



OXBOW ASSOCIATES, INC.

Wetlands Delineation and Permitting Wildlife Studies Herpetology Vernal Pool Ecology

Abbreviated Notice of Resource Area Delineation

**Pursuant to the Massachusetts Wetlands
Protection Act M.G.L. c. 131, §40
& the Town of Pepperell Wetlands Protection Bylaw**

**161 Nashua Road
Map 6, Parcel 20-0
Pepperell, Massachusetts**

Submitted by:

**Mass. Composting Group Inc.
2 Linden Street
Reading, MA 01867**

Prepared by:

**Oxbow Associates, Inc.
P.O. Box 971
Acton, MA 01720-0971**

**P 978 929-9058
www.oxbowassociates.com**

January 16, 2019

**Abbreviated Notice of Resource Area Delineation
161 Nashua Road, Pepperell**

**Property Owner: Mass. Composting Group Inc.
2 Linden Street
Reading, MA 01867**

**Applicant: Mass. Composting Group Inc.
2 Linden Street
Reading, MA 01867**

Contents:

WPA Form 4A – Abbreviated Notice of Resource Area Delineation (ANRAD)

ANRAD Wetlands Fee Transmittal Form

Site and Resource Area Description

USGS Locus Map

DEP Delineation Field Data Forms (4)

Copies of Checks

Notification to Abutters

List of Abutters

Affidavit of Service

Plans: Existing Conditions Plan (sheets 1-5) in Pepperell, Massachusetts
Dated December 28, 2018

Plans Prepared by: LandTech Consultants
515 Groton Road
Westford, MA 01885



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

 City/Town

A. General Information

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

 a. Street Address

 b. City/Town

 c. Zip Code

 Latitude and Longitude:

 d. Latitude

 e. Longitude

 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:

 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

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):

 a. Contact Person First Name

 b. Contact Person Last Name

 c. Organization

 d. Mailing Address

 e. City/Town

 f. State

 g. Zip Code

 h. Phone Number

 i. Fax Number

 j. Email Address

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

 a. Total Fee Paid

 b. State Fee Paid

 c. City/Town Fee Paid

Fees will be calculated for online users.



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

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 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:

 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.



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

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:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

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

Pepperell

City/Town


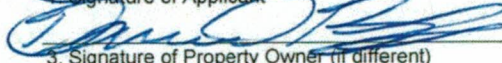
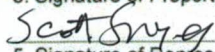
E. Signatures

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 1-15-19
 4. Date 1-15-19
 6. Date 1-15-19

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:

a. Street Address	b. City/Town
c. Fee amount	d. Check number

2. Applicant:

a. First Name	b. Last Name	c. Company
d. Mailing Address		
e. City/Town	f. State	g. Zip Code
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	a. feet of BVW	x \$2.00 =	b. Fee for BVW
2. <input type="checkbox"/> all other projects	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 type="checkbox"/> all other projects	a. linear feet	x \$2.00 =	b. Fee

Total Fee for all Resource Areas: _____
 Fee

State share of filing fee: _____
 5. 1/2 of total fee **less** \$12.50

City/Town share of filing fee: _____
 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.)

ANRAD NARRATIVE
161 Nashua Road
Pepperell MA

January 15, 2019

Site Overview

On behalf of the Applicant, Mass Composing Group, Oxbow Associates, Inc. (OA) has prepared this Abbreviated Notice of Resource Area Delineation (ANRAD) for the parcel located at 161 Nashua Road (Map 6, Parcel 20-0). The applicant requests that the Pepperell Conservation Commission (PCC) confirms the limit of the Bordering Vegetated Wetland located on the site (approximately 870± linear feet), Riverfront (approximately 250± linear feet) area associated with the Nashua River, and Bordering Land Subject to flooding, under both the MA Wetlands Protection Act and the Town of Pepperell Wetlands Protection Bylaw (see Existing Conditions Plan dated December 28, 2018).

This site is located east of Nashua road (Route 111), south of Skydive Pepperell, and west of the Nashua River. The property consists of a single parcel, encompassing approximately 44.5 acres predominantly composed of mixed deciduous forest, early successional forest, maintained fields, and partly overgrown gravel pit. The parcel is largely undeveloped, with the exception of an auto body shop and garage adjacent Nashua Road. The site contains a Bordering Vegetated Wetland (BVW, 10.55: Series A), a Riverfront area with associated Bank (Series B) whose wetland buffer and Riverfront area buffer extend onto the site. The positions of the latter two were traced onto the attached map (Figure 1) using the 2009 Department of Environmental Protection Wetlands Polygons. Additionally, portions of the site contain Bordering Land Subject to Flooding (BLSF, 10.57), which is defined by the 100-year flood zone associated with the Nashua River.

Resource Area Investigation

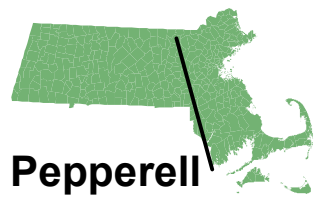
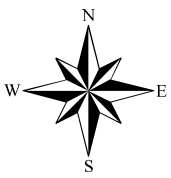
OA (specifically M. Charpentier) investigated resource areas on the site on January 9th, 2018, with approximately 8 inches of snow on the ground, and a subsequent visit on January 24th by which time most snow had melted on the site. This evaluation was conducted in accordance with standard methodology for delineating vegetated wetlands under the Massachusetts Wetlands Protection Act (MGL Ch. 131, §40; the “Act”), and the Town of Pepperell Wetland Protection Bylaw (the “Bylaw”). An additional visit was conducted on October 9th, 2018 during which OA (specifically S. Smyers and M. Charpentier) completed MassDEP BVW Field Data Forms.

OA examined the soil conditions (representative upland soil profile below) and vegetation and delineated one section of a Bordering Vegetated Wetland (BVW: 310 CMR 10.55) with 14 blue plastic flags in a single series (OA A1-A13, with A5B between A5 and A6). The wetland is composed of swamp/shrub swamp, it lacks an inlet and flows off the property from north to south, via an unnamed stream, draining into the Nashua River 0.25 miles away. Soil profiles and vegetative communities are included in the attached DEP wetlands data sheets.

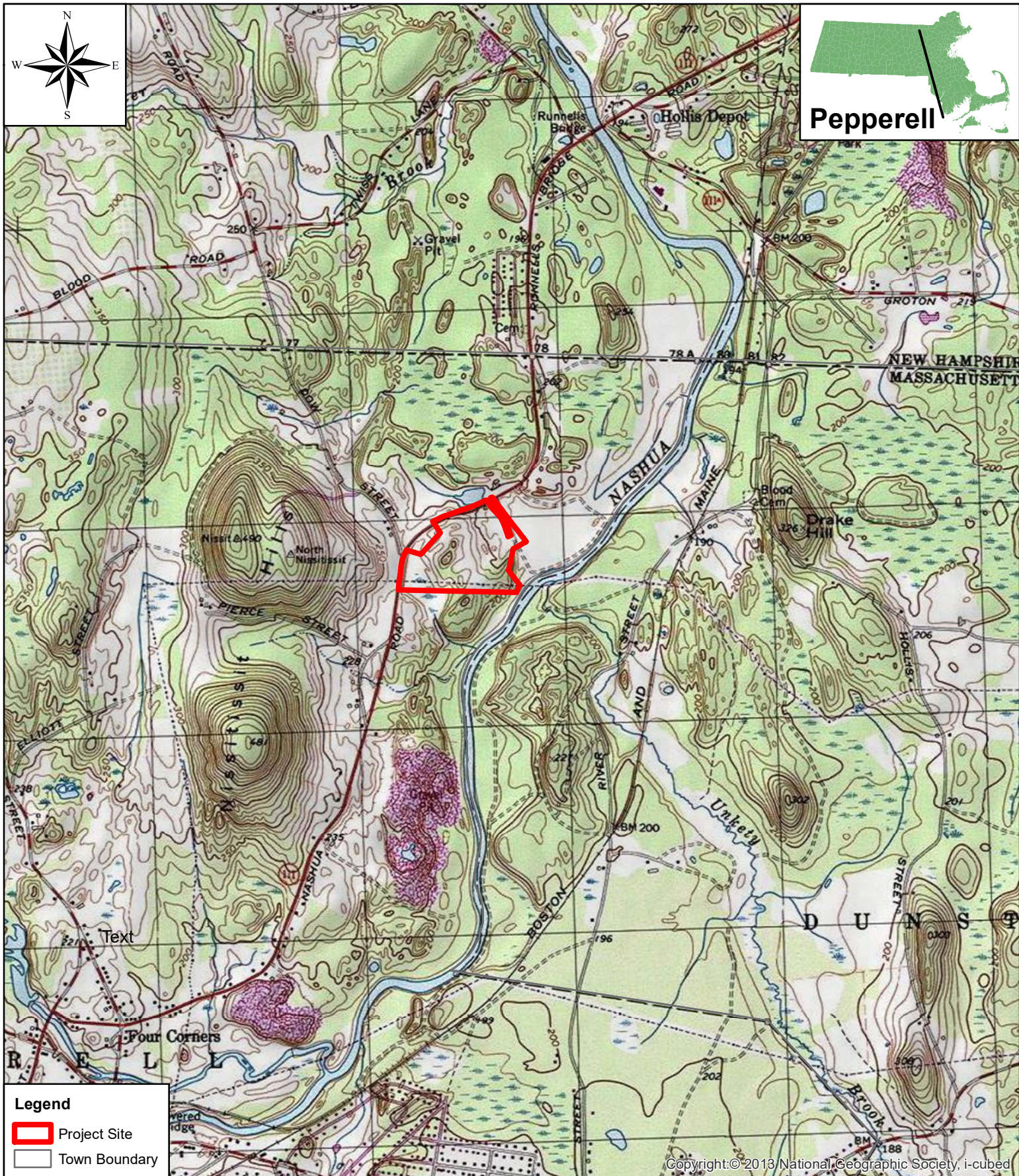
Vegetation within the BVW includes red maple (*Acer rubrum*), winterberry (*Ilex verticillata*), royal fern (*Osmunda regalis*), and various sedges (*Carex* spp.) and grasses (family Poaceae). Upland vegetation includes red oak (*Quercus rubra*), white oak (*Quercus alba*), eastern white pine (*Pinus strobus*), gray birch (*Betula populifolia*), cherry birch (*Betula lenta*), autumn olive (*Elaeagnus umbellata*), sweet-fern (*Comptonia peregrina*), glossy false buckthorn (*Frangula alnus*), and several species of poplar (*Populus* spp).



Additionally, OA delineated a section of Bank (Bank 310 10.54) along the Nashua River with 4 blue plastic flags (OA-B1 to OA-B4). This is also the estimated annual high flow, which constitutes the beginning of the 200-foot Riverfront Area (10.58). In this case, the delineated River is coincident with Bank and its associated 100-foot buffer zone.

We respectfully request the Pepperell Conservation Commission (PCC) confirm the extent of resource area boundaries as delineated.



Pepperell



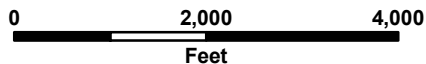
- Legend**
-  Project Site
 -  Town Boundary

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Oxbow Associates, Inc.
 Wetlands Delineation and Permitting
 Wildlife Studies • Herpetology
 Vernal Pool Ecology
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 ACTON, MASSACHUSETTS 01720
 PHONE: (978) 929-9058
 FAX: (978) 635-1892
 WEB: www.oxbowassociates.com

1:24,000

1 inch = 2,000 feet



Site Locus
USGS Topo
161 Nashua Road
Pepperell, MA

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

Applicant: Mass Composting Group, Inc Prepared by: J. Shuster of Oxbow Assoc. Project location: 161 Nashua St (Parcel 6-20-0) DEP File #:

Check all that apply: Pepperell, MA

- 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. Veg. Observation Plot #: UPL 1 (± 10 ft Upslope from midpt flags A11.1 and A12) **Transect #: 1** **Date of Delin:** 1/9/2018 and 10/9/18

A. Sample Layer and Plant Species Common Name	Scientific Name	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Ground					
lowbush blueberry	<i>Vaccinium angustifolium</i>	10.5	63.6%	Y	FACU-
black oak	<i>Quercus velutina</i>	3.0	18.2%	N	UPL
witch-hazel	<i>Hamamelis virginiana</i>	3.0	18.2%	N	FACU
white pine	<i>Pinus strobus</i>	trace	NA	N	FACU
white ash	<i>Fraxinus americana</i>	trace	NA	N	FACU
poison sumac	<i>Toxicodendron vernix</i>	trace	NA	N	OBL
Shrub					
European buckthorn	<i>Rhamnus cathartica</i>	10.5	63.6%	Y	FAC*
witch-hazel	<i>Hamamelis virginiana</i>	3.0	18.2%	N	FACU
glossy buckthorn	<i>Frangula alnus</i>	3.0	18.2%	N	FAC*
Sapling					
black oak	<i>Quercus velutina</i>	3.0	50.0%	Y	UPL
eastern red cedar	<i>Juniperus virginiana</i>	3.0	50.0%	Y	FACU
hickory sp.	<i>Carya</i> sp. (<i>susp. ovata</i>)	trace	NA	N	FACU
Tree (Basal Area)					
red maple	<i>Acer rubrum</i>	810 sq. in.	40.0%	Y	FAC*
white pine	<i>Pinus strobus</i>	534 sq. in.	26.4%	Y	FACU
black cherry	<i>Prunus serotina</i>	437 sq. in.	21.6%	Y	FACU
black oak	<i>Quercus velutina</i>	193 sq. in.	9.5%	N	UPL
American elm	<i>Ulmus americana</i>	49 sq. in.	2.4%	N	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 ada

Vegetation conclusion:

Number of dominant wetland indicator plants: 2 Number of dominant non-wetland plants: 5

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.

Section II Indicators of Hydrology

Hydric Soil Identification

1. Soil Survey

Is there a published soil survey for this site?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
title/date:	Middlesex County, Ma
map number:	(MA017)
soil type mapped:	Quonset sandy loam, 8-15% slopes
hydric soil inclusion	no

Are field observations consistent with soil survey? Yes No

Remarks:

Horizon	Depth	Matrix Color	Mottles Color
A	0 - 16"	10YR 3/2	fsl
Bw1	16 - 18"	10YR 2/2	sl
Bw2	18 - 24"+	10YR 2/2	sl w/ gravel

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:
- Depth to soil saturation 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 \geq	<input type="checkbox"/>		<input checked="" type="checkbox"/>
number of non-wetland indicator plants			
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"/>

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: Mass Composting Group, Inc Prepared by: J. Shuster of Oxbow Assoc. Project location: 161 Nashua St (Parcel 6-20-0) DEP File #:

Check all that apply:

Pepperell, MA

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)

Sect I. Vegetation Obs. Plot #: WET 1 (10 ft downslope of midpt Flags A11.1&A12) **Transect #: 1** **Date of Delineation:** 1/9/2018 and 10/9/18

A. Sample Layer and Plant Species Common Name	Scientific Name	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Ground					
royal fern	<i>Osmunda regalis</i>	10.5	63.6%	Y	OBL*
poison-sumac	<i>Toxicodendron vernix</i>	3.0	18.2%	N	OBL*
sedge sp.	<i>Carex sp.</i>	3.0	18.2%	N	UNK
swamp dewberry	<i>Rubus hispidus</i>	trace	NA	N	FACW*
sugar maple	<i>Acer saccharum</i>	trace	NA	N	FACU
Shrub					
glossy buckthorn	<i>Frangula alnus</i>	63.0	72.8%	Y	FAC*
multiflora rose	<i>Rosa multiflora</i>	20.5	23.7%	Y	FACU
winged euonymus	<i>Euonymus alatus</i>	3.0	3.5%	N	FAC*
Sapling					
American elm	<i>Ulmus americana</i>	10.5	38.9%	Y	FACW*
Red maple	<i>Acer rubrum</i>	10.5	38.9%	Y	FAC*
white ash	<i>Fraxinus americana</i>	3.0	11.1%	N	FACU
sugar maple	<i>Acer saccharum</i>	3.0	11.1%	N	FACU
Tree (Basal Area)					
Red maple	<i>Acer rubrum</i>	1161 sq. in.	94.5%	Y	FAC*
American elm	<i>Ulmus americana</i>	67 sq. in.	5.5%	N	FACW*
Vine (0)					

*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 ada

Vegetation conclusion:

Number of dominant wetland indicator plants: 5 Number of dominant non-wetland plants: 1

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.

Section II Indicators of Hydrology

Hydric Soil Identification

1. Soil Survey

Is there a published soil survey for this site?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
title/date:	Middlesex County, Ma
map number:	(MA017)
soil type mapped:	Freetown Muck, 0 to 1% slopes
hydric soil inclusion	yes

Are field observations consistent with soil survey? Yes No

Remarks:

Horizon	Depth	Matrix Color	Mottles Color
A	0 - 4"	10YR 3/3	hemic, 3% high chroma mottle
Bw1	4 - 36+"	10YR 2/1	dark, high organic, sulphur smell

Remarks: fine sandy loam, B1 Horizon clayey loam, 5% organic streaking in B2 layer

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:
- Depth to soil saturation 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: sulphurous odor, buttressed roots

Vegetation and Hydrology Conclusion		
	Yes	No
Number of wetland indicator plants \geq	<input checked="" type="checkbox"/>	<input type="checkbox"/>
number of non-wetland indicator plants		
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"/>

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: Mass Composting Group, Inc Prepared by: J. Shuster of Oxbow Assoc. Project location: 161 Nashua St (Parcel 6-20-0) DEP File #:

Check all that apply:

Pepperell, MA

- 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. Veg. Observation Plot #: UPL 2 (±4ft Upslope from Flag A1) Transect #: 2 Date of Delineation: 11/9/2018 & 10/9/18

A. Sample Layer and Plant Species Common Name	Scientific Name	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Groundcover					
Pennsylvania sedge	<i>Carex pensylvanica</i>	85.5%	96.6	Y	NI
One-flowered indian-pipe	<i>Monotropa uniflora</i>	3.0%	3.4	N	FACU
Shrub (0)					
Saplings					
Shagbark hickory	<i>Carya ovata</i>	38.0%	78.4	Y	FACU
Black Oak	<i>Quercus velutina</i>	10.5%	21.7	Y	FACU
Trees (basal area)					
Shagbark hickory	<i>Carya ovata</i>	1044.3 sq. in.	40.4	Y	FACU
Black Oak	<i>Quercus velutina</i>	2583.6 sq. in.	59.6	Y	UPL

*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: 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.

Section II Indicators of Hydrology

Hydric Soil Identification

1. Soil Survey

Is there a published soil survey for this site?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
title/date:	Web Soil Survey - Middlesex County
map number:	MA017
soil type mapped:	Quonset sandy loam 8-15% slopes
hydric soil	no

Are field observations consistent with soil survey? Yes No

Remarks:

Remarks:	Depth	Matrix Color	Mottles Color
A	0-6"	10YR 2/2	sandy loam
Bw1	6-9"	10YR 3/2	AB horizon mix
Bw2	9-16"	10YR 4/4	sandy loam

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
- Depth to soil saturation in observation
- Water marks:
- Drift lines:
- Sediment deposits:
- Drainage patterns in BVW:
- Oxidized rhizospheres:
- Water-stained leaves:
- Recorded data (stream, lake, or tide)
- Other:

Vegetation and Hydrology Conclusion		yes	no
Number of wetland indicator plants \geq	<input type="checkbox"/>		<input checked="" type="checkbox"/>
number of non-wetland indicator plants			
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"/>

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: Mass Composting Group, Inc Prepared by: J. Shuster of Oxbow Assoc. Project location: 161 Nashua St (Parcel 6-20-0) DEP File #:

Check all that apply: Pepperell, MA

- 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 Obs. Plot #: WET 2 (12ft dwnslope of midpt Flags A1&A0) Transect #: 2 Date of Delineation: 1/9/18 & 10/9/18

A. Sample Layer and Plant Species Common Name	Scientific Name	B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Ground					
Rambler Rose	Rosa multiflora	10.5%	45.7%	Y	FACU
European buckthorn	Rhamnus cathartica	10.5%	45.7%	Y	FACU
Cinnamon fern	Osmundastrum cinnamomeum	1.0%	4.3%	N	UPL
Sensitive fern	Onoclea sensibilis	1.0%	4.3%	N	FACW*
Shrubs					
European buckthorn	Rhamnus cathartica	10.5%	77.8%	Y	FACU
Glossy false buckthorn	Frangula alnus	3.0%	22.2%	Y	FAC*
Saplings					
White Ash	Fraxinus americana	38.0%	100.0%	Y	FACU
Trees (Basal area)					
White Ash	Fraxinus americana	222.3 sq. in.	37.8%	Y	FACU
American Elm	Ulmus americana	211 sq. in.	35.9%	Y	FACW*
Red Maple	Acer rubrum	114.9 sq. in.	19.6%	N	FAC*
Sugar Maple	Acer saccharum	39.2 sq. in.	6.7%	N	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+, 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.

<p>Vegetation conclusion:</p> <p>Number of dominant wetland indicator plants: 2 Number of dominant non-wetland plants: 5</p> <p>Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>

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 Identification

1. Soil Survey

Is there a published soil survey for this site?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
title/date:	Middlesex County MA
map number:	(MA017)
soil type mapped:	Freetown Muck, 0 to 1% slopes
hydric soil inclusion	yes

Are field observations consistent with soil survey? Yes No

Remarks:

Horizon	Depth	Matrix Color	Mottles Color
A	0 - 16"	10YR 2/2	w/ 3% 10YR 5/8 mottle, fsl
Bw1	16 - 20"	10YR 4/2	sandy loam

Remarks: free water observed at 12"

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
- Depth to soil saturation in observat
- Water marks:
- Drift lines:
- Sediment deposits:
- Drainage patterns in BVW:
- Oxidized rhizospheres:
- Water-stained leaves:
- Recorded data (stream, lake, or tide)
- Other:

Vegetation and Hydrology Conclusion		yes	no
Number of wetland indicator plants \geq	<input checked="" type="checkbox"/>		<input type="checkbox"/>
number of non-wetland indicator plants			
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"/>

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

**Notification to Abutters Under the Massachusetts Wetlands Protection Act
& The Town of Pepperell Wetlands Protection By-Law**

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following submission to the Pepperell Conservation Commission, requesting review of a proposed project. The Commission will discuss this project and make any necessary decisions at a Public Hearing held during one of its meetings.

A. The name of the applicant is: Mass. Composting Group

B. The name of the owner(s) of the land is/are: Mass. Composting Group

C. The applicant has filed a:

- Notice of Intent
- Abbreviated Notice of Intent
- Abbreviated Notice of Resource Area Delineation
- Request for an Amendment to an Order of Conditions, DEP File #259-_____

D. The address of the lot where the activity is proposed is: 161 Nashua Rd (Map 6, Parcel 20-0)

E. Description of the project: Seeking confirmation of resource area boundaries (ANRAD).

F. Copies of the submission may be examined at the Conservation Commission Office, Town Hall, 1 Main Street, Pepperell, MA, between the hours of 8:00 a.m. and 4:30 p.m. Monday through Wednesday. To be sure that the Conservation Administrator is in the office, feel free to call before leaving or to schedule an appointment by calling (978) 433-0325.

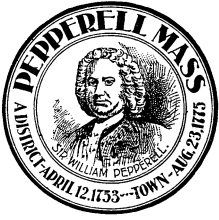
G. Copies of the submission may be obtained from:

- the applicant, Phone _____
- the owner, Phone _____
- the applicant's representative, Name and Phone Oxbow Associates, Inc.
928-929-9058

or by calling the Pepperell Conservation Commission Office at 978-433-0325 between the hours of 8:00 a.m. and 4:30 p.m., Monday through Wednesday.

H. Information regarding the date, time, and place of the hearing may be obtained from the Pepperell Conservation Commission Office by calling 978-433-0325.

Note: Notice of the Public Hearing, including its date, time, and place, will be published at least five (5) days prior to the hearing date in the Nashoba Valley Voice and posted at the Pepperell Town Hall no fewer than forty-eight (48) hours in advance of the meeting.



TOWN OF PEPPERELL

Board of Assessors

To: Conservation Commission
From: Maureen Bolger, Assessor
Date: 12/18/2018
Re: Application submitted for the property located at 141-163 Nashua Road in the ownership of Mass Composting Group, shown on Tax Map 6 as Parcel 20-0, further described by Deed recorded at the Middlesex South District Registry of Deeds in Book 23267 Page 23.

Parties in Interest: Conservation - 100' Abutters

<u>Owner & Mailing Address</u>	<u>Map & Lot</u>
Mass Composting Group c/o David Burton POB 317 Pepperell, MA 01463	6-20-0
Dean E & Holly P Rist 137 Nashua Road Pepperell, MA 01463	11-50-0
Wayne Babineau Trustee Magic Realty Trust POB 681 Pepperell, MA 01463	11-51-0
Athena Fran Strimenos 104 Fresh Pond Lane Brookline, NH 03033	6-79-0
David A & Gail W Shattuck 169 Nashua Road Pepperell, MA 01463	6-17-0
Mark K & Linda J Spengler 9 Robin Lane Pepperell, MA 01463	6-10-0

Parties in Interest: Conservation - 100' Abutters (cont.)

Owner & Mailing Address

Map & Lot

Paul T & Caitlin E Lonergan Jr.
164 Nashua Road
Pepperell, MA 01463

6-29-0

Lauretta A Delegge
162 Nashua Road
Pepperell, MA 01463

6-28-0

Donald A & Ellen M Brown
160 Nashua Road
Pepperell, MA 01463

6-27-0

Robert P & Kathleen M Cordeiro
158 Nashua Road
Pepperell, MA 01463

6-26-0

Leon Shattuck Trust
c/o Citizens Wealth Management
Attn: June Marshall
875 Elm Street, Unit NE4-06
Manchester, NH 03101

6-70-0

William & Patricia Hammond
1 Dow Street
Pepperell, MA 01463

6-30-0

David Allen Shattuck Trustee
Iron Woods Realty Trust
169 Nashua Road
Pepperell, MA 01463

6-18-0

Martin A Gill
11 West Bourne Street
Roslindale, MA 02131

11-1-0

*Please Note: This list does not include direct abutters across the river in the Town of Dunstable. Please contact Dunstable Assessors office for list of abutters.

AFFIDAVIT OF SERVICE

(NoI Application)

I, (name): Matthew Charpentier, hereby certify under pains and penalties of perjury that on (date): January 16, 2019 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994 in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by (name): Mass. Composting Group with the Pepperell Conservation Commission on (date): 1/16/2019 for property located at (address, map/lot): 161 Nashua Road; Map 6, Lot 20-0

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

Matthew Charpentier
Signature

1/16/2019
Date