



**Massachusetts Department of Environmental Protection**  
**Bureau of Resource Protection - Wetlands**  
**WPA Form 4A – Abbreviated Notice of**  
**Resource Area Delineation**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Newbury  
 City/Town

**A. General Information**

1. Project Location (**Note:** electronic filers will click on button for GIS locator):

55 Pearson Drive	Newbury	01922
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	42.760068	-70.929991
	d. Latitude	e. Longitude
R-20	75	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

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



2. Applicant:

Walter	Erickson
a. First Name	b. Last Name
Cricket Road Development LLC	
c. Organization	
92 Middlesex Road	
d. Mailing Address	
Tyngsboro	MA
e. City/Town	f. State
508-509-5220	01879
h. Phone Number	g. Zip Code
	awc.walter@comcast.net
i. Fax Number	j. Email Address

3. Property owner (if different from applicant):

	<input type="checkbox"/> Check if more than one owner (attach additional sheet with names and contact information)
a. First Name	b. Last Name
Pike Development	
c. Organization	
1 Ashley Lane	
d. Mailing Address	
Merrimac	MA
e. City/Town	f. State
	01860
	g. Zip Code
h. Phone Number	i. Fax Number
	j. Email Address

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

4. Representative (if any):

Benjamin C.	Osgood Jr. PE
a. Contact Person First Name	b. Contact Person Last Name
Ranger Engineering & Design LLC	
c. Organization	
13 Branch St. Suite 101	
d. Mailing Address	
Methuen	MA
e. City/Town	f. State
978-208-1762	01844
h. Phone Number	g. Zip Code
	bosgood@rangereng.com
i. Fax Number	j. Email Address

Fees will be calculated for online users.

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

2000.00	987.50	1012.50
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



**Massachusetts Department of Environmental Protection**  
Bureau of Resource Protection - Wetlands

**WPA Form 4A – Abbreviated Notice of  
Resource Area Delineation**

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Newbury  
City/Town

## B. Area(s) Delineated

1. Bordering Vegetated Wetland (BVW) Linear Feet of Boundary Delineated
2. Check all methods used to delineate the Bordering Vegetated Wetland (BVW) boundary:
  - a.  MassDEP BVW Field Data Form (attached)
  - b.  Other Methods for Determining the BVW boundary (attach documentation):
    1.  50% or more wetland indicator plants
    2.  Saturated/inundated conditions exist
    3.  Groundwater indicators
    4.  Direct observation
    5.  Hydric soil indicators
    6.  Credible evidence of conditions prior to disturbance
3. Indicate any other resource area boundaries that are delineated:
 

BVW	2000
a. Resource Area	b. Linear Feet Delineated
Isolated Land Subject to Flooding	500
c. Resource Area	d. Linear Feet Delineated

## C. Additional Information

Applicants must include the following plans with this Abbreviated Notice of Resource Area Delineation. 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.  ANRAD (Delineation Plans only)
2.  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.)
3.  Plans identifying the boundaries of the Bordering Vegetated Wetlands (BVW) (and/or other resource areas, if applicable).
4.  List the titles and final revision dates for all plans and other materials submitted with this Abbreviated Notice of Resource Area Delineation.



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Form 4A – Abbreviated Notice of**  
**Resource Area Delineation**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

**Newbury**  
City/Town

**D. Fees**

The fees for work proposed under each Abbreviated Notice of Resource Area Delineation must be calculated and submitted to the Conservation Commission and the Department (see Instructions and Wetland Fee Transmittal Form).

- 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 the attached Wetland Fee Transmittal Form) to confirm fee payment:

- |                                     |                                   |
|-------------------------------------|-----------------------------------|
| 11430                               | 5/13/2019                         |
| 2. Municipal Check Number           | 3. Check date                     |
| 11431                               | 5/13/2019                         |
| 4. State Check Number               | 5. Check date                     |
| <b>Applewood Construction Corp.</b> |                                   |
| 6. Payor name on check: First Name  | 7. Payor name on check: Last Name |



**Massachusetts Department of Environmental Protection**  
Bureau of Resource Protection - Wetlands

**WPA Form 4A – Abbreviated Notice of  
Resource Area Delineation**  
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Newbury  
City/Town

**E. Signatures**

I certify under the penalties of perjury that the foregoing Abbreviated Notice of Resource Area Delineation 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 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.

I hereby grant permission, to the Agent or member of the Conservation Commission and the Department of Environmental Protection, to enter and inspect the area subject to this Notice at reasonable hours to evaluate the wetland resource boundaries subject to this Notice, and to require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.

I acknowledge that failure to comply with these certification requirements is grounds for the Conservation Commission or the Department to take enforcement action.

1. Signature of Applicant

3. Signature of Property Owner (if different)

5. Signature of Representative (if any)

2. Date

4. Date

6. Date

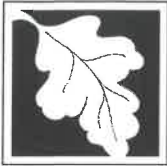
**For Conservation Commission:**

Two copies of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; two copies of the ANRAD Wetland Fee Transmittal Form; and the city/town fee payment must be sent to the Conservation Commission by certified mail or hand delivery.

**For MassDEP:**

One copy of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; one copy of the ANRAD Wetland Fee Transmittal Form; and a copy of the state fee payment must be sent to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery. (E-filers may submit these electronically.)

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  
**ANRAD 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:

55 Pearson Drive	Newbury
a. Street Address	b. City/Town
987.50	11431
c. Fee amount	d. Check number

2. Applicant:

Walter	Erickson	Cricket Road Development
a. First Name	b. Last Name	LLC
92 Middlesex Road		
d. Mailing Address		
Tyngsboro	MA	01879
e. City/Town	f. State	g. Zip Code
508-509-5220		
h. Phone Number		

3. Property Owner (if different):

		Pike Development, LLC
a. First Name	b. Last Name	c. Company
1 Ashley Lane		
d. Mailing Address		
Merrimac	MA	01860
e. City/Town	f. State	g. Zip Code
h. Phone Number		

**B. Fees**

The fee is calculated as follows for each Resource Area Delineation included in the ANRAD (check applicable project type). The maximum fee for each ANRAD, regardless of the number of Resource Area Delineations, is \$200 activities associated with a single-family house and \$2,000 for any other activity.

**Bordering Vegetated Wetland Delineation Fee:**

1. <input type="checkbox"/>	single family house project	a. feet of BVW	x \$2.00 =	b. Fee for BVW
2. <input checked="" type="checkbox"/>	all other projects	2000	4,000	2000.00
		a. feet of BVW	x \$2.00 =	b. Fee for BVW

**Other Resource Area (e.g., bank, riverfront area, etc.):**

3. <input type="checkbox"/>	single family house project	a. linear feet	x \$2.00 =	b. Fee
4. <input checked="" type="checkbox"/>	all other projects	500	1,000	0.0
		a. linear feet	x \$2.00 =	b. Fee

Total Fee for all Resource Areas: 2000.00

Fee

987.50

State share of filing fee:

5. 1/2 of total fee less \$12.50

1012.50

City/Town share of filing fee:

6. 1/2 of total fee plus \$12.50



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

---

**C. Submittal Requirements**

- a.) Send a copy of this form, with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts, to:

Department of Environmental Protection  
Box 4062  
Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Abbreviated Notice of Resource Area Delineation; a **copy** of this form; and the city/town fee payment.
- c.) **To DEP Regional Office:** Send one copy of the Abbreviated Notice of Resource Area Delineation (and any additional documentation required as part of a Simplified Review Buffer Zone Project); a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)



