



Bureau of Resource Protection - Wetlands

Form 3 – Notice of Intent
Massachusetts Wetlands Protection Act (M.G.L. c.131 s.40)
Norfolk Wetland Protection Regulations and Wetland Protection
Bylaw (Chapter 2)

Geotechnical Boring Program Eversource Medway DCT 325-344 Norfolk, MA



Submitted to:
Norfolk Conservation Commission
Town Hall
One Liberty Lane
Norfolk, MA 02056

MassDEP Central Regional Office
8 New Bond Street
Worcester, MA 01606

Prepared for:
NSTAR Electric d/b/a Eversource Energy
247 Station Drive
Westwood, MA 02090

Submitted by:
Epsilon Associates, Inc.
3 Mill & Main Place, Suite 250
Maynard, MA 01754

December 19, 2018





5006/Eversource Medway DCT 325-344/Geotech Borings NOI

December 19, 2018

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Norfolk Conservation Commission
Town Hall Room 105c
One Liberty Lane
Norfolk, MA 02056

**Subject: Notice of Intent - Geotechnical Boring Program, Eversource
Medway DCT 325-344 Right-of-Way, Norfolk, Massachusetts**

Dear Commission Members and Staff:

On behalf of Eversource (the "Applicant"), Epsilon Associates, Inc. ("Epsilon") is pleased to submit this Notice of Intent ("NOI") to the Norfolk Conservation Commission for approval to conduct a subsurface geotechnical investigation in an existing Eversource right-of-way ("ROW") in Norfolk, Massachusetts. This investigation is needed to advance the planning and design for proposed loop line within this segment of the ROW.

The subject of this NOI is a proposed geotechnical boring program supporting future transmission line construction on an existing Eversource right-of-way ("ROW"). Eversource is a transmission provider and its transmission system is an integral part of the regional power system delivering electricity to customers throughout New England. To maintain the integrity of this system, the Company must ensure that adequate transmission capacity exists to meet existing and projected load requirements. In order to address numerous thermal overload conditions on 115-kV lines and 345/115-kV autotransformers in the Boston Area, Eversource is proposing to separate existing overhead double circuit electric transmission lines located on Eversource ROW #4.

Geotechnical boring activities will involve minor work in Bordering Vegetated Wetlands ("BVW"), the 100-foot Buffer Zone, and Riverfront Area ("RFA"). The boring equipment will be staged on construction mats as necessary within the resource areas which will be restored (if necessary) following completion of the work. Additional information is provided below.

The enclosed NOI was prepared in accordance with the Massachusetts Wetlands Protection Act (MGL c.131 §40), the Massachusetts Wetland Protection Regulations

978 897 7100

FAX 978 897 0099

3 Mill & Main Place, Suite 250
Maynard, MA 01754
www.epsilonassociates.com

(310 CMR 10.00), the Norfolk Wetland Protection Regulations and the Wetlands Protection Bylaw (Chapter 2), and its submission regulations.

This NOI is being submitted for the Commission's review at the next available public hearing, understood to be January 9, 2019. If the Commission would like to conduct a site walk prior to that date or has any questions regarding this NOI, please contact me at 978-461-6263 or via email at dklinch@epsilonassociates.com.

Sincerely,
EPSILON ASSOCIATES, INC.



David Klinch
Principal

cc: DEP/CERO

Notice of Intent

Massachusetts Wetlands Protection Act (M.G.L. c.131 §.40)
Norfolk Wetland Protection Regulations and
Wetlands Protection Bylaw (Section 2)

Geotechnical Boring Program Eversource Medway DCT 325-344 Norfolk, MA

Applicant:

NSTAR Electric d/b/a Eversource Energy
247 Station Drive
Westwood, MA 02090

Prepared By:

Epsilon Associates, Inc.
3 Mill & Main Place, Suite 250
Maynard, MA 01754

December 19, 2018



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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Norfolk

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.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

<u>Existing right-of-way</u>	<u>Norfolk</u>	<u>02056</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>Existing right-of-way</u>	<u>Existing right-of-way</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	
	d. Latitude	e. Longitude

2. Applicant:

<u>Michael</u>	<u>Zylich</u>	
a. First Name	b. Last Name	
<u>NSTAR Electric d/b/a Eversource Energy</u>		
c. Organization		
<u>247 Station Drive SE 270</u>		
d. Street Address		
<u>Westwood</u>	<u>MA</u>	<u>02090</u>
e. City/Town	f. State	g. Zip Code
<u>781-441-3804</u>	<u>michael.zylich@eversource.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

<u></u>	<u></u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Street Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>David</u>	<u>Klinch</u>	
a. First Name	b. Last Name	
<u>Epsilon Associates, Inc.</u>		
c. Company		
<u>3 Mill & Main Place, Suite 250</u>		
d. Street Address		
<u>Maynard</u>	<u>MA</u>	<u>01754</u>
e. City/Town	f. State	g. Zip Code
<u>978-461-6263</u>	<u>978-897-0099</u>	<u>dklinch@epsilonassociates.com</u>
h. Phone Number	i. Fax Number	j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

<u>\$915.00 + \$1,050.00 (bylaw fee)</u>	<u>\$445.00</u>	<u>\$470.00 + \$1,050.00 (bylaw fee)</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

See Attachment A, Project Narrative.

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

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Not applicable -- existing right-of-way

a. County

b. Certificate # (if registered land)

c. Book

d. Page Number

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

- 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any 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.



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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	23,000 s.f. (temporary) 1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet 3. cubic feet of flood storage lost	2. square feet 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input checked="" type="checkbox"/> Riverfront Area	Charles River (inland) 1. Name of Waterway (if available) - specify coastal or inland	

2. 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: 458,096 s.f.
square feet

4. Proposed alteration of the Riverfront Area:

<u>7,115 s.f. (temporary)</u>	<u>3,416 s.f. (temporary)</u>	<u>3,699 s.f. (temporary)</u>
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.



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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.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	
	1. square feet	2. cubic yards dune nourishment

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	

4. Restoration/Enhancement
 If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

_____ a. square feet of BVW _____ b. square feet of Salt Marsh

5. Project Involves Stream Crossings

_____ a. number of new stream crossings _____ b. number of replacement stream crossings



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C. Other 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

- 1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on 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.

- a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

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

- b. Date of map 2017

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).*

- c. Submit Supplemental Information for Endangered Species Review*

- 1. Percentage/acreage of property to be altered:

(a) within wetland Resource Area	<u>0% - work is temporary</u> percentage/acreage
(b) outside Resource Area	<u>0% - work is temporary</u> 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) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) 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.



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

(c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/mesa/mesa_fee_schedule.htm).
Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/mesa/mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: DMF.EnvReview-South@state.ma.us

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: DMF.EnvReview-North@state.ma.us

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.



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

Online Users:

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

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. Yes No If 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 portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. Yes No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. Yes No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. 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. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following 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.)
2. 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.



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D. Additional Information (cont'd)

3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. List the titles and dates for all plans and other materials submitted with this NOI.

Attachment B, Figure 3 - Project Plans (Sheets 1 through 15)

a. Plan Title

Epsilon Associates, Inc.

b. Prepared By

c. Signed and Stamped by

1" = 80'

d. Final Revision Date

e. Scale

12/14/2018

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. Attach NOI Wetland Fee Transmittal Form

9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee 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:

37593, 37592

12/11/18

2. Municipal Check Number

3. Check date

37594

12/11/18

4. State Check Number

5. Check date

Epsilon Associates, Inc.

--

6. Payor name on check: First Name

7. Payor name on check: Last Name



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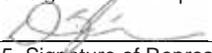
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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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.

	12/17/18
1. Signature of Applicant	2. Date
3. Signature of Property Owner (if different)	4. Date
	12/17/18
5. Signature of Representative (if any)	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.

Attachment A

Project Narrative

ATTACHMENT A – PROJECT NARRATIVE

1.0 Introduction

On behalf of the NSTAR Electric Company d/b/a Eversource Energy (“Eversource”), (the “Applicant”), Epsilon Associates, Inc. (“Epsilon”) is pleased to submit this Notice of Intent (“NOI”) to the Norfolk Conservation Commission for exploratory subsurface investigation activities necessary to support the final design of Eversource’s Medway to Walpole Reliability Project (“the Project”). This NOI has been prepared in accordance with the Massachusetts Wetland Protection Act (MGL c.131 s.40) (the “Act”), its implementing Regulations (310 CMR 10.00) (“Regulations”), and the Town of Norfolk Wetlands Protection Bylaw (Section 2) and its Regulations.

The overall Project will involve separating existing overhead double circuit electric transmission lines located along a 9-mile segment of Eversource’s right-of-way (“ROW”) #4 from east to west starting at the existing West Medway Substation #446 off West Street in Medway to the existing West Walpole Substation #447 in Walpole (see Attachment B, Figures 1 and 2). The double circuit electric transmission lines along this segment of ROW are currently co-located on steel monopole structures. Separating these circuits by relocating one of the existing overhead electric transmission conductors and circuit to a new set of steel monopoles within the existing ROW will serve to address thermal overload conditions and increase reliability in this portion of the regional transmission system. At a future date, Eversource will submit a Notice of Intent to the Norfolk Conservation Commission for construction-related work for the overall Project.

This phase of the Project, which is the subject of this NOI, includes the advancement of a total of 18 geotechnical borings along approximately 3.2 miles of ROW within Norfolk. These proposed subsurface investigations are best characterized as planning and design activities and are necessary to characterize the subsurface geology of the area to complete the final design of the new steel monopoles to be proposed along this segment of ROW in the future. In addition, soil and groundwater samples will be collected from the cores to analyze the soil and groundwater for the presence of oil and hazardous materials. The proposed borings are temporary in nature, will be performed such that they result in negligible impacts, and are necessary for planning and design purposes.

Of the eighteen (18) proposed boring locations within Norfolk, seven (7) are within Bordering Vegetated Wetland (“BVW”), one (1) is within Riverfront Area (“RFA”), and two (2) are within the 100-foot Buffer Zone. The remaining boring locations are outside of any state or locally regulated wetland resource area.

According to 310 CMR 10.02(2)(b)(1) and 310 CMR 10.58(6)(b) (Riverfront Area (“RFA”) regulations) the geotechnical boring work described herein, located within the Buffer Zone and Riverfront Area qualify as a minor activity, not subject to regulation under the

Massachusetts Wetlands Protection Act and Regulations and as such would not require a filing with the Commission.

Although proposed borings located within Buffer Zone or Riverfront Area only would not require the filing of an NOI under the MWPA and Regulations, the Norfolk Wetland Bylaw at Section 2.C. states, "Other than stated in this section, the exceptions provided in the Wetlands Protection Act shall not apply under this bylaw" and the Norfolk Wetland Regulations do not contain any minor activity related exemptions. As such, all the proposed borings within locally jurisdictional wetland resource areas would require the issuance of an approval from the Norfolk Conservation Commission to commence.

