

# EcoTec, Inc.

## ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street  
Worcester, MA 01605-2629  
508-752-9666 – Fax: 508-752-9494

December 21<sup>st</sup>, 2021

Paxton Conservation Commission  
Town Office Building  
Paxton, MA 01612

Re: 7 Briarcliff Lane, Paxton

Subject: Notice of Intent

Dear Commission Members:

Enclosed please find three (3) copies of a Notice of Intent submitted on behalf of the Applicant: David Schmidt filed under the Massachusetts Wetlands Protection Act and Town of Paxton Wetlands Protection Bylaw for the above referenced property. This filing comprises:

1. This cover letter;
2. The Notice of Intent forms with required attachments;
3. Checks to cover filing fees, legal notice, and recording fee;
4. Wetland Resource Evaluation by EcoTec, Inc. dated November 10, 2016; and
5. Subsurface Sewage Disposal Plans, by Quinn Engineering dated November 21, 2016.

One (1) copy of this filing has been submitted by certified mail, return receipt requested to the Central Regional Office of the Department of Environmental Protection and one copy of this filing has been submitted to the property owner and applicant.

The proposed project consists of the construction of a septic system, grading, and associated site work within the 100-foot Buffer Zone. During construction, wetland resource areas will be protected by installing double staked straw bales and properly entrenched siltation fencing, which will be maintained until all disturbed areas have been fully stabilized. It should be noted that this project received an Order of Conditions (MassDEP# 257-0305) approving the project on April 20, 2017. Unfortunately, this expired. Therefore, this application seeks a new Order of Conditions allowing the septic system to be replaced.

We look forward to meeting with the Commission to discuss this project. If you have any questions, please feel free to contact me at any time.

Sincerely,



Kate O'Donnell, WPIT  
Environmental Scientist



# 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

Paxton

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>7 Briarcliff Lane</u>	<u>Paxton</u>	<u>001612</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>42.297288 N</u>	<u>-71.903910 W</u>	
d. Latitude	e. Longitude	
<u>27</u>	<u>73</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>David</u>	<u>Schmidt</u>	
a. First Name	b. Last Name	
c. Organization		
<u>48 Bigelow Road</u>		
d. Street Address		
<u>Douglas</u>	<u>MA</u>	<u>01516</u>
e. City/Town	f. State	g. Zip Code
<u>508-981-3820</u>	j. Email Address	
h. Phone Number	i. Fax Number	

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

<u></u>	<u></u>	
a. First Name	b. Last Name	
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>	j. Email address
h. Phone Number	i. Fax Number	

4. Representative (if any):

<u>Scott</u>	<u>Morrison</u>	
a. First Name	b. Last Name	
<u>EcoTec, Inc.</u>		
c. Company		
<u>102 Grove Street</u>		
d. Street Address		
<u>Worcester</u>	<u>MA</u>	<u>01605</u>
e. City/Town	f. State	g. Zip Code
<u>508-752-9666 x227</u>	<u>508-752-9494</u>	<u>smorrison@ecotecinc.com</u>
h. Phone Number	i. Fax Number	j. Email address

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

<u>110.00</u>	<u>42.50</u>	<u>67.50</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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

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## A. General Information (continued)

6. General Project Description:

The proposed project consists of the construction of a septic system, grading, and associated site work.

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:

Worcester

a. County

21876

c. Book

b. Certificate # (if registered land)

157

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 type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet	2. square feet
	3. cubic yards dredged	

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	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 type="checkbox"/> Riverfront Area	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: \_\_\_\_\_ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet \_\_\_\_\_ b. square feet within 100 ft. \_\_\_\_\_ c. square feet between 100 ft. and 200 ft. \_\_\_\_\_

5. Has an alternatives analysis been done and is it attached to this NOI?  Yes  No

6. Was the lot where the activity is proposed created prior to August 1, 1996?  Yes  No

3.  Coastal Resource Areas: (See 310 CMR 10.25-10.35)

**Note:** for coastal riverfront areas, please complete **Section B.2.f.** above.



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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. <input type="checkbox"/> 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. <input type="checkbox"/> 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

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](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**

12/8/2021

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\*

1.  Percentage/acreage of property to be altered:

(a) within wetland Resource Area

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

(b) outside Resource Area

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

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

2.  Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work \*\*

(a)  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/esa\\_fee\\_schedule.htm](http://www.mass.gov/dfwele/dfw/nhESP/regulatory_review/mesa/esa_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/esa\\_exemptions.htm](http://www.mass.gov/dfwele/dfw/nhESP/regulatory_review/mesa/esa_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  
1213 Purchase Street – 3rd Floor  
New Bedford, MA 02740-6694  
Email: [DMF.EnvReview-South@state.ma.us](mailto: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](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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**Online Users:**  
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

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

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.

