWS ID # 2019001 - COM WS22D - MassDEP Tr #: X284411, Approval, Page 5 of 5

Well WTP and one for the Shabokin Well WTP. The Shabokin Well will include provisions for water from the Sheriden Well to be treated at the WTP in the future. MassDEP recommends that Devens submit to MassDEP preliminary design plans at 60% completion for MassDEP's preliminary review and comments prior to submitting the final design plans.

If you should have any questions or comments regarding this matter, please contact Margo Webber of the Drinking Water Program at 508-767-2738.

Sincerely,

Robert A. Bostwick

Robert a Bortwick

Section Chief

Drinking Water Program

cc: Drinking Water Program, BWR, MassDEP-Boston Christine Catalini, Wright-Pierce, 600 Federal Street, Suite 2151, Andover, MA 01810 Blueleaf, Inc., Attn: Erik Grotton, 57 Dresser Hill Rd, Charlton, MA 01507 Notice of Intent &
Request for Determination of Applicability



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Devens

City/Town

Important:
When filling out
forms on the
computer, use
only the tab key
to move your
cursor - do not
use the return
key.





Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

Project Location (Note: electronic filers will click on button to locate project site):				
38 Sheridan Road	Devens	01434		
. Street Address	b. City/Town	c. Zip Code		
atitude and Longitude:	42°31'12.3"N	71°36'41.9"W		
	d. Latitude	e. Longitude		
2/3	99-202/99-203			
Assessors Map/Plat Number	g. Parcel /Lot Number			
Applicant:				
lames	Moore			
. First Name	b. Last Name			
MassDevelopment				
. Organization				
33 Andrews Parkway				
. Street Address				
Devens	MA	01434		
. City/Town	f. State	g. Zip Code		
978) 784-2931 (978) 772-7496	jmoore@massdevelop	oment.com		
Phone Number i. Fax Number Property owner (required if different from First Name Massachusetts Development Finance A	j. Email Address m applicant):	more than one owner		
Property owner (required if different from First Name Massachusetts Development Finance A Organization	j. Email Address m applicant):	more than one owner		
Property owner (required if different from First Name Massachusetts Development Finance A	j. Email Address m applicant):	more than one owner		
Property owner (required if different from First Name Massachusetts Development Finance A Organization High Street; 11th Floor	j. Email Address m applicant):	more than one owner		
Property owner (required if different from First Name Massachusetts Development Finance A Organization High Street; 11th Floor Street Address	j. Email Address m applicant):			
Property owner (required if different from First Name Massachusetts Development Finance A Organization High Street; 11th Floor Street Address Boston	j. Email Address m applicant):	02110 g. Zip Code		
Property owner (required if different from First Name Massachusetts Development Finance A Organization High Street; 11th Floor Street Address Boston City/Town	j. Email Address m applicant):	02110 g. Zip Code		
Property owner (required if different from First Name Massachusetts Development Finance A Organization High Street; 11th Floor Street Address Boston City/Town 617) 330-2000	j. Email Address m applicant):	02110 g. Zip Code		
Property owner (required if different from First Name Massachusetts Development Finance A Organization 9 High Street; 11th Floor Street Address Boston City/Town 617) 330-2000 Phone Number Representative (if any):	j. Email Address m applicant): Check if n b. Last Name Agency MA f. State jmoore@massdevelop j. Email address	02110 g. Zip Code		
Property owner (required if different from First Name Massachusetts Development Finance A Organization 9 High Street; 11th Floor Street Address Boston City/Town 617) 330-2000 Phone Number i. Fax Number	j. Email Address m applicant):	02110 g. Zip Code		
Property owner (required if different from First Name Massachusetts Development Finance A Organization 9 High Street; 11th Floor Street Address Boston City/Town 617) 330-2000 Phone Number Representative (if any): Charles First Name	j. Email Address m applicant): Check if n b. Last Name Agency MA f. State jmoore@massdevelop j. Email address Caron	02110 g. Zip Code		
Property owner (required if different from First Name Massachusetts Development Finance A Organization 9 High Street; 11th Floor Street Address Boston City/Town 617) 330-2000 Phone Number Representative (if any):	j. Email Address m applicant): Check if n b. Last Name Agency MA f. State jmoore@massdevelop j. Email address Caron	02110 g. Zip Code		
Property owner (required if different from First Name Massachusetts Development Finance A Organization High Street; 11th Floor Street Address Boston City/Town 617) 330-2000 Phone Number Representative (if any): Charles First Name Caron Environmental Consulting, LLC Company 47 Bragg Hill Road	j. Email Address m applicant): Check if n b. Last Name Agency MA f. State jmoore@massdevelop j. Email address Caron	02110 g. Zip Code		
Property owner (required if different from First Name Massachusetts Development Finance A Organization High Street; 11th Floor Street Address Boston City/Town 617) 330-2000 Phone Number Representative (if any): Charles First Name Caron Environmental Consulting, LLC Company	j. Email Address m applicant): Check if n b. Last Name Agency MA f. State jmoore@massdevelop j. Email address Caron	02110 g. Zip Code		
Property owner (required if different from First Name Massachusetts Development Finance A Organization 9 High Street; 11th Floor Street Address Boston City/Town 617) 330-2000 Phone Number Representative (if any): Charles First Name Caron Environmental Consulting, LLC Company 47 Bragg Hill Road Street Address Vestminster	j. Email Address m applicant): Check if n b. Last Name Agency MA f. State jmoore@massdevelop j. Email address Caron	02110 g. Zip Code		
Property owner (required if different from First Name Massachusetts Development Finance A Organization 9 High Street; 11th Floor Street Address Boston City/Town 617) 330-2000 Phone Number Representative (if any): Charles First Name Caron Environmental Consulting, LLC Company 47 Bragg Hill Road Street Address	j. Email Address m applicant):	02110 g. Zip Code oment.com		
Property owner (required if different from First Name Massachusetts Development Finance A Organization 9 High Street; 11th Floor Street Address Boston City/Town 617) 330-2000 Phone Number Representative (if any): Charles First Name Caron Environmental Consulting, LLC Company 47 Bragg Hill Road Street Address Vestminster	j. Email Address m applicant):	02110 g. Zip Code oment.com		



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Pro	vided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Devens
	City/Town

A. General Information (continued)

0.	General Project Description:				
	This project is the construction of a water treatment plant proposed to be 7500 sq. ft. in size with its associated drittank on concrete pads, propane tank on concrete pad, w 10,000-gallon residuals holding tank, a 4000-gallon tight	vewa vatern	y and parking, an emergency generator and fuel		
7a.	Project Type Checklist: (Limited Project Types see Section A. 7b.)				
	1. Single Family Home	2.	Residential Subdivision		
	3. Commercial/Industrial	4.	☐ Dock/Pier		
	5. 🛛 Utilities	6.	☐ Coastal engineering Structure		
	7. Agriculture (e.g., cranberries, forestry)	8.	☐ Transportation		
	9. Other				
	1. Yes No If yes, describe which limited 10.24 and 10.53 for a composed activity is eligible to be treated as at CMR10.24(8), 310 CMR 10.53(4)), complete and at Project Checklist and Signed Certification.	n Eco	oject applies to this project. (See 310 CMR list and description of limited project types) ological Restoration Limited Project (310 Appendix A: Ecological Restoration Limited		
8.	Property recorded at the Registry of Deeds for:				
	Middlesex South				
	a. County	b. Certificate # (if registered land)			
	26317	3			
	c. Book		d. Page Number		
B.	Buffer Zone & Resource Area Impa	acts	(temporary & permanent)		
1.					
 Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas). 			if not applicable, go to Section B.3,		
	Check all that apply below. Attach narrative and any supporting documentation describing how the				

standards requiring consideration of alternative project design or location.