Table 1-1 Summary of Wetland Jurisdiction for Proposed Boring Locations⁽¹⁾

Boring Number	Within Bordering Vegetated Wetland	Within Riverfront Area	Within 100-Foot Buffer Zone	Within Priority Habitat	Comment
29		X			Access to the boring in addition to the boring is located in RFA.
28			X	X	Access to the boring and the boring itself is located in the 100-ft Buffer Zone to BVW.
24	X			X	Access to the boring and the boring itself is located in BVW.
22	X			X	The boring is not located in a resource area; however, access to the boring will pass through BVW.
19	X			X	Access to the boring and the boring itself is located in BVW.
18	X		X		Access to the boring will require matting through BVW. The boring itself is located in the 100-foot buffer zone to BVW.
17	X			X	Access to the boring and the boring itself will require matting in BVW.
16	X			X	Access to the boring will require matting in BVW. The boring itself is located outside of resource areas.
15	X				Access to the boring will require matting in BVW. The boring itself is located outside of resource areas.

13			X		Access to the boring and the boring itself are located in the 100-foot buffer zone to BVW.
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- (1) Proposed boring locations 27, 26, 25, 23, 21, 20 are not located within wetland area jurisdiction (including 100-Foot BZ) and do not require the placement of timber mats within wetland resource areas to accommodate access to the proposed location, but, are within Priority Habitat for a state-listed species. Proposed boring locations 14 and 13 and associated access are not located within wetland area jurisdiction (including 100-Foot BZ) and are not within Priority Habitat.

Geotechnical boring activities will involve minor work in Bordering Vegetated Wetlands (“BVW”), Riverfront Area (“RFA”), and the 100-foot buffer zone. No work is currently proposed in Bordering Land Subject to Flooding (“BLSF”). The boring equipment will be staged on construction mats as necessary within BVW which will be restored (if necessary) following completion of the work. Additional information is provided below.

2.0 Overview of Existing Conditions

The proposed work will occur in Eversource’s ROW #4, intersecting the towns of Medway, Bellingham, Franklin, Millis, Norfolk, and Walpole, Massachusetts. The ROW in Norfolk, Massachusetts is located between the Charles River just west of Dean Street in Norfolk to Lincoln Road (see Attachment B, Figures 1 and 2). Epsilon conducted on-site wetland delineation within the ROW in the summer of 2018, and delineated wetland resource areas within and adjacent to the ROW (see Attachment B, Figure 3 – Project Plans).

Twenty (20) wetland systems were identified and delineated along the ROW in Norfolk and are described below in Table 2-1, Wetland Resource Areas. Seven (7) stream features were delineated; of the seven, three (3) are perennial (Charles River, Stop River, and an unnamed stream) and four (4) are intermittent streams. Thirteen (13) wetland resource areas were delineated, including two (2) isolated vegetated wetlands (IVW) and eleven (11) bordering vegetated wetlands (BVW).

According to 310 CMR 10.55, BVW is defined as freshwater wetlands which border on creeks, rivers, streams, ponds and lakes. The types of freshwater wetlands are wet meadows, marshes, swamps and bogs. BVWs are areas where the soil is saturated and/or inundated such that they support a predominance of wetland indicator plants. The ground and surface water regime and the plant community that occur in each type of freshwater wetland are specified in the Act. The boundary of BVW is the line within which 50 percent or more of the plant community consists of wetland indicator plants and saturated and inundated conditions exist. BVW is presumed significant to flood control, storm damage prevention, pollution attenuation, wildlife habitat, fisheries habitat, protection of public and private water supply, and protection of groundwater supply.

Pursuant to the Act and Bylaw, there is a 100-foot Buffer Zone, 50 foot Undisturbed Zone, and 50 to 100 Foot Buffer associated with BVW. One boring is proposed in BVW, four borings are proposed within the 100-foot Buffer Zone to BVW, and two borings are proposed in the 50 foot Norfolk Bylaw Undisturbed Zone.

2.1 Wetland Resource Areas

Thirteen vegetated wetland areas were field delineated in Norfolk. Table 2-1, Wetland Resource Areas, below includes a description of each wetland series. See Attachment C, Site Photographs, for photos depicting each wetland resource area described in Table 2-1.

Table 2-1 Summary of Wetland Resource Areas in the Project Area

Wetland Series ID	BVW	IVW	Inland Bank	200-ft RFA	Description
W17 (W17-1 to W17-8)	X				BVW bordering on the eastern bank of the Charles River.
W16 (W16-1 to W16-24)	X				
W15 (W15-1 to W15-13; W15-14 to W15-33)	X				
S8 (S8-1 to S8-18)			X		Series S8 delineates an intermittent stream through wetland series W14A, W14B, and W14 underneath an existing access road.
W14 (W14-1 to W14-25); W14B (W14B-1 to W14B-21); W14A (W14A-1 to W14A-16)	X				BVW bordering on an intermittent stream delineated as Series S8.
W13 (W13-1 to W13-19)	X				BVW bordering on an intermittent stream delineated as Series S7.
S7 (S7-1 to S7-9)			X		Series S7 delineates an intermittent stream through wetland series W13 flowing perpendicular through the existing ROW.
W12 (W12-1 to W12-54)	X				BVW bordering on an intermittent stream delineated as Series S6.
S6 (S6-1 to S6-10)			X		Series S6 delineates an intermittent stream through wetland series W12 flowing perpendicular through the existing ROW.

Wetland Series ID	BVW	IVW	Inland Bank	200-ft RFA	Description
W11 (W11-1 to W11-10)		X			IVW located on the ROW boundary.
W10 (W10-1 to W10-94)	X				BVW bordering a perennial mapped stream delineated as Series S5.
S5 (S5-1 to S5-18)			X	X	Series S5 delineates the centerline of a perennial mapped stream flowing through wetland series W10.
S4 (S4-1 to S4-5)			X		Series S4 delineates an intermittent stream flowing through wetland Series W10.
W9 (W9-1 to W9-27)	X				
W8 (W8-1 to W8-25)	X				
W7 (W7-1 to W7-16)	X				BVW bordering on an intermittent stream delineated as Series S3.
S3 (S3-1 to S3-7)			X		Series S3 delineates an intermittent stream flowing through wetland series S7.
W6 (W6-1 to W6-13)		X			
W5 (W5-1 to W5-10; W5-11 to W5-29)	X				BVW bordering on Stop River (flags W5-1 to W5-10 border the eastern bank, flags W5-11 to W5-29 border the western bank).
S2 (S2-1 to S2-7; S2-8 to S2-13)			X	X	Series S2 delineates the eastern and western banks of Stop River, a perennial-mapped stream. Flags S2-1 to S2-7 delineate the eastern bank and flags S2-8 to S2-13 delineate the western bank. Wetland Series W5 borders on the river.

2.2 *NHESP Habitat*

A portion of the proposed project is located in NHESP mapped Priority Habitat of Rare Species and NHESP mapped Estimated Habitat of Rare Wildlife (see Attachment B, Figure 3 – Project Plans). The mapped habitat is mapped from Dean Street east to approximately 1,000 feet west of Seekonk Street near proposed boring 16.

Three Potential Vernal Pools are located at least 100 feet from the right-of-way boundary and two Certified Vernal Pools are located approximately 50 and 100 feet from the right-of-way boundary. All proposed work is temporary in nature and will not have an adverse impact on wildlife.

3.0 Proposed Activities

This geotechnical investigation requires advancement of soil borings at future structure locations within the existing Eversource ROW to gather needed geotechnical data to design the structure foundations. The borings will be advanced within the existing ROW at each proposed pole location (see Attachment B, Figure 3 – Project Plans).

To complete each boring, a drill rig will be brought in along existing ROW access roads and through wetlands using construction matting (see below) to access each boring location. Advancement of each borehole will take between several hours and 1 day depending on depth and subsurface conditions, and the drill rig and any support equipment would be removed from wetlands and stored overnight in a suitable upland location at the end of each day. A hollow-stem auger rig using a split-spoon to collect soil samples is the method proposed to be employed, and this creates a borehole/soil disturbance of approximately 6" in diameter. Once the borehole has been logged and the drill string removed, the drill rig will be removed from the site, the ground surface raked smooth. The drilling sites will be monitored until stabilized/revegetated, and if needed, seeded with an appropriate native grass mix (wetland or upland depending upon location).

The soil boring locations depicted on Sheets 1 through 18 are approximate, and the final number of borings and their locations will be determined in the field by the geotechnical engineer. However, no more than 7 borings will be conducted in BVW as identified in this application.

4.0 Proposed Mitigation Measures and Regulatory Compliance Summary

4.1 *Mitigation Measures*

To ensure wetland resource areas are protected during this work, the following best management practices are proposed:

1. Construction mats will be placed to access and advance borings in wetlands where existing access roads do not currently exist. Installation, movement and work on

construction mats will follow the best management practices (“BMPs”) developed by the U.S. Army Corps of Engineers (“USACE”). Shrubs / saplings along the paths used to access boring locations will be cut off at grade as needed, but roots will not be removed. Construction mats will be installed and in place the shortest period of time needed to conduct this geotechnical program.

2. Along existing access roads within the ROW, minor improvements will be made as needed to make them suitable for access by a drill rig to be used to complete the geotechnical borings.
3. The Applicant or Epsilon will notify the Norfolk Conservation Commission prior to the start of geotechnical investigations.
4. A geotechnical engineer will be present during this field work observe the subsurface conditions and direct the location of borings for subsurface observations.
5. Borings will be advanced and completed on the same day, i.e. no borings will remain open overnight.
6. Soil cuttings from each bore hole in wetlands will be stockpiled on the construction mats. Soil cutting will be replaced in the borehole after boring is completed and the auger/drill string is removed.
7. The Contractor will be required to install a section of sediment controls (straw wattle, silt fence, or several hay bales) downgradient from borings within the 100 foot buffer zone during investigations to avoid transport of sediment to the wetland.
8. The Contractor will be required to maintain spill response materials (e.g. “speedy dry”, shovels, oil absorbent pads, etc.) to contain an accidental release of hydraulic fluid, oil or fuel.
9. Refueling of equipment will occur on existing paved surfaces or outside of the 100 foot buffer zone.
10. After bore holes are closed, the surface will be compacted by hand tools and raked smooth.

After construction mats are removed, the area occupied by the construction mats will be scarified to de-compact the soils. The area will be monitored and seeded, should areas not re-vegetate from the soil seedbank.

4.2 Wetland Resource Area Impacts

A total of approximately 15,875 square feet of construction mats need to be placed in BVW to access seven (7) borings at structure numbers 24, 22, 19, 18, 17, 16, and 15. Eversource

will seek to use the narrowest mats possible. If small track mounted equipment is available the mats can be 12 feet wide; if truck mounted equipment is needed, mats up to 16 feet wide will be required.

