

165 East Grove Street Middleborough, MA 02346

Tel # 508-946-9231www.outback-eng.comFax # 508-947-8873Civil Engineers+Land Surveyors+Environmental Consultants+Soil Testing Services

March 13, 2020

Avon Conservation Commission 65 East Main Street Avon, MA 02322

RE: <u>Abbreviated Notice of Resource Area Delineation, Antone Road, Avon, MA</u> <u>Assessors Map B3 Block 1 Lots 9, 10, & 11</u> <u>Assessors Map B4 Block 3 Lots 1 & 2</u> <u>Assessors Map B4 Block 4 Lots 4, 5, & 6</u> <u>Portion of Assessors Map B4 Block 2 Lots 1 & 2</u>

Dear Commission Members,

On behalf of the applicant, Muhammad Itani, please find six (6) copies of WPA Form 4A, one (1) original and seven (7) copies of the accompanying plan ("Plan to Accompany ANRAD Filing For Antone Road in Avon, MA" by Outback Engineering, Inc., dated 3/13/2020). Please also find a \$50.00 check to cover the Town filing fee and a \$1,012.50 check to cover the WPA filing fee, both payable to the "Town of Avon".

Resource areas were flagged by Scott Goddard, PWS of Goddard Consulting, LLC in the fall of 2019 (See attached Report by Scott Goddard revised March 2, 2020). The applicant would like confirmation of the following resource areas:

- Isolated vegetated wetland (IVW) flags AA1- AA33
- Bordering vegetated wetland (BVW) flags GC29- GC70, GC72- GC90, and C2-25
- Intermittent stream flags SC1-SC8 and SD1-SD8
- Intermittent stream flags SE0-SE13 and SF1- SF13
- Intermittent stream flags SA1- SA12, R39-R55, R55SA, SB1- SB6, SB8 -SB9, SB10-2, and SB10- SB13
- Ponded area within BVW flags S1-S13

Should you have any questions or require additional information, please do not hesitate to contact me at the above listed phone number. Thank you.

Sincerely, OUTBACK ENGINEERING, INC.

Elvse Tripp

Wetland Scientist

cc: Southeast Region, DEP Muhammad Itani

Abbreviated Notice of Resource Area Delineation Muhammad Itanti Antone Road

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Attachment C: StreamStats Report



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 4A – Abbreviated Notice of Resource Area Delineation

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Avon City/Town

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

A. General Information

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

. Street Address .atitude and Longitude See Attached):	b. City/Town 42d07m03s	c. Zip Code			
atitude and Longitude	9:	42d07m03s	71 - 00 - 00 -			
atitude and Longitude);	12401110000	7 1003mzzs			
See Attached			e. Longitude			
See Attached						
Assessors Map/Plat Numb	ber	g. Parcel /Lot Number				
Applicant:						
/luhammad		Itani				
. First Name		b. Last Name				
. Organization						
4 Forest Edge Road						
. Mailing Address						
South Easton		МА	02375			
City/Town		f State	g Zip Code			
		1. 01410	g. <u>Lip 0000</u>			
. Phone Number	i. Fax Number	j. Email Address				
Property owner (if diffe	erent from applicant):	Check if more than one owner (attach additional sheet with names and contact information)				
SAME		,				
. First Name		b. Last Name				
. Organization						
- 5						
. Mailing Address						
e. City/Town		f. State	g. Zip Code			
. Phone Number	i. Fax Number	j. Email Address				
Representative (if any)):					
Ivse		Tripp				
. Contact Person First Nan	10	b. Contact Person Last Name				
Organization						
65 East Grove Street						
Mailing Address						
/iddleborough		МА	02346			
City/Town		f State	a Zin Code			
00 046 0224	500 017 0072	atrian@outbook.ong.com	g. zip 0000			
Phone Number	i Fax Number					
	Iuhammad First Name Organization 4 Forest Edge Road Mailing Address South Easton City/Town Phone Number Property owner (if diffe SAME First Name Organization Mailing Address Organization Mailing Address Organization Mailing Address Organization Phone Number Representative (if any) Elyse Contact Person First Name Outback Engineering, Organization 65 East Grove Street Mailing Address Middleborough City/Town 08-946-9231 Phone Number	Auhammad First Name Organization 4 Forest Edge Road Mailing Address South Easton City/Town Phone Number i. Fax Number Property owner (if different from applicant): SAME First Name Organization Mailing Address Organization Mailing Address City/Town Phone Number Image: Phone Number Image: City/Town Image: Phone Number Image: City/Town Image: Contact Person First Name Outback Engineering, Inc Organization 65 East Grove Street Mailing Address Middleborough City/Town 08-946-9231 508-947-8873 Image: Phone Number Image: City/Town 08-946-9231 Image: City/Town Image: City/Town Image: City/Town Image: City/Town Image: City/Town Image: City/Town Image: City/Town	Auhammad Itani First Name b. Last Name Organization 4 Forest Edge Road A Forest Edge Road MA South Easton MA City/Town f. State Phone Number i. Fax Number Property owner (if different from applicant): Check if more than or sheet with names and con sheet with name sheet with name sheet with name sheet with			