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Pro	ovided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Devens
	City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Resource Area Size of Proposed Alteration Proposed Replacement (if any) a. 🔲 Bank 1. linear feet 2. linear feet b. 🗌 Bordering Vegetated Wetland 1. square feet 2. square feet c. 🗌 Land Under 1. square feet 2. square feet Waterbodies and Waterways 3. cubic yards dredged Resource Area Size of Proposed Alteration Proposed Replacement (if any) d. | Bordering Land Subject to Flooding 1. square feet 2. square feet 3. cubic feet of flood storage lost 4. cubic feet replaced е. П Isolated Land Subject to Flooding 1. square feet 2. cubic feet of flood storage lost 3. cubic feet replaced Riverfront Area 1. Name of Waterway (if available) - specify coastal or inland Width of Riverfront Area (check one): 25 ft. - Designated Densely Developed Areas only ☐ 100 ft. - New agricultural projects only 200 ft. - All other projects 3. Total area of Riverfront Area on the site of the proposed project: square feet 4. Proposed alteration of the Riverfront Area: a. total square feet b. square feet within 100 ft. c. square feet between 100 ft. and 200 ft. 5. Has an alternatives analysis been done and is it attached to this NOI? ☐ Yes ☐ No 6. Was the lot where the activity is proposed created prior to August 1, 1996? ☐ Yes ☐ No 3. Coastal Resource Areas: (See 310 CMR 10.25-10.35) Note: for coastal riverfront areas, please complete Section B.2.f. above.

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Pro	vided by MassDEP:
	MassDEP File Number
	Document Transaction Number
100	Devens
	City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your
document
transaction
number
(provided on your
receipt page)
with all
supplementary
information you
submit to the
Department.

Resou	irce Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. Designated Port Areas		Indicate size under Land Und	der the Ocean, below
b. 🗌	Land Under the Ocean	1. square feet	_
		2. cubic yards dredged	
с. 🗌	Barrier Beach	Indicate size under Coastal Be	eaches and/or Coastal Dunes below
d. 🗌	Coastal Beaches	1. square feet	cubic yards beach nourishment
е. 🗌	Coastal Dunes	1. square feet	cubic yards dune nourishment
		Size of Proposed Alteration	Proposed Replacement (if any)
f. 🔲	Coastal Banks	1. linear feet	
g. 🗌	Rocky Intertidal Shores	1. square feet	
h. 🔲	Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. 🗆	Land Under Salt Ponds	1. square feet	2. Sq it restoration, remail., creation
		2. cubic yards dredged	
j. 🗌	Land Containing Shellfish	1. square feet	
k. 🗌	Fish Runs	Indicate size under Coastal Ba Ocean, and/or inland Land Und above	nks, inland Bank, Land Under the der Waterbodies and Waterways,
		cubic yards dredged	
1.	Land Subject to Coastal Storm Flowage	1. square feet	
If the p	rootage that has been ent	restoring or enhancing a wetland ered in Section B.2.b or B.3.h ab	resource area in addition to the ove, please enter the additional
a. square	e feet of BVW	b. square feet of	Salt March
	oject Involves Stream Cros		Cuit majori
a. numbe	er of new stream crossings	b. number of rep	lacement stream crossings

4.

5.



07/27/20

b. Date of map

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

PI	rovided by MassDEP:
	MassDEP File Number
	Document Transaction Number
Т	Devens
	City/Town

0	Other	A	04-1-1		n
C.	Otner	Applicable	Standards	and	Requirements

This is a proposal for an Ecological Restoration Limited Project. Skip Section C and
complete Appendix A: Ecological Restoration Limited Project Checklists - Required Actions
(310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

 Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicated the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the Massachusetts Natural Heritage Atlas or go to http://maps.massgis.state.ma.us/PRI EST HAB/viewer.htm. 			nated Habitat Map of State-Listed Rare Wetland Wildlife published by the Endangered Species Program (NHESP)? To view habitat maps, see the al Heritage Atlas or go to
	a. ⊠ Yes □	No	If yes, include proof of mailing or hand delivery of NOI to:
	07/27/20		Natural Heritage and Endangered Species Program Division of Fisheries and Wildlife 1 Rabbit Hill Road

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.2.f, if applicable. If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).

Submit Supplemental Information for Endangered Species Review*

buffer zone)

(b) X

Westborough, MA 01581

	Percentage/acreage of property to be altered:				
	(a)	within wetland Resource Area	0%/ 0 acres		
	(4,	Within Wetland Nesource Area	percentage/acreage		
	(h) auteida Pasauras	outside Resource Area	4.6%/ 1.5 acres		
	(5)	odiside Nesource Area	percentage/acreage		
	2. Assessor's Map or right-of-way plan of site				
2.	Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **				
	(a) 🛛	(a) Project description (including description of impacts outside of wetland resource area &			

Photographs representative of the site

Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

^{**} MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process. wpaform3.doc • rev. 2/8/2018 Page 5 of 9



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Pro	vided by MassDEP;
	MassDEP File Number
	Document Transaction Number
	Devens
	City/Town

