

Project No. BOXF-0042

Applicant:  
Christine & Matt Caulfield  
60 Lockwood Lane  
Boxford, MA 01921

# NOTICE OF INTENT

60 Lockwood Lane  
Boxford, Massachusetts

April 7, 2016



189 N. Main Street, Suite 101  
Middleton, MA 01949  
978-539-8088 Phone  
978-539-8200 Fax  
[www.wsengineers.com](http://www.wsengineers.com)



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Form 3 – Notice of Intent**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Boxford

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):

60 Lockwood Lane  
 a. Street Address

Boxford  
 b. City/Town

01921  
 c. Zip Code

Latitude and Longitude:  
 42.64428 N  
 d. Latitude

70.98204 W  
 e. Longitude

Map 37, Bloxk 1  
 f. Assessors Map/Plat Number

Parcel 49  
 g. Parcel /Lot Number

2. Applicant:

Matthew & Christine  
 a. First Name

Caulfield  
 b. Last Name

c. Organization

60 Lockwood Lane  
 d. Street Address

Boxford  
 e. City/Town

MA  
 f. State

01921  
 g. Zip Code

978-807-0706  
 h. Phone Number

i. Fax Number

c.mcallister1@verizon.net  
 j. Email Address

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

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Greg  
 a. First Name

Hochmuth  
 b. Last Name

Williams & Sparages, LLC  
 c. Company

189 North Main Street, Suite 101  
 d. Street Address

Middleton  
 e. City/Town

MA  
 f. State

01949  
 g. Zip Code

978-539-8088  
 h. Phone Number

978-539-8200  
 i. Fax Number

ghochmuth@wsengineers.com  
 j. Email address

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

\$165.00  
 a. Total Fee Paid

\$70.00  
 b. State Fee Paid

\$95.00  
 c. City/Town Fee Paid



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## A. General Information (continued)

6. General Project Description:

To construct a retaining wall, install a fence and conduct landscaping improvements within the 200 Foot Riverfront Area and within 100 feet of Bordering Vegetated Wetlands.

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:

Essex

a. County

22180

c. Book

b. Certificate # (if registered land)

246

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.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
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	<u>Unnamed</u> 1. Name of Waterway (if available) - <b>specify coastal or inland</b>	

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: 39,500 +/- square feet

4. Proposed alteration of the Riverfront Area:

2,600 +/- a. total square feet      0 b. square feet within 100 ft.      2,600 +/- 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 Notice of Intent – Required Actions (310 CMR 10.11).

### Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

- Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated 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](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**

MASSGIS 3/2016

b. Date of map

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.1.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\*

- Percentage/acreage of property to be altered:

(a) within wetland Resource Area

percentage/acreage \_\_\_\_\_

(b) outside Resource Area

percentage/acreage \_\_\_\_\_

- Assessor's Map or right-of-way plan of site

- 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/nhesp/regulatory\\_review/ mesa/ mesa\\_fee\\_schedule.htm](http://www.mass.gov/dfwele/dfw/nhesp/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/nhesp/regulatory\\_review/ mesa/ mesa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhesp/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:

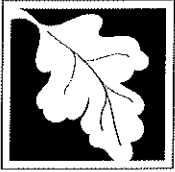
South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

Division of Marine Fisheries -  
Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
1213 Purchase Street – 3rd Floor  
New Bedford, MA 02740-6694  
Email: [DMF.EnvReview-South@state.ma.us](mailto:DMF.EnvReview-South@state.ma.us)

North Shore - Hull to New Hampshire border:

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

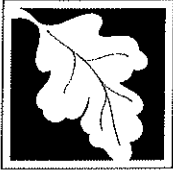
- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

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.

Plan to Accompany a Notice of Intent

a. Plan Title

Williams & Sparages, LLC

Richard L. Williams

b. Prepared By

c. Signed and Stamped by

3/24/2016

1" = 20'

d. Final Revision Date

e. Scale

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:

196

4/1/2016

2. Municipal Check Number

3. Check date

197

4/1/2016

4. State Check Number

5. Check date

Christine

McAllister

6. Payor name on check: First Name

7. Payor name on check: Last Name



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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.

*Christine McAllister*

1. Signature of Applicant

*4/1/2016*

2. Date

3. Signature of Property Owner (if different)

*[Signature]*

4. Date

*4/1/2016*

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.

CHRISTINE A McALLISTER 02-14  
60 LOCKWOOD LN  
BOXFORD, MA 01921

197  
53-70542113 01

April 1, 2016  
Date

Pay to the Order of Commonwealth of Massachusetts \$ 70.00  
Seventy and no/100 Dollars

Security Features  
Printed on  
Back



America's Most Convenient Bank®

For

Christine McAllister

⑆211370545⑆ 8250698089⑈ 0197

Harford Circle

TD Bank, N.A.

CHRISTINE A McALLISTER 02-14  
60 LOCKWOOD LN  
BOXFORD, MA 01921

196  
53-70542113 01

April 1, 2016  
Date

Pay to the Order of Town of Boxford \$ 95.00  
Ninety-five and no/100 Dollars

Security Features  
Printed on  
Back



America's Most Convenient Bank®

For

Christine McAllister

⑆211370545⑆ 8250698089⑈ 0196

Harford Circle

TD Bank, N.A.

CHRISTINE A McALLISTER 02-14  
60 LOCKWOOD LN  
BOXFORD, MA 01921

195  
53-70542113 01

April 1, 2016  
Date

Pay to the Order of Town of Boxford \$ 300.00  
Three hundred and no/100 Dollars

Security Features  
Printed on  
Back



America's Most Convenient Bank®

For

Christine McAllister

⑆211370545⑆ 8250698089⑈ 0195



**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:

60 Lockwood Lane Boxford  
 a. Street Address b. City/Town  
 197 \$70.00  
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Matthew Caulfield  
 a. First Name b. Last Name  
 c. Organization  
 60 Lockwood Lane  
 d. Mailing Address  
 Boxford MA 01921  
 e. City/Town f. State g. Zip Code  
 978-807-0706 c.mcallister1@verizon.net  
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

a. First Name b. Last Name  
 c. Organization  
 d. Mailing Address  
 e. City/Town f. State g. Zip Code  
 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).



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**B. Fees (continued)**

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 1a.	1.5	1.5	\$165.00
NOI Bylaw Fee	1	1	\$200.00
298 L.F. of BVW/MAHW			\$100.00

**Step 5/Total Project Fee:** \_\_\_\_\_

**Step 6/Fee Payments:**

Total Project Fee:	\$165.00
State share of filing Fee:	\$70.00
City/Town share of filling Fee:	\$95.00
	a. Total Fee from Step 5
	b. 1/2 Total Fee less \$12.50
	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.)

Project Narrative  
#60 Lockwood Lane, Boxford, MA 01921  
April, 7, 2016

**Introduction:**

The site is bound to the south by Lockwood Lane, to the west and north by residential properties and to the east by an unnamed pond and an unnamed perennial stream. The lot is identified on the Town's Assessor's Map as Map 37, Block 1, Parcel 49 and is otherwise known as #60 Lockwood Lane.

The lot was created in December of 1986 and is shown as Lot 25 on a plan entitled "Definitive Subdivision Plan of "Arrowhead Farm" located in Boxford, Massachusetts" dated, July 23, 1986, revised November 5, 1986, prepared by Thomas E. Neve Associates, Inc. and recorded with Essex South District Registry of Deeds in Plan Book 220 as Plan 63.

The applicants are proposing two (2) gravity block retaining walls, to remove two (2) trees and to conduct landscaping improvements within jurisdictional areas of the Massachusetts Wetlands Protection Act and Boxford Wetlands Protection Bylaw.

**Jurisdictional Resource Areas:**

The wetland resource areas were delineated by Greg J. Hochmuth, PWS, CWS from Williams & Sparages, LLC on February 5, 2016. The following resource areas were identified:

**Bordering Vegetated Wetlands, (BVW):**

There is BVW along the edge of the perennial stream and the Pond located to the east of the existing dwelling. The BVW has been delineated as the A-Series using blue surveyors tape.

There is no work proposed with the BVW.

**200 Foot Riverfront Area, (RA):**

According to the current USGS map the stream that leaves the pond is perennial. The Mean Annual High Water, (MAHW), line associated with the stream was delineated using pink surveyors tape.

The MAHW edge was delineated using apparent visible markings and changes in the character of soils and vegetation. Bankfull indicators were evident and include changes in slope, changes in vegetation and stain lines.