 \$2,000.00
 \$987.50
 \$1012.50

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

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

Important: When



Note:

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

wpaform4a.doc •	rev.	12/11
mparon na aoo		

Fees will be calculated for

online users.

Page 2 of 4

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Avon City/Town

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

B. Area(s) Delineated

- 1. Bordering Vegetated Wetland (BVW)
- 2. Check all methods used to delineate the Bordering Vegetated Wetland (BVW) boundary:
 - a. 🛛 MassDEP BVW Field Data Form (attached)
 - b. D 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:

Intermittent Stream	2,380
a. Resource Area	b. Linear Feet Delineated
Isolated Vegetated Wetland	808
c. Resource Area	d. Linear Feet Delineated
Ponded Area within BVW	412 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. X ANRAD (Delineation Plans only)
- ISGS 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. Image: 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.



2,236 S.F. Linear Feet of Boundary Delineated



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

Avon 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. The 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:

14909	2-27-2020	
2. Municipal Check Number	3. Check date	
14908	2-27-2020	
4. State Check Number	5. Check date	
Stonebridge Homes, Inc.		
6. Pavor name on check: First Name	7. Pavor name on check: Last Name	



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 4A – Abbreviated Notice of Resource Area Delineation

Provided by MassDEP:

MassDEP File Number

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

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.

2-27-20 of Applica 2. Date 1. Signature Signature of Property Owner (if different) 4. Date 3. 3-5-2020 WAAD ELYSE TRIPP 5. Signature of Representative (if any)

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.

Antone Road

Assessors Parcels (Map-Block-Lot)

B3-1-9 B3-1-10 B3-1-11 B4-3-1 B4-3-2 B4-4-4 B4-4-5 B4-4-5 B4-4-6 Portion of B4-2-1 Portion of B4-2-2



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.

1.

2.

3.



Location of Project:					
Antone Road		Avon b. City/Town 14908			
a. Street Address					
\$987.50					
c. Fee amount		d. Check number			
Applicant:					
Muhammad	Itani				
a. First Name	b. Last Name	c. Co	mpany		
24 Forest Edge Road					
d. Mailing Address					
South Easton		MA	02375		
e. City/Town		f. State	g. Zip Code		
h. Phone Number					
Property Owner (if different):					
SAME					
a. First Name	b. Last Name	c. Co	mpany		
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:

Online Users: check box if fee oxempt	1. 🗌 2. 🔀	single family house project all other projects	a. feet of BVW 2,236 a. feet of BVW	x \$2.00 = 4,472 x \$2.00 =	b. Fee for BVW Max Fee b. Fee for BVW
exempt.	Other	Resource Area (e	.g., bank, riverfront a	ea, etc.):	
	3.	single family house proiect	a. linear feet	x \$2.00 =	b. Fee
	4. 🛛	all other projects	3,600 a. linear feet	7,200 x \$2.00 =	Max Fee b. Fee
			Total Fee	o for all Resource Areas:	<u>\$2,000.00 (Max Fee)</u> Fee
				State share of filing fee:	\$987.50 5. 1/2 of total fee less \$12.50
			City/	Town share of filing fee:	\$1012.50 6. 1/2 of total fee plus \$12.50



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands ANRAD Wetland Fee Transmittal Form