Proposed Subsurface Disposal Plan

a. Plan Title

Quinn Engineering

Kevin Quinn

b. Prepared By

c. Signed and Stamped by

November 21, 2016

1" = 10'

d. Final Revision Date

e. Scale

Wetland Resource Evaluation by EcoTec, Inc.

11/10/2016

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:

21137

12/10/2021

2. Municipal Check Number

3. Check date

21138

12/10/2021

4. State Check Number

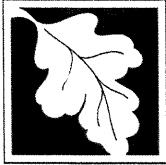
5. Check date

EcoTec, Inc.

EcoTec, Inc.

6. Payor name on check: First Name

7. Payor name on check: Last Name



# WPA Form 3 – Notice of Intent

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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.

1. Signature of Applicant

2. Date

3. Signature of Property Owner (if different)

4. Date

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.



**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:

7 Briarcliff Lane	Paxton
a. Street Address	b. City/Town
2572	42.50
c. Check number	d. Fee amount

2. Applicant Mailing Address:

David	Schmidt	
a. First Name	b. Last Name	
c. Organization		
48 Bigelow Road		
d. Mailing Address		
Douglas	MA	01516
e. City/Town	f. State	g. Zip Code
508-981-3820	j. Email Address	
h. Phone Number	i. Fax Number	

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 II	1	110.00	110.00
<b>Step 5/Total Project Fee:</b>			110.00
<b>Step 6/Fee Payments:</b>			
Total Project Fee:			110.00
State share of filing Fee:			42.50
City/Town share of filing Fee:			67.50
			a. Total Fee from Step 5
			b. 1/2 Total Fee <b>less</b> \$12.50
			c. 1/2 Total Fee <b>plus</b> \$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.)

21139

**ECOTEC, INC.**  
102 GROVE STREET  
WORCESTER, MA 01605  
(508) 752-9666

**BayState**  
Savings Bank  
The Community Bank of Choice  
53-7102/2113



12/10/2021

PAY TO THE  
ORDER OF

Commonwealth of Massachusetts

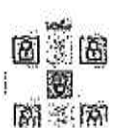
\$ \*\*105.00

DOLLARS

One Hundred Five and 00/100

Commonwealth of Massachusetts

*Paul H. Miller*  
AUTHORIZED SIGNATURE



Security Features. Details on back.

MEMO

Recording fee - NOI - 7 Briarcliff Lane, Paxton

⑈021139⑈

21137

**ECOTEC, INC.**  
102 GROVE STREET  
WORCESTER, MA 01605  
(508) 752-9666

**BayState**  
Savings Bank  
The Community Bank of Choice  
53-7102/2113



12/10/2021

PAY TO THE  
ORDER OF

Town of Paxton

\$ \*\*67.50

DOLLARS

Sixty-Seven and 50/100

Town of Paxton

*Paul H. Miller*  
AUTHORIZED SIGNATURE



Security Features. Details on back.

MEMO

NOI - 7 Briarcliff Lane, Paxton

⑈021137⑈

21138

**ECOTEC, INC.**  
102 GROVE STREET  
WORCESTER, MA 01605  
(508) 752-9666

**BayState**  
Savings Bank  
The Community Bank of Choice  
53-7102/2113



12/10/2021

PAY TO THE  
ORDER OF

Commonwealth of Massachusetts

\$ \*\*42.50

DOLLARS

Forty-Two and 50/100

Commonwealth of Massachusetts

*Paul H. Miller*  
AUTHORIZED SIGNATURE



Security Features. Details on back.