The RA on this site extends 200 feet from the MAHW associated with the unnamed perennial stream.

The alteration within the RA is limited to the construction of two (2) retaining walls, grading and the removal of two (2) trees. There is no work proposed within the inner riparian zone. The total amount of RA on the property is 39,500 S.F. The proposed alteration within the RA amounts to 2,600 S.F. or 6.5% of the RA on the property.

According to 310 CMR 10.58(4)(d)1., within 200 foot riverfront areas, the issuing authority may allow the alteration of up to 5000 square feet or 10% of the riverfront area within the lot, whichever is greater, on a lot recorded on or before October 6, 1997 provided that:

- a. At a minimum, a 100 foot wide area of undisturbed vegetation is provided. This area shall extend from mean annual high-water along the river unless another location would better protect the interests identified in M.G.L. c. 131 § 40. If there is not a 100 foot wide area of undisturbed vegetation within the riverfront area, existing vegetative cover shall be preserved or extended to the maximum extent feasible to approximate a 100 foot wide corridor of natural vegetation. Replication and compensatory storage required to meet other resource area performance standards are allowed within this area; structural stormwater management measures may be allowed only when there is no practicable alternative. Temporary impacts where necessary for installation of linear site-related utilities are allowed, provided the area is restored to its natural conditions. Proposed work which does not meet the requirement of 310 CMR 10.58(4)(d)1.a. may be allowed only if an applicant demonstrates by a preponderance of evidence from a competent source that an area of undisturbed vegetation with an overall average width of 100 feet will provide equivalent protection of the riverfront area, or that a partial rebuttal of the presumptions of significance is sufficient to justify a lesser area of undisturbed vegetation.

All of the work is outside of the 100 foot inner riparian zone.

- b. Stormwater is managed according to standards established by the Department in its Stormwater Policy.

The project is exempt from the stormwater management standards.

- c. Proposed work does not impair the capacity of the riverfront area to provide important wildlife habitat functions. Work shall not result in an impairment of the capacity to provide vernal pool habitat identified by evidence from a competent source, but not yet certified. For work within an undeveloped riverfront area which exceeds 5,000 square feet, the issuing authority may require a wildlife habitat evaluation study under 310 CMR 10.60.

The work proposed within the RA is 2,600 S.F. and the area is not mapped as estimated or priority habitat by the NHESP and the pond does not appear to be a vernal pool. It is our understanding that the pond is home to adult fish populations. No unique habit components were noted within the proposed area of disturbance.

- d. Proposed work shall not impair groundwater or surface water quality by incorporating erosion and sedimentation controls and other measures to attenuate nonpoint source pollution.

Erosion controls are proposed to be installed during construction and remain in place until all areas above them are stabilized and permission is granted by the Conservation Department for their removal.

Other than not doing the project there are no practicable alternatives with less adverse effects on the interests identified in M.G. L. c. 131 § 40. The goal of the project is stabilize the slope and to make access easier around the dwelling.

**Bordering Land Subject to Flooding:**

There is a FEMA Zone A 100 year floodplain that extends onto the property. A detailed flood study has not been done in this area and there is no elevation associated with the flood plain. The graphic depiction of the 100 year floodplain has been added to the permit site plan.

There is no work proposed within the 100 year floodplain.



## MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Matthew Caulfield Prepared by: Greg Hochmuth Project location: 60 Lockwood Lane, Boxford, MA DEP File #: \_\_\_\_\_  
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

### Section I.

Vegetation	Observation Plot Number: A8-Wetland	Transect Number: A8-Wetland	Date of Delineation: 2/5/2016
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)
<b>Trees</b>			
White Pine Pinus strobus	80%	88%	YES
Red Oak Quercus rubra	10%	11%	NO
<b>Shrubs</b>			
Highbush Blueberry Vaccinium corymbosum	50%	83%	YES
Glossy Buckhorn Rhamnus frangula	10%	16%	NO
<b>Ground Cover</b>			
Cinnamon Fern Osmunda cinnamomea	10%	50%	YES
Sensitive Fern Onoclea sensibilis	10%	50%	YES

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c. 131, s. 40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