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

C. Submittal Requirements

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

Department of Environmental Protection Box 4062 Boston, MA 02211

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

STONEBRIDGE HOMES, INC.	Eastern Bank Boston, MA 02110	14908
32 Norfolk Avenue South Easton, MA 02375	53-179/113 DIR TE	2/27/2020
AY TO THE Commonwealth of Massachusetts	A A CUM	\$ **987.50
Nine Hundred Eighty-Seven and 50/100**********************************	***********	****************** DOLLA
IEMO ANRAD filing fee: Central St, Avon, MA	AUTHOFIZED PIGNATURE	HEAT SENSITIVE
SECURITY FEATURES INCLUDE TRUE WATERMARK PAP	R, HEAT SENSITIVE ICON AND FOIL HOLOGRAM.	NT Sec
SECURITY FEATURES INCLUDE TRUE WATERMARK PAP STONEBRIDGE HOMES, INC. 32 Norfolk Avenue South Easton, MA 02375	R. HEAT SENSITIVE ICON AND FOIL HOLOGRAM. E DOCUMIE Eastern Bank Boston, MA 02110 1-800-EASTERN 53-179/113 RE	14909 2/27/2020
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SECURITY FEATURES INCLUDE TRUE WATERMARK PAP STONEBRIDGE HOMES, INC. 32 Norfolk Avenue South Easton, MA 02375 AV TO THE Town of Avon RDER OF One Thousand Twelve and 50/100*********	R, HEAT SENSITIVE ICON AND FOIL HOLOGRAM. Eastern Bank Boston, MA 02110 1-800-EASTERN 53-179/113	14909 2/27/2020 \$ **1,012.50
Image:	R. HEAT SENSITIVE ICON AND FOIL HOLOGRAM Eastern Bank Boston, MA 02110 1-800-EASTERN 53-179/113	14909 2/27/2020 \$ **1,012.50
SECURITY FEATURES INCLUDE TRUE WATERMARK PAP STONEBRIDGE HOMES, INC. 32 Norfolk Avenue South Easton, MA 02375 AV TO THE Town of Avon RDER OF One Thousand Twelve and 50/100******* Town of Avon P.O. Box 611 Medford, MA 02155-0007 MEMO Avon Conservation Comm. filing of an ANRAD	ER. HEAT SENSITIVE ICON AND FOIL HOLOGRAM. Eastern Bank Boston, MA 02110 1-800-EASTERN 53-179/113	14909 2/27/2020 \$ **1,012.50

Figure 1:

MassGIS Aerial Locus Map



Source: MassGIS 2018 Ortholmagery

Attachment A:

Abutter List, Abutter Notification, Affidavit of Service

300' CERTIFIED ABUTTERS LIST LOTS B4-2-1, B4-2-2, B4-4-4, B4-4-5, B4-4-6, B3-1-9, B4-3-2, B4-3-1, B3-1-10, B3-1-11 AVON, MA FOR OUTBACK ENGINEERING INC. OWNER: MUHAMMAD ITANI