Mats will be installed just prior to access to a particular location and then removed as soon as reasonably possible after the boring is completed. Mats will be used to support access to approximately seven borings, and will not be in place for more than 60 days and likely significantly less. Consistent with the USACE Massachusetts General Permits ("GP") mats will not be installed for more than one growing season and will not be in place for more than one calendar year.

The proposed wetland resource area impacts are temporary in nature, and reflect the total square feet of proposed mats in the resource areas that equipment would use to access the geotechnical boring locations.

4.3 *Compliance with Regulatory Performance Standards and the Norfolk Wetlands Protection Bylaw*

Given the minimal impacts and temporary nature of the proposed geotechnical investigation in the ROW along with the mitigation measures described above, this work is considered to comply with standards established in the Regulations and the Norfolk Wetlands Bylaw. A review of both is presented below.

4.4 *Massachusetts Wetlands Protection Regulations*

4.4.1 *Bordering Vegetated Wetland*

No loss of BVW is proposed and thus no wetland replication is required. In-situ restoration will occur via soil de-compaction and re-vegetation from stump sprouts and the soil seedbank. Post investigation monitoring is proposed and any area not naturally re-vegetating will be seeded with a wetland seed mix to stabilize exposed soils.

Following is a review of the BVW performance standards found in 310 CMR 10.55.4 a – e.

(a) Where the presumption set forth in 310 CMR 10.55(3) is not overcome, any proposed work in a Bordering Vegetated Wetland shall not destroy or otherwise impair any portion of said area.

The proposed project includes only temporary impacts, and will not result in the loss of BVW.

(b) Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of up to 5000 square feet of Bordering Vegetated Wetland when said area is replaced in accordance with the following general conditions and any additional, specific conditions the issuing authority

deems necessary to ensure that the replacement area will function in a manner similar to the area that will be lost:

Placement of construction mats and advancing soil borings will not result in the loss of BVW, therefore no replacement wetland is required or proposed. As such sub-sections (b)1-7 are not addressed herein.

(c) Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of a portion of Bordering Vegetated Wetland when;

- 1. said portion has a surface area less than 500 square feet;*
- 2. said portion extends in a distinct linear configuration ("finger-like") into adjacent uplands; and*
- 3. in the judgment of the issuing authority it is not reasonable to scale down, redesign or otherwise change the proposed work so that it could be completed without loss of said wetland.*

Not applicable; no loss of BVW is proposed or anticipated.

(d) Notwithstanding the provisions of 310 CMR 10.55(4)(a),(b) and (c), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.

The proposed project is temporary in nature and not anticipated to have an adverse effect on specific habitat sites of rare vertebrate or invertebrate species. Please refer to Attachment B, Figure 3 – Project Plans, for locations of mapped estimated habitat in relation to the proposed project.

(e) Any proposed work shall not destroy or otherwise impair any portion of a Bordering Vegetated Wetland that is within an Area of Critical Environmental Concern designated by the Secretary of Energy and Environmental Affairs under M.G.L. c. 21A, § 2(7) and 301 CMR 12.00: Areas of Critical Environmental Concern. 310 CMR 10.55(4)(e).....:

Not applicable; the project site is not located in an ACEC.

4.5 Norfolk Wetlands Protection Bylaw and Regulations

The Norfolk Bylaw protects any freshwater wetland, any land within 100 feet of a freshwater wetland, land under waterbodies, land within 100 feet of waterbodies, land subject to flooding, 100 feet within land subject to flooding, and Riverfront Area. The proposed project requires travel through and proposed borings in these resource areas. The

Norfolk Bylaw also includes buffer zone performance standards for both the 50-foot Undisturbed Buffer and the 50 to 100 foot Buffer, discussed below.

4.5.1 Riverfront Area

As described in Section 1.0, proposed borings located within Buffer Zone or Riverfront Area only would not require the filing of an NOI under the MWPA and Regulations. However, the Norfolk Wetland Bylaw at Section 2.C. states, "Other than stated in this section, the exceptions provided in the Wetlands Protection Act shall not apply under this bylaw" and the Norfolk Wetland Regulations do not contain any minor activity related exemptions. As such, all the proposed borings within locally jurisdictional wetland resource areas would require the issuance of an Order of Conditions from the Norfolk Conservation Commission to commence; therefore, performance standards for RFA are described herein.

Accessing the one boring location (boring 29) will require approximately 440 linear feet of travel within Riverfront Area associated with the Charles River along existing access roads. Under the WPA, the proposed Project is exempt from review. The performance standards associated with Riverfront Area are listed in the Massachusetts Wetlands Protection Act Regulations at 310 CMR 10.58 (4)(a) through (d) as presented below since the proposed Project is not exempt under the Bylaw.

310 CMR 10.58(4)(a) - Protection of Other Resource Areas. The work shall meet the performance standards for all resource areas within the riverfront area, as defined in 310 CMR 10.30 (coastal bank), 10.32 (salt marsh), 10.55 (Bordering Vegetated Wetland), and 10.57 (Land Subject to Flooding). When work in the riverfront area is also within the buffer zone to another resource area, the performance standards for the riverfront area, shall contribute to the protection of the interests of MGL c. 131, §40 in lieu of any additional requirements that might otherwise be imposed in the buffer zone within the riverfront area.

The proposed work meets the performance standards for BVW as described herein. No work is proposed in BLSF.

310 CMR 10.58(4)(b) - Protection of Rare Species. No project may be permitted within riverfront area which will have any adverse effect on specified habitat sites of rare wetland or upland vertebrate or invertebrate species, as identified by the procedures established under 310 CMR 10.59 or 10.37 or which will have any adverse effect on vernal pool habitat certified prior to the filing of the Notice of Intent.

No portion of work in Riverfront Area overlaps in Estimated Habitat for rare wetland or upland vertebrate or invertebrate species, and no work is proposed in vernal pool habitat, certified or otherwise within or outside of the RFA (see Attachment B, Figure 3 – Project Plans).

310 CMR 10.58(4)(c) - Practicable and Substantially Equivalent Economic Alternatives. There must be no practicable and substantially equivalent economic alternative to the proposed project with less adverse effects on the interests identified in M.G.L. c. 131 §40.

This work is limited to conducting subsurface geotechnical explorations to obtain data needed to design structure foundations. There is no equivalent alternative to obtaining site specific geotechnical data.

310 CMR 10.58(4)(d) - No Significant Adverse Impact. The work including proposed mitigation measures must have no significant adverse impact on the riverfront area to protect the interests in M.G.L. c. 131 §40. Within 200 foot Riverfront Areas, the issuing authority may allow the alteration of up to 5,000 s.f. or 10% of the Riverfront Area within the lot, whichever is greater (in part);

Work in RFA is limited to travel across swamp mats through approximately 440 linear feet of RFA. The total area of work in RFA associated with the Charles River is 7,115 square feet; in and proximate to the ROW is approximately 458,096 square feet. Therefore this temporary work in RFA represents less than 2% of the RFA in and proximate to the ROW. The portion of travel through RFA is also through BVW, and is included in the total temporary impacts for BVW.

4.5.2 50-foot Undisturbed Buffer

The Proposed Project will involve travel through on existing access roads as well as two borings in the 50-foot Undisturbed Buffer. The performance standards are described below:

(1) Presumption of 50 Foot Undisturbed Buffer

- a. **The Conservation Commission presumes that an undisturbed forest or naturally vegetated buffer at least 50 feet wide between the edge of the Resource Area specified in Section 2(1)(a), (c) and (t) and the area the applicant proposes to disturb during a project is necessary to protect the interests of the Bylaw, the Act, and the DEP Wetlands Regulations.**

The proposed project includes only temporary impacts, and will not result in the loss of BVW or adverse impacts to the buffer zone.

- b. **An applicant proposing to disturb any area within such 50-foot buffer shall have the burden of showing that the work proposed in the application will not harm the interests protected by the Bylaw, the Act and the DEP Wetlands Regulations. Failure to provide adequate evidence satisfactory to the Conservation Commission supporting a determination that the proposed work within such 50-foot buffer will not harm the interests protected by the Bylaw, the Act and the DEP wetlands Regulations shall be sufficient cause for the Conservation**

Commission to deny a permit or grant a permit with conditions, including without limitation, such buffer as the Conservation Commission deems appropriate, or, in the Conservation Commission's discretion, to continue the hearing to another date to enable the applicant or others to present additional evidence.

The proposed project includes only temporary impacts, and will not result in the loss of BVW or adverse impacts to the buffer zone.

- c. **Mitigation that will improve or enhance the same resource area that was impacted/disturbed must be presented to the Commission.**

The proposed project includes only temporary impacts, and will not result in the loss of BVW or adverse impacts to the buffer zone; therefore, no mitigation is proposed at this time.

4.5.3 50 to 100 Foot Buffer

The Proposed Project will involve travel through on existing access roads as well as borings in the 50 to 100-foot Buffer. The performance standards are described below:

(2) 50 Foot to 100 Foot Buffer

- a. **Nothing in this regulation shall prevent the Conservation Commission from prohibiting activity anywhere within the 100 foot Buffer Zone defined by the Bylaw, these regulations, the Act and the DEP Wetlands Regulations, including, without limitation, the area between the edge of the 50 foot buffer presumed necessary by this regulation and the end of the 100 foot Buffer Zone.**

The proposed project includes only temporary impacts, and will not result in the loss of BVW or adverse impacts to the buffer zone.

- b. **Projects proposed within the 50-100 foot buffer will be reviewed using the following performance criteria:**

(1) For new lots formed and/or new subdivision roads approved after the effective date of these regulations, it is presumed that alteration to the 50-100 foot buffer can be avoided. If a project proposes alteration within this buffer, applicants must present a vigorous alternatives analysis showing that the proposed project avoids alteration to the fullest extent and has minimized impacts. Mitigation for all buffer zone alteration is required.

(2) For projects on undeveloped lots in existence prior to the effective date of these regulations, the applicant must present evidence that a reasonable

effort has been made to avoid and minimize impacts to the 50-100 Foot buffer.

- (3) For projects on lots with existing structures, the applicant must minimize work within the buffer and present evidence that a smaller buffer zone will secure the protection of the interests of the Bylaw, the Act, and the DEP wetlands regulations.

The proposed project includes only temporary impacts, and will not result in the loss of BVW or adverse impacts to the buffer zone.

- c. **Mitigation that will improve or enhance the same wetland resource area that was impacted/disturbed must be presented to the Commission.**

The proposed project includes only temporary impacts, and will not result in the loss of BVW or adverse impacts to the buffer zone; therefore, no mitigation is proposed at this time.