C. Other Applicable Standards and Requirements (cont'd)

	iviake (MESA filing fee (fee information availa www.mass.gov/dfwele/dfw/nhesp/regula check payable to "Commonwealth of Ma address	tory review/mesa/mesa fe	ee schedule.htm). d mail to NHESP at
	Projects	s altering 10 or more acres of land, also su	bmit:	
	(d)	Vegetation cover type map of site		
	(e)	Project plans showing Priority & Estim	ated Habitat boundaries	
	(f) OF	R Check One of the Following		
	1. 🗌	Project is exempt from MESA review. Attach applicant letter indicating which http://www.mass.gov/dfwele/dfw/nhes the NOI must still be sent to NHESP if 310 CMR 10.37 and 10.59.)	p/regulatory review/mesa/r	mesa exemptions htm
	2. 🗌	Separate MESA review ongoing.	a. NHESP Tracking #	b. Date submitted to NHESP
	3.	Separate MESA review completed. Include copy of NHESP "no Take" dete Permit with approved plan.	ermination or valid Conserv	ration & Management
3.	For coastal line or in a	projects only, is any portion of the prop fish run?	osed project located below	the mean high water
	a. 🛛 Not a	pplicable – project is in inland resource	area only b. Tes	□ No
	If yes, inclu	de proof of mailing, hand delivery, or el	ectronic delivery of NOI to	either:
	South Shore the Cape & Is	- Cohasset to Rhode Island border, and slands:	North Shore - Hull to New H	lampshire border:
	Southeast M Attn: Environ 836 South Re New Bedford	larine Fisheries - arine Fisheries Station mental Reviewer odney French Blvd. I, MA 02744 EEnvReview-South@state.ma.us	Division of Marine Fisheries North Shore Office Attn: Environmental Review 30 Emerson Avenue Gloucester, MA 01930 Email: <u>DMF.EnvReview-</u>	ver

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



Online Users: Include your document transaction number

(provided on your receipt page) with all supplementary information you submit to the Department.

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

-	Provided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Devens

City/Town

C. Other Applicable Standards and Requirements (cont'd)

4.	Is any	portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
		lf yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). Note: electronic filers click on Website.
	b. ACEC	
5.	Is any (ORW)	ortion of the proposed project within an area designated as an Outstanding Resource Water as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
	a. 🗌 Y	es 🛮 No
6.	Is any Restric	ortion of the site subject to a Wetlands Restriction Order under the Inland Wetlands ion Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
	a. 🗌 Y	es 🛮 No
7.	Is this p	roject subject to provisions of the MassDEP Stormwater Management Standards?
	a. 🛛	Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management
	1.	Standards per 310 CMR 10.05(6)(k)-(q) and check if: Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
	2.	A portion of the site constitutes redevelopment
	3.	Proprietary BMPs are included in the Stormwater Management System.
	b. 🗌	No. Check why the project is exempt:
	1.] Single-family house
	2.	Emergency road repair
	3. [or	Small Residential Subdivision (less than or equal to 4 single-family houses or less than equal to 4 units in multi-family housing project) with no discharge to Critical Areas.
D.	Add	tional Information
	This is a Append 10.12).	proposal for an Ecological Restoration Limited Project. Skip Section D and complete ix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR
	Applica	its must include the following with this Notice of Intent (NOI). See instructions for details.
	Online	Jsers: Attach the document transaction number (provided on your receipt page) for any of wing information you submit to the Department.
	1. 🛛	USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
		Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Pro	ovided by MassDEP:
	MassDEP File Number
100	Document Transaction Number
	Devens
	City/Town

D.	Additional	Information	(cont'd
υ.	Additional	illiormation	(cont (

3.	Identify the method for BVW and other re Field Data Form(s), Determination of App and attach documentation of the method	olicability, Order of Resou	elineations (MassDEP BVW rce Area Delineation, etc.),
4. 🛛	List the titles and dates for all plans and	other materials submitted	with this NOI.
SI	nabokin Water Treatment Plant		
-	Plan Title		
W	right-Pierce	James Cray	
b.	Prepared By	c. Signed and Stamped by	
		Varies	
d.	Final Revision Date	e. Scale	
			09/08/2020
f. <i>F</i>	Additional Plan or Document Title		g. Date
5. 🗌	If there is more than one property owner, listed on this form.	please attach a list of the	ese property owners not
6.	Attach proof of mailing for Natural Heritage	ge and Endangered Speci	ies Program, if needed.
7.	Attach proof of mailing for Massachusetts	Division of Marine Fishe	ries, if needed.
8.	Attach NOI Wetland Fee Transmittal Form	n	
9. 🛛	Attach Stormwater Report, if needed.		

E. Fees

1	\boxtimes	Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district
• •		to Exempt. No ming lee shall be assessed for projects of any city, town, county, or district
		of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing
		authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number	3. Check date
4. State Check Number	5. Check date
6. Payor name on check: First Name	7. Payor name on check: Last Name



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Devens

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Jim Moore

1. Signature of Applicant

3. Signature of Property Owner (if different)

5. Signature of Representative (if any)

9/2/2020

City/Town

2. Date

4. Date 9/9/20 6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

below are accurately delineated.

Devens City/Town

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important: 1. Applicant: When filling out forms on the MassDevelopment jmoore@massdevelopment.com computer, use E-Mail Address only the tab key 33 Andrews Parkway to move your Mailing Address cursor - do not use the return Devens MA 01434 key. City/Town State Zip Code (978) 784-2391 (978) 772-7469 Phone Number Fax Number (if applicable) 2. Representative (if any): Caron Environmental Consulting, LLC Firm Charles Caron caronenv@aol.com Contact Name E-Mail Address 247 Bragg Hill Road Mailing Address Westminster MA 01473 City/Town State Zip Code (978) 944-2326 Phone Number Fax Number (if applicable) **B.** Determinations I request the Devens Enterprise Commission make the following determination(s). Check any that apply: Conservation Commission a. whether the area depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act. b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced

> c. whether the work depicted on plan(s) referenced below is subject to the Wetlands Protection Act. d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any municipal wetlands ordinance or bylaw of: Devens Name of Municipality e. whether the following scope of alternatives is adequate for work in the Riverfront Area as depicted on referenced plan(s).



2.

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

Devens City/Town

WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C.	Proj	ect	Des	crip	tion

150 Patton Road	Devens
Street Address	City/Town
10/11	99-200/99-204
Assessors Map/Plat Number	Parcel/Lot Number
b. Area Description (use additional paper	; if necessary):
ft. of road between them.	on, a gravel parking/turnaround and the approximately
c. Plan and/or Map Reference(s):	
Patton Water Treatment Plant, Devens, MA	
Title	Date
Title	Date
Title .	Date
	24.0
a. Work Description (use additional paper	and/or provide plan(s) of work if necessary):
This project is the construction of a water troplant is proposed to be 7500 sq. ft. in size water transcriptions are proposed tank, watermains, con	vith its associated driveway and parking, an emergeen inections, electrical connections, a 10000-gallon residu
his project is the construction of a water to lant is proposed to be 7500 sq. ft. in size v enerator, a propane tank, watermains, cor olding tank, a 4000-gallon tight tank and a	eatment plant at 96 Patton Road. The water treatment with its associated driveway and parking, an emergeen inections, electrical connections, a 10000-gallon residual.
This project is the construction of a water to plant is proposed to be 7500 sq. ft. in size water enerator, a propane tank, watermains, cortologing tank, a 4000-gallon tight tank and a	eatment plant at 96 Patton Road. The water treatmen with its associated driveway and parking, an emergeen inections, electrical connections, a 10000-gallon residual.
This project is the construction of a water troplant is proposed to be 7500 sq. ft. in size water transcriptions and a propane tank, watermains, controlling tank, a 4000-gallon tight tank and a	eatment plant at 96 Patton Road. The water treatmen with its associated driveway and parking, an emergeen inections, electrical connections, a 10000-gallon residual.
This project is the construction of a water troplant is proposed to be 7500 sq. ft. in size water transcriptions and a propane tank, watermains, controlling tank, a 4000-gallon tight tank and a	and/or provide plan(s) of work, if necessary): eatment plant at 96 Patton Road. The water treatmen vith its associated driveway and parking, an emergeen inections, electrical connections, a 10000-gallon residu ppurtenances. Clearing of 0.38 acres of vegetation is
This project is the construction of a water troplant is proposed to be 7500 sq. ft. in size water transcriptions and a propane tank, watermains, controlling tank, a 4000-gallon tight tank and a	eatment plant at 96 Patton Road. The water treatmen with its associated driveway and parking, an emergeen inections, electrical connections, a 10000-gallon residual.
This project is the construction of a water troplant is proposed to be 7500 sq. ft. in size vertically a propane tank, watermains, consolding tank, a 4000-gallon tight tank and a	eatment plant at 96 Patton Road. The water treatmen with its associated driveway and parking, an emergeen inections, electrical connections, a 10000-gallon residual.