### Vegetation conclusion:

Number of dominant wetland indicator plants: 2

Number of dominant non-wetland indicator plants: 3

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? No

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? YES

title/date: NRCS Web Soil Survey

map number:

soil type mapped: Water, 1

hydric soil inclusions: NA

Are field observations consistent with soil survey? YES  
 Remarks: Edge of Pond

Site Inundated: Edge of Pond

Depth to free water in observation hole: \_\_\_\_\_

Depth to soil saturation in observation hole: \_\_\_\_\_

Water marks: \_\_\_\_\_

Drift lines: \_\_\_\_\_

Sediment Deposits: \_\_\_\_\_

Drainage patterns in BWV: \_\_\_\_\_

Oxidized rhizospheres: \_\_\_\_\_

Water-stained leaves: \_\_\_\_\_

Recorded Data (streams, lake, or tidal gauge; aerial photo; other):  
 \_\_\_\_\_  
 \_\_\_\_\_

Other: \_\_\_\_\_  
 \_\_\_\_\_

#### 2. Soil Description

Horizon

Depth

Matrix Color

Mottles Color

Edge of Pond

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? NA

Other Indicators of Hydrology: (check all that apply & describe)

Vegetation and Hydrology Conclusion		Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants		_____	___X___
Wetland hydrology present:			
Hydric soil present		_____	_____
Other indicators of hydrology present		___X___	_____
Sample location is in a BWV		___X___	_____

*Submit this form with the Request for Determination of Applicability or Notice of Intent.*

# MassDEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Matthew Caulfield Prepared by: Greg Hochmuth Project location: 60 Lockwood Lane, Boxford, MA DEP File #: \_\_\_\_\_  
 Check all that apply:

- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

## Section I.

Vegetation	Observation Plot Number: A8-Upland	Transect Number: A8-Upland	Date of Delineation: 2/5/2016
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)
<b>Trees</b>			
White Pine Pinus strobus	80%	72%	YES
Red Oak Quercus rubra	30%	27%	YES
<b>Shrubs</b>			
Highbush Blueberry Vaccinium corymbosum	25%	45%	YES
Glossy Buckhorn Rhamnus frangula	30%	54%	YES
<b>Ground Cover</b>			
Black Huckleberry Gaylussacia baccata	10%	33%	YES
Cinnamon Fern Osmunda cinnamomea	10%	33%	YES
Black Cherry Prunus serotina	10%	33%	YES

\* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c. 131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

**Vegetation conclusion:**  
 Number of dominant wetland indicator plants: 3  
 Number of dominant non-wetland indicator plants: 4

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **No**

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

## Section II. Indicators of Hydrology

### Hydric Soil Interpretation

#### 1. Soil Survey

Is there a published soil survey for this site? YES  
 title/date: NRCS Web Soil Survey  
 map number:  
 soil type mapped: Merrimac, 254C  
 hydric soil inclusions: Somewhat Excessively Drained

Are field observations consistent with soil survey? YES  
 Remarks:

#### Other Indicators of Hydrology: (check all that apply & describe)

- Site Inundated: \_\_\_\_\_
- Depth to free water in observation hole: \_\_\_\_\_
- Depth to soil saturation in observation hole: \_\_\_\_\_
- Water marks: \_\_\_\_\_
- Drift lines: \_\_\_\_\_
- Sediment Deposits: \_\_\_\_\_
- Drainage patterns in BW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- Other: \_\_\_\_\_

**2. Soil Description**

Horizon	Depth	Matrix Color	Mottles Color
A	0-10"	10YR3/2	
Bw	10-18"	7.5YR5/8	

Remarks:

#### 3. Other:

Conclusion: Is soil hydric? NO

#### Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	_____	___X__

#### Wetland hydrology present:

Hydric soil present	_____	___X__
Other indicators of hydrology present	_____	___X__