4.5.3 Wildlife Habitat and Rare Species

The Norfolk Wetland Protection Bylaw and Regulations states that all wildlife habitat functions are presumed to exist in all resource areas protected. The 0-100 foot buffer resource is significant for the biological interaction of the wildlife and wildlife habitat. All proposed work is temporary in nature, will be completed outside of the active season for the protected species known to occur on the ROW, and will not have an adverse impact on wildlife or movement within resource areas.

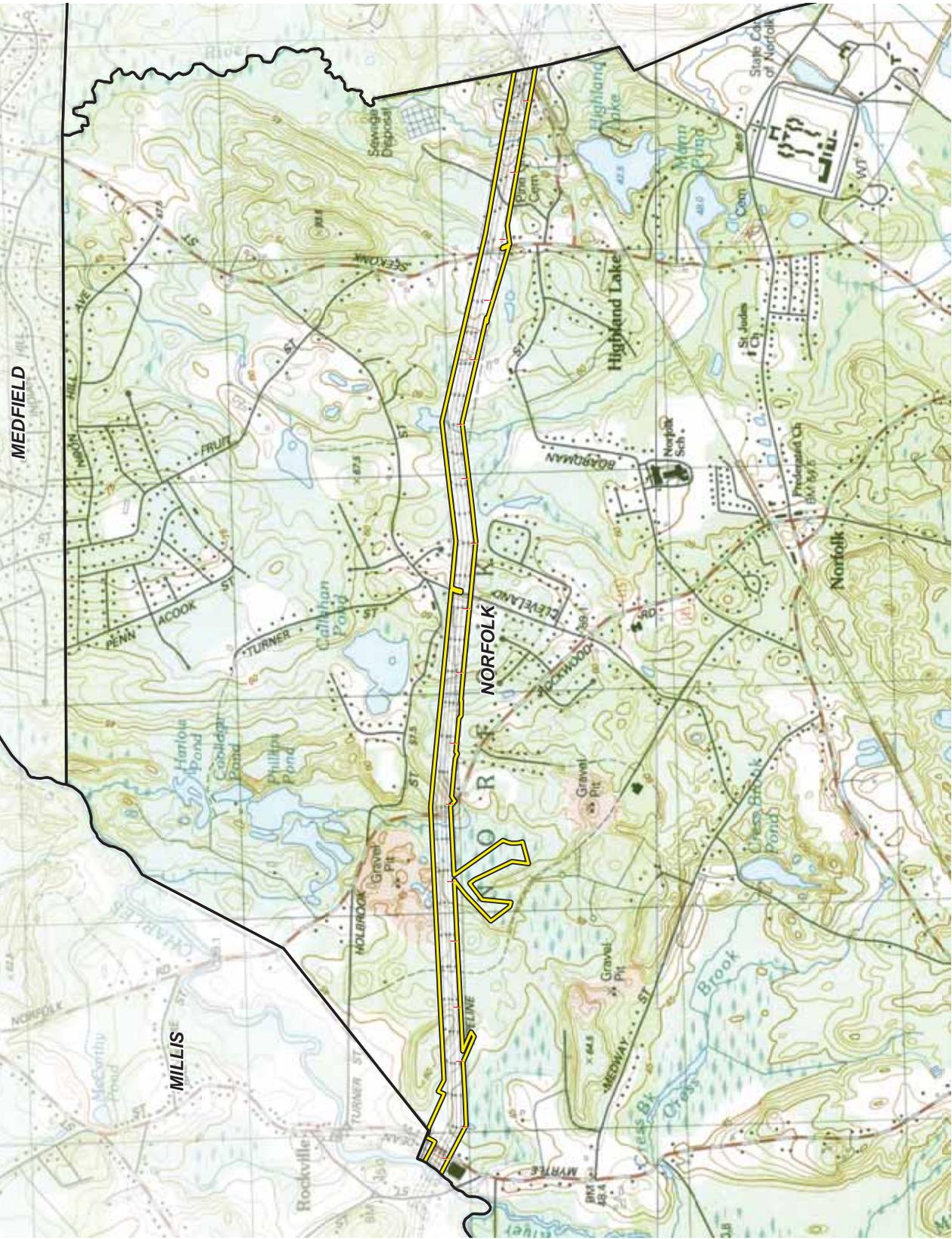
5.0 Conclusion

The proposed geotechnical investigation is needed gather necessary subsurface data for the planning and design of the future Medway-Walpole Reliability Project and has been designed in accordance with applicable state performance standards for the identified wetland resource areas and stormwater management. The information contained in this NOI and the accompanying plans sufficiently describes the site, proposed work and the effect of said work on the interests of the identified in the Act and Bylaw. This work is temporary and will be conducted in a manner to limit resource area alteration. The applicant therefore respectfully requests that the Norfolk Conservation Commission issue an Order of Conditions approving the proposed geotechnical borings with appropriate conditions to protect those interests identified in M.G.L. c. 131 §40 and it's implementing bylaw regulations.

Attachment B

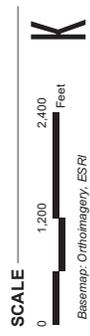
Figures

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Data Source: Office of Geographic Information (InfoGIS), Commonwealth of Massachusetts, Information Technology Division



Eversource Line 325-344 DCT Project

EVERSOURCE



- LEGEND**
- Proposed Pole Location
 - Existing Right-of-Way (ROW)
 - Town Boundary