Board of Assessors Certified Copy Paul J Sullivas as of 12/31/19

Map	Block	Lot	Location	Owners Name	Mailing Address	City	<u>St Zip</u>
A4	1	2	4 Russell Rd.	Simonds, Frank H., Jr.	4 Russell Rd.	Avon	MA 02322
A4	1	3	6 Russell Rd.	Webb, Danny & Webb, Rosemary A.	6 Russell Rd.	Avon	MA 02322
B3	1	12	Central St.	Owner Unknown			
B3	1	13	200 Central St.	A&B Campbell Realty LLC	71 South St.	Avon	MA 02322
B3	1	3	222 Central St.	Cross, Robert S. & Cross, Donna M.	222 Central St.	Avon	MA 02322
B3	1	4	230 Central St.	Danier, Sanon & Danier, Julie	230 Central St.	Avon	MA 02322
B3	1	5	296 Central St.	Jean, Pierre & Burnett, Valerie	296 Central St.	Avon	MA 02322
B3	1	6	300 Central St.	Lindesey, Vernon B. & Lindesey, Maxine M.	300 Central St.	Avon	MA 02322
B3	1	7	304 Central St.	Mooney, Kevin	304 Central St.	Avon	MA 02322
B3	1	8	310 Central St.	Moore, Robert J. & Moore, Judith A.	310 Central St.	Avon	MA 02322
B3	2	1	305 Central St.	Vuytowecz, Charles J. & Vuytowecz, Janet C., L.E.	305 Central St.	Avon	MA 02322
B3	2	2	301 Central St.	Idumwonyi, Henrietta Imade & Idumwonyi, Clara Adesuwa	301 Central St.	Avon	MA 02322
B3	2	3	297 Central St.	Nguyen, Viet	297 Central St.	Avon	MA 02322
B3	2	4	275 Central St.	Charlceus, Bonat & Buisson, Marilyne F.	275 Central St.	Avon	MA 02322
B3	2	5	253 Central St.	Jeannot, Garry & Jeannot, Buline	253 Central St.	Avon	MA 02322
B3	2	6	243 Central St.	Wedgeworth, Marc C.	243 Central St.	Avon	MA 02322
B3	2	7	233 Central St.	Aten, Norris L. & Aten, Janis M.	233 Central St.	Avon	MA 02322
B3	2	8	223 Central St.	Demesmin, Stanley	223 Central St.	Avon	MA 02322
B3	2	9	213 Central St.	Perry, Walter A. & Perry, Eugenia E.	213 Central St.	Avon	MA 02322
B4	2	1	Sanborn Hill Rd.	Town of Avon	65 E. Main St.	Avon	MA 02322
B4	2	2	340 Central St.	Sandy, Michael B. & Cooper, Jeanne L.	340 Central St.	Avon	MA 02322
B4	4	1	314 Central St.	O'Neill, Sean T.	314 Central St.	Avon	MA 02322
B4	4	2	318 Central St.	Baher, Bernard H. & Baher, Ruth A.	318 Central St.	Avon	MA 02322
B4	5	5	313 Central St.	Selman, Marvann	313 Central St.	Avon	MA 02322
B4	5	6	309 Central St.	Campbell, Brian A., Tr. 309 Central St. R.T.	19 Klondike Rd.	Avon	MA 02322
B4	5	7	348 Old Pond St	Damiano, James D. & Damiano, Heidi A.	348 Old Pond St.	Avon	MA 02322
B4	4	3	332 Central St	MacQuarrie, Douglas M. & MacQuarrie, Agnes M.	332 Central St.	Avon	MA 02322
B4	5	4	321 Central St.	Teixeira, Assuncao, M.	321 Central St.	Avon	MA 02322
B4	5	3	331 Central St.	Monahan, Gerard & Perry, Rose	331 Central St.	Avon	MA 02322
B4	1	7	Pond/Central Sts	Mass. Electric Co.	40 Sylvan Rd.	Waltham	MA 02452
B4	1	8	341 Old Pond St.	Kelly, Peter D. & Kelly, Janis L.	341 Old Pond St.	Avon	MA 02322

300' CERTIFIED ABUTTERS LIST LOTS B4-2-1, B4-2-2, B4-4-4, B4-4-5, B4-4-6, B3-1-9, B4-3-2, B4-3-1, B3-1-10, B3-1-11 AVON, MA FOR OUTBACK ENGINEERING INC. OWNER: MUHAMMAD ITANI

	0	1	4.0	Orean Isshue Nethenial & Croon Tonya Lynn	1 Russell Rd.	Avon	MA 02322
A4	2	4	1 Russell Rd.	Green, Joshua Nathaniel & Green, Tonya Lynn	109 Control St	Avon	MA 02322
A4	2	5	406 Central St.	Ahmed, Muhammad A.	400 Central St.	710011	MA 02222
R4	1	1	Central St	Town of Avon	65 E. Main St.	Avon	WA 02322
	4			Face Debart A & Face Kathrung M	361 Central St.	Avon	MA 02322
B4	1	5	361 Central St.	FOSS, RODELLA. & FOSS, Raillyne M.	357 Central St	Avon	MA 02322
B4	1	6	357 Central St.	Diligent, Marie		Avon	MA 02322
B4	5	1	356 Old Pond St	Munson, Mark I & Munson, Jayne M.	356 Old Pond St.	Avon	WIA 02322
	5	2	264 Old Dond St	Bryant Edwin R & Bryant Dorothy M F & Bryant, Wayne Rd.	364 Old Pond St.	Avon	MA 02322
D4	0	2	304 Ulu Pollu SL.	Divant, Luwin R. & Divant, Dorothy W., E.E. & Divant, Hayne			