**APPLEWOOD CONSTRUCTION CORP.**  
 92 MIDDLESEX RD., UNIT 3  
 TYNGSBORO, MA 01879  
 978-649-2727

11430

53-7133/2113

DATE 5/13/19

Pay to the order of Town of Newbury

\$ 3012.50/xx

Three thousand twelve and 50/xx



**LowellFive**  
 LOWELL, MASSACHUSETTS 01851

FOR Byfield Estates

*[Signature]*

001

04



**APPLEWOOD CONSTRUCTION CORP.**  
 92 MIDDLESEX RD., UNIT 3  
 TYNGSBORO, MA 01879  
 978-649-2727

11431

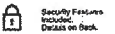
53-7133/2113

DATE 5/13/19

Pay to the order of Commonwealth of Massachusetts

\$ 987.50/xx

Nine hundred eighty seven and 50/xx



**LowellFive**  
 LOWELL, MASSACHUSETTS 01851

FOR Byfield Estates

*[Signature]*

001

04



# US QUADRANGLE MAP

55 PEARSON DRIVE NEWBURY, MA

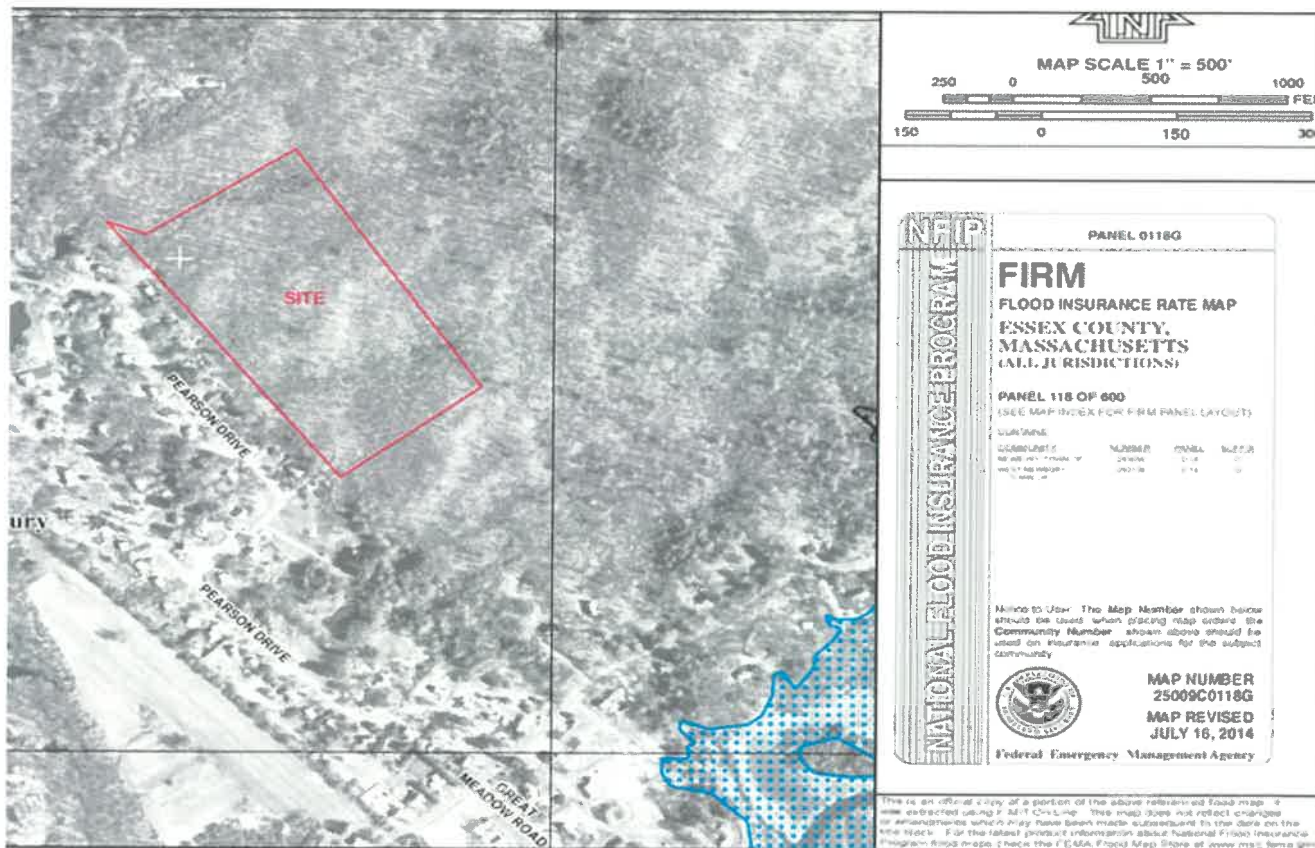






# FLOOD INSURANCE RATE MAP

55 PEARSON DRIVE NEWBURY, MA



**NATURAL HERITAGE MAP**

**55 PEARSON DRIVE NEWBURY, MA**







## Wetland Resource Delineation and Evaluation

55 Pearson Drive  
Byfield, MA  
February 17, 2016

### Introduction and Methods

The project site is an approximately 16.3 acre parcel located at 55 Pearson Drive in the Byfield section of Newbury, MA and is located in Figure 1 below. The site contains one single family residence and the remainder is forested.

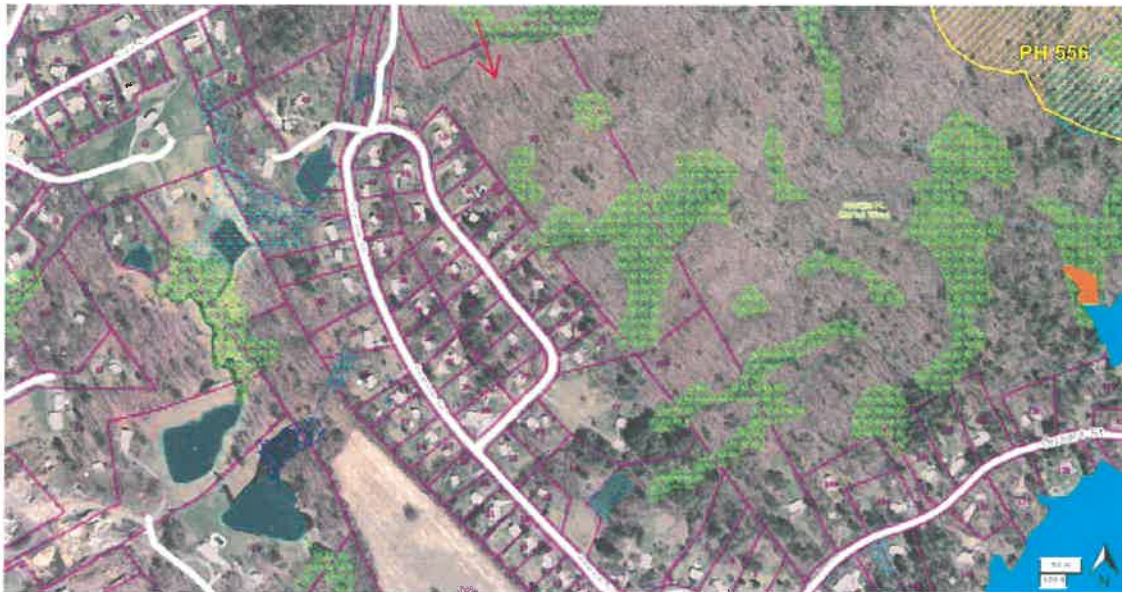


Fig. 1 MassGIS Wetlands Mapping

Field inspection of the project site was conducted by Rimmer Environmental Consulting, LLC (REC) on December 7, 2015 and January 22, 2016 for the purposes of evaluating the location and extent of wetland resources subject to jurisdiction under the Massachusetts Wetlands Protection Act (MGL Ch. 131 s. 40).

Wetlands were delineated in accordance with the procedures established in the Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00). Numbered sequences of were placed in the field to identify the limit of wetland resource areas. Wetlands were delineated primarily based upon the presence of 50% or more wetland vegetation, though other indicators of hydrology, including hydric soil were also evaluated. DEP Delineating Bordering Vegetated Wetlands Field Data Forms are included as an attachment to provide additional documentation of the wetland boundary.

## Findings

The following wetland resource areas were determined to be present on and adjacent to the project area:

### 1. Bordering Vegetated Wetland (BVW)

Flags C1-C23 delineate a forested wetland which covers most of the southeastern portion of the project site. It consists of a red maple (*Acer rubrum*) and ironwood (*Carpinus caroliniana*) overstory with oak (*Quercus spp.*) and white pine (*Pinus strobus*) in the adjacent upland. There may be additional upland areas south of the C-series wetland within the project site, but this southernmost portion of the site was not inspected for purposes of this project.

Flags D1-D22 and E1-E23 delineate a forested wetland associated with an unnamed intermittent stream in the northwesterly portion of the project site. Vegetation is similar to the above wetlands, with the addition of green ash (*Fraxinus pensylvanica*) in the overstory and sensitive fern (*Onoclea sensibilis*) as ground cover.

### 2. Isolated Vegetated Wetland

Flags A1-23 delineate a scrub-shrub/forested wetland in the southwestern portion of the site. This wetland is dominated by red maple and ironwood in the canopy and adjacent upland areas consist of mixed oak and pine forest. The A-series wetland does not border on another waterbody or waterway and therefore does not qualify as BVW. It may be large enough to qualify as an Isolated Land Subject to Flooding (ILSF) if survey shows that it holds the minimum ¼ acre feet of flood storage volume. This wetland was observed to contain seasonal ponding and may function as vernal pool habitat, though this could not be confirmed at the time of the inspection. If it is ILSF there is no associated 100-foot buffer zone associated with this resource.

Flags B1-B5 delineate a second, smaller isolated wetland between the A and C-series wetlands described above. It also lacks a waterbody or waterway connection and therefore does not qualify as BVW. It is also too small to hold the minimum ¼ acre feet of flood storage for designation as ILSF. It was therefore determined to be non-jurisdictional under state regulation.

Both the A and B series wetlands as well as the C, D and E series qualify as federally jurisdictional wetland due to their proximity to other wetlands.

### 3. Other Resources

The site is not located within Estimated Habitat of Rare Wetlands Wildlife and Priority Habitat and does not contain certified vernal pools, as determined by reference to Massachusetts Division of Fisheries and Wildlife – Natural Heritage and Endangered Species Program (NHESP) data available on MassGIS.

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

Applicant: \_\_\_\_\_ Prepared by: Rimmer Environmental Project location: Pearson Dr. Byfield DEP File #: \_\_\_\_\_

Check all that apply:

- Vegetation alone presumed adequate 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: wet Transect number: C13 Date of delineation: 1/22/16

A. Sample layer and plant species (by common name/scientific name)	B. Percent cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree				
red maple/Acer rubrum	20.5	35	Y	FAC*
ironwood/Carpinus caroliana	38	65	Y	FAC*
shrub				
spicebush/Lindera benzoin	10.5	22	Y	FACW
red maple/Acer rubrum	38	78	Y	FAC*
Groundcover				
sensitive fern/Onoclea sensibilis	10.5	11	N	FACW
poison ivy/Toxicodendron radicans	85.5	89	Y	FAC*

Use an asterisk to mark wetland indicator plants: species listed in the Wetlands Protection Act (MGL c. 131, s. 40); plants in the genus *Sphagnum*; plants listed as FAC, 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: 5** **Number of dominant non-wetland plants: 0**

**Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants?**  **yes**  **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*

MADEP, 3/95



**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

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?  yes  no  
 Remarks:

2. Soil description

Horizon	Depth	Matrix Color	Mottles Color
A	0-2	2.5Y 2/1	
B	2-8	2.5Y 4/2	10YR 5/8

Remarks

3. Other rocky, refusal

Conclusion: Is soil hydric?  yes  no

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

- Site inundated: \_\_\_\_\_
- Depth to free water in observation hole: \_ \_\_\_\_\_
- Water marks: \_\_\_\_\_
- Drift lines: \_\_\_\_\_
- Sediment deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- Oxidized rhizospheres: \_\_\_\_\_
- Water-stained leaves: \_\_\_\_\_
- Recorded data(stream, lake, or tidal gauge; aerial photo, other): \_\_\_\_\_
- Other: \_\_\_\_\_

**Vegetation and Hydrology Conclusion**

	Yes	No
<b>Number of wetland indicator plants</b> <b>≥ number of non-wetland indicator plants:</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Wetland hydrology present:</b> <b>Hydric soil present</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Other indicators of hydrology present:</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Sample location is in a BVW</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Applicant: \_\_\_\_\_ Prepared by: Rimmer Environmental Project location: Pearson Dr. Byfield DEP File #: \_\_\_\_\_

Check all that apply:

- Vegetation alone presumed adequate 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: upl Transect number: C13 Date of delineation: 1/22/16

A. Sample layer and plant species (by common name/scientific name)	B. Percent cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree				
white pine/Pinus strobus	20.5	35	Y	FACU
red oak/Quercus rubra	38	65	Y	FACU
Sapling				
white oak/Quercus alba	20.5	50	Y	FACU
red maple/Acer rubrum	20.5	50	Y	FAC*
shrub				
hop hombeam/Ostrya virginiana	38	100	Y	FACU

Use an asterisk to mark wetland indicator plants: species listed in the Wetlands Protection Act (MGL c. 131, s. 40); plants in the genus *Sphagnum*; plants listed as FAC, 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: **1** Number of dominant non-wetland plants: **4**

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants?  yes  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*

MADEP, 3/95

**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

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?  yes  no  
 Remarks:

2. Soil description

Horizon	Depth	Matrix Color	Mottles Color
A	0-2	2.5Y 2/2	
B	2-6	2.5Y 4/3	

Remarks

3. Other rocky, refusal

Conclusion: Is soil hydric?  yes  no

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

- Site inundated: \_\_\_\_\_
- Depth to free water in observation hole: \_ \_\_\_\_\_
- Water marks: \_\_\_\_\_
- Drift lines: \_\_\_\_\_
- Sediment deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- 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 ≥ 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 BVW	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Applicant: \_\_\_\_\_ Prepared by: Rimmer Environmental Project location: Pearson Dr. Byfield DEP File #: \_\_\_\_\_

Check all that apply:

- Vegetation alone presumed adequate 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: wet Transect number: D18 Date of delineation: 1/22/16

A. Sample layer and plant species (by common name/scientific name)	B. Percent cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree				
red maple/Acer rubrum	10.5	100	Y	FAC*
Sapling				
green ash/Fraxinus pensylvanica	10.5	100	Y	FACW*
shrub				
ironwood/Carpinus caroliniana	10.5	100	Y	FAC*
groundcover				
sensitive fern/Onoclea sensibilis	20.5	100	Y	FACW*

Use an asterisk to mark wetland indicator plants: species listed in the Wetlands Protection Act (MGL c. 131, s. 40); plants in the genus *Sphagnum*; plants listed as FAC, 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: 4** **Number of dominant non-wetland plants: 0**

**Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants?**  **yes**  **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*

MADEP: 3/95

**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

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?  yes  no  
 Remarks:

2. Soil description

Horizon	Depth	Matrix Color	Mottles Color
A	0-2	2.5Y 2/1	
B	2-10	2.5Y 4/2	

Remarks

3. Other rocky, refusal

Conclusion: Is soil hydric?  yes  no

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

- Site inundated: \_\_\_\_\_
- Depth to free water in observation hole: 6" \_\_\_\_\_
- Water marks: \_\_\_\_\_
- Drift lines: \_\_\_\_\_
- Sediment deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- 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 ≥ 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 checked="" type="checkbox"/>	<input type="checkbox"/>
Sample location is in a BVW	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Applicant: \_\_\_\_\_ Prepared by: Rimmer Environmental Project location: Pearson Dr. Byfield DEP File #: \_\_\_\_\_

Check all that apply:

- Vegetation alone presumed adequate 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: up1 Transect number: D18 Date of delineation: 1/22/16

A. Sample layer and plant species (by common name/scientific name)	B. Percent cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Tree				
white oak/ <i>Quercus alba</i>	63	100	Y	FACU
Shrub				
lowbush blueberry/ <i>Vaccinium angustifolium</i>	10.5	34	Y	FACU
hop hornbeam/ <i>Ostrya virginiana</i>	20.5	66	Y	FACU

Use an asterisk to mark wetland indicator plants: species listed in the Wetlands Protection Act (MGL c. 131, s. 40); plants in the genus *Sphagnum*; plants listed as FAC, 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: **0** Number of dominant non-wetland plants: **3**  
 Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants?  yes  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 MADEP, 3/95



**Section II. Indicators of Hydrology**

**Hydric Soil Interpretation**

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?  yes  no  
 Remarks:

2. Soil description

Horizon	Depth	Matrix Color	Mottles Color
A	0-3	2.5Y 2/2	
B	3-16	2.5Y 5/4	

Remarks

3. Other

Conclusion: Is soil hydric?  yes  no

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

- Site inundated: \_\_\_\_\_
- Depth to free water in observation hole: \_ \_\_\_\_\_
- Water marks: \_\_\_\_\_
- Drift lines: \_\_\_\_\_
- Sediment deposits: \_\_\_\_\_
- Drainage patterns in BVW: \_\_\_\_\_
- 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 ≥ 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 BVW	<input type="checkbox"/>	<input checked="" type="checkbox"/>