Figure 1
USGS Locus Map
Revised 9/26/2018

**Eversource Line
325-344 DCT Project**

EVERSOURCE

LOCUS



SCALE



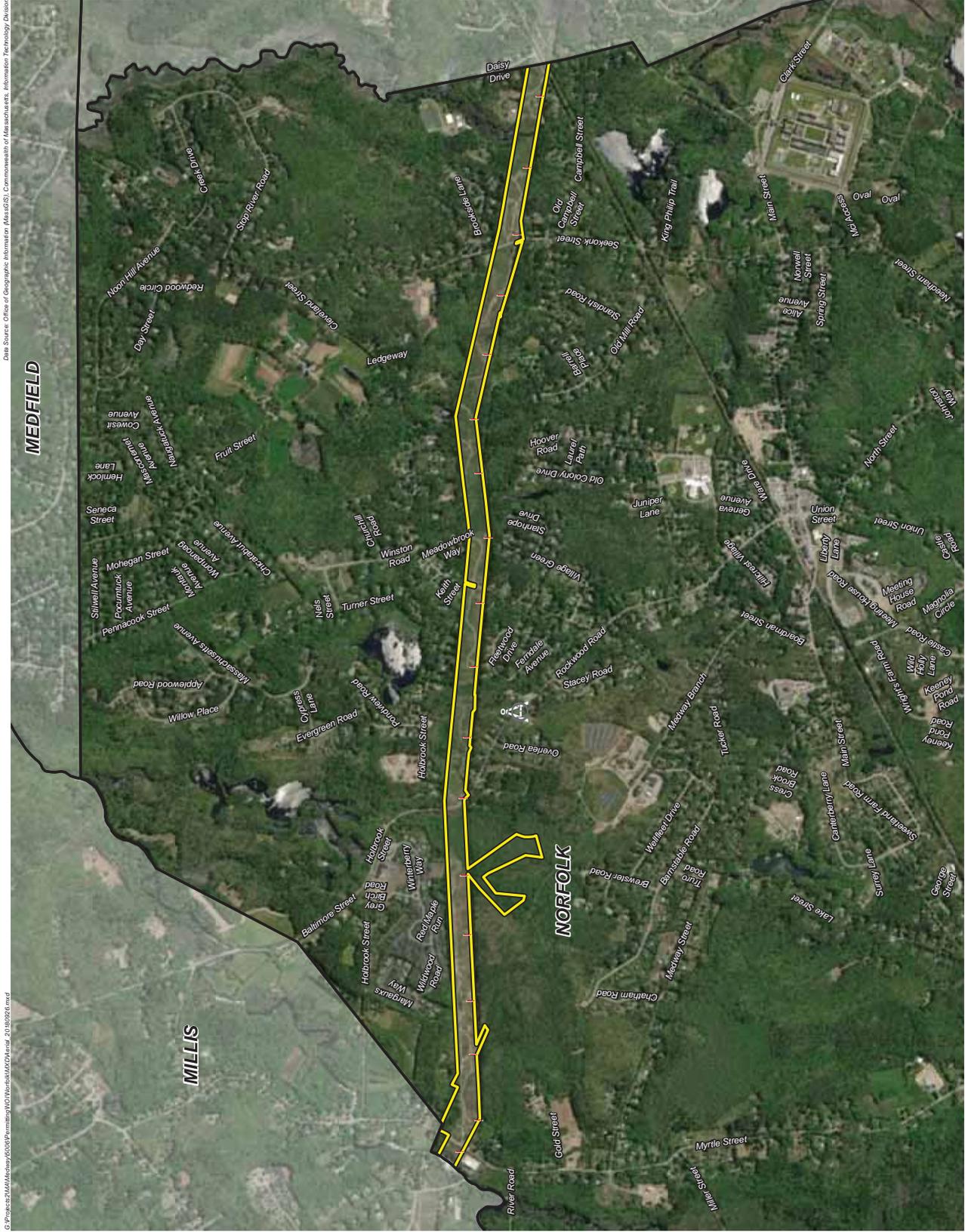
Basemap: Orthomogery, ESRI

LEGEND

- Proposed Pole Location
- Existing Right-of-Way (ROW)
- Town Boundary

**Figure 2
Aerial Locus Map**

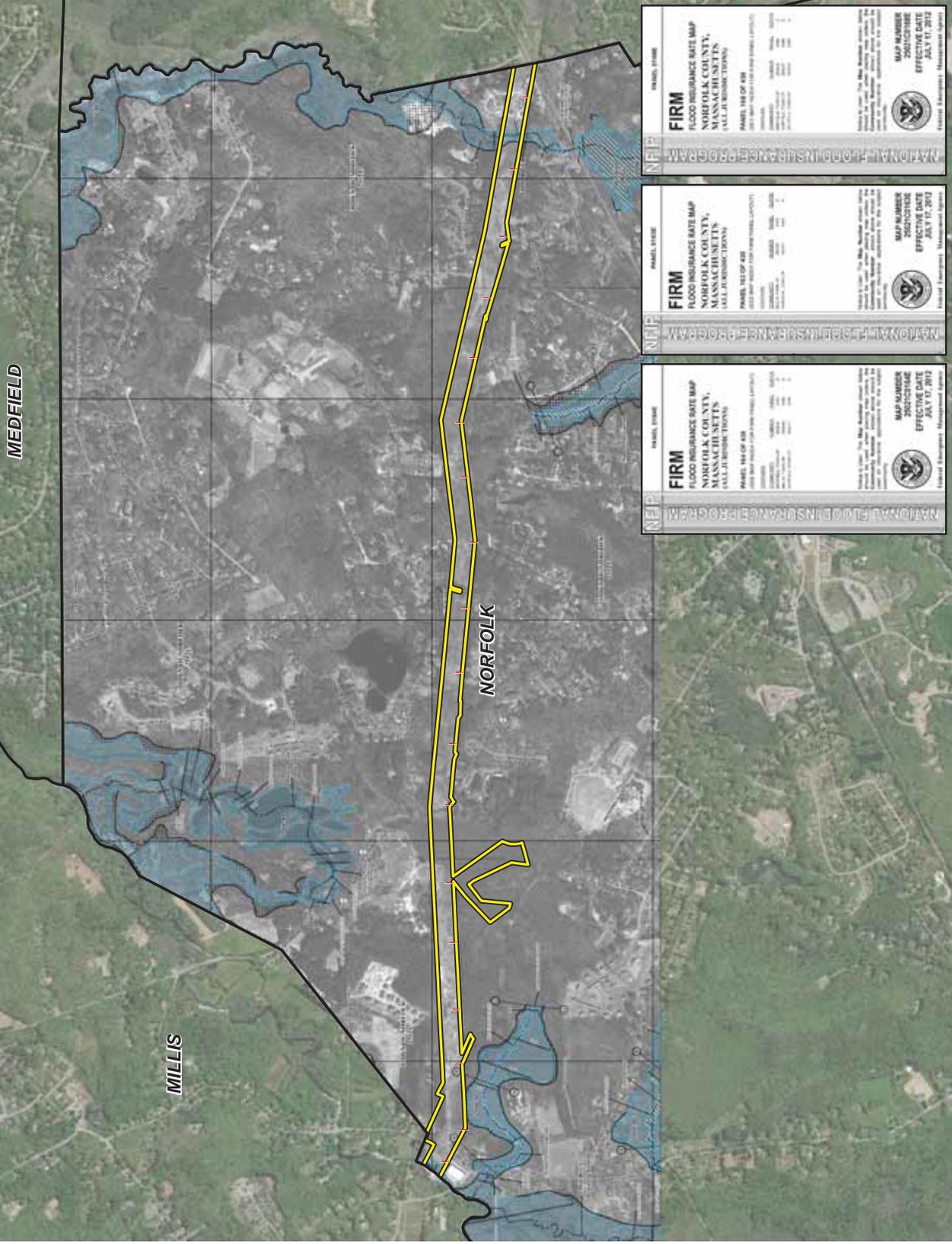
Revised 9/26/2018



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Map Source: Office of Geographic Information (InfoGIS), Commonwealth of Massachusetts, Information Technology Division

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Eversource Line 325-344 DCT Project



LOCUS



SCALE



LEGEND

- Proposed Pole Location
- Existing Right-of-Way (ROW)
- Town Boundary

LEGEND

PROPOSED RIGHT-OF-WAY (ROW)

PROPOSED POLE LOCATION

TOWN BOUNDARY

EXISTING RIGHT-OF-WAY (ROW)

EXISTING UTILITY LINES

EXISTING ROADWAYS

EXISTING WATER BODIES

EXISTING FLOOD ZONES

EXISTING POWER LINES

EXISTING TELEPHONE LINES

EXISTING CABLE TELEVISION LINES

EXISTING GAS LINES

EXISTING SEWER LINES

EXISTING WATER MAINS

EXISTING STORM SEWERS

EXISTING DRAINAGE CANALS

EXISTING DRAINAGE DITCHES

EXISTING DRAINAGE SWALES

EXISTING DRAINAGE STRUCTURES

EXISTING DRAINAGE BASINS

EXISTING DRAINAGE PUMPS

EXISTING DRAINAGE TREATMENT PLANTS

EXISTING DRAINAGE COLLECTION SYSTEMS

EXISTING DRAINAGE INFRASTRUCTURE

EXISTING DRAINAGE FACILITIES

EXISTING DRAINAGE EQUIPMENT

EXISTING DRAINAGE MATERIALS

EXISTING DRAINAGE SUPPLIES

EXISTING DRAINAGE SERVICES

EXISTING DRAINAGE CONTRACTORS

EXISTING DRAINAGE ENGINEERS

EXISTING DRAINAGE ARCHITECTS

EXISTING DRAINAGE PLANNERS

EXISTING DRAINAGE DESIGNERS

EXISTING DRAINAGE CONSULTANTS

EXISTING DRAINAGE SPECIALISTS

EXISTING DRAINAGE EXPERTS

EXISTING DRAINAGE PROFESSIONALS

EXISTING DRAINAGE ACADEMICS

EXISTING DRAINAGE RESEARCHERS

EXISTING DRAINAGE STUDENTS

EXISTING DRAINAGE TEACHERS

EXISTING DRAINAGE PARENTS

EXISTING DRAINAGE COMMUNITY

EXISTING DRAINAGE INDUSTRY

EXISTING DRAINAGE GOVERNMENT

EXISTING DRAINAGE REGULATORS

EXISTING DRAINAGE ENFORCEMENT

EXISTING DRAINAGE COMPLIANCE

EXISTING DRAINAGE MONITORING

EXISTING DRAINAGE EVALUATION

EXISTING DRAINAGE IMPROVEMENT

EXISTING DRAINAGE MAINTENANCE

EXISTING DRAINAGE REPAIR

EXISTING DRAINAGE REPLACEMENT

EXISTING DRAINAGE CONSTRUCTION

EXISTING DRAINAGE OPERATION

EXISTING DRAINAGE MANAGEMENT

EXISTING DRAINAGE PLANNING

EXISTING DRAINAGE DESIGN

EXISTING DRAINAGE CONSTRUCTION

EXISTING DRAINAGE OPERATION

EXISTING DRAINAGE MANAGEMENT

EXISTING DRAINAGE PLANNING

EXISTING DRAINAGE DESIGN

EXISTING DRAINAGE CONSTRUCTION

EXISTING DRAINAGE OPERATION

EXISTING DRAINAGE MANAGEMENT

**Figure 4
FEMA Firm Map**
Revised 9/26/2016

Attachment C

Site Photographs



Photo 1: View of Wetland Series W5 facing east.



Photo 2: View of Wetland Series W13 facing east.



Photo 3: View of Wetland Series W14 facing east.



Photo 4: View of stream series S8 facing south.



Photo 5: View of wetland series W5 facing west.



Photo 6: View of wetland series W10 facing west.

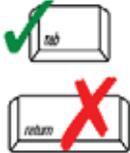
Attachment D

Filing Fee Information



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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



A. Applicant Information

1. Location of Project:

<u>Existing right-of-way</u>	<u>Norfolk</u>
a. Street Address	b. City/Town
<u>37594</u>	<u>\$915.00</u>
c. Check number	d. Fee amount

2. Applicant Mailing Address:

<u>Michael</u>	<u>Zylich</u>	
a. First Name	b. Last Name	
<u>NSTAR Electric d/b/a Eversource Energy</u>		
c. Organization		
<u>247 Station Drive, SE 270</u>		
d. Mailing Address		
<u>Westwood</u>	<u>MA</u>	<u>02090</u>
e. City/Town	f. State	g. Zip Code
<u>781-441-3804</u>	<u>michael.zylich@eversource.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

<u></u>	<u></u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Mailing Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email Address

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
1f - monitoring well activities	1	\$110.00	\$110.00
2j - geotechnical borings	1	\$500.00	\$500.00
RFA 50% fee	1	\$305.00	\$305.00
Norfolk Bylaw Fee		\$1,050.00	\$1,050.00

Step 5/Total Project Fee: _____

Step 6/Fee Payments:

Total Project Fee:	<u>\$915.00</u>
	a. Total Fee from Step 5
State share of filing Fee:	<u>\$445.00</u>
	b. 1/2 Total Fee less \$12.50
City/Town share of filing Fee:	<u>\$470.00 + \$1,050.00</u>
	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

(7) **Bylaw (Municipal) Filing Fees**

- a.) The review of applications as well as monitoring of an active site requires the expenditure of significant municipal resources. Therefore, additional fees are required for filing under the by-law in addition to those required for filing under the Wetlands Protection Act, M.G.L. c.131, S40.
- b.) The fees for filing under the Bylaw shall be payable to the Town of Norfolk and are as follows:

A. REQUEST FOR DETERMINATION OF APPLICABILITY (WPA Form 1)

- a.) Minor projects associated with SFH (i.e., decks, pools, sheds, additions, septic repair).....\$ **100.00**
- b.) All other residential subdivision/commercial/retail projects).....\$ **200.00**

B. NOTICE OF INTENT (WPA Form 3) * or ABBREVIATED NOTICE OF INTENT (WPA Form 4)*

Category Activities and Fees

Category 1 - Fee for each activity is \$ 200.00

- a.) work on single family lot; addition, pool, etc.;
- b.) site work without a house (removal of vegetation, excavation, grading)
- c.) control vegetation (aquatic vegetation removal, herbicides, thinning of vegetation in resource areas)
- d.) resource improvement (clearing of brush, tree cutting)
- e.) work on septic system separate from house (or any part thereof)
- f.) monitoring well activities minus roadway (perk testing, disturbance/destruction of vegetation/soils)**
- g.) new agricultural or aquaculture projects (includes forestry on land in forestry use)

Category 2 - Fee for each activity is.....\$500.00

- a.) construction of single family house (includes site preparation, utilities, septic systems, grading, etc.)
- b.) parking lot (construction of and repair of water related structures and uses)
- c.) beach nourishment;
- d.) electric generating facility activities;
- e.) inland limited projects minus road crossings and agriculture
- f.) each crossing for driveway to single family house;
- g.) each project source (storm drain) discharge (includes upgrades/redevelopments)
- h.) control vegetation in development;
- i.) water level variations;
- j.) any other activity not in Category 1, 3, 4, 5 or 6;**
- k.) water supply exploration.

Category 3 - Fee for each activity is\$1,200.00

- a.) site preparation (for development) beyond Notice of Intent scope;
- b.) each building (for development) including site;
- c.) road construction not crossing or driveway;
- d.) hazardous cleanup;
- e.) water supply development.

Category 4 - Fee for each activity is\$2,000.00

- a.) each crossing for development or commercial road;
- b.) dam, sluiceway, tidegate (safety) work;
- c.) landfills operation/closures;
- d.) sand and gravel operations;

- e.) railroad line construction;
- f.) bridge;
- g.) hazardous waste alterations to resource areas;
- h.) dredging;
- i.) package treatment plant and discharge;
- j.) airport tree clearing;
- k.) oil and/or hazardous material release response actions.

Category 5 - (Fee is **\$4 per linear foot**; total fee not less than \$100 or more than \$2,000):

- a.) work (construction, reconstruction, repair, replace) on docks, piers, revetments, dikes, etc. (coastal or inland).

Category 6 - (Fee is **\$2 per linear foot for each resource area**): For each **Resource Area Delineation**, the fee shall not exceed \$200 for activities associated with a single family house or \$2,000 for all other activities.

*** RIVERFRONT PROJECTS - (ADD 1/2 of TOTAL FEES IF WORK IS APPLICABLE UNDER CATEGORIES 1-4.)**

C. AMENDED ORDER OF CONDITIONS	\$100.00
D. RE-OPEN PUBLIC HEARING	\$100.00
E. CERTIFICATE OF COMPLIANCE (WPA Form SB)	
a.) Partial	\$ 50.00
b.) Full	\$ 50.00
F. RELEASE FROM EXPIRED ORDER OF CONDITIONS	\$100.00
G. EXTENSION PERMIT FOR ORDER OF CONDITIONS (WPA Form 7)	
1. Residential	\$ 50.00
2. Non-Residential	\$50.00
H. REQUEST FOR AMENDMENT OF ORDER OF CONDITIONS FOLLOWING A DENIAL*	
(1) Single family house or minor projects.....	\$100.00
(2) Wetland crossing for a single family house.....	\$100.00
(3) Residential Subdivision - 2 lots to a maximum of 10.....	(\$150.00 per lot plus \$250.00 Administrative Fee to a maximum of \$1,750)
(4) Residential Subdivision - 11 lots to a maximum of 25 lots.....	(\$200 for each house lot plus \$300 Administrative Fee to a maximum of \$6,600)
(5) Residential Subdivision - 26 lots and over.....	(\$300 each house lot plus \$350 Administrative Fee to a maximum of \$9,350)
(6) Commercial, retail industrial projects including parking lots, new drainage designs, modifications to existing inadequate drainage designs	\$900.00 (\$500 plus \$400 Administrative Fee)
(7) Each roadway or driveway wetland crossing associated with commercial, industrial, institutional or Residential	(\$1000.00 for each crossing plus \$500 Administrative Fee)

** Notwithstanding the above, NO application which has been finally and unfavorably acted upon by the Commission shall be acted favorably upon within one year after the date of final unfavorable action unless The Commission finds by a majority vote, specific and material changes in the conditions upon which the previous favorable action was based, and describes such changes in the record of its proceedings. (Article VII, Section 2(Q) - Town Meeting, May 2003*

Additional Information:

- a.) Checks or money orders are made payable to "Town of Norfolk (unless otherwise indicated).
- b.) Filing fee worksheet shall be signed with your application.
- c.) Fee is non-refundable if public hearing notice has been advertised.
- d.) The time period by which the Commission must hold the public hearing/meeting begins only when a completed application including proper filing fees and good standing report is received.
- e.) The fees required under the Norfolk Wetland Protection Bylaw and Regulations are in addition to the fees required by the Commonwealth of Massachusetts under the Massachusetts Wetland Protection Act.
- f.) Municipal projects are exempt from the Bylaw Regulation fees.
- g.) Fees for consultants the Commission may require are in addition to these fees and must be paid for by the applicant. The failure of the applicant to pay such fees may be grounds for denial of the project for lack of information.

Please complete:

Type of Activity:	Number of Activities:	Activity Fee:	Subtotal:
1f	1	\$200	\$200
2j	1	\$500	\$500
		Riverfront Fee: (if applicable)	<u>\$350</u>
		Total	\$1,050.00

I have read and accept responsibility for the fees and filing requirements of the Norfolk Conservation Commission. I give permission to the Norfolk Conservation Commission and its agents or staff to enter upon the property for the purposes of gathering information and data that is necessary for the Commission to review the project and issue its decision, which also includes taking photographs or any other materials that are deemed necessary by the Commission from the date of the application until the date of any final certificate of compliance.

x  _____
Applicant/Owner

x _____ 12/18/18
Date

Wetland Regulations Submittal Requirements and Fee Schedule - revised February 14, 2018

Attachment E

Abutter Notification Information

Affidavit of Service
Under The Massachusetts Wetlands Protection Act

I, **Megan Kearns**, hereby certify under the pains and penalties of perjury that on **December 19, 2018**, Epsilon Associates, Inc. gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, the DEP Guide to Abutter Notification dated April 8, 1994, and the Norfolk Wetlands Protection Bylaw in connection with the following matter:

A **Notice of Intent** application was filed under the Massachusetts Wetland Protection Act and the Norfolk Wetlands Protection Bylaw by Eversource on **December 19, 2018** for property located on an existing utility right-of-way in Norfolk, MA.

The form of notification, and a list of the abutters to whom it was given and their addresses are attached to this Affidavit of Service.



Megan Kearns
Project Scientist

December 19, 2018

DATE

Notification to Abutters

Under The Massachusetts Wetland Protection Act

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following:

- a) The name of the applicant is: **NSTAR Electric d/b/a Eversource Energy**
- b) The applicant has **filed a Notice of Intent ("NOI") application with the Norfolk Conservation Commission, seeking permission to perform a geotechnical boring program supporting future transmission line construction on an existing Eversource right-of-way under the Wetlands Protection Act (MGL c. 131 s. 40) and the Town of Norfolk Wetlands Protection Bylaw and Regulations.**
- c) The address of the lot where the activity is proposed is **an existing Eversource right-of-way located between the Charles River at the Norfolk/Millis town line just west of Dean Street to the Norfolk/Walpole town line at Lincoln Road.**
- d) The work proposed includes **a subsurface geotechnical investigation program to support the final design of a utility project located in the towns of Medway, Bellingham, Franklin, Millis, Norfolk and Walpole, MA.**
- e) Copies of the Notice of Intent may be examined at the **Conservation Commission Office, located at Town Hall, One Liberty Lane, Norfolk MA 02056.**
- f) Or Applicant's representative's phone number: **(978) 461-6260** (Megan Kearns).
- g) The hearing date is scheduled for **January 9, 2019 at 7:00 PM.** Additional information regarding the time and place of the public hearing may be obtained by calling the Norfolk Conservation Commission office at **(508) 541-8455.**
- h) Person sending this notification (applicant, representative or other)

Name: EPSILON ASSOCIATES, INC. (Attn. MEGAN KEARNS)
Address: 3 MILL & MAIN PLACE, SUITE 250
Town: MAYNARD State: MA Zip: 01754
Telephone: (978) 897-7100

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address
=====	=====	=====
RIGHR OF WAY	FROM MILLIS TO WALPOLE MA.	FOR:EVERSOURCE N.O.I.

A B U T T E R S
=====

0009-0031-0001	1 DEAN ST	ONE DEAN REALTY TRUST SHELLY HAMILBURG TRUSTEE 1 DEAN ST NORFOLK, MA 02056
0009-0032-0007	OFF HOLBROOK ST	DIPLACIDO DEVEL CORP&SM LORUSSO & SONS, INC. 200 STONEWALL BLVD SUITE #4 WRENTHAM, MA 02093
0009-0032-0017	25 GOLD ST	TOWN OF NORFOLK WATER DEPARTMENT 33 MEDWAY BRANCH NORFOLK, MA 02056
0009-0032-0019	MEDWAY BRANCH	TOWN OF NORFOLK 1 LIBERTY LN NORFOLK, MA 02056
0009-0032-0035	DEAN ST	NSTAR ELECTRIC CO PROPERTY TAX DEPT. P.O.BOX 270 HARTFORD, CT 06141-0270
0009-0032-0038	117 ROCKWOOD RD	BOURQUE, KAREN E. 117 ROCKWOOD RD NORFOLK, MA 02056
0009-0032-0100	MEDWAY BRANCH	NSTAR ELECTRIC CO PROPERTY TAX DEPT. P.O.BOX 270 HARTFORD, CT 06141-0270
0009-0032-0104	DEAN ST	KNOWLES PAUL & THERESA M 20 DEAN ST NORFOLK, MA 02056
0009-0032-0105	OFF MEDWAY BRANCH	TOWN OF NORFOLK CONSERVATION OFF MEDWAY BRANCH NORFOLK, MA 02056

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address

A B U T T E R S		
=====		
0015-0035-0037	108 ROCKWOOD RD	J DAVID PATEUK J DAVID PATEUK IRR TRUST 108 ROCKWOOD RD NORFOLK, MA 02056
0015-0035-0040	ROCKWOOD RD	NSTAR ELECTRIC CO PROPERTY TAX DEPT. P.O.BOX 270 HARTFORD, CT 06141-0270
0015-0035-0041	21 HOLBROOK ST	LANTAGNE FAMILY INV TRUST KEVIN & JACUELINE LANTAGNE 21 HOLBROOK ST NORFOLK, MA 02056
	Subsequent owner:	CALLAHAN ROBERT 21 HOLBROOK ST NORFOLK, MA 02056
0015-0035-0062	26 FLEETWOOD DR	CLINE MICHAEL M. & JENNIFER L. 26 FLEETWOOD DR NORFOLK, MA 02056
	Subsequent owner:	MICCILE GARRETT A 26 FLEETWOOD DR NORFOLK, MA 02056
0015-0035-0065	20 FLEETWOOD DR	KENTY MARY T 20 FLEETWOOD DR NORFOLK, MA 02056
0015-0035-0066	18 FLEETWOOD DR	JOYAL DANIEL J & LAURA A VINCENT 18 FLEETWOOD DR NORFOLK, MA 02056
0015-0035-0071	ROCKWOOD RD	CONNOLLY KEVIN M P.O.BOX 45 NORFOLK, MA 02056
0015-0035-0072	ROCKWOOD RD	KENYON KIRK B. & KATHERINE B. P O BOX 421 NORFOLK, MA 02056

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address
----- A B U T T E R S -----		
0016-0035-0042	19 HOLBROOK ST	WALLACE KEVIN R & JILLIAN N GUZIN 19 HOLBROOK ST NORFOLK, MA 02056
	Subsequent owner:	DINNEEN RYAN 19 HOLBROOK ST NORFOLK, MA 02056
0016-0035-0043	17 HOLBROOK ST	SHAW CHRISTINE A 17 HOLBROOK ST NORFOLK, MA 02056
	Subsequent owner:	POWELL ADAM SCOTT & KAITLIN MA 17 HOLBROOK ST NORFOLK, MA 02056
0016-0035-0044	15 HOLBROOK ST	KATHERINE URQUHART FAMILY TR DONALD URQUHART TRUSTEE 2080 MAIN ST WALPOLE, MA 02081
0016-0035-0045	11 HOLBROOK ST	DUCHARME GEORGE G MARJORIE A T.B.E. 11 HOLBROOK ST DNP NORFOLK, MA 02056
	Subsequent owner:	DUCHARME LIVING TRUST GEORGE G & MARJORIE A 11 HOLBROOK ST NORFOLK, MA 02056
0016-0035-0046	9 HOLBROOK ST	GHIONI, MARILYN A 9 HOLBROOK ST NORFOLK, MA 02056
0016-0035-0047	7 HOLBROOK ST	PREVETT JANET M LE 7 HOLBROOK ST P O BOX 464 NORFOLK, MA 02056
0016-0035-0048	1 HOLBROOK ST	ROSE MARY E & THOMAS J 1 HOLBROOK ST P O BOX 296 NORFOLK, MA 02056

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address
----- A B U T T E R S -----		
0016-0035-0049	HOLBROOK ST	PREVETT JANET M LIFE ESTATE 7 HOLBROOK ST P O BOX 464 NORFOLK, MA 02056
0016-0035-0050	27 HOLBROOK ST	THOMAS MICHAEL & JENNIFER 27 HOLBROOK ST NORFOLK, MA 02056
0016-0035-0051	29 HOLBROOK ST	EVANS STEPHEN C.H. & HELEN L. 29 HOLBROOK ST NORFOLK, MA 02056
0016-0054-0031	CLEVELAND ST	UNKNOWN PERSONS CLEVELAND ST NORFOLK, MA 02056
0016-0054-0097	6 MEADOWBROOK WAY	MCCABE MICHAEL S & EMILY 6 MEADOWBROOK WAY NORFOLK, MA 02056
0016-0054-0099	7 MEADOWBROOK WAY	DAVEY JAMES H & ELIZABETH M 7 MEADOWBROOK WAY NORFOLK, MA 02056
0016-0054-0103	76 CLEVELAND ST	GUERRERO ALEJANDRO & ALICIA 76 CLEVELAND ST NORFOLK, MA 02056
0016-0054-0106	OFF CLEVELAND ST	WEEBER REALTY TRUST ELNA & CHARLES WEEBER TR OFF CLEVELAND ST 108 N VALLEY RD PELHAM, MA 01002
0016-0054-0162	60 CLEVELAND ST	GOULD SUSAN T 60 CLEVELAND ST. NORFOLK, MA 02056-1048
0016-0054-0163	58 CLEVELAND ST	CLYDE JEFFREY M & AMY A 58 CLEVELAND ST NORFOLK, MA 02056

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address
----- A B U T T E R S -----		
0022-0054-0042	103 BOARDMAN ST	RKL FINANCIAL CORP 123 JUSTISON ST WILMINGTON, DE 29801
	Subsequent owner:	BANDLER WILHELMINA 103 BOARDMAN ST NORFOLK, MA 02056
0022-0054-0057	107 SEEKONK ST	TOMPSON SAMANTHA & JEFFREY 107 SEEKONK ST NORFOLK, MA 02056
0022-0054-0059	93 SEEKONK ST	ALICE J GROFF TR 2009 CHARLES E & ALICE J GOFF TR 93 SEEKONK ST NORFOLK, MA 02056
0022-0054-0064	125 BOARDMAN ST	MOROG CHRISTOPHER W. & KATE E 125 BOARDMAN ST NORFOLK, MA 02056
0022-0054-0065	123 BOARDMAN ST	GARRITY ROBERT J & KIMBERLY A 123 BOARDMAN ST NORFOLK, MA 02056
0022-0054-0067	119 BOARDMAN ST	TURNBULL BRUCE & LINDA M 119 BOARDMAN STREET NORFOLK, MA 02056
0022-0054-0068	115 BOARDMAN ST	PERRY ALEXANDER & ANDREA KORNDER 115 BOARDMAN ST NORFOLK, MA 02056
0022-0054-0138	CLEVELAND ST	WEEBER ELNA O & CHARLES III WEEBER REALTY TRUST 108 NORTH VALLEY RD PELHAM, MA 01002
0022-0076-0003	5 LINCOLN RD	SANTONE MARCELLO V.D. 5 LINCOLN RD NORFOLK, MA 02056

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address

A B U T T E R S		

0022-0076-0055	8 BROOKSIDE LN	DESROSIERS RICHARD & KRISTINA 8 BROOKSIDE LN NORFOLK, MA 02056
0022-0076-0056	10 BROOKSIDE LN	WILE JACQUELINE F 10 BROOKSIDE LN NORFOLK, MA 02056
0022-0078-0004	43 CAMPBELL ST	CARDOSO ARTHUR J & SARAH B 43 CAMPBELL ST NORFOLK, MA 02056
0023-0054-0101	113 SEEKONK ST	MACEACHERN A LAWRENCE II & AMY RINES 113 SEEKONK ST NORFOLK, MA 02056
0023-0054-0129	86 CLEVELAND ST	DURANT RICHARD A 98 MEDWAY ST NORFOLK, MA 02056

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address
----- ----- -----		
----- ----- -----		
A B U T T E R S =====		
0010-032-8-123	123 GREY BIRCH RD	FAIN BARBARA P BARBARA P FAIN TRUST 123 GREY BIRCH RD NORFOLK, MA 02056
0010-032-8-124	124 GREY BIRCH RD	WORSLEY PAUL 124 GREY BIRCH RD DNP NORFOLK, MA 02056
	Subsequent owner:	WORSLEY FAMILY TRUST PAUL WORSLEY 124 GREY BIRCH RD NORFOLK, MA 02056
0010-032-8-125	125 WINTERBERRY WAY	MCNULTY MARTIN J & JOANNE 125 WINTERBERRY WAY NORFOLK, MA 02056
0010-032-8-126	126 WINTERBERRY WAY	DOWD DENNIS M & NANCY 126 WINTERBERRY WAY DNP NORFOLK, MA 02056
	Subsequent owner:	DOWD NANCY 126 WINTERBERRY WAY NORFOLK, MA 02056
0010-032-8-129	129 WINTERBERRY WAY	SUKRACHAND PATRICIA L 129 WINTERBERRY WAY NORFOLK, MA 02056
0010-032-8-130	130 WINTERBERRY WAY	LORIZIO MICHAEL G & DEBORAH A 130 WINTERBERRY WAY NORFOLK, MA 02056
0010-032-8-131	131 WINTERBERRY WAY	CHUNG JUDITH 131 WINTERBERRY WAY NORFOLK, MA 02056
0010-032-8-132	132 WINTERBERRY WAY	DOWN JASON & CHRISTINA ROBINSON DOWN JASON & CHRISTINA ROBINSON 132 WINTERBERRY WAY NORFOLK, MA 02056

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address

A B U T T E R S		

0015-0035-0073	16 FLEETWOOD DR	PEARSON RONALD R & CHERYL A 16 FLEETWOOD DR NORFOLK, MA 02056
0015-0054-0095	CLEVELAND ST	WEEBER ELNA O & CHARLES H III WEEBER REALTY TRUST 108 NORTH VALLEY RD PELHAM, MA 01002
0015-0054-0116	33 STANHOPE DR	MULCAHY HENRY L & PATRICIA J 33 STANHOPE DR NORFOLK, MA 02056
0016-0035-0053	33 HOLBROOK ST	BARE WILMA & MOISES DOCANTO 33 HOLBROOK ST NORFOLK, MA 02056
0016-0035-0054	35 HOLBROOK ST	CLOSE ALISON & DANIEL C 35 HOLBROOK ST NORFOLK, MA 02056
0016-0035-55-1	39 HOLBROOK ST	HOWARD RYAN J & REBECCA S 39 HOLBROOK ST NORFOLK, MA 02056
0022-0054-0058	99 SEEKONK ST	NSTAR ELECTRIC CO PROPERTY TAX DEPT P.O.BOX 270 HARTFORD, CT 06141-0270
0022-0054-0066	121 BOARDMAN ST	GERRIE LESLIE M & SANDRA K LESLIE M GERRIE TRUST 121 BOARDMAN ST NORFOLK, MA 02056
0022-0054-0102	105 SEEKONK ST	LOPES PETER F & CAROL A 105 SEEKONK ST NORFOLK, MA 02056
0022-0076-0034	LINCOLN RD	WAZNIS PAUL C P O BOX 143 WRENTHAM, MA 02093

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address

A B U T T E R S		

0010-0032-15-6	11 LOIS LN	ANNE E MARTIN TRUST ANN E & PETER J TRUSTEE 11 LOIS LN NORFOLK, MA 02056
0010-0032-15-7	13 LOIS LN	MACDONALD REALTY TRUST ROBERT A & PATRICIA R TR 13 LOIS LN NORFOLK, MA 02056
0010-0032-15-8	15 LOIS LN	CARLEZON WILLIAM & JOYCE 15 LOIS LN NORFOLK, MA 02056
0010-0032-15-9	17 LOIS LN	POLLARD SONJA 17 LOIS LN NORFOLK, MA 02056
0010-032-15-10	19 LOIS LN	BROWN SUSANA C 19 LOIS LN NORFOLK, MA 02056
0010-032-15-11	21 LOIS LN	KEARINS NANCY E 21 LOIS LN NORFOLK, MA 02056
	Subsequent owner:	KENNETH D CHIPMAN REV TRUST 21 LOIS LN NORFOLK, MA 02056
0010-032-15-12	23 LOIS LN	JAKUBIK FRANK D & ANNE M 23 LOIS LN NORFOLK, MA 02056
0010-032-15-13	25 LOIS LN	BALZARINI MANAGEMENT TR MARIA ANNE BALZARINI 25 LOIS LN NORFOLK, MA 02056
0010-032-15-14	27 LOIS LN	GAINES DEBORAH & PETER 27 LOIS LN NORFOLK, MA 02056

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address

A B U T T E R S		
=====		
0010-032-15-15	29 LOIS LN	ROYSTON PETER & ELEANOR 29 LOIS LN NORFOLK, MA 02056
0010-032-15-16	31 LOIS LN	COWELL ANN P P.O.BOX 605 NANTUCKET, MA 02554
	Subsequent owner:	TURNER JAMES P 31 LOIS LN NORFOLK, MA 02056
0010-032-15-17	33 LOIS LN	33 LOIS LANE REALTY TRUST ROBERT D & ROSEMARY T GATTI 33 LOIS LN NORFOLK, MA 02056
0010-032-15-18	35 LOIS LN	T & K DOHERTY REALTY TRUST THOMAS F & KAREN C DOHERTY 35 LOIS LN NORFOLK, MA 02056
0010-032-15-19	37 LOIS LN	CADY BURTON D & ANITA B 37 LOIS LN NORFOLK, MA 02056
0010-032-15-20	39 LOIS LN	SIEKMAN CLAIRE M 39 LOIS LN NORFOLK, MA 02056
0010-032-15-21	1 MARGAUXS WAY	EASTTY WILLIAM J & DIANA G 1 MARGAUXS WAY NORFOLK, MA 02056
0010-032-15-22	3 MARGAUXS WAY	LAWRENCE P SULLIVAN 2009 FAM TR FRANCES T SULLIVAN 2009 FAM TR 3 MARGAUXS WAY NORFOLK, MA 02056
0010-032-15-23	5 MARGAUXS WAY	POLAGYE REALTY TRUST MICHAEL C POLAGYE TR 5 MARGAUXS WAY NORFOLK, MA 02056