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 applicant is Muhammad Itani.
- B. Property is owned by Muhammad Itani.
- C. The applicant has filed an Abbreviated Notice of Resource Area Delineation with the Conservation Commission for the municipality of Avon, Massachusetts seeking confirmation of Resource Areas Subject to Protection Under the Wetlands Protection Act (General Laws Chapter 131, Section 40).
- D. The address of the lot where the activity is proposed is Antone Road.
- E. Assessors Map B3 Block 1 Lots 9, 10, & 11, Assessors Map B4 Block 3 Lots 1 & 2
 Assessors Map B4 Block 4 Lots 4, 5, & 6, and a portion of Assessors Map B4 Block 2
 Lots 1 & 2.
- F. Copies of the filing may be examined at the Avon Conservation Commission by calling 508-588-0414 ext.1032 to make an appointment.
- G. Brief description of project: The applicant is seeking confirmation of resource areas subject to protection under the Wetlands Protection Act.
- H. Copies of the filing may be obtained for \$25.00 from the applicant's representative, by calling this telephone number 508-946-9231 between the hours of 8:30 a.m. and 4:30 p.m. on the following days of the week: Monday-Friday.
- I. The public hearing will be held on April 9, 2020 at 7pm in the Avon Town Hall at 65 East Main Street in Avon, MA 02322.

NOTE: Notice of the public hearing, including its date, time, and place, will be published at least seven (7) days in advance in the Moneysaver.

NOTE: You may contact the Department of Environmental Protection Regional office at 508-946-2800 for more information.

ABUTTER ATTENDANCE AT THE HEARING IS NOT REQUIRED

AFFIDAVIT OF SERVICE

Under

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

I, Elyse Tripp, hereby certify under the pains and penalties of perjury that on or before April 1, 2020 I gave notification to abutters in compliance with Massachusetts Wetlands Protection Act M.G.L. c.131, §40 in connection with the following matter:

An Abbreviated Notice of Resource Area Delineation for Antone Road has been filed under Massachusetts Wetlands Protection Act M.G.L. c.131, §40, by the applicant, Muhammad Itani, with the Avon Conservation Commission on or before March 26, 2020 for confirmation of resource areas subject to protection under the Wetlands Protection Act.

The notification letter, a list of the abutters to whom it was given to and their addresses, and proof of notification are enclosed with this Affidavit of Service.

3-12-2020 Date

Attachment B:

Wetland Report and Field Data Sheets by Scott Goddard

GODDARD CONSULTING Strategic Wetland Permitting

> Revised March 2, 2020 November 13, 2019

Stonebridge Homes, Inc. 32 Norfolk Ave South Easton, MA 02375

Re: Antone Road, Avon

Dear Stonebridge Homes:

In the fall of 2019, the wetland resources were delineated on a portion of land located at the above referenced site. The wetland border was flagged using the criteria in the most recent edition of MA Wetland Protection Act (WPA) and Regulations 310 CMR 10.00 et al and the Avon Bylaw. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

The resources on site consist of and Isolated Vegetated Wetland and Bordering Vegetated Wetland. The isolated vegetated wetland (IVW) was delineated with series AA1-33. No defined channel was observed at the time of inspections, leaving or connecting this wetland with another resource area and therefore is considered isolated. This IVW is vegetated with sweet pepperbush, red maple, ferns and poison ivy. An IVW is only protected by the MA Wetlands Protection Act if it qualifies as an Isolated Land Subject to Flooding; which by definition is a depression able to hold ¼ acer foot of water at a minimum depth of 6-inches. This small wetland does not appear to be able to meet this definition for an ILSF resource and therefore would not be jurisdictional under the Massachusetts Wetlands Protection Act and according to the local wetland bylaw IVWs are not specifically identified as a resource area.

The BVW resource area was flagged with series GC1-90, A1-22, B1-18 and C1-25. This resource area was vegetated with sweet pepperbush, brier, red maple, elm, highbush blueberry and poison ivy. A ponded area within the BVW was flagged with series S1-13. The adjacent upland to this wetland is vegetated with witch hazel, princess-pine, sweet pepperbush, oak, white pine and brier. Department of Environmental Protection BVW field data forms were documented at wetland flag GC-34 and A22 (see attached forms).

Since this site is located within a Department of Conservation and Recreation (DCR) jurisdictional Zone A area, all stream channels shown on the DCR maps and Zone A Maps were delineated in the field. These streams have additional DCR jurisdiction since they contribute to the Brockton Reservoir. This jurisdiction, according to the maps extends 200-feet (however in some cