

Abbreviated Notice of Resource Area Delineation

0 Washington Street
Boxford, Massachusetts
Assessors Map 9, Block 1, Parcel 6

0 Great Pond Road
North Andover, Massachusetts
Assessors Map 103, Parcel 3

October 15, 2018

Applicant:

Brooks School
1160 Great Pond Road
North Andover, MA 01845

Prepared By:

Williams & Sparages, LLC
189 North Main Street
Middleton, MA 01949
Ph: 978-539-8088
Fax: 978-539-8200
www.wsengineers.com

W&S Project No:

BOXF-0056





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

Boxford
 City/Town

A. General Information

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

0 Washington Street

a. Street Address

Boxford

b. City/Town

01921

c. Zip Code

Latitude and Longitude:

N 42.70923

d. Latitude

W 71.08003

e. Longitude

Map 9, Block 1

f. Assessors Map/Plat Number

Parcel 6

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:

Paul

a. First Name

Griffin

b. Last Name

Brooks School

c. Organization

1160 Great Pond Road

d. Mailing Address

North Andover

e. City/Town

MA

f. State

01845

g. Zip Code

978-725-6213

h. Phone Number

i. Fax Number

pgriffin@brooksschool.org

j. Email Address

3. Property owner (if different from applicant):

Check if more than one owner (attach additional sheet with names and contact information)

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

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

4. Representative (if any):

Greg

a. Contact Person First Name

Hochmuth

b. Contact Person Last Name

Williams & Sparages, LLC

c. Organization

189 N Main Street

d. Mailing Address

North Andover

e. City/Town

MA

f. State

01845

g. Zip Code

(978) 539-8088

h. Phone Number

(978) 539-8200

i. Fax Number

ghochmuth@wsengineers.com

j. Email Address

Fees will be calculated for online users.

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

\$182.00

a. Total Fee Paid

\$78.50

b. State Fee Paid

\$103.50

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:

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B. Area(s) Delineated

1. Bordering Vegetated Wetland (BVW) 91
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:

<u>Bordering Vegetated Wetland</u>	<u>91</u>
a. Resource Area	b. Linear Feet Delineated
_____	_____
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.



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Provided by MassDEP:

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Boxford
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:

20846 _____

2. Municipal Check Number

10/12/2018 _____

3. Check date

20804 _____

4. State Check Number

10/12/2018 _____

5. Check date

Brooks School _____

6. Payor name on check: First Name

7. Payor name on check: Last Name



BROOKS SCHOOL
 1160 GREAT POND ROAD
 NORTH ANDOVER, MA 01845
 (978) 725-6321

FIRST REPUBLIC BANK
 160 FEDERAL STREET - FLOOR 8
 BOSTON, MA 02110
 11-8166/3210



20847

CHECK DATE
 10/12/2018

CHECK NO.
 20847

Two hundred and 00/100 Dollars

CHECK AMOUNT
 \$** 200.00

PAY

TO THE
 ORDER
 OF

TOWN OF BOXFORD

TWO SIGNATURES IF OVER \$10,000
 VOID AFTER 180 DAYS

[Signature]

AUTHORIZED SIGNATURE

MP

⑈020847⑈ ⑆321081669⑆ 80001826313⑈

SECURITY FEATURES INCLUDE TRUE WATERMARK AND HEAT SENSITIVE ICON



BROOKS SCHOOL
 1160 GREAT POND ROAD
 NORTH ANDOVER, MA 01845
 (978) 725-6321

FIRST REPUBLIC BANK
 160 FEDERAL STREET - FLOOR 8
 BOSTON, MA 02110
 11-8166/3210



20846

CHECK DATE
 10/12/2018

CHECK NO.
 20846

One hundred three and 50/100 Dollars

CHECK AMOUNT
 \$** 103.50

PAY

TO THE
 ORDER
 OF

TOWN OF BOXFORD

TWO SIGNATURES IF OVER \$10,000
 VOID AFTER 180 DAYS

[Signature]

AUTHORIZED SIGNATURE

MP

⑈020846⑈ ⑆321081669⑆ 80001826313⑈

SECURITY FEATURES INCLUDE TRUE WATERMARK AND HEAT SENSITIVE ICON



BROOKS SCHOOL
 1160 GREAT POND ROAD
 NORTH ANDOVER, MA 01845
 (978) 725-6321

FIRST REPUBLIC BANK
 160 FEDERAL STREET - FLOOR 8
 BOSTON, MA 02110
 11-8166/3210



20804

CHECK DATE
 10/12/2018

CHECK NO.
 20804

Seventy eight and 50/100 Dollars

CHECK AMOUNT
 \$** 78.50

PAY

TO THE
 ORDER
 OF

COMMONWEALTH OF MASSACHUSETTS

TWO SIGNATURES IF OVER \$10,000
 VOID AFTER 180 DAYS

[Signature]

AUTHORIZED SIGNATURE

MP

⑈020804⑈ ⑆321081669⑆ 80001826313⑈



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

Boxford
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.



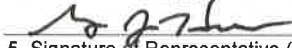
1. Signature of Applicant



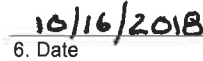
2. Date

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 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:

0 Washington Street Boxford
 a. Street Address b. City/Town
\$78.50 20804
 c. Fee amount d. Check number

2. Applicant:

Paul Griffin Brooks School
 a. First Name b. Last Name c. Company
1160 Great Pond Road
 d. Mailing Address
North Andover MA 01845
 e. City/Town f. State g. Zip Code
978-725-6213
 h. Phone Number

3. Property Owner (if different):

 a. First Name b. Last Name c. Company

 d. Mailing Address

 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	<u> </u>	x \$2.00 =	<u> </u>	b. Fee for BVW
2. <input checked="" type="checkbox"/>	all other projects	<u>91</u>	<u>\$182.00</u>	<u>\$182.00</u>	<u>\$182.00</u>
		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	<u> </u>	x \$2.00 =	<u> </u>	b. Fee
4. <input type="checkbox"/>	all other projects	<u> </u>	x \$2.00 =	<u> </u>	b. Fee

Total Fee for all Resource Areas: \$182.00
 Fee
 State share of filing fee: \$78.50
 5. 1/2 of total fee less \$12.50
 City/Town share of filing fee: \$103.50
 6. 1/2 of total fee plus \$12.50

Online users: check box if fee exempt.



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.)

#0 Washington Street, Boxford, MA

#0 Great Pond Road, North Andover, MA

ANRAD Narrative

The subject property is approximately 31.3 acres in size with land in both Boxford and North Andover. The property is owned by the Brooks School in North Andover and is a wooded drumlin known as Russell Hill. The parcel has frontage on Washington Street in Boxford, Great Pond Road in North Andover as well as Short Street, which is an unimproved right of way that connects Washington Street to Great Pond Road.

According to the NRCS Websoil Survey, the soils of the property are Charlton fine sandy loam.

On the Boxford side of the property an intermittent stream channel was delineated that flows in an east-west direction along the frontage on Washington Street. The intermittent stream channel does not flow from a jurisdictional wetland resource area and does not have a preponderance of hydrophytes along its banks. The intermittent stream flows into a Bordering Vegetated Wetland (BVW), A-Series, to the west in the area where Short Street connects to the Washington Street right of way. A small section of the B & C-Series BVW extends over the town line also. The B & C-Series border on an intermittent stream that flows down Russell Hill in a westerly direction. The B & C-Series sheet flow into the rear yard of 262 Washington Street in Boxford.

The North Andover side of the property contains the remainder of the B & C-Series BVW described above as well as the D-Series & F-Series BVW's and a small Isolated Vegetated Wetland (IVW), E-Series, that is located in the Short Street right of way. The source of hydrology for most of the BVW's and the IVW appear to be the result of hillside seeps that are at or near the surface in the spring and fall.

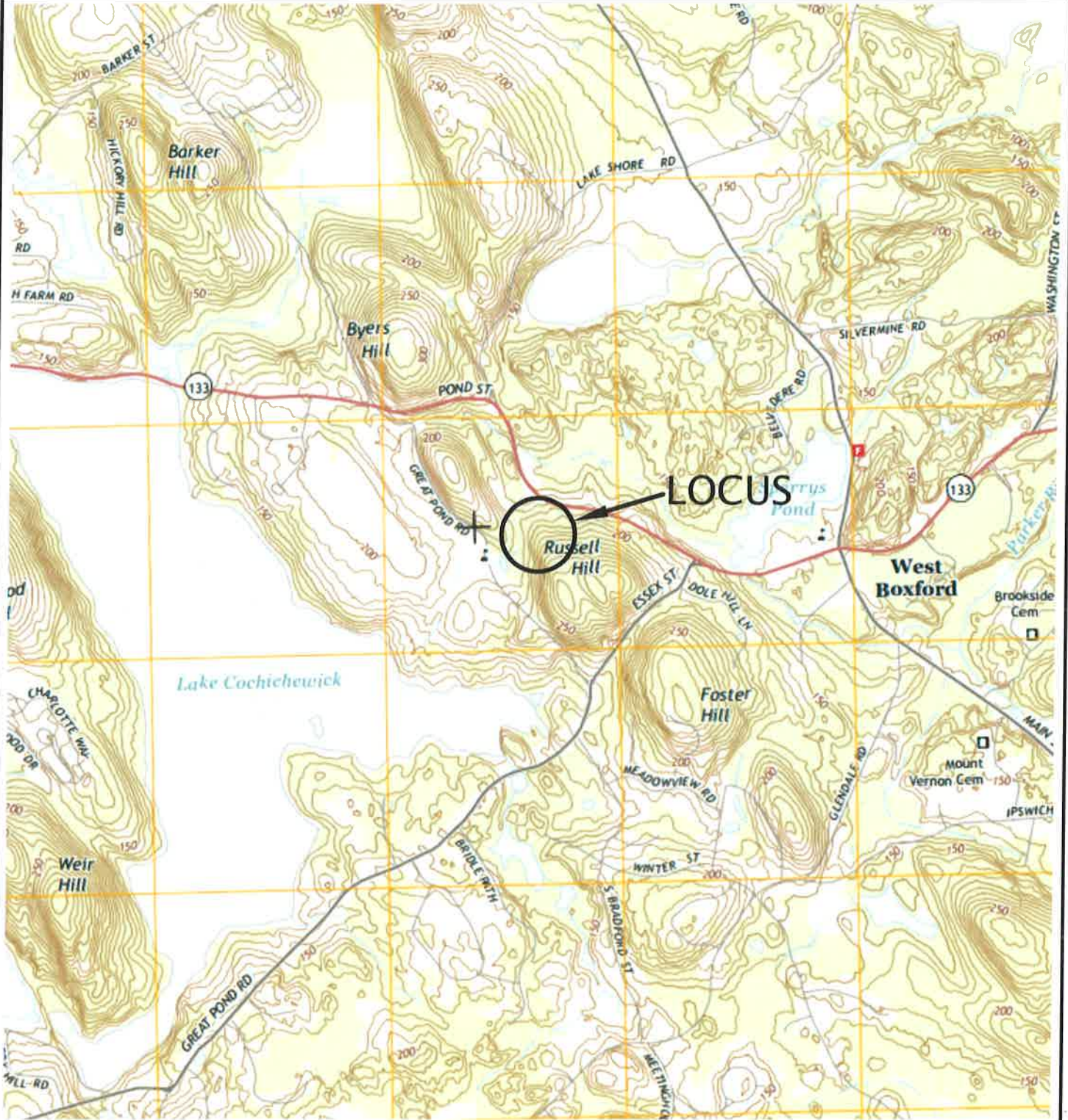
Resource Areas Delineated:

- A-Series BVW – A1 – A10
- B-Series BVW – B1 – B25
- C-Series BVW – C1 – C13
- D-Series BVW – D1 – D18
- E-Series IVW – E1 – E9
- F-Series BVW – F1 – F14

WILLIAMS & SPARAGES
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
SOUTH GROVELAND, MASS QUAD
SCALE: 1:25,000 (metric contours)

LOCUS MAP
#1160 GREAT POND ROAD
NORTH ANDOVER, MA 01845



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

Applicant: Brooks School Prepared by: Thorsen Akerley Project location: 0 Washington Street 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: WF - A1 Upl	Transect Number: WF - A1 Upland	Date of Delineation: 7/11/2018
A. Sample Layer & 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*			
Trees			
Red Oak – <i>Quercus rubra</i>	20%	29%	YES
American Basswood – <i>Tilia americana</i>	50%	71%	YES
Shrubs			
Multiflora Rose – <i>Rosa multiflora</i>	15%	19%	NO
Glossy Buckthorn - <i>Rhamnus frangula</i>	20%	25%	YES
Burningbush - <i>Euonymus atropurpureus</i>	15%	19%	NO
Canada Goldenrod – <i>Solidago Canadensis</i>	30%	37%	YES
Vines			
Bittersweet – <i>Celastrus orbiculatus</i>	20%	40%	YES
Virginia Creeper – <i>Parthenocissus vquinguetolia</i>	20%	40%	YES
Poison Ivy – <i>Toxicodendron radicans</i>	10%	20%	YES
Ground Cover			
Small Enchanter's Nightshade – <i>Circaea alpine</i>	20%	30%	YES
Virginia Creeper – <i>Parthenocissus vquinguetolia</i>	20%	30%	YES
Sensitive Fern – <i>Onoclea sensibilis</i>	10%	20%	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: 4

Number of dominant non-wetland indicator plants: 6

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: 406C - Charlton
 hydric soil inclusions: Yes, 2%

Are field observations consistent with soil survey? Yes
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-9 9-13	10YR3/2 FSL 10YR6/8 FSL	- -

Remarks:

3. Other:

Conclusion: Is soil hydric? No

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 BWV: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- Other: _____

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 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: Brooks School Prepared by: Thorsen Akerley Project location: 0 Washington Street, 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: WF - A1 Wet	Transect Number: WF - A1 Wetland	Date of Delineation: 7/11/2018	
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	
Trees	E. Wetland Indicator Category*			
Red Oak - <i>Quercus rubra</i>	20%	25%	YES	FACU-
American Basswood - <i>Tilia americana</i>	60%	75%	YES	FACU
Shrubs				
Multiflora Rose - <i>Rosa multiflora</i>	5%	12%	NO	FACU
Glossy Buckthorn - <i>Rhamnus frangula</i>	25%	62%	YES	FAC*
Burningbush - <i>Euonymus atropurpureus</i>	10%	25%	YES	FACU
Vines				
Bittersweet - <i>Celastrus orbiculatus</i>	10%	25%	YES	FACU-
Virginia Creeper - <i>Parthenocissus vitacea</i>	5%	12%	NO	FACU
Poison Ivy - <i>Toxicodendron radicans</i>	25%	62%	YES	FAC*
Ground Cover				
Small Enchanter's Nightshade - <i>Circaea alpina</i>	15%	33%	YES	FACW*
Virginia Creeper - <i>Parthenocissus vitacea</i>	5%	11%	NO	FACU
Sensitive Fern - <i>Onoclea sensibilis</i>	25%	55%	YES	FACW*

* 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: 4

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: 406C - Charlton
 hydric soil inclusions: Yes, 2%

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 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
A	0-6	10 YR 3/2	-
C	6-12	2.5 Y 5/4	7.5 YR 5/8

Remarks: Silt stained leaves, raised roots and sediment deposits in basin areas

3. Other:

Conclusion: Is soil hydric? Yes

Vegetation and Hydrology Conclusion

Number of wetland indicator plants
 ≥ # of non-wetland indicator plants

Yes	No
X	_

Wetland hydrology present:

Hydric soil present

X

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: Brooks School Prepared by: Thorsen Akerley Project location: 0 Washington Street 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: WF- B3 Upl	Transect Number: WF - B3 Upland	Date of Delineation: 7/11/2018
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)
Trees			
American Elm – <i>Ulmus americano</i>	30%	100%	YES
Shrubs			
Multiflora Rose – <i>Rosa multiflora</i>	15%	33%	YES
Glossy Buckthorn - <i>Rhamnus frangula</i>	10%	22%	YES
Burningbush - <i>Euonymus atropurpureus</i>	10%	22%	YES
Vines			
Bittersweet – <i>Celastrus orbiculatus</i>	15%	27%	YES
Virginia Creeper – <i>Parthenocissus vquinquefolia</i>	30%	55%	YES
Poison Ivy – <i>Toxicodendron radicans</i>	10%	18%	NO
Ground Cover			
Small Enchanter's Nightshade – <i>Circaea alpine</i>	30%	37%	YES
Canada Goldenrod – <i>Solidago Canadensis</i>	20%	25%	YES
Virginia Creeper – <i>Parthenocissus vquinquefolia</i>	30%	37%	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: 5

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: 406D Charlton
 hydric soil inclusions: No

Are field observations consistent with soil survey? Yes
 Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-9	10YR3/2 FSL	-
B	9-15	10YR6/8 SL	-

Remarks:

3. Other:

Conclusion: Is soil hydric? No

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: _____

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.

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

Applicant: Brooks School Prepared by: Thorsen Akerley Project location 0 Washington Street, North Andover MA DEP File #: _____
 Check all that apply:

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

Section I.

Vegetation	Observation Plot Number: WF - B3 Wet (or basal Area)	C. Percent Dominance	Transect Number: WF - B3 Wetland	Date of Delineation: 7/11/2018
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*	
Trees				
American Elm – <i>Ulmus americano</i>	30%	100%	YES	FACW-*
Shrubs				
Multiflora Rose – <i>Rosa multiflora</i>	5%	17%	NO	FACU
Glossy Buckthorn - <i>Rhamnus frangula</i>	15%	50%	YES	FAC*
Burningbush - <i>Euonymus atropurpureus</i>	10%	33%	YES	FACU
Vines				
Bittersweet – <i>Celastrus orbiculatus</i>	5%	12%	NO	FACU-
Virginia Creeper – <i>Parthenocissus vquinquefolia</i>	20%	50%	YES	FACU
Poison Ivy – <i>Toxicodendron radicans</i>	15%	37%	YES	FAC*
Ground Cover				
Small Enchanter's Nightshade – <i>Circaea alpine</i>	50%	62%	YES	FACW*
Canada Goldenrod – <i>Solidago Canadensis</i>	10%	12%	NO	FACU
Virginia Creeper – <i>Parthenocissus vquinquefolia</i>	20%	25%	YES	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 conclusion:

Number of dominant wetland indicator plants: 4

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 BWV 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: 406D Charlton
 hydric soil inclusions: Yes, 0%

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 BWL: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded Data (streams, lake, or tidal gauge; aerial photo; other):

- Other: _____

2. Soil Description	Depth	Matrix Color	Mottles Color
O	5-0	10 YR 3/2	-
C	0-2	2.5 Y 5/4	-

Remarks: Standing water, silt stained leaves, raised roots and sediment deposits

3. Other:

Conclusion: Is soil hydric? Yes

Vegetation and Hydrology Conclusion

Number of wetland indicator plants
 ≥ # of non-wetland indicator plants

Yes	No
X	_

Wetland hydrology present:

Hydric soil present	_X_	_
Other indicators of hydrology present	_	_X_

Sample location is in a BWL

X

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

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 an Abbreviated Notice of Resource Area Delineation)

I, Greg J. Hochmuth, hereby certify under the pains and penalties of perjury that on October 17, 2018 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:

An Abbreviated Notice of Resource Area Delineation was filed under the Massachusetts Wetlands Protection Act by Brooks School with the Town of North Andover Conservation Commission & Town of Boxford Conservation Commission on, October 17, 2018 for property located at 0 Great Pond Road, North Andover & 0 Washington Street, Boxford. 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

10/16/2018
Date

Notification to Abutters under the
Massachusetts Wetlands Protection Act

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

- A. The name of the applicant is Brooks School.
- B. The applicant has filed an Abbreviated Notice of Resource Area Delineation, ANRAD, with the conservation Commission for the municipality of Boxford, MA seeking conformation of the delineated jurisdictional wetland resource areas on the property.
- C. The address of the lots is 0 Washington Street, Boxford, MA, Map 9, Block 1, Parcel 6.
- D. Copies of the Notice of Intent, (NOI), may be examined at the offices of Williams & Sparages, between the hours of 8:00am and 4:00pm on the following days of the week: Monday through Friday. For more information, call: (978) 539-8088. This is the applicant's representative.
- E. Copies of the NOI may be obtained from the Boxford Conservation Commission by calling (978) 887-6000 or visiting between the hours of 8:30 am and 2:00pm on the following days of the week: Monday -Thursday or after 2 by appointment.
- F. Information regarding the date, time and place of the public hearing may be obtained from the Boxford Conservation Commission by calling this telephone number (978) 887-6000 between the hours of 8:30am and 2:00pm on the following days of the week: Monday - Thursday, or after 2 by appointment.

Note: Notice of the Public Hearing, including its date, time and place will be published at least five (5) days in advance in the local newspaper.

Note: Notice of the Public Hearing, including its 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:
Northeast Region: 978-694-3200

TOWN OF BOXFORD
ABUTTER LIST
PARCEL # 09-01-06 - WASHINGTON STREET - CONSERVATION COMMISSION 250'

Property ID	Street Address	Owner 1	Owner 2	Mailing Address	City/Town	State	Zip Code
09-01-35-1	265A WASHINGTON ST	OWENS JENNIFER R	CORMIER DEBRA J	265A WASHINGTON ST	BOXFORD	MA	01921
09-01-25	253 WASHINGTON ST	RICHARDS SUSAN		PO BOX 158	W BOXFORD	MA	01885
09-01-06	WASHINGTON ST	BROOKS SCHOOL		1160 GREAT POND RD	NORTH ANDOVER	MA	01845
09-01-06-1	262 WASHINGTON ST	GRIGORYAN ARSEN N	BABAYAN ASTRID K	262 WASHINGTON ST	BOXFORD	MA	01921
09-01-05-2	266 WASHINGTON ST	HOUSTON PETER R	CRABTREE ALLISON B	266 WASHINGTON ST	BOXFORD	MA	01921

PROJECT NUMBER
BOXF-00516

CERTIFIED COPY

[Handwritten Signature]
 August 6, 2018