MEMO

NOI - Paxton - 7 Briarcliff Lane

⑈021138⑈

21136

**ECOTEC, INC.**  
102 GROVE STREET  
WORCESTER, MA 01605  
(508) 752-9666



53-7102/2113



12/10/2021

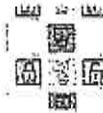
PAY TO THE  
ORDER OF Town of Paxton

\$ \*\*50.00

Fifty and 00/100\*\*\*\*\*

DOLLARS

Town of Paxton



*Paul Miller*  
AUTHORIZED SIGNATURE

Security features. Details on back.

MEMO

legal ad 7 Briarcliff Lane, Paxton

⑈021136⑈

Notification of Abutters Under the  
Massachusetts Wetlands Protection Act and the Town of Paxton Wetlands Bylaw

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 David Schmidt.
- B. The applicant has filed a Notice of Intent with the Conservation Commission for the municipality of Paxton seeking approval to construct a septic system, grading and associated site work within the 100-foot Buffer Zone to areas Subject to Protection Under the Wetlands Protection Act (General Laws Chapter 131, Section 40) and the Town of Paxton Wetlands Bylaw.
- C. The address where the planned activity will take place 7 Briarcliff Lane, Paxton.
- D. Copies of the Notice of Intent may be examined and obtained by making an appointment at EcoTec, Inc., 102 Grove Street, Worcester, MA, during regular business hours.

For more information call EcoTec (Scott Morrison) at (508) 752-9666 x227 to make an appointment to review the filing materials. This is the applicant's representative.

- E. Information regarding the date, time and place of the public hearing may be obtained from EcoTec, Inc., by calling this telephone number (508) 752-9666 during regular business hours.

NOTE: Notice of the public hearing, including the date, time and place will be published at least five (5) days in advance in the Landmark, Worcester Telegram or other local newspaper.

**NOTE: Notice of the public hearing, including the date, time and place will be posted in the City or Town Hall not less than forty-eight (48) hours in advance.**

**NOTE: You also may contact your local Conservation Commission or the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call:**

DEP Central Region: (508) 792-7650.



Town of Paxton  
Board of Assessors  
697 Pleasant Street  
Paxton, MA 01612  
(508) 799-7231 – phone  
(508) 797-0966 – fax

December 20, 2021

**CERTIFIED ABUTTERS LIST FOR 7 Briarcliff Lane, MAP 27, LOT 73**

map_par_id	owner1	own_addr	own_city	own_state	own_zip
27/83	ACUNA, RODOLFO A & SHARON M	10 BRIARCLIFF LN	PAXTON	MA	01612
27/62	GREATER WORCESTER LAND TRUST	4 ASH STREET	WORCESTER	MA	1602
27/85	LUKE, DANA L. & CLAUDIA L.	6 BRIARCLIFF LN	PAXTON	MA	01612
27/86	OLSON, JEFFREY C	4 BRIARCLIFF LN	PAXTON	MA	01612
27/74	MARTORANO, SHELLEY & MOSS, SCOTT	9 BRIARCLIFF LN	PAXTON	MA	01612
27/72	PEARSONS, EMILY	2 MEADOWBROOK DR	PAXTON	MA	01612
27/70	HART, ALICE F & ROBERT F	1911 EAST FOOTHILLS DR	SIERRA VISTA	AZ	85635 4142
27/75	GOPOYAN, ANNA	11 BRIARCLIFF LN	PAXTON	MA	01612
27/71	ROBINSON, MARSHALL S & JACOBY, ELIZABETH R	4 MEADOWBROOK DR	PAXTON	MA	01612
27/84	HANSON, KRISTIAN P	8 BRIARCLIFF LN	PAXTON	MA	01612

Kateri M. Clute

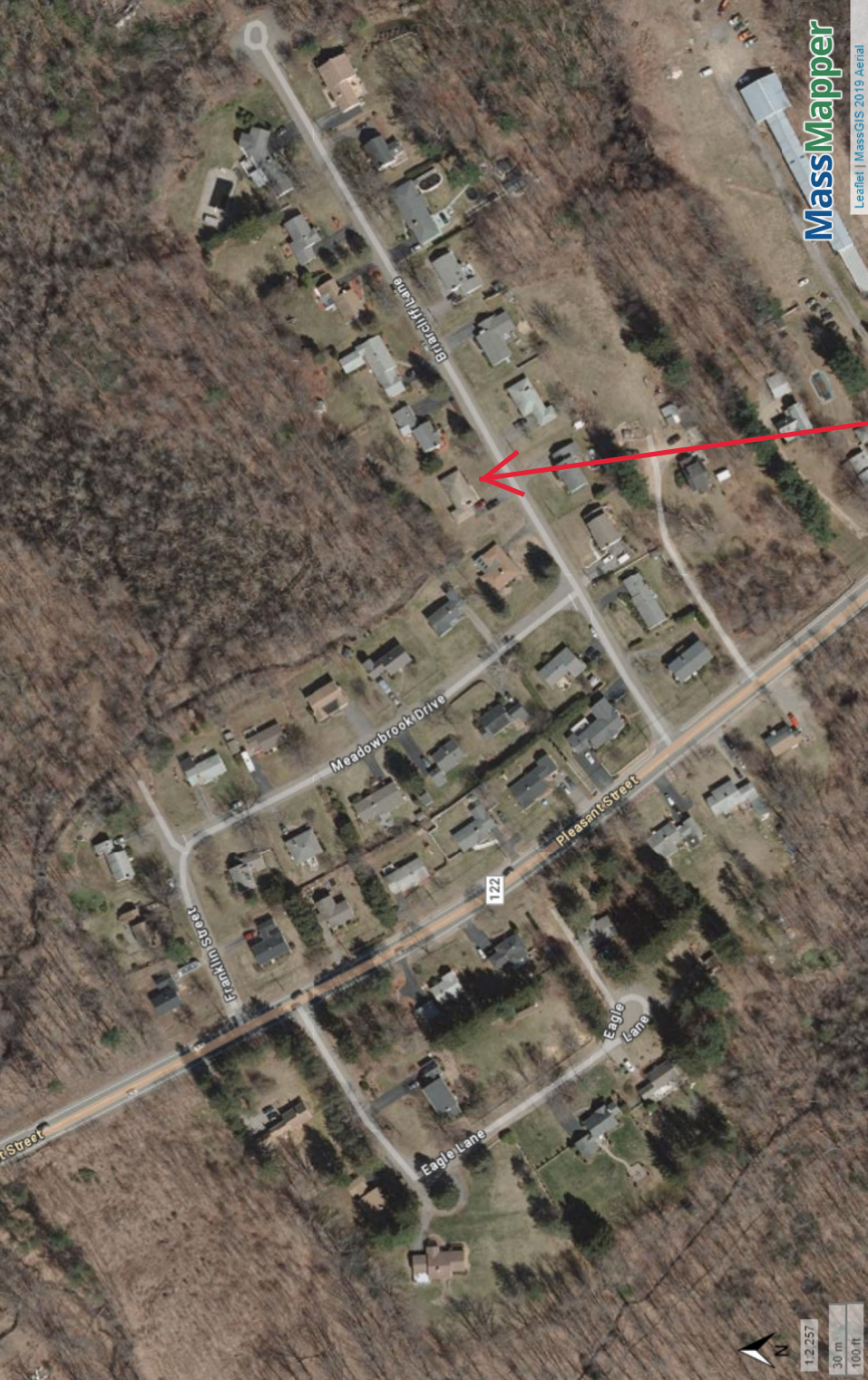
Principal Assessor, Town of Paxton  
697 Pleasant St., Paxton, MA 01612  
508/799-7231 Ext 16, Fax 508/797-0966



# 7 Briarcliff Lane, Paxton NHESP

- NHESP Certified Vernal Pools \*
- NHESP Estimated Habitats of Rare Wildlife
- NHESP Priority Habitats of Rare Species
- Map Features for Imagery

Natural Heritage Atlas  
Online Data Viewer,  
15th edition  
created: 12/8/2021  
7 Briarcliff Lane, Paxton



site

# EcoTec, Inc.

## ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street

Worcester, MA 01605-2629

508-752-9666 – Fax: 508-752-9494

November 10, 2016

David Schmidt  
48 Bigelow Road  
Douglas, MA 01516

RE: Wetland Resource Evaluation, 7 Briarcliff Lane, Paxton, Massachusetts

Dear Mr. Schmidt:

On September 8, 2016, EcoTec, Inc. inspected the above-referenced property for the presence of wetland resources as defined by: (1) the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, § 40; the “Act”) and its implementing regulations (310 CMR 10.00 *et seq.*; the “Regulations”); and (2) the U.S. Clean Water Act (i.e., Section 404 and 401 wetlands). Scott Morrison, PWS conducted the inspection.

The subject site consists of a 1/4-acre parcel located to the north of Briarcliff Lane in Paxton. The upland portions of the site consist of an existing single-family home, driveway, lawn and landscaping with undeveloped forest to the north. Plant species observed include northern red oak (*Quercus rubra*), white oak (*Quercus alba*), black cherry (*Prunus serotina*), red maple (*Acer rubrum*), sugar maple (*Acer saccharum*), and white ash (*Fraxinus americana*) trees and/or saplings; Virginia creeper (*Parthenocissus quinquefolia*) climbing woody vines; American witch-hazel (*Hamamelis virginiana*), highbush blueberry (*Vaccinium corymbosum*), and winged euonymus (*Euonymus alata*) shrubs; and hayscented fern (*Dennstaedtia punctilobula*) and wild-lily-of-the-valley (*Maianthemum canadense*) ground cover. The wetland resources observed on the site are described below.

### Methodology

The site was inspected, and areas suspected to qualify as wetland resources were identified. The boundary of Bordering Vegetated Wetlands or, in the absence of Bordering Vegetated Wetlands, Bank was delineated in the field in accordance with the definitions set forth in the regulations at 310 CMR 10.55(2)(c) and 310 CMR 10.54(2). Section 10.55(2)(c) states that “The boundary of Bordering Vegetated Wetlands is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist.” Section 10.54(2)(c) states that “The upper boundary of Bank is the first observable break in the slope or the mean annual flood level, whichever is lower.” The methodology used to delineate Bordering Vegetated Wetlands is further described in: (1) the BVW Policy “*BVW: Bordering Vegetated Wetlands Delineation Criteria and Methodology*,” issued March 1, 1995; and (2) “*Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act: A Handbook*,” produced by the Massachusetts Department of Environmental Protection, dated

March 1995. The plant taxonomy used in this report is based on the *National List of Plant Species that Occur in Wetlands: Massachusetts* (Fish and Wildlife Service, U.S. Department of the Interior, 1988). Federal wetlands were presumed to have boundaries conterminous with the delineated Bordering Vegetated Wetlands and Bank. One set of DEP Bordering Vegetated Wetland Delineation Field Data Forms completed for observation plots located in the wetlands and uplands near flag A-7 is attached. The table below provides the Flag Numbers, Flag Type, and Wetland Types and Locations for the delineated wetland resources.

Flag Numbers	Flag Type	Wetland Types and Locations
Start A1 to A8 Stop	Blue Flags	Boundary of Bordering Vegetated Wetlands located in the northern portion of the site that is associated with a stream.
Stream (not flagged)	Not Flagged (on abutting lot)	Culvert and intermittent stream located to the northwest of the site

### Findings

Wetland A (i.e., flags A1 to A8) consists of a forested/shrub swamp located in the northern portion of the site that is associated with an intermittent stream. Plant species observed include red maple (*Acer rubrum*), yellow birch (*Betula alleghaniensis*), gray birch (*Betula populifolia*), and American elm (*Ulmus americana*) trees and/or saplings; poison ivy (*Toxicodendron radicans*) climbing woody vines; highbush blueberry (*Vaccinium corymbosum*), common winterberry (*Ilex verticillata*), arrow-wood (*Viburnum dentatum*), withe-rod (*Viburnum cassinoides*), northern spicebush (*Lindera benzoin*), speckled alder (*Alnus rugosa*), silky dogwood (*Cornus amomum*), and American elderberry (*Sambucus canadensis*) shrubs; and bristly blackberry (*Rubus hispidus*), cinnamon fern (*Osmunda cinnamomea*), sensitive fern (*Onoclea sensibilis*), and spotted touch-me-not (*Impatiens capensis*) ground cover. Evidence of wetland hydrology, including hydric soils, high groundwater, saturated soils, pore linings, and evidence of flooding, was observed within the delineated wetland. This vegetated wetland borders an intermittent stream; accordingly, the vegetated wetlands would be regulated as Bordering Vegetated Wetlands and the intermittent stream would be regulated as Bank under the Act. A 100-foot Buffer Zone extends horizontally outward from the edge of Bordering Vegetated Wetlands and Bank under the Act.

Bordering Land Subject to Flooding is an area that floods due to a rise in floodwaters from a bordering waterway or water body. Where flood studies have been completed, the boundary of Bordering Land Subject to Flooding is based upon flood profile data prepared by the National Flood Insurance Program. Section 10.57(2)(a)3. states that “The boundary of Bordering Land Subject to Flooding is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm.” Based upon a review of the Flood Insurance Rate Map, Worcester County, Massachusetts, Map Number 25027C0595E, Effective Date July 4, 2011, the site is mapped as Other Flood Areas: Zone X, which is defined as areas located within the 0.2% annual chance flood (i.e., 500-year floodplain). The project engineer should evaluate the most recent National Flood Insurance Program flood profile data to

Mr. Schmidt  
November 10, 2016  
Page 3.

confirm that Bordering Land Subject to Flooding does not occur on the site. Bordering Land Subject to Flooding would occur in areas where the 100-year flood elevation is located outside of or upgradient of the delineated Bordering Vegetated Wetlands boundary. Bordering Land Subject to Flooding does not have a Buffer Zone under the Act.

The Massachusetts Rivers Protection Act amended the Act to establish an additional wetland resource area: Riverfront Area. Based upon a review of the current USGS Map (i.e., Worcester North Quadrangle, dated 1983, attached) and observations made during the site inspection, a stream that is not shown on the USGS Map is located to the north. The watershed area for this stream at the site was determined to be approximately 0.1 square miles, which is less than 0.5 square miles. As such, the stream would be designated intermittent under the Massachusetts Wetlands Protection Act regulations. Furthermore, based upon a review of the current USGS Map and observations made during the site inspection, there are no other mapped or unmapped streams located within 200 feet of the site. Accordingly, Riverfront Area would not occur on the site. Riverfront Area does not have a Buffer Zone under the Act.

The Regulations require that no project may be permitted that will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures set forth at 310 CMR 10.59. Based upon a review of the *Massachusetts Natural Heritage Atlas*, 13<sup>th</sup> edition, Priority Habitats and Estimated Habitats, Paxton Quadrangle, valid from October 1, 2008, there are no Estimated Habitats [for use with the Act and Regulations (310 CMR 10.00 *et seq.*)], Priority Habitats [for use with Massachusetts Endangered Species Act (M.G.L. Ch. 131A; "MESA") and MESA Regulations (321 CMR 10.00 *et seq.*)], or Certified Vernal Pools on or in the immediate vicinity of the site. A copy of this map is attached.

The reader should be aware that the regulatory authority for determining wetland jurisdiction rests with local, state, and federal authorities. A brief description of my experience and qualifications is attached. If you have any questions, please feel free to contact me at any time.

Cordially,  
ECOTEC, INC.



Scott M. Morrison, PWS  
Senior Environmental Scientist

Attachments (6, 8 pages)

17/w/wetland resource evaluation template Nov 3 2006

**EcoTec, Inc.**





# Priority Habitats and Estimated Habitats - Effective October 1, 2008

Priority Habitats for use with the MA Endangered Species Act Regulations (321 CMR 10)

Estimated Habitats for use with the MA Wetlands Protection Act Regulations (310 CMR 10)

Produced by the Natural Heritage & Endangered Species Program

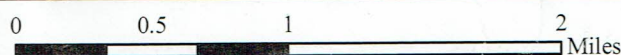
website: [www.nhesp.org](http://www.nhesp.org)



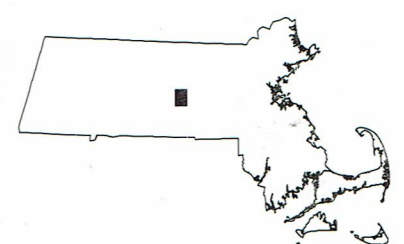
### Page Index

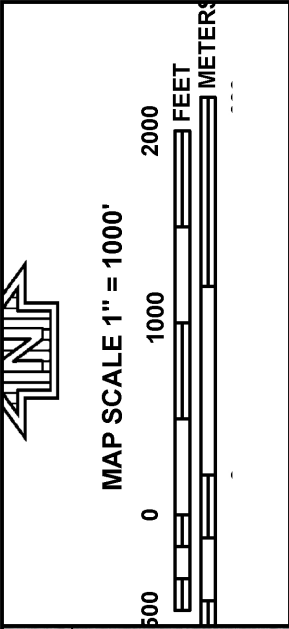
p.61	p.62	p.63	p.64	p.65
p.83	p.84		p.86	p.87
p.105	p.106	p.107	p.108	p.109

- Priority Habitat of Rare Species**
- Priority Habitat of Rare Species and also Estimated Habitat of Rare Wildlife**
- Certified Vernal Pool (as of July 31, 2008)**



### Paxton Quad





**NFIP** NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0595E

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**WORCESTER COUNTY,**  
**MASSACHUSETTS**  
**(ALL JURISDICTIONS)**

PANEL 595 OF 1075  
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HOLDEN, TOWN OF	250309	0595	E
LEICESTER, TOWN OF	250313	0595	E
PAXTON, TOWN OF	250326	0595	E
WORCESTER, CITY OF	250349	0595	E

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



**MAP NUMBER**  
**25027C0595E**  
**EFFECTIVE DATE**  
**JULY 4, 2011**  
**Federal Emergency Management Agency**

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps, check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)



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

Applicant: Prepared by: EcoTec, Inc. Project location: 7 Briarcliff Ln., Paxton DEP File # :

- Check all that apply:
- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
  - Vegetation and other indications 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: Upland	Transect Number: A-5	Date of Delineation: 9/8/16		
A. Sample Layer and Plant Species (by common/scientific name)		B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category *	
Tree	black cherry red maple norway maple	<i>Prunus serotina</i> <i>Acer rubrum</i> <i>Acer platanoides</i>	40% 30% 30%	40% 30% 30%	yes yes yes	FACU FAC* NL
Sapling	norway maple	<i>Acer platanoides</i>	30%	100%	yes	NL
Shrub	norway maple silky dogwood	<i>Acer platanoides</i> <i>Cornus amomum</i>	10% 5%	67% 33%	yes yes	NL FACW*
Ground Cover	none					

\*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 conclusions:**  
 Number of dominant wetland indicator plants: 2      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



Paxton, 7 Briarcliff Ln.-Upland

Section II. Indicators of Hydrology

Other Indications of Hydrology: (check all that apply and 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 BWW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_
- Other: \_\_\_\_\_

1. Soil Survey

Is there a published soil survey for this site? -

title/date: -  
 map number: -  
 soil type mapped: -  
 hydric soil inclusions: -

Are field observations consistent with soil survey? -

Remarks: -

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottle Color
---------	----------------	--------------	--------------

A	0-4	10YR 3/2	
Bw	4-14+	10YR 4/6	

Remarks: fine sandy loam

3. Other:

Conclusion: Is soil Hydric? no

Vegetation and Hydrology Conclusion	yes	no
Number of wetland indicator plants ≥ number of non-wetland indicator plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wetland hydrology present:		
hydric soil present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
other indicators of hydrology present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample location is in a BWW	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

Applicant: Prepared by: EcoTec, Inc. Project location: Paxton, 7 Briarcliff Ln DEP File # :

- Check all that apply:
- Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
  - Vegetation and other indications 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: Wetland	Transect Number: A-5	Date of Delineation: 9/8/16	
A. Sample Layer and Plant Species (by common/scientific name)		B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category *
Tree	red maple black cherry	50% 10%	83% 17%	yes no	FAC* NL
Sapling	none				
Shrub	green ash norway maple	20% 20%	50% 50%	yes yes	FACW* NL
Ground Cover	jewelweed cinnamon fern sensitive fern virginia creeper	40% 30% 20% 10%	40% 30% 20% 10%	yes yes yes no	FACW* FACW* FACW* FACU

\*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 conclusions:**  
 Number of dominant wetland indicator plants: 5      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?      yes

**Paxton, 7 Briarcliff Ln- Wetland**

**Section II. Indicators of Hydrology**

**1. Soil Survey**

Is there a published soil survey for this site? -

title/date: -  
map number: -  
soil type mapped: -  
hydric soil inclusions: -

Are field observations consistent with soil survey? -

Remarks: -

**2. Soil Description**

Horizon Depth (inches) Matrix Color Mottle Color

A 0-12 10YR 2/1  
Bg 12-16+ 10YR 6/1

Remarks: mucky loam

3. Other:

Conclusion: Is soil Hydric? yes

Other Indications of Hydrology: (check all that apply and 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 BWW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded data (stream, lake, or tidal gauge; aerial photo; other): \_\_\_\_\_
- Other: \_\_\_\_\_

**Vegetation and Hydrology Conclusion**

- |  |                                     |                                     |
|--|-------------------------------------|-------------------------------------|
|  | yes                                 | no                                  |
| Number of wetland indicator plants<br>≥ number of non-wetland indicator plants | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| Wetland hydrology present:   |                                     |                                     |
| hydric soil present  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| other indicators of hydrology present  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Sample location is in a BWW  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

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

# EcoTec, Inc.

## ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street

Worcester, MA 01605-2629

508-752-9666 – Fax: 508-752-9494

### **Scott M. Morrison, PWS, RPSS, SE** **Senior Environmental Scientist**

Scott Morrison is a Senior Environmental Scientist with EcoTec, Inc. Since joining EcoTec in 2000, Mr. Morrison's project experience include wetland resource evaluation, delineation, and permitting at the local, state, and federal levels; wildlife habitat evaluation; pond and stream evaluation; vernal pool evaluation, monitoring, and certification; wetland replacement, replication, and restoration area design, construction, and monitoring; soil evaluations to determine infiltration rates and seasonal high groundwater elevations for detention basin construction; environmental sampling and analysis tasks, including soil and groundwater sample collection and handling; and expert testimony preparation. He has conducted rare species habitat assessments for the eastern box turtle, wood turtle, Blanding's turtle, spotted turtle, and marbled salamander. He has participated in rare species studies for rare species including the marbled salamander, piping plover, eastern box turtle, and northern diamondback terrapin and developed mitigation strategies for the marbled salamander, spotted turtle, eastern box turtle and wood turtle. He has participated in visual preconstruction sweeps for the wood turtle and both preconstruction and research projects for the eastern box turtle. He has served as a consultant to municipalities, conservation commissions, engineering and survey firms. He has completed numerous wetland related projects including environmental impact assessments for proposed development, erosion control and environmental monitoring for subdivisions, commercial developments, golf courses and landfills. He has prepared Massachusetts Environmental Policy Act (MEPA) documentation, including Environmental Notification Forms (ENFs), Notice of Project Changes (NPCs), and Draft and Final Environmental Impact Reports (EIRs) including Green House Gas Assessments for various projects including subdivisions, commercial buildings, and dredging projects. Prior to joining EcoTec, Inc. Mr. Morrison worked for the Massachusetts Department of Environmental Management (currently the Department of Conservation and Recreation) where he was involved with the monitoring and protection of endangered species and rare old growth forest. He was an active member of the Spencer Conservation Commission from 1998 to 2000 where he provided oversight of proposed wetland replication projects and review of projects submitted for wetland permitting. His educational background includes courses in forestry, ecology, chemistry, soils, and natural resource policy. His prior research experience includes research on forest succession and field research on nesting piping plovers, an endangered coastal shore bird.

#### **Education:**

Graduate Soil Science Certificate Program  
University of Massachusetts at Amherst, 2006  
Bachelor of Science: Natural Resource Studies  
University of Massachusetts at Amherst, 1998  
Associate of Science: Business Administration  
Quinsigamond Community College, 1996

#### **Professional Affiliations:**

Registered Professional Soil Scientist, Society of Soil Scientists of  
Southern New England (SSSSNE)  
Massachusetts Association of Conservation Commissioners  
Association of Massachusetts Wetland Scientists  
Society of Wetland Scientists

#### **Certifications:**

Society of Wetlands Scientists Professional Wetland Scientist,  
Certification Number 2583  
Massachusetts Department of Environmental Protection Soil Evaluator,  
Certification Number SE 13766