Devens City/Town

WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C. Project Description (cont.	C.	Pro	ject	Descript	tion	(cont.)
-------------------------------	----	-----	------	----------	------	--------	---

Th wa	decessary). It is only work proposed within the 100-foot Buffer Zone, is approximately 135 linear feet of atermain and 15 linear feet of underground electrical conduit. This work is located within previously sturbed areas or Patton Road, and at the closest point is over 85 feet from the wetlands. No work is poposed within a resource area.
a. Ri	If this application is a Request for Determination of Scope of Alternatives for work in the verfront Area, indicate the one classification below that best describes the project.
	Single family house on a lot recorded on or before 8/1/96
	Single family house on a lot recorded after 8/1/96
	Expansion of an existing structure on a lot recorded after 8/1/96
	Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
	New agriculture or aquaculture project
	Public project where funds were appropriated prior to 8/7/96
	Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
	Residential subdivision; institutional, industrial, or commercial project
	Municipal project
	District, county, state, or federal government project
	Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.
b. abo	Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification ove (use additional paper and/or attach appropriate documents, if necessary.)



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Devens City/Town

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Massachusetts Development Finance Agency

Name

99 High Street: 11th Floor

Mailing Address

Boston

City/Town

MA

State

02110

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

n Moore Signature of Applicant

Signature of Representative (if any)

9-2-2020

Date

Date

Natural Heritage & Endangered Species Program Correspondence



FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581 p: (508) 389-6300 | f: (508) 389-7890 M A S S . G O V / M A S S W I L D L I F E

August 07, 2020

Charles Caron
Caron Environmental Consulting
247 Bragg Hill Road
Westminster MA 01473

RE:

Project Location:

Patton Well; Shebokin Well

Town:

DEVENS

NHESP Tracking No.:

09-26799

To Whom It May Concern:

Thank you for contacting the Natural Heritage and Endangered Species Program of the MA Division of Fisheries & Wildlife (the "Division") for information regarding state-listed rare species in the vicinity of the above referenced site. Based on the information provided, this project site, or a portion thereof, is located within Priority Habitat 1677 (PH 1677) and Estimated Habitat 1154 (EH 1154) as indicated in the Massachusetts Natural Heritage Atlas (14th Edition) for the following state-listed rare species:

Scientific name

Common Name

Taxonomic Group

State Status

Emydoidea blandingii

Blanding's Turtle

Reptile

Threatened

The species listed above are protected under the Massachusetts Endangered Species Act (MESA) (M.G.L. c. 131A) and its implementing regulations (321 CMR 10.00). State-listed wildlife are also protected under the state's Wetlands Protection Act (WPA) (M.G.L. c. 131, s. 40) and its implementing regulations (310 CMR 10.00). Fact sheets for most state-listed rare species can be found on our website (www.mass.gov/nhesp).

Please note that <u>projects and activities located within Priority and/or Estimated Habitat must be</u> reviewed by the <u>Division</u> for compliance with the state-listed rare species protection provisions of MESA (321 CMR 10.00) and/or the WPA (310 CMR 10.00).

Wetlands Protection Act (WPA)

If the project site is within Estimated Habitat and a Notice of Intent (NOI) is required, then a copy of the NOI must be submitted to the Division so that it is received at the same time as the local conservation commission. If the Division determines that the proposed project will adversely affect the actual Resource Area habitat of state-protected wildlife, then the proposed project may not be permitted (310 CMR 10.37, 10.58(4)(b) & 10.59). In such a case, the project proponent may request a consultation with the Division to discuss potential project design modifications that would avoid adverse effects to rare wildlife habitat.

A streamlined joint MESA/WPA review process is available. When filing a Notice of Intent (NOI), the applicant may file concurrently under the MESA on the same NOI form and qualify for a 30-day

streamlined joint review. For a copy of the NOI form, please visit the MA Department of Environmental Protection's website: https://www.mass.gov/how-to/wpa-form-3-wetlands-notice-of-intent.

MA Endangered Species Act (MESA)

If the proposed project is located within Priority Habitat and is not exempt from review (see 321 CMR 10.14), then project plans, a fee, and other required materials must be sent to Natural Heritage Regulatory Review to determine whether a probable Take under the MA Endangered Species Act would occur (321 CMR 10.18). Please note that all proposed and anticipated development must be disclosed, as MESA does not allow project segmentation (321 CMR 10.16). For a MESA filing checklist and additional information please see our website: https://www.mass.gov/regulatory-review.

We recommend that rare species habitat concerns be addressed during the project design phase prior to submission of a formal MESA filing, <u>as avoidance and minimization of impacts to rare species and their habitats is likely to expedite endangered species regulatory review.</u>

This evaluation is based on the most recent information available in the Natural Heritage database, which is constantly being expanded and updated through ongoing research and inventory. If the purpose of your inquiry is to generate a species list to fulfill the federal Endangered Species Act (16 U.S.C. 1531 et seq.) information requirements for a permit, proposal, or authorization of any kind from a federal agency, we recommend that you contact the National Marine Fisheries Service at (978)281-9328 and use the U.S. Fish and Wildlife Service's Information for Planning and Conservation website (https://ecos.fws.gov/ipac). If you have any questions regarding this letter please contact Melany Cheeseman, Endangered Species Review Assistant, at (508) 389-6357.

Sincerely,

Everose Schlüter, Ph.D. Assistant Director

loune Schliets



Caron Environmental Consulting, LLC

Wetlands • Forestry • Permitting • Habitat Studies

July 31, 2020

Natural Heritage and Endangered Species Program Massachusetts Division of Fisheries and Wildlife 1 Rabbit Hill Road Westborough, MA 01581

Re: Request for State Listed Species information MassDevelopment Patton and Shebokin Water Treatment Plants; Devens

Dear Sir or Madam:

Enclosed, please find a Request for State Listed Species for the above listed proposed water treatment plants, along with the required fee. There is currently a yet to be constructed, NHESP approved project on site; the proposed Sheridan Well (NHESP Tracking #09-26394).

We are under the assumption that we will need a completely new filing under a new file number for the water treatment plant project. If this is not the case please let us know. We also need to confirm that we are dealing with the same species in the area of both of the proposed water treatment plants.

If you have any questions in regards to this matter, please feel free to contact us.

Very truly yours,

CARON ENVIRONMENTAL CONSULTING, LLC By:

Charles E. Caron



FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581 p: (508) 389-6300 | f: (508) 389-7890 MASS.GOV/MASSWILDLIFE

Request for State-listed Species Information

Please complete this form to request state-listed species information from the Natural Heritage & Endangered Species Program for a particular location (please submit only one project per form).

Fee: \$50.00, Payable to Comm. of MA - NHESP (as required in 321 CMR 10.17(3))

No fee required if request is for conservation purposes or habitat management <u>and</u> you are a non-profit conservation group, government agency or are working with a government agency.

Requestor Information

Name: Charles Caron Affiliation: Caron Environmental Consulting, LLC

Address: 247 Bragg Hill Road

City: Westminster State: MA Zip Code: 01473

Daytime Phone: (978) 944-2326 Ext. Email address: caronenv@aol.com

Project Information

Project or Site Name: Patton Water Treatment Plant & Shebokin Water Treatment Plant

Location: 96 Patton Road & 88 Sheridan Road Town: Devens

Name of Landowner or Project Proponent (if different from Requestor): MassDevelopment

Acreage of the Property: 62.49 Acres

Description of Proposed Project and Current Site Conditions: (If necessary attach additional sheet)

See Attached

Required: Enclose a map with the site location clearly marked and centered on the page.

Please mail this completed form, a topographic map, and fee (if applicable) to the above address, Attn: Regulatory Review.

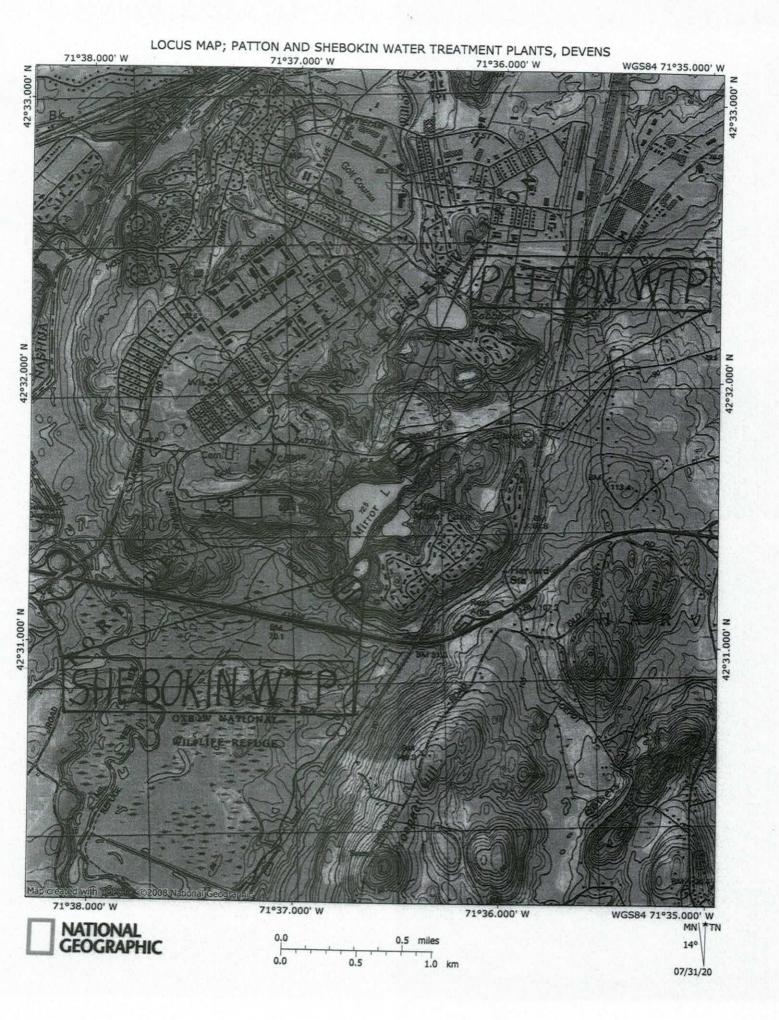
If no fee is required, you can email the information to natural.heritage@state.ma.us.

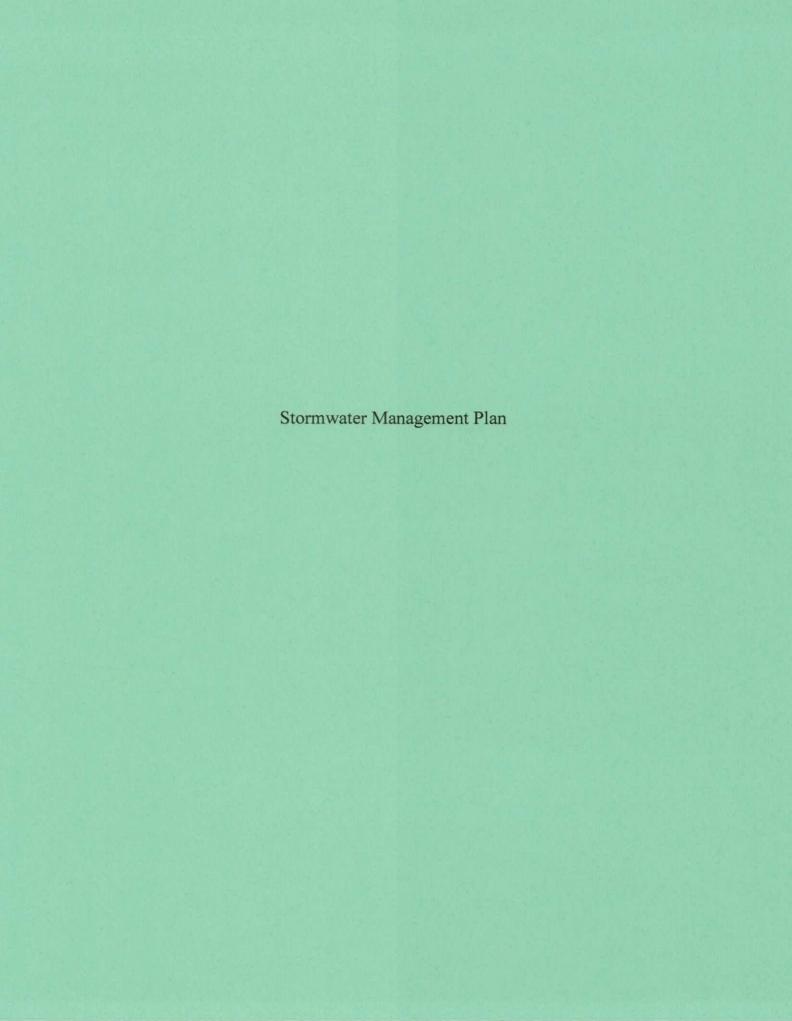
A written response will be returned within 30 days of receipt of all information required.

Description of Proposed Project and Current Site Conditions:
The project consists of the construction of two water treatment plants, one at 96 Patton Road (Patton WTP) and one at 88 Sheridan Road (Shebokin WTP).

The Patton WTP will be centered on a gravel parking area. In addition, about 1-acre of what appears to be a reclaimed gravel pit will be cleared. The work at the Patton WTP site consists of the construction of an 8080 sq.ft. water treatment plant, paved driveway with 4 parking spaces, electric generator and propane tank on concrete pads, 4000-gallon tight tank, 10000-gallon sanitary tank and appurtenances. New water mains along will also be installed along Patton Road to the Patton Well. All work will take place in areas that have been disturbed. The source of water will be the existing Patton Well. No increase in withdrawal is proposed.

The Shebokin WTP is to be located within an old gravel pit. About ½-acre of clearing will be needed around the edge of the site. The work at the Shebokin WTP site consists of the construction of an 8080 sq.ft. water treatment plant, paved driveway with 2 parking spaces, electric generator and propane tank on concrete pads, 4000-gallon tight tank, 10000-gallon sanitary tank, new water mains and appurtenances. Most work will take place in areas that have been previously disturbed. The source of water will be the existing Shebokin Well and the future Sheridan Road Well. No increase in withdrawal from the Shebokin Well is proposed.





Attached are the Checklist for Stormwater Reports for the Patton and Shabokin Water Treatment Plants. The full Stormwater Report can be found at the FTP link below.

FTP link:

https://wrightpierce.sharepoint.com/:f:/s/FTP/Erh0vSFP9a1BkQgqmrmdW3YBdkiklg_zC9E8_tfAQJWPCQ

PATTON WATER TREATMENT PLANT CHECKLIST FOR STORMWATER REPORT



Checklist for Stormwater Report

A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.¹ This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature	
Signature and Date	
Checklist	
Project Type: Is the application for new development, redevelopment, o redevelopment?	r a mix of new and
New development ■ New development Nextreme development New development New development Ne	
New development☐ Redevelopment	



C	necklist (continued)
er	D Measures: Stormwater Standards require LID measures to be considered. Document what nvironmentally sensitive design and LID Techniques were considered during the planning and design of e project:
\boxtimes	No disturbance to any Wetland Resource Areas
\boxtimes	Site Design Practices (e.g. clustered development, reduced frontage setbacks)
	Reduced Impervious Area (Redevelopment Only)
\boxtimes	Minimizing disturbance to existing trees and shrubs
	LID Site Design Credit Requested:
	☐ Credit 1
	☐ Credit 2
	☐ Credit 3
\boxtimes	Use of "country drainage" versus curb and gutter conveyance and pipe
	Bioretention Cells (includes Rain Gardens)
	Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
	Treebox Filter
	Water Quality Swale
	Grass Channel
	Green Roof
	Other (describe): Infiltration Basins and Drywells
Sta	andard 1: No New Untreated Discharges
	No new untreated discharges
\boxtimes	Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
\boxtimes	Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



-					
C	Checklist (continued)				
St	tandard 2: Peak Rate Attenuation				
	 Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding. Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm. 				
	Calculations provided to show that post-development peak discharge rates do not exceed pre- development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24- hour storm.				
Sta	indard 3: Recharge				
\boxtimes	Soil Analysis provided.				
\boxtimes	Required Recharge Volume calculation provided.				
	Required Recharge volume reduced through use of the LID site Design Credits.				
	Sizing the infiltration, BMPs is based on the following method: Check the method used.				
	☐ Static ☐ Simple Dynamic ☐ Dynamic Field¹				
	Runoff from all impervious areas at the site discharging to the infiltration BMP.				
	Runoff from all impervious areas at the site is <i>not</i> discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.				
\boxtimes	Recharge BMPs have been sized to infiltrate the Required Recharge Volume.				
	☐ Site is comprised solely of C and D soils and/or bedrock at the land surface				
	M.G.L. c. 21E sites pursuant to 310 CMR 40.0000				
	☐ Solid Waste Landfill pursuant to 310 CMR 19.000				
	Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.				
	Calculations showing that the infiltration BMPs will drain in 72 hours are provided.				
	Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.				

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



Ch	necklist (continued)
Sta	ndard 3: Recharge (continued)
	The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
	Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.
Sta	ndard 4: Water Quality
The	E Long-Term Pollution Prevention Plan typically includes the following: Good housekeeping practices; Provisions for storing materials and waste products inside or under cover; Vehicle washing controls; Requirements for routine inspections and maintenance of stormwater BMPs; Spill prevention and response plans; Provisions for maintenance of lawns, gardens, and other landscaped areas; Requirements for storage and use of fertilizers, herbicides, and pesticides; Pet waste management provisions; Provisions for operation and management of septic systems; Provisions for solid waste management; Snow disposal and plowing plans relative to Wetland Resource Areas; Winter Road Salt and/or Sand Use and Storage restrictions; Street sweeping schedules; Provisions for prevention of illicit discharges to the stormwater management system; Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL; Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan; List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
	attachment to the Wetlands Notice of Intent.
	is near or to other critical areas
	is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
	involves runoff from land uses with higher potential pollutant loads.
	The Required Water Quality Volume is reduced through use of the LID site Design Credits.
\boxtimes	Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.



-	
С	hecklist (continued)
St	andard 4: Water Quality (continued)
\boxtimes	The BMP is sized (and calculations provided) based on:
	☐ The ½" or 1" Water Quality Volume or
	The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
	The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
	A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.
Sta	andard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)
	The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report. The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted <i>prior</i> to the discharge of stormwater to the post-construction stormwater BMPs.
	The NPDES Multi-Sector General Permit does not cover the land use.
	LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
	All exposure has been eliminated.
	All exposure has not been eliminated and all BMPs selected are on MassDEP LUHPPL list.
	The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.
Sta	ndard 6: Critical Areas
	The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
\boxtimes	Critical areas and BMPs are identified in the Stormwater Report.



Checklist for Stormwater Report

provided there is no discharge that may potentially affect a critical area.

Checklist (continued) Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable ☐ The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a: Limited Project

\Box	Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development
	with a discharge to a critical area
	Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
	Rika Rath and/or Foot Rath

☐ Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development

∃ Bike Path and/or Foot Path

	Redevelopment	Project
--	---------------	---------

Redevelopment portion of mix of new and redevelopment.

Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.

The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Construction Period Operation and Maintenance Plan;
- Names of Persons or Entity Responsible for Plan Compliance;
- Construction Period Pollution Prevention Measures;
- Erosion and Sedimentation Control Plan Drawings;
- Detail drawings and specifications for erosion control BMPs, including sizing calculations;
- Vegetation Planning:
- Site Development Plan:
- Construction Sequencing Plan;
- Sequencing of Erosion and Sedimentation Controls;
- Operation and Maintenance of Erosion and Sedimentation Controls;
- Inspection Schedule:
- Maintenance Schedule;
- Inspection and Maintenance Log Form.
- A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued) Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued) The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application, A Construction Period Pollution Prevention and Erosion and Sedimentation Control has not been included in the Stormwater Report but will be submitted before land disturbance begins. The project is not covered by a NPDES Construction General Permit. ☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report. ☐ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins. Standard 9: Operation and Maintenance Plan includes the following information: Name of the stormwater management system owners; Party responsible for operation and maintenance; Schedule for implementation of routine and non-routine maintenance tasks; Plan showing the location of all stormwater BMPs maintenance access areas; Description and delineation of public safety features; Estimated operation and maintenance budget; and Operation and Maintenance Log Form. The responsible party is **not** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions: ☐ A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs; A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions. Standard 10: Prohibition of Illicit Discharges The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges; An Illicit Discharge Compliance Statement is attached; NO Illicit Discharge Compliance Statement is attached but will be submitted *prior to* the discharge of

any stormwater to post-construction BMPs.

SHABOKIN WATER TREATMENT PLANT CHECKLIST FOR STORMWATER REPORT



Checklist for Stormwater Report

A. Introduction

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.¹ This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Re	egistered Professional Engine	er Block and Signature	
		Cinnetus and Date	1.44
		Signature and Date	
		Checklist	77
Pro	roject Type: Is the application development?	for new development, redevelopment, or a mix of new and	
\boxtimes	New development		
	Redevelopment		
	Mix of New Development an	d Redevelopment	



Checklist for Stormwater Report

C	necklist (continued)
en	D Measures: Stormwater Standards require LID measures to be considered. Document what vironmentally sensitive design and LID Techniques were considered during the planning and design of a project:
\boxtimes	No disturbance to any Wetland Resource Areas
\boxtimes	Site Design Practices (e.g. clustered development, reduced frontage setbacks)
	Reduced Impervious Area (Redevelopment Only)
\boxtimes	Minimizing disturbance to existing trees and shrubs
	LID Site Design Credit Requested:
	☐ Credit 1
	☐ Credit 2
	☐ Credit 3
\boxtimes	Use of "country drainage" versus curb and gutter conveyance and pipe
	Bioretention Cells (includes Rain Gardens)
	Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
	Treebox Filter
	Water Quality Swale
	Grass Channel
	Green Roof
\boxtimes	Other (describe): Infiltration Basins and Drywells
Sta	ndard 1: No New Untreated Discharges
\boxtimes	No new untreated discharges
	Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
\boxtimes	Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



Checklist for Stormwater Report

CI	necklist (continued)			
Sta	andard 2: Peak Rate Attenuation			
	Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding. Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.			
	Calculations provided to show that post-development peak discharge rates do not exceed pre- development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24- hour storm.			
Sta	andard 3: Recharge			
\boxtimes	Soil Analysis provided.			
\boxtimes	Required Recharge Volume calculation provided.			
	Required Recharge volume reduced through use of the LID site Design Credits.			
	Sizing the infiltration, BMPs is based on the following method: Check the method used.			
	☐ Static ☐ Simple Dynamic ☐ Dynamic Field¹			
\boxtimes	Runoff from all impervious areas at the site discharging to the infiltration BMP.			
	Runoff from all impervious areas at the site is <i>not</i> discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.			
\boxtimes	Recharge BMPs have been sized to infiltrate the Required Recharge Volume.			
	Recharge BMPs have been sized to infiltrate the Required Recharge Volume <i>only</i> to the maximum extent practicable for the following reason:			
	☐ Site is comprised solely of C and D soils and/or bedrock at the land surface			
	M.G.L. c. 21E sites pursuant to 310 CMR 40.0000			
	☐ Solid Waste Landfill pursuant to 310 CMR 19.000			
	Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.			
\boxtimes	Calculations showing that the infiltration BMPs will drain in 72 hours are provided.			
	Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.			

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



Checklist for Stormwater Report

C	hecklist (continued)
St	andard 3: Recharge (continued)
	The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
	Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.
St	andard 4: Water Quality
	e Long-Term Pollution Prevention Plan typically includes the following: Good housekeeping practices; Provisions for storing materials and waste products inside or under cover; Vehicle washing controls; Requirements for routine inspections and maintenance of stormwater BMPs; Spill prevention and response plans; Provisions for maintenance of lawns, gardens, and other landscaped areas; Requirements for storage and use of fertilizers, herbicides, and pesticides; Pet waste management provisions; Provisions for operation and management of septic systems; Provisions for solid waste management; Snow disposal and plowing plans relative to Wetland Resource Areas; Winter Road Salt and/or Sand Use and Storage restrictions; Street sweeping schedules; Provisions for prevention of illicit discharges to the stormwater management system; Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL; Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan; List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
	attachment to the Wetlands Notice of Intent. Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
	is within the Zone II or Interim Wellhead Protection Area
	is near or to other critical areas
	is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
	involves runoff from land uses with higher potential pollutant loads.
	The Required Water Quality Volume is reduced through use of the LID site Design Credits.
	Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.



Checklist for Stormwater Report

Checklist (continued) Standard 4: Water Quality (continued) The BMP is sized (and calculations provided) based on: ☐ The ½" or 1" Water Quality Volume or The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume. The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2. Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs. ☐ A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided. Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs) ☐ The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report. The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted prior to the discharge of stormwater to the post-construction stormwater BMPs. The NPDES Multi-Sector General Permit does **not** cover the land use. LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan. All exposure has been eliminated. All exposure has not been eliminated and all BMPs selected are on MassDEP LUHPPL list. The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent. Standard 6: Critical Areas ☐ The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area. Critical areas and BMPs are identified in the Stormwater Report.



Checklist for Stormwater Report

-		
C	nec	cklist (continued)
Sta ext	The	ard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum practicable a project is subject to the Stormwater Management Standards only to the maximum Extent acticable as a:
		Limited Project
		The state of the s
		with a discharge to a critical area Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
		Bike Path and/or Foot Path
		Redevelopment Project
		Redevelopment portion of mix of new and redevelopment.
	 Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and a explanation of why these standards are not met is contained in the Stormwater Report. The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist for in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreater and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions. 	

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

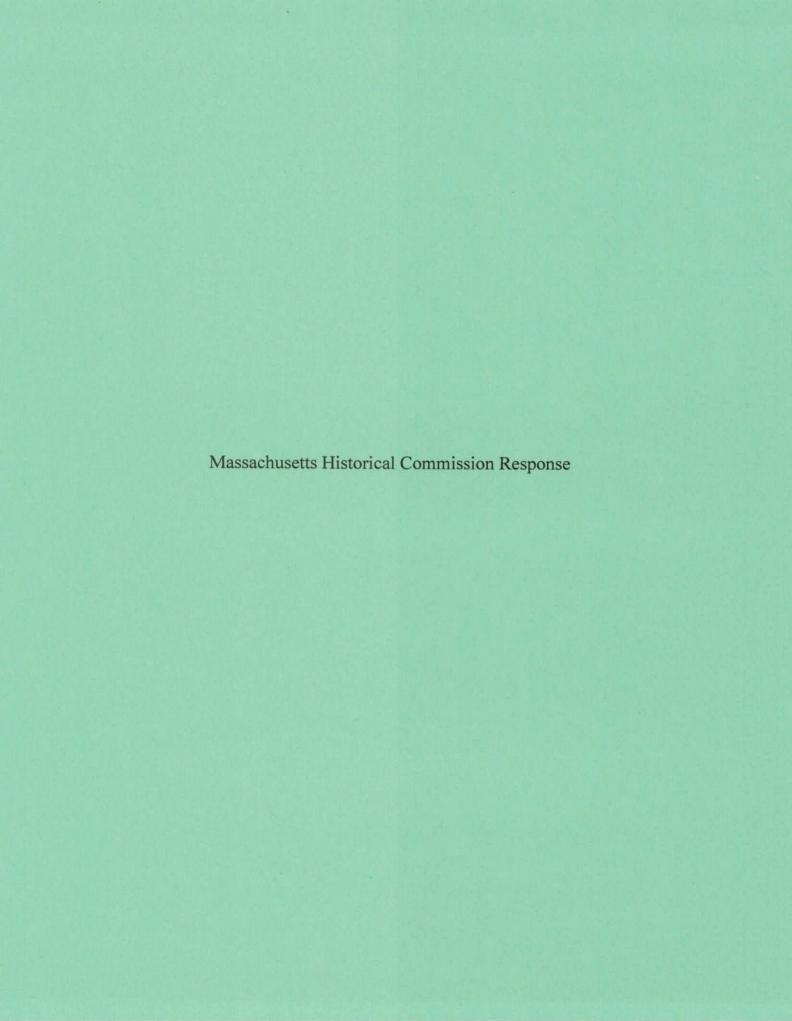
A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative:
- Construction Period Operation and Maintenance Plan;
- Names of Persons or Entity Responsible for Plan Compliance;
- Construction Period Pollution Prevention Measures;
- Erosion and Sedimentation Control Plan Drawings;
- Detail drawings and specifications for erosion control BMPs, including sizing calculations;
- Vegetation Planning;
- Site Development Plan;
- Construction Sequencing Plan;
- Sequencing of Erosion and Sedimentation Controls;
- Operation and Maintenance of Erosion and Sedimentation Controls;
- Inspection Schedule;
- Maintenance Schedule;
- Inspection and Maintenance Log Form.
- A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



Checklist for Stormwater Report

Checklist (continued) Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued) ☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has not been included in the Stormwater Report but will be submitted before land disturbance begins. The project is **not** covered by a NPDES Construction General Permit. ☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report. ☐ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins. Standard 9: Operation and Maintenance Plan includes the following information: Name of the stormwater management system owners; Party responsible for operation and maintenance; Schedule for implementation of routine and non-routine maintenance tasks; Plan showing the location of all stormwater BMPs maintenance access areas; Description and delineation of public safety features; Estimated operation and maintenance budget; and Operation and Maintenance Log Form. The responsible party is *not* the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions: A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs; A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions. Standard 10: Prohibition of Illicit Discharges The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges; NO Illicit Discharge Compliance Statement is attached but will be submitted prior to the discharge of any stormwater to post-construction BMPs.



AUG 03 2020

MASS HIST COMM

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

RC.68469

APPENDIX A

MASSACHUSETTS HISTORICAL COMMISSION

220 MORRISSEY BOULEVARD BOSTON, MASS. 02125 617-727-8470, FAX: 617-727-5128

Executive Director
State Historic Preservation Officer
Massachusetts Historical Commission

Date

Brona Simon Executive Dire

PROJECT NOTIFICATION FORM

Project Name: Patton & Shebokin Water Treatment Plants

Location / Address: 96 Patton Road & 88 Sheridan Road

City / Town: Devens

After review of MHC files and the materials you submitted, it has been determined that this project is unlikely to affect significant historic or archaeological resources.

Project Proponent

Name: MassDevelopment

Address: 33 Andrews Parkway

City/Town/Zip/Telephone: Devens, MA 01434

Agency license or funding for the project (list all licenses, permits, approvals, grants or other entitlements being sought from state and federal agencies).

Agency Name

Type of License or funding (specify)

Refer to attached narrative.

Project Description (narrative):

Refer to attached narrative.

Does the project include demolition? If so, specify nature of demolition and describe the building(s) which are proposed for demolition.

Refer to attached narrative.

Does the project include rehabilitation of any existing buildings? If so, specify nature of rehabilitation and describe the building(s) which are proposed for rehabilitation.

Refer to attached narrative.

Does the project include new construction? If so, describe (attach plans and elevations if necessary).

The project consists of the construction of two new water treatment plants.

5/31/96 (Effective 7/1/93) - corrected

950 CMR - 275

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

APPENDIX A (continued)

To the best of your knowledge, are any historic or archaeological properties known to exist within the project's area of potential impact? If so, specify. The Fort Devens-Sheboken Well Area

What is the total acreage of the project area?

7/1/93

Woodland 53.58	acres	Productive Resources:	
Wetland 0.92	acres	Agriculture 0.00	acres
Floodplain 0.00	acres	Forestry 0.00	acres
Open space 2.84 (non-wooded areas)	acres	Mining/Extraction 0.00	acres
Developed_5.15	acres	Total Project Acreage 62.49	acres
What is the acreage of the proposed new const	ruction? 1.5	acres	
What is the present land use of the project are	a?		
Refer to attached narrative			
Please attach a copy of the section of the USGS	6 quadrangle ma	p which clearly marks the project	location.
Attached.			
This Project Notification Form has been submitte	d to the MHC in	compliance with 950 CMR 71.00.	
Signature of Person submitting this form:	ah E E	Date: 7/3//20	
Address: 247 Bragg Hill Road			
City/Town/Zip: Westminster, MA 01473			
Telephone: (978) 944-2326			
REGULATORY AUTHORITY			

950 CMR - 276