

NOTICE OF PUBLIC HEARING SUDBURY CONSERVATION COMMISSION

The Sudbury Conservation Commission will hold a public hearing to review the Abbreviated Notice of Resource Area Delineation filing, under the State Act and local Wetland Bylaw, to approve the bordering vegetated wetland and vernal pool delineation at 999 Concord Road, in Sudbury, MA. John and Kim Toomey, applicants. The hearing will be held on Monday, June 15, 2020 at 6:30 pm, via remote participation through Zoom. The link to join this Zoom meeting as well as copies of the application, may be reviewed on the Conservation Department web page at:

https://sudbury.ma.us/conservationcommission/meeting/conservation-commission-meeting-monday-june-15-2020/. Please contact the Conservation Office with any questions at 978-440-5470.

SUDBURY CONSERVATION COMMISSION May 20, 2020

May 20, 2020

Sudbury Conservation Commission Department of Public Works Building 275 Old Lancaster Road Sudbury, MA 01776

Re: Abbreviated Notice of Resource Area Delineation (ANRAD) 999 Concord Road, Sudbury, MA

Dear Sudbury Conservation Commission,

Goddard Consulting, LLC is pleased to submit this Abbreviated Notice of Resource Area Delineation (ANRAD) on behalf of the applicant and owners, John & Kim Toomey, for the property located at 999 Concord Road (Assessor Map D-12 Lots 0100 & 0201). This ANRAD is a joint filing under the MA Wetlands Protection Act (WPA) and the Town of Sudbury Wetlands Protection Bylaw.

One original and two hard copies of the ANRAD application are enclosed, along with full size site plans. The titles of all the documents enclosed are as follows:

- ANRAD (WPA Form 4a) Application Form
- ANRAD Wetland Fee Transmittal Form, Copy of Checks
- Abutters List and Map
- Notification to Abutters
- Affidavit of Service
- Wetland Border Report. Goddard Consulting, LLC, 5/18/20
- Plan Showing Wetlands of 999 Concord Road. Sullivan, Connors & Associates. 3/31/20

Please feel free to contact us if you have any questions.

Very truly yours,

Dan Wells

Senior Wetland Scientist and Wildlife Biologist

CC: 999 Concord Road LLC, 23 Slocum Road, Lexington, MA 02421 MassDEP-NERO, 205B Lowell Street, Wilmington, MA 01887



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

key.

Note:Before completing this form consult your

local Conservation Commission regarding any municipal bylaw or ordinance.

Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

WPA Form 4A – Abbreviated Notice of Resource Area Delineation

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

Prov	ided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Sudbury
	City/Town

A. General Information

999 Concord Road	Sudbury	01776
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	42.40877 N	71.38183 W
Latitude and Longitude.	d. Latitude	e. Longitude
D-12	0100 & 0201	
f. Assessors Map/Plat Number	g. Parcel /Lot Numbe	er
Applicant:		
John & Kim	Toomey	
a. First Name	b. Last Name	
999 Concord Road LLC		
c. Organization		
23 Slocum Road		
d. Mailing Address		
Lexington	MA	02421
e. City/Town	f. State	g. Zip Code
617-504-1159	jtoomey87@gmail.co	om
h. Phone Number i. Fax Number	j. Email Address	
II. FIIOITE NUITIDEI I. FAX NUITIDEI	j. Email Address	
Property owner (if different from applican	Check if more	than one owner (attach additi and contact information)
	Check if more	
Property owner (if different from applican	Check if more sheet with names a	
Property owner (if different from applican	Check if more sheet with names a	
Property owner (if different from applicant a. First Name c. Organization	Check if more sheet with names a	
Property owner (if different from applicant a. First Name c. Organization d. Mailing Address	tht): Check if more sheet with names a b. Last Name	and contact information)
Property owner (if different from applicant a. First Name c. Organization d. Mailing Address e. City/Town	b. Last Name f. State	and contact information)
a. First Name c. Organization d. Mailing Address e. City/Town h. Phone Number i. Fax Number	b. Last Name f. State	and contact information)
a. First Name c. Organization d. Mailing Address e. City/Town h. Phone Number Representative (if any):	The check if more sheet with names a b. Last Name f. State j. Email Address	g. Zip Code
a. First Name c. Organization d. Mailing Address e. City/Town h. Phone Number Representative (if any): Dan a. Contact Person First Name	f. State j. Email Address Check if more sheet with names a b. Last Name c. Last Name c	g. Zip Code
a. First Name c. Organization d. Mailing Address e. City/Town h. Phone Number Representative (if any): Dan	f. State j. Email Address Check if more sheet with names a b. Last Name c. Last Name c	g. Zip Code
a. First Name c. Organization d. Mailing Address e. City/Town h. Phone Number Representative (if any): Dan a. Contact Person First Name Goddard Consulting LLC c. Organization	f. State j. Email Address Check if more sheet with names a b. Last Name c. Last Name c	g. Zip Code
Property owner (if different from applicant a. First Name c. Organization d. Mailing Address e. City/Town h. Phone Number Representative (if any): Dan a. Contact Person First Name Goddard Consulting LLC	f. State j. Email Address Check if more sheet with names a b. Last Name c. Last Name c	g. Zip Code
a. First Name c. Organization d. Mailing Address e. City/Town h. Phone Number Representative (if any): Dan a. Contact Person First Name Goddard Consulting LLC c. Organization 291 Main Street, Suite 8 d. Mailing Address	f. State j. Email Address Wells b. Contact Person Last Na	g. Zip Code
Property owner (if different from applicant a. First Name c. Organization d. Mailing Address e. City/Town h. Phone Number Representative (if any): Dan a. Contact Person First Name Goddard Consulting LLC c. Organization 291 Main Street, Suite 8	f. State j. Email Address Check if more sheet with names a b. Last Name c. Last Name c	g. Zip Code
a. First Name c. Organization d. Mailing Address e. City/Town h. Phone Number Representative (if any): Dan a. Contact Person First Name Goddard Consulting LLC c. Organization 291 Main Street, Suite 8 d. Mailing Address Northborough	f. State j. Email Address Wells b. Contact Person Last Na MA	g. Zip Code ame 01532 g. Zip Code