#### Sample location is in a BW

\_\_\_\_\_

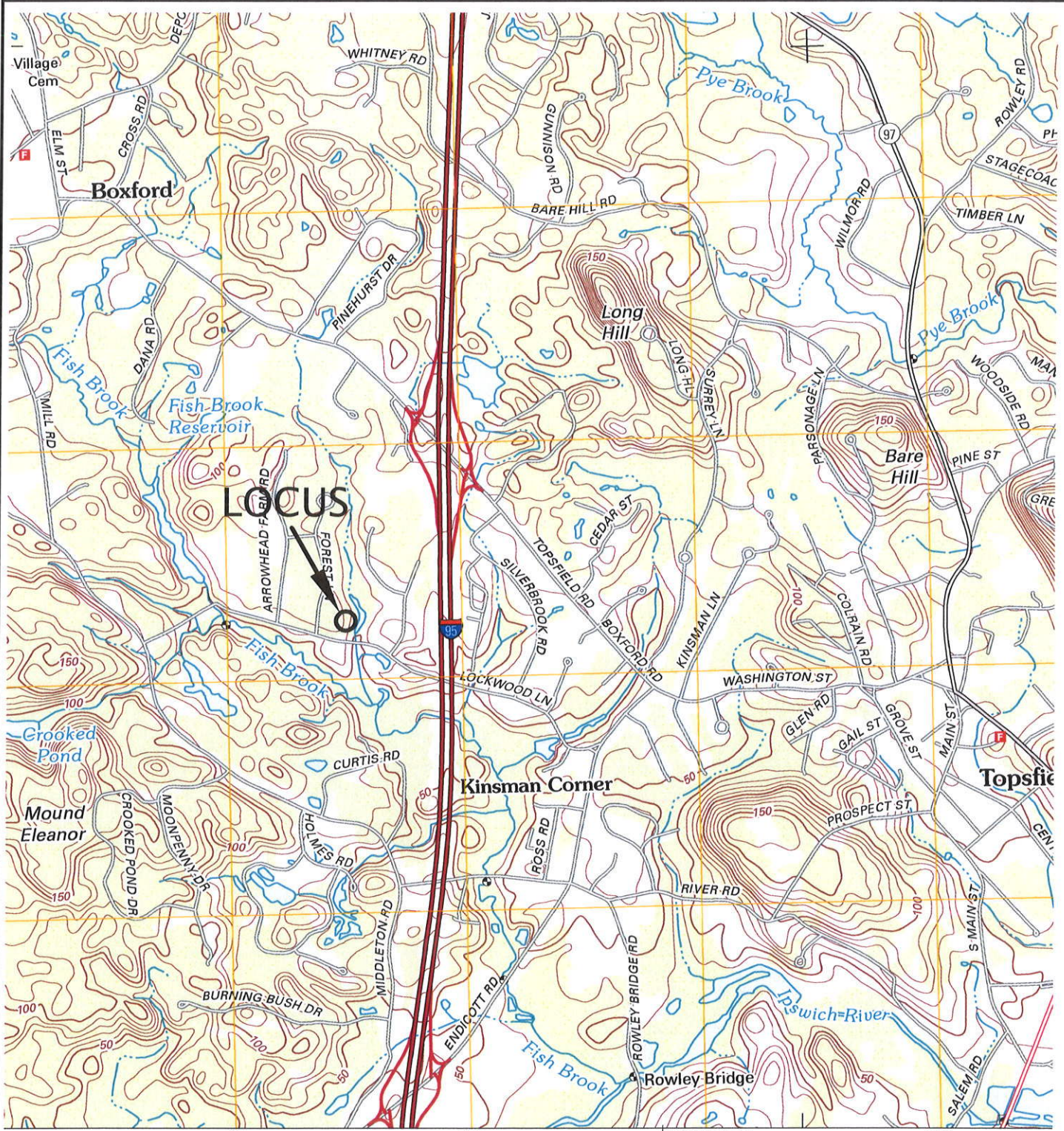
\_\_\_X\_\_

*Submit this form with the Request for Determination of Applicability or Notice of Intent.*

WILLIAMS & SPARGES  
CIVIL ENGINEERING &  
LAND SURVEYORS



189 NORTH MAIN STREET  
SUITE 101  
MIDDLETON, MA 01949  
PHONE: (978) 539-8088  
FAX: (978) 539-8200



UNITED STATES GEOLOGIC SURVEY MAP  
GEORGETOWN QUAD  
SCALE: 1"=2,000'

LOCUS MAP  
60 LOCKWOOD LANE  
BOXFORD, MA 01921

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

(To be submitted to the Massachusetts Department of Environmental Protection and the Conservation Commission when filing a Notice of Intent)

I, Greg Hochmuth, hereby certify under the pains and penalties of perjury that on April 7, 2016 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Law Chapter 131, Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

A Notice of Intent filed under Massachusetts Wetlands Protection Act and Boxford Wetlands Protection Bylaw by Matthew & Christine Caulfield with the Boxford Conservation Commission on April 7, 2016 for property located at 60 Lockwood Lane.

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

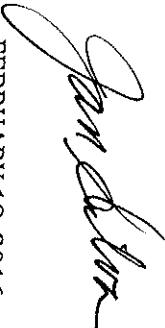
  
Name

4/7/2016  
Date

TOWN OF BOXFORD  
 ABUTTER LIST  
 PARCEL #37-01-49 ~ 60 LOCKWOOD LANE ~ CONSERVATION COMMISSION 250'

Map/Lot	Location	Owner	Owner 2	Owner Address	Owner City/Town	Owner State	Zip Code
(37-01-64)	2 HAYMEADOW RD	BALLWAY JAMES C TE	HUNT VALERIE J	2 HAYMEADOW RD	BOXFORD	MA	01921
(37-01-62)	12 HAYMEADOW RD	BASSETT SHARON D		12 HAYMEADOW RD	BOXFORD	MA	01921
(37-01-49)	60 LOCKWOOD LANE	CAULFIELD MATTHEW X	CAULFIELD CHRISTINE	60 LOCKWOOD LANE	BOXFORD	MA	01921
(37-01-04)	51 LOCKWOOD LANE	CHURCH GARY J	CHURCH LAURA E	51 LOCKWOOD LANE	BOXFORD	MA	01921
(37-01-06)	66 LOCKWOOD LANE	CROWE MICHAEL S TE	PASCHAL-CROWE HELEN ELIZABETH	66 LOCKWOOD LANE	BOXFORD	MA	01921
(37-01-61)	8 BARNSIDE RD	D'ENTREMONT DAVID R TR	D'ENTREMONT JEANINE M TR	8 BARNSIDE RD	BOXFORD	MA	01921
(37-01-77.1)	57 LOCKWOOD LANE	DUNKER JEREMY	DUNKER STEPHANIE	57 LOCKWOOD LANE	BOXFORD	MA	01921
(37-01-48)	1 FOREST LANE	HENRY TODD C	HENRY JILL J	1 FOREST LANE	BOXFORD	MA	01921
(37-01-60)	10 BARNSIDE RD	NEWMAN KATHERINE C		10 BARNSIDE RD	BOXFORD	MA	01921
(37-01-51)	13 FOREST LANE	SHELGRN STEVEN R	SHELGRN ROBIN R	13 FOREST LANE	BOXFORD	MA	01921
(37-01-50)	9 FOREST LANE	SIBBACH ARTHUR W	SIBBACH DONNA A	9 FOREST LANE	BOXFORD	MA	01921
(37-01-76)	LOCKWOOD LANE	TOWN OF BOXFORD		7A SPOFFORD RD	BOXFORD	MA	01921
(37-01-63)	10 HAYMEADOW RD	VINING BRUCE W TE	VINING STEPHANIE E	10 HAYMEADOW RD	BOXFORD	MA	01921
(37-01-77.2)	65 LOCKWOOD LANE	VOLPACCHIO JOHN J		65 LOCKWOOD LANE	BOXFORD	MA	01921

**CERTIFIED COPY**

  
 FEBRUARY 18, 2016



**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:

60 Lockwood Lane Boxford  
 a. Street Address b. City/Town  
\$70.00  
 c. Check number d. Fee amount

2. Applicant Mailing Address:

Matthew Caulfield  
 a. First Name b. Last Name  
 c. Organization  
60 Lockwood Lane  
 d. Mailing Address  
Boxford MA 01921  
 e. City/Town f. State g. Zip Code  
978-807-0706 c.mcallister1@verizon.net  
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

a. First Name b. Last Name  
 c. Organization  
 d. Mailing Address  
 e. City/Town f. State g. Zip Code  
 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
Category 1a.	1.5	1.5	\$165.00
NOI Bylaw Fee	1	1	\$200.00
298 L.F. of BVW/MAHW			\$100.00

**Step 5/Total Project Fee:** \_\_\_\_\_

**Step 6/Fee Payments:**

Total Project Fee:	\$165.00
State share of filing Fee:	\$70.00
City/Town share of filling Fee:	\$95.00
	a. Total Fee from Step 5
	b. 1/2 Total Fee less \$12.50
	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.)