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address

A B U T T E R S		
=====		
0010-032-15-34	21 MARGAUXS WAY	JONES PHILIP E & NANCY S 21 MARGAUXS WAY NORFOLK, MA 02056
0010-032-15-35	23 MARGAUXS WAY	LORRAINE J EAKIN REV TRUST LORRAINE J EAKIN TR 23 MARGAUXS WAY NORFOLK, MA 02056
0010-032-15-36	16 MARGAUXS WAY	CEO NOMINEE TRUST O'BRIEN ERIC W. & CLAUDETTE 16 MARGAUXS WAY NORFOLK, MA 02056
0010-032-15-37	14 MARGAUXS WAY	FLORENCE JOHN O JR & COLLEEN E 14 MARGAUXS WAY NORFOLK, MA 02056
0010-032-15-38	12 MARGAUXS WAY	STELLA FAMILY REALTY TRUST WALTER M & DONNA M TR 12 MARGAUXS WAY NORFOLK, MA 02056
	Subsequent owner:	STELLA WALTER M & DONNA M 12 MARGAUXS WAY NORFOLK, MA 02056
0010-032-15-39	10 MARGAUXS WAY	F & V NOMINEE TRUST FRANCIS J&VIRGINIA A CUSACK TR 10 MARGAUXS WAY NORFOLK, MA 02056
0010-032-15-40	8 MARGAUXS WAY	LEWIS SUZANNE 8 MARGAUXS WAY NORFOLK, MA 02056
0010-032-15-41	6 MARGAUXS WAY	GRANT STEPHEN W & JENNIFER L 6 MARGAUXS WAY NORFOLK, MA 02056
0010-032-15-42	4 MARGAUXS WAY	CLARKIN LEONARD F & MARY T 4 MARGAUXS WAY NORFOLK, MA 02056

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address
----- A B U T T E R S -----		
0010-032-15-43	2 MARGAUXS WAY	DESCHENES CHERYL A 2 MARGAUXS WAY NORFOLK, MA 02056
	Subsequent owner:	MACDONALD JOHN H & GILLIAN M 2 MARGAUXS WAY NORFOLK, MA 02056
0015-0035-0036	ROCKWOOD RD	WATSON RICHARD A. & PATRICIA 100 ROCKWOOD RD NORFOLK, MA 02056
0015-0035-0051	25 CLEVELAND ST	MARTUCCI ANTHONY E & LAURIE R 25 CLEVELAND ST NORFOLK, MA 02056
0015-0035-0064	22 FLEETWOOD DR	VESCIO ANGELA M. 22 FLEETWOOD DR NORFOLK, MA 02056
0015-0054-0029	32 CLEVELAND ST	TYO RUSSELL D 32 CLEVELAND ST NORFOLK, MA 02056
0015-0054-0032	42 CLEVELAND ST	CUMMINGS BRUCE & C DOUGLAS 37 CLAPP ST NORTON, MA 02766
0015-0054-0115	31 STANHOPE DR	LOWNDES ROBERT P & CATHRINE S 31 STANHOPE DR NORFOLK, MA 02056
0016-0035-0052	31 HOLBROOK ST	MASON DAVID L & MARGARET P 31 HOLBROOK ST NORFOLK, MA 02056
0016-0054-0098	8 MEADOWBROOK WAY	DAVENPORT BRIAN C & MELISSA A 8 MEADOWBROOK WAY NORFOLK, MA 02056
0016-0054-0102	74 CLEVELAND ST	MORENO CARLOS A & MARCIA B 74 CLEVELAND ST NORFOLK, MA 02056

Date: 10/03/2018
txaabut

Town of Norfolk

CERTIFIED ABUTTERS' LIST

Parcel ID	Location	Owner Name/Address
=====	=====	=====
RIGHT OF WAY	FROM MILLIS TO WALPOLE MA.	FOR: EVERSOURCE N.O.I

A B U T T E R S
=====

0016-0054-0105	82 CLEVELAND ST	BUTTERS ALFRED E JR & BARBARA A 78 CLEVELAND ST NORFOLK, MA 02056
0022-0054-0069	113 BOARDMAN ST	WRIGHT RICHARD M & MARTHA R RICHARDSON 113 BOARDMAN ST NORFOLK, MA 02056
0022-0076-0002	7 LINCOLN RD	WAITKEVICH MARK E & DARLENE M 7-9 LINCOLN RD REALTY TRUST 7 LINCOLN RD NORFOLK, MA 02056
0022-0078-0003	41 CAMPBELL ST	SLUZAR MARK J & JACLYN H 36 CAMPBELL ST NORFOLK, MA 02056

Certified List of Record Owners as of January 1,2018

Conservation
*100'

Kathleen Mullineaux

Board of Assessors
Norfolk, Ma. 02056

Attachment F

Local Filing Forms

(2) Certificate of Good Standing

Pursuant to the Town of Norfolk Bylaws, Article II, Section 4, a Good Standing Approval Form approved by the Town Treasurer or Town Tax Collector shall be submitted with the application filed with the Conservation Commission.

GOOD STANDING APPROVAL

Address of property/vendor Existing right-of-way

Owner of Property/Vendor Name: NSTAR Electric d/b/a Eversource Energy

Type of Permit: Notice of Intent (Conservation Commission)

Applicant.....please complete the above and obtain signature at the following offices:

The above applicant is applying for a permit/license and has no outstanding debt on record from the following offices:

Treasurer/Collector's Approval: _____

Date Approved: _____

Water Dept. Approval: _____

Date Approved: _____

Town Clerk Approval: _____

Date Approved: _____

NORFOLK WETLAND PROTECTION BYLAW FILING GUIDELINES

OBTAIN THE FOLLOWING:

1. COPY OF NORFOLK WETLAND PROTECTION BYLAWS and REGULATIONS AT THE CONSERVATION COMMISSION OFFICE OR ONLINE
2. APPLICATION FORMS:
 - a. Form 1 (Determination of Applicability)**
 - b. Form 3 (Notice of Intent)**
 - c. Form 4 (Abbreviated Notice of Intent)**
 - d. Form 4A (Abb. Notice of Resource Area Delin.) **

**** COMPLETE FILING PACKETS ARE IN CONSERVATION OFFICE**
3. LOCUS MAP (ASSESSORS' MAP, BLOCK, AND LOT)
 - From Board of Assessors Office or from the Conservation Commission Office
4. CERTIFIED ABUTTER'S LIST FROM THE OFFICE OF THE BOARD OF ASSESSORS (Note: For conservation filings abutters are those properties within 100 feet of the project's property lines. **NO ABUTTER NOTIFICATION IS REQUIRED FOR A REQUEST FOR DETERMINATION OF APPLICABILITY**

*** The applicant is responsible for the notification to all abutters of the intended project within **10 business days** of the date, time, place and purpose of the public hearing** by certified mail delivery, return receipt requested, or (in the alternate) by hand delivery with signatures on the abutters list)*

5. A signed "Good Standing" form must be included with the application. **The application will not be accepted unless completed.**

SUBMIT THE FOLLOWING TO THE NORFOLK CONSERVATION COMMISSION AT LEAST 15 DAYS PRIOR TO THE ANTICIPATED PUBLIC HEARING DATE:

1. **14** complete copies of the appropriate filing form and **14** complete sets of related plans and required documents, including a copy of the Wetland Fee Transmittal Form (which is included in the filing packet) **A written narrative explaining the project is required.**
2. Include **two separate checks or money orders** for the

Norfolk Bylaw fee and Town share of the state fee payable to the "Town of Norfolk. A check is also required for the State share of the filing fee. The check must be made payable to the "Commonwealth of Massachusetts).(NOTE: NO STATE FILING FEES ARE REQUIRED WITH A REQUEST FOR DETERMINATION OF APPLICABILITY)

3. The applicant is responsible for preparing and mailing (certified mail recommended)one (1) completed forms and plans to:

DEP, Central Regional Office
627 Main Street
Worcester, MA 01608

4. Mail (certified mail is recommended) Wetland Fee Transmittal Form and State filing fee to:
Department of Environmental Protection
P.O. Box 4062
Boston, MA 02211

5. **SUBMIT THE FOLLOWING AT THE TIME OF THE PUBLIC HEARING:**

All green mailing cards (receipts from certified mailings to abutters) or a copy of the abutters list signed by abutters who were hand delivered notice of hearing.

A check or money order payable to the "Town of Norfolk" for the applicable legal advertising costs will be required (check with office for this amount prior to hearing).

IMPORTANT FILING INFORMATION:

1. The Commission meets on the 2nd and 4th Wednesday of the month.
2. Appointments with the Commission can be made no later than 12 noon on the preceding Thursday before a meeting.
3. All requests for changes to a plan must be **in writing** and submitted to the Commission's office by 12 noon, the preceding Thursday before a scheduled meeting. **Eight copies of the plan must be submitted.**
4. All filings must be submitted to the Commission's office a minimum of **15 days prior** to the anticipated public hearing date.
5. Plans prepared by a Registered Land Surveyor (RLS) or a Professional Engineer (PE) and must have a wet stamp and handwritten signature of the licensee.
6. All **notifications to abutters** must include the date, time,

place and purpose of the public hearing. Obtain this information from the Commission's office at the time of the filing.

Revised: 7.24.14

Attachment G

Stormwater Checklist



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

NOT APPLICABLE

The transmission line replacement foundations will not alter the overall stormwater control regime along the ROWs.
The replacement structures yield essentially no change in impervious surface.

Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

- New development *Project consists of transmission loop line construction in existing ROW*
- Redevelopment
- Mix of New Development and Redevelopment



Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- No disturbance to any Wetland Resource Areas
- Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- Reduced Impervious Area (Redevelopment Only)
- Minimizing disturbance to existing trees and shrubs
- LID Site Design Credit Requested:
 - Credit 1
 - Credit 2
 - Credit 3
- 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): Work entirely within previously disturbed/utilized area

Standard 1: No New Untreated Discharges NOT APPLICABLE

- No new untreated discharges
- Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



Checklist for Stormwater Report

Checklist (continued)

NOT APPLICABLE

Standard 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.

Standard 3: Recharge

NOT APPLICABLE

- Soil Analysis provided.
- 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 *not* 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.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* 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.
- 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

Checklist (continued)

Standard 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.

Standard 4: Water Quality NOT APPLICABLE

The 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.
- A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an 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) NOT APPLICABLE

- 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 NOT APPLICABLE

- 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

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 **NOT APPLICABLE**
 - Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
 - 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
 - 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:

- 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 NOT APPLICABLE

- The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and 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 NOT APPLICABLE

- 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.