Fees will be calculated for online users.

 \$2,000
 \$987.50
 \$1,012.50

 a. Total Fee Paid
 c. City/Town Fee Paid



Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

WPA Form 4A – Abbreviated Notice of Resource Area Delineation

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

rovi	ded by MassDEP:
-	MassDEP File Number
-	Document Transaction Number
	Sudbury
-	City/Town

B. Area(s) Delineated

/ \i	ca(s) De	inicated		
1.	Bordering \	Vegetated Wetland (BVW)	approx. 10,000 Linear Feet of Boundary Deline	ated
2.	Check all n	nethods used to delineate the Border	ing Vegetated Wetland (B\	/W) boundary:
	a. Ma	ssDEP BVW Field Data Form (attach	ned)	
	b. Otl	ner Methods for Determining the BVV	V boundary (attach docum	entation):
	1.	50% or more wetland indicator plan	ts	
	2.	Saturated/inundated conditions exis	st	
	3.	Groundwater indicators		
	4.	Direct observation		
	5. 🗌	Hydric soil indicators		
	6.	Credible evidence of conditions price	or to disturbance	
3.	Indicate an	y other resource area boundaries tha	at are delineated:	
	rnal Pool			approx. 300
a. R	Resource Area			b. Linear Feet Delineated
c. R	esource 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. SGS 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.

D. Fees

wpaform4a.doc • rev. 12/11 Page 2 of 4



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

Provi	ded by MassDEP:
=	MassDEP File Number
=	Document Transaction Number
-	Sudbury City/Town

	City/Town
The fees for work proposed under each Abbreviated calculated and submitted to the Conservation Commi Wetland Fee Transmittal Form).	
Fee Exempt: No filing fee shall be assessed for the Commonwealth, federally recognized Indian tribe or the Massachusetts Bay Transportation Authority. Applicants must submit the following information (in a	housing authority, municipal housing authority,
Form) to confirm fee payment:	
534	5/11/20
2. Municipal Check Number	3. Check date
533	5/11/20
4. State Check Number	5. Check date
John	Toomey
6. Payor name on check: First Name	7. Payor name on check: Last Name

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

wpaform4a.doc • rev. 12/11 Page 3 of 4



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

F	Provided by MassDEP:	
	MassDEP File Numbe	

Document Transaction Number

Sudbury City/Town

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.

Managing Member, 999 Conceld Road !	UC 5/11/20
1. Signature of Applicant	2. Date
1. Signature of Applicant Managing Member 999 Concord Rud	UL 5/11/20
3. Signature of/Property Owner (if different)	4. Date
La Men.	5/18/20
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.

Abutters List

Date: May 08, 2020

Subject Property Address: CONCORD RD Sudbury, MA

Subject Property ID: D12-0100

Subject Property Address: 999 CONCORD RD Sudbury, MA

Subject Property ID: D12-0201

Search Distance: 100 Feet

Prop ID: C12-0200

Prop Location: NORTH RD Sudbury, MA Owner: VERRILL STEPHEN B & JOAN F

Co-Owner:

Mailing Address:

89 SEVEN STAR LN CONCORD, MA 01742

Prop ID: D11-0102

Prop Location: CONCORD RD Sudbury, MA

Owner: FLOWERS RICHARD & MARY

Co-Owner:

Mailing Address:

5816 PARKWAY DR LAUREL, MD 20707

Prop ID: D11-0104

Prop Location: CONCORD RD Sudbury, MA

Owner: AMES ADAM

Co-Owner:

Mailing Address:

5/19/2020

285 MARLE	3OR	O RD	
SUDBURY,	MA	0177	6

Prop ID: D11-0205

Prop Location: 857 CONCORD RD Sudbury, MA Owner: DONNELLAN BRENDON & CHRISTA

Co-Owner:

Mailing Address:

857 CONCORD RD SUDBURY, MA 01776

Prop ID: D12-0001

Prop Location: CONCORD RD Sudbury, MA

Owner: DARRIGO BROS

Co-Owner: C/O PETER DARRIGO

Mailing Address: 62 SUMMIT RD

BELMONT, MA 02478

Prop ID: D12-0106

Prop Location: OFF CONCORD RD Sudbury, MA

Owner: TOWN OF SUDBURY Co-Owner: CONSERVATION

Mailing Address:

278 OLD SUDBURY RD SUDBURY, MA 01776

Prop ID: D12-0200

Prop Location: 1011 CONCORD RD Sudbury, MA

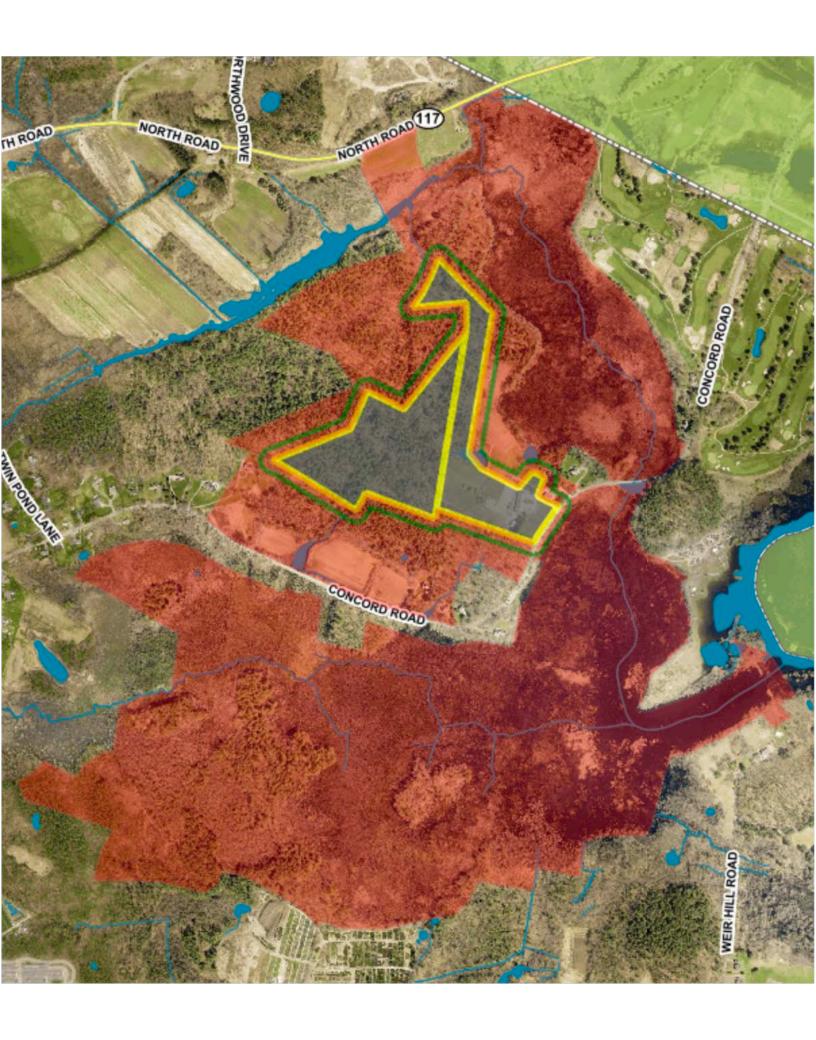
Owner: DILLON DANIEL P & SHARON T

Co-Owner: Mailing Address: 1011 CONCORD RD SUDBURY, MA 01776	Abutters
Prop ID: D13-0008 Prop Location: CONCORD RD Sudbury, Nowner: COMM OF MASSACHUSETTS Co-Owner: FISHERIES AND GAME Mailing Address: 251 CAUSE WAY ST SUITE 400 BOSTON, MA 02114	ИA
Prop ID: E12-0001 Prop Location: CONCORD RD Sudbury, Nowner: COMM OF MASSACHUSETTS Co-Owner: FISHERIES AND GAME Mailing Address: 251 CAUSEWAY ST SUITE 400 BOSTON, MA 02114	ΛA
Prop ID: E12-0006 Prop Location: 931 CONCORD RD Sudbut Owner: GAROFALO NICHOLAS R & LAU Co-Owner: Mailing Address: 931 CONCORD RD SUDBURY, MA 01776	•

Prop ID: E12-0007

Prop Location: CONCORD RD Sudbury, MA

Owner: DILLON DANIEL P & SHAR Co-Owner: Mailing Address: 1011 CONCORD RD SUDBURY, MA 01776	Abutters Report ON T
Prop ID: E12-0102 Prop Location: 941 CONCORD RD: Owner: LUTHRA SANJIV & NALINI Co-Owner: Mailing Address: 941 CONCORD RD SUDBURY, MA 01776	Sudbury, MA
Prop ID: E12-0104 Prop Location: CONCORD RD Sudb Owner: TOWN OF SUDBURY Co-Owner: CONSERVATION Mailing Address: 278 OLD SUDBURY RD SUDBURY, MA 01776	oury, MA



NOTIFICATION TO ABUTTERS

Under the Massachusetts Wetlands Protection Act & Sudbury Wetlands Administration Bylaw

In accordance with the second paragraph of Massachusetts Wetlands Protection Act (G.L. Ch. 131, §40), and regulations, and the Town of Sudbury Wetlands Administration Bylaw and regulations, you are hereby notified of a public hearing on the matter described below:

- A. The applicant has filed an Abbreviated Notice of Resource Area Delineation with the Sudbury Conservation Commission for the delineation of areas subject to protection under the Wetlands Protection Act and the Sudbury Wetlands Administration Bylaw.
- B. The name of the applicant is <u>999 Concord Road LLC</u>
- C. The address of the land where the activity is proposed is <u>999 Concord Road</u>, Sudbury.
- D. Copies of the Abbreviated Notice of Resource Area Delineation may be examined at the Conservation Commission's office, DPW Building, 275 Old Lancaster Road, between the hours of 9:00 am to 2:00 pm Monday through Wednesday, 10:00 am to 4:00 pm on Thursdays, and 9:00 am to 2:00 pm on Fridays.
- E. Copies of the Abbreviated Notice of Resource Area Delineation may be obtained from either (check one) the \square applicant or the \boxtimes applicant's representative <u>Goddard Consulting, LLC</u> by calling <u>(508)</u> 393-3784 from [times] 9:00am 4:00pm on [days] <u>Monday</u> through <u>Friday</u>.

NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the **Sudbury Town Crier**.

NOTE: Notice of the public hearing, including the date, time, and place, will be posted in the Dept. of Public Works Building not less than forty-eight (48) hours in advance.

NOTE: You may also contact the nearest Department of Environmental Protection Regional Office* for the information about this application or the Wetlands Protection Act. Sudbury is in the Northeast Region of DEP. To contact DEP, call:

*DEP Northeast Region: (978) 694-3200 205B Lowell Street, Wilmington, MA 01887

For additional information about this application, please contact the Sudbury Conservation Commission at (978) 440-5471 or by email at concom@sudbury.ma.us

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act And Sudbury Wetlands Administration Bylaw

I, Mitch Maslanka hereby certify under the pains and penalties of perjury that on May 20, 2020 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 dating April, 8, 1994 in connection with the following matter:

An Abbreviated Notice of Resource Area Delineation was filed under the Massachusetts Wetlands Protection Act and the Sudbury Wetlands Administration Bylaw by <u>999 Concord Road LLC</u> with the <u>Sudbury Conservation Commission</u> on <u>May 20, 2020</u> for the property located at <u>999 Concord Road</u>.

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

	5/20/20
(Mitch Maslanka)	(Date)

May 18, 2020

John Toomey 23 Slocum Road Lexington, MA 02421

Re: Wetland Border Report 999 Concord Road - Sudbury, MA

Dear John,

In March of 2020, the wetland resource areas were delineated within a site located at 999 Concord Road in Sudbury, MA (see attached orthophoto and USGS maps of site). The wetland border was flagged using the criteria in the most recent edition of MA Wetlands Protection Act (WPA) and Regulations 310 CMR 10.00 *et al.* as well as the Sudbury Wetlands Administration Bylaw and Regulations. Hydric soil indicators, vegetational changes, hydrological indicators, and topography were all considered for delineation purposes.

The wetland border was delineated with blue flags, denoted with a unique letter for each contiguous wetland system, followed by a consecutive number. Wetland resource areas delineated include Bordering Vegetated Wetland (BVW) and Vernal Pool, which is a resource area subject to the Sudbury Bylaw only. Flags #B29, B46 and F48 were documented with MA DEP BVW Data Sheets and those sheets are attached.

According to the MassGIS data layers for NHESP, portions of the property are located within an Estimated Habitat of Rare Wildlife / Priority Habitat of Rare Species. No certified vernal pools, ACEC or ORW are mapped within the site or immediate vicinity. Two potential vernal pools are mapped near the site - one partially onsite – however it is likely that both are actually permanent ponds.

Portions of the site fall within FEMA "Zone AE" 100-year floodplain with a Base Flood Elevation of 121 feet (see Figure 1 below for relevant portion of FIRM panel). The approximate 100-year flood zone boundary is indicated on the ANRAD plan. The plans do not have detailed topography so the ANRAD is not requesting confirmation of Bordering Land Subject to Flooding (BLSF) resource area.

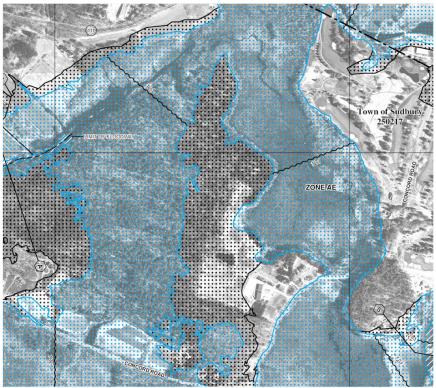


Figure 1 - Portion of FEMA FIRM panel in vicinity of subject property.

Wetland Resource Area Descriptions

The A-series defines the edge of BVW of a large forested wetland beginning at a small ditch north of the site, meandering through the north-center of the property and ending just west of the center of the site.

The B-Series defines the edge of BVW beginning just north and west of the center of the property and terminates to the west of existing horse farm buildings. It ranges from BVW along an intermittent stream channel, edge of forested wetland edge of man-made ditch, and scrub/shrub wetland.

The C-series begins in the south-center of the site, defining the western edge of a scrub/shrub wetland, the edge of a small section of the ditch, and edge of a large forested wetland.

The D-series begins on the opposite side of the wetland where the C-series terminates, entering the subject property at flag #D23. This wetland series defines the edge of BVW of a variety of wetland types including forested wetland, scrub/shrub wetland and intermittent stream. The D-series follows an intermittent stream channel northward until it reaches the property boundary.

The E-series defines the edge of BVW of a large forested swamp wetland in the west-central portions of the site.

The F-series defines the edges of BVW of a small pond (F1-F12), before broadening out from the pond and delineating the edge of a forested wetland that wraps around the pond and leads back to the footbridge where the series begins (F23-F48).

The G-series defines the maximum observed extent of flooding during the vernal pool breeding season, which denoted the border of a vernal pool. This wetland is a confined basin depression that was documented to contain breeding wood frogs on 3/18/20 (Photo 1). The pool is likely to contain standing water only for brief periods, and probably dries up completely during summer and early fall.



Photo 1 - Large raft of wood frog egg masses observed in G-series Vernal Pool on 3/18/20.

The H-series is located in the northern portions of the site. It defines the edge of a ditch/stream and then edge of forested wetland.

The J-series defines the edge of a large shrub swamp wetland across Concord Road offsite to the southeast

Note that the resource area boundaries need to be confirmed by the Sudbury Conservation Commission with the submission of an Abbreviated Notice of Resource Area Delineation (ANRAD). Any work proposed within 100 feet of the BVW or vernal pool resource areas requires the filing of a Request for Determination of Applicability (RDA) or Notice of Intent (NOI), depending on the nature of propose work and/or proximity to the delineated resource areas.

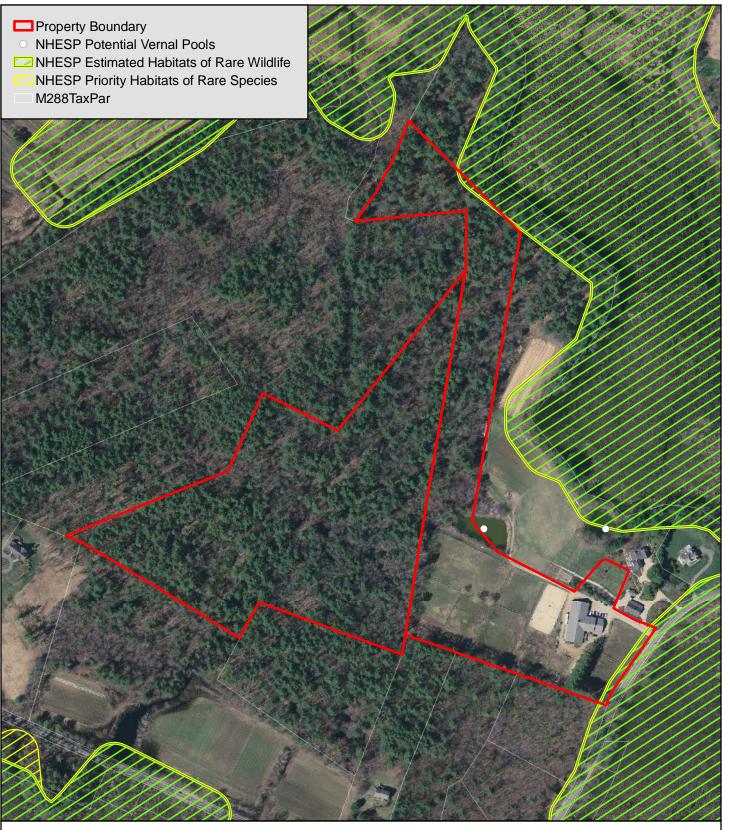
Sincerely,

GODDARD CONSULTING, LLC

by

Daniel Wells, M.S.

Senior Wildlife Biologist and Wetland Scientist



Orthophoto View of Site

999 Concord Road - Sudbury, MA

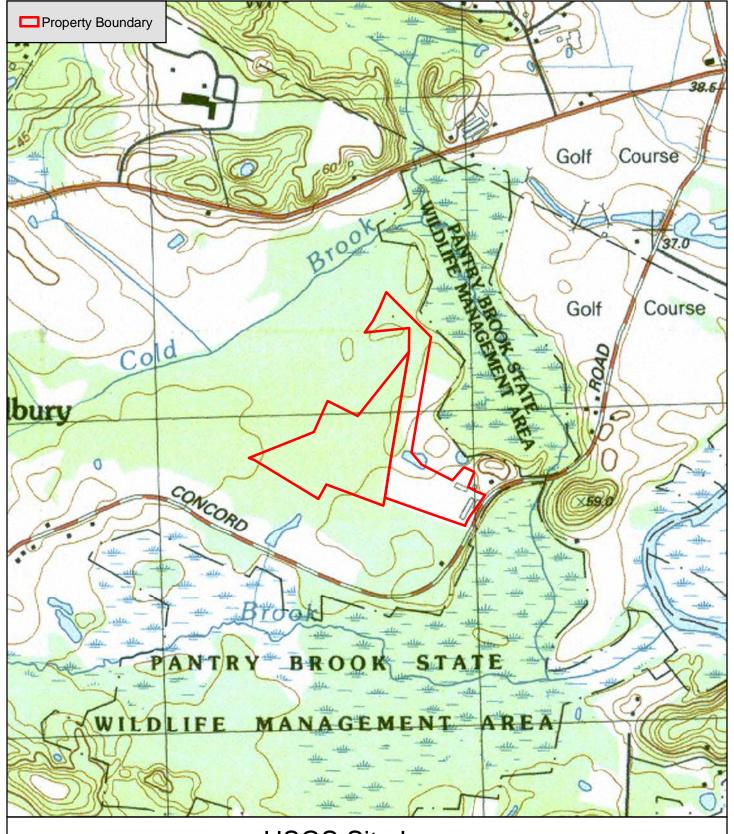
N 0 100 200 400 Feet

1 inch = 400 feet

Date: 5/18/2020

GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts Information Technology Division"





USGS Site Locus

999 Concord Road - Sudbury, MA

0 250 500 1,0 1 inch = 1,000 feet Date: 3/18/2020

1,000 Feet

GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts Information Technology Division"

GODDARD CONSULTING
Strategic Wetland Permitting 11c

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

Section I. Vegetation	Observation Plot Number: B 29	Transect Num	ber: Upgradient	Date of Delinear	tion: 19-Mar-20
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicato Category*
<u>Tree Layer</u> Red oak Eastern White Pine	Quercus rubra Pinus strobus	40% 60%	40.0% 60.0%	Yes Yes	FACU FACU
<u>Sapling Layer</u> Eastern white pine	Pinus strobus	30%	100.0%	Yes	FACU
<u>Shrub Layer</u> Glossy Buckthorn	Frangula alnus	5%	100.0%	Yes	FAC*
<u>Climbing Woody Vine</u>					
<u>Ground Cover</u> Late Lowbush Blueberry Starflower	Vaccinium angustifolium Trientalis borealis	10% 5%	66.7% 33.3%	Yes Yes	FACU FAC*
Remarks: * An asterisk at Morphological Adaptations: 0	ter common plant name indicates stunted growth; ** indicates extre Description:	mely stunted growth			

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe)
	Site inundated:
Hydric Soil Interpretation	
	Depth to free water in observation hole:
1. Soil Survey	
	Depth to soil saturation in observation hole:
Is there a published soil survey for this site? yes no title/date: Interior Seil Survey of Middless County 1001 (Mana	1090) Water marks
title/date: <u>Interim Soil Survey of Middlesex County - 1991</u> (Maps map number:	- 1989) Water marks:
soil type mapped: Scio very fine sandy loam, 0 to 3 percent slopes	Drift Lines:
hydric soil inclusions:	
	Sediment deposits:
Are field observations consistent with soil survey?	
Remarks:	Drainage patterns in BVW:
	Oxidized rhizoshperes:
	Water-stained leaves:
2. Soil Description	water-stained reaves:
Horizon Depth (inches) Matrix Color Mottles Color or Texture	Recorded data (stream, lake, or tidal gauge; aerial photo; other):
A 0-4 10YR 2/1 loam	
B 4-14+ 10YR 3/3 sandy loam	
	Other:
_	
	Vegetation and Hydrology Conclusion for Upgradient of B 29
	Number of wetland indicator plants
Remarks:	>= number of non-wetland plants X
Remarks.	>- number of non-wettand plants
	Wetland hydrology present:
	hydric soils present X
3. Other:	other indicators of hydrology
	present X
	Sample location is in a BVW X
Conclusion: Is soil hydric?	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

Section I. Vegetation	Observation Plot Number: B 29	Transect Num	ber: Downgradient	Date of Delinear	tion: 19-Mar-20
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicato Category*
<i>Tree Laver</i> Red Maple	Acer rubrum	50%	100.0%	Yes	FAC*
Sapling Layer					
<u>Shrub Layer</u> Glossy buckthorn	Frangula alnus	35%	100.0%	Yes	FAC*
<u>Climbing Woody Vine</u> none					
Ground Cover Sensitive Fern Cinnamon fern Jewelweed	Onoclea sensibilis Osmundastrum cinnamomeum Impatiens capensis	10% 20% 10%	25.0% 50.0% 25.0%	Yes Yes Yes	FACW* FACW* FACW*
Remarks: * An asterisk aft Morphological Adaptations: 0	ter common plant name indicates stunted growth; ** indicates extra Description:	remely stunted growth			

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation	Site inundated:
Tryune Son merpretation	Depth to free water in observation hole:
1. Soil Survey	Dough to collection to absorbe help.
Is there a published soil survey for this site?	Depth to soil saturation in observation hole:
title/date: Interim Soil Survey of Middlesex County - 1991 (Maps	- 1989) Water marks:
map number: soil type mapped: hydric soil inclusions: Birdsall mucky silt loam, 0 to 1 percent slopes Wareham, Scarboro, Raypol, Swansea	Drift Lines:
Are field observations consistent with soil survey?	Sediment deposits:
Remarks:	J Drainage patterns in BVW:
	Oxidized rhizoshperes:
	Water-stained leaves:
2. Soil Description Horizon Depth (inches) Matrix Color Mottles Color or Texture O 0-8+ 10YR 2/1 muck	Recorded data (stream, lake, or tidal gauge; aerial photo; other):
	Other:
	Vegetation and Hydrology Conclusion for Downgradient of B 29
	yes no
D 1	Number of wetland indicator plants
Remarks:	>= number of non-wetland plants X
	Wetland hydrology present:
	hydric soils present X
3. Other:	other indicators of hydrology
	present X
	Sample location is in a BVW X
Conclusion: Is soil hydric?	Submit this form with the Request for Determination of Applicability or Notice of Intent

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form Applicant: Prepared by: Goddard Consulting Project location: 999 Concord Road DEP File #: Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only Check all that apply: 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: **B 46** Transect Number: Upgradient Date of Delineation: 19-Mar-20 **Dominant Plant** Wetland Indicator Sample Layer and Plant Species Scientific name % Cover % Dominance Category* (ves or no) Tree Layer Sapling Layer Shrub Layer Climbing Woody Vine Ground Cover Upland grass 94.1% Gramineae sp. 80% Yes **FACU** Dandelion Taraxacum officinale 5% 5.9% Yes **FACU** Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth Morphological Adaptations: 0 **Description:**

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0

Number of dominant non-wetland indicator plants: 2

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

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe) Site inundated:
Hydric Soil Interpretation 1. Soil Survey Is there a published soil survey for this site? Tyes	Depth to free water in observation hole: Depth to soil saturation in observation hole:
Are field observations consistent with soil survey? J yes	Drainage patterns in BVW: Oxidized rhizoshperes:
2. Soil Description Horizon Depth (inches) Matrix Color Mottles Color or Texture A 0-12 10YR 2/2 loam B 12-16+ 2.5Y 5/4 loamy sand with 10YR 5/6 redox <5%	Water-stained leaves: Recorded data (stream, lake, or tidal gauge; aerial photo; other): Other:
Remarks:	Vegetation and Hydrology Conclusion for Upgradient of B 46 ves no Number of wetland indicator plants >= number of non-wetland plants X
3. Other:	Wetland hydrology present: hydric soils present Other indicators of hydrology present X
Conclusion: Is soil hydric?	Sample location is in a BVW 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 Prepared by: Goddard Consulting Project location: 999 Concord Road

Applicant:	Prepared by: Goddard Consulting ne presumed adequate to delineate BVW boundary: fill out Section I onl	Project location	on: 999 Concord Road	DEP File	e #:
Vegetation and	ne presumed adequate to delineate BVW boundary: fill out Section I only other indicators of hydrology used to delineate BVW boundary: fill out han dominance test used (attach additional information)	y Sections I and II			
Section I. Vegetation	Observation Plot Number: B 46	Transect Numb	er: Downgradient	Date of Delineation	on: 19-Mar-20
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<u>Tree Layer</u>					
<u>Sapling Laver</u>					
<u>Shrub Layer</u> Glossy buckthorn	Frangula alnus	35%	100.0%	Yes	FAC*
Climbing Woody Vine none Ground Cover Sensitive Fern	Onoclea sensibilis	70%	100.0%	Yes	FACW*
Morphological Adaptations: 0 * An asterisk after indicator status denotes wetlands p	ter common plant name indicates stunted growth; ** indicates extremely stunted Description:		sted as FAC, FACW, or OBL.		
Vegetation conclusion:	1 4 2	N 1 61 .	, , , , , , , , , , , , , , , , , , , ,	. 1 . 0	
Number of dominant wetland indicato			nant non-wetland indica	tor plants: 0	
	ants equal to or greater than the number of dominant non-wetl	and plants? yes			MA DED 2/05

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation	Site inundated:
Trydric 30ff interpretation	Depth to free water in observation hole:
1. Soil Survey	Depth to soil saturation in observation hole:
Is there a published soil survey for this site?	<u> </u>
title/date: <u>Interim Soil Survey of Middlesex County - 1991</u> (Maps map number:	- 1989) Water marks:
soil type mapped: Birdsall mucky silt loam, 0 to 1 percent slopes hydric soil inclusions: Wareham, Scarboro, Raypol, Swansea	Drift Lines:
	Sediment deposits:
Are field observations consistent with soil survey? yes no Remarks:	Drainage patterns in BVW:
	Oxidized rhizoshperes:
	Water-stained leaves:
2. Soil Description Horizon Depth (inches) Matrix Color Mottles Color or Texture A 0-6 10YR 2/2 loam	Recorded data (stream, lake, or tidal gauge; aerial photo; other):
B 6-12+ 2.5Y 5/2 loamy sand with 10YR 5/6 redox	Other:
	Vegetation and Hydrology Conclusion for Downgradient of B 46
	Number of wetland indicator plants
Remarks:	>= number of non-wetland plants X
	Wetland hydrology present:
	hydric soils present X
3. Other:	other indicators of hydrology
	present X
	Sample location is in a BVW X
Conclusion: Is soil hydric?	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

Sample Layer and Plant Species Tree Laver Red oak Sapling Layer Red Maple Shrub Layer Eastern white pine Glossy buckthorn Ground Cover Late lowbush blueberry Starflower Late lowbush blueberry Starflower Scientific name Quercus rubra Acer rubrum Acer rubrum Pinus strobus Frangula alnus Vaccinium angustifolium Trientalis borealis	% Cover 80%	% Dominance 100.0%	Dominant Plant (yes or no) No	Wetland Indicat Category* FACU
Red oak Sapling Layer Red Maple Acer rubrum Shrub Layer Eastern white pine Glossy buckthorn Pinus strobus Frangula alnus Climbing Woody Vine Ground Cover Late lowbush blueberry Vaccinium angustifolium				FACU
Red Maple Shrub Layer Eastern white pine Pinus strobus Glossy buckthorn Frangula alnus Climbing Woody Vine Ground Cover Late lowbush blueberry Vaccinium angustifolium	10%	100.0%	Vas	
Eastern white pine Pinus strobus Glossy buckthorn Frangula alnus Climbing Woody Vine Ground Cover Late lowbush blueberry Vaccinium angustifolium			168	FAC*
Ground Cover Late lowbush blueberry Vaccinium angustifolium	5% 5%	50.0% 50.0%	Yes Yes	FACU FAC*
Late lowbush blueberry Vaccinium angustifolium				
	5% 3%	62.5% 37.5%	Yes Yes	FACU FAC*
Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extrements	bly ctunted growth			
Morphological Adaptations: 0 Description:	ry stance growth			

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe) Site inundated:
Hydric Soil Interpretation 1. Soil Survey Is there a published soil survey for this site? title/date: Interim Soil Survey of Middlesex County - 1991 (Maps map number: soil type mapped: hydric soil inclusions: Scio very fine sandy loam, 0 to 3 percent slopes	Depth to free water in observation hole: Depth to soil saturation in observation hole:
Are field observations consistent with soil survey? J yes	Drainage patterns in BVW: Oxidized rhizoshperes:
2. Soil Description Horizon Depth (inches) Matrix Color Mottles Color or Texture A 0-8 10YR 2/2 loam B 8-16+ 10YR 3/4 sandy loam	Water-stained leaves: Recorded data (stream, lake, or tidal gauge; aerial photo; other): Other:
Remarks:	Vegetation and Hydrology Conclusion for Upgradient of F 48 ves number of wetland indicator plants = number of non-wetland plants X Wetland hydrology present:
3. Other:	hydric soils present other indicators of hydrology present X
Conclusion: Is soil hydric?	Sample location is in a BVW 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

Section I. Vegetation	Observation Plot Number: F 48	Transect Num	ber: Downgradient	Date of Delinear	tion: 19-Mar-20
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicato Category*
<i>Tree Layer</i> Red Maple	Acer rubrum	50%	100.0%	Yes	FAC*
<u>Sapling Layer</u>					
<u>Shrub Layer</u> Glossy buckthorn	Frangula alnus	20%	100.0%	Yes	FAC*
<i>Climbing Woody Vine</i> none					
Ground Cover Sensitive Fern	Onoclea sensibilis	3%	37.5%	Yes	FACW*
Glossy Buckthorn	Frangula alnus	5%	62.5%	Yes	FAC*
Remarks: * An asterisk af	ter common plant name indicates stunted growth; ** indicates extrer	nely stunted growth			
Morphological Adaptations: 0	Description: lants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plant				

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe) Site inundated:
Hydric Soil Interpretation	Depth to free water in observation hole:
1. Soil Survey	Depth to soil saturation in observation hole:
Is there a published soil survey for this site? title/date: Interim Soil Survey of Middlesex County - 1991 (Maps	- 1989)
map number: soil type mapped: hydric soil inclusions: map number: Birdsall mucky silt loam, 0 to 1 percent slopes Wareham, Scarboro, Raypol, Swansea	Drift Lines:
Are field observations consistent with soil survey?	Sediment deposits:
Remarks:	Drainage patterns in BVW:
	Oxidized rhizoshperes: Water-stained leaves:
2. Soil Description Horizon Depth (inches) Matrix Color Mottles Color or Texture O 0-8+ 10YR 2/1 muck	Recorded data (stream, lake, or tidal gauge; aerial photo; other):
	Other:
	Vegetation and Hydrology Conclusion for Downgradient of F 48
Remarks:	Number of wetland indicator plants >= number of non-wetland plants X
Remarks:	Wetland hydrology present:
	hydric soils present X
3. Other:	other indicators of hydrology present X
Conclusion: Is soil hydric?	Sample location is in a BVW Submit this form with the Request for Determination of Applicability or Notice of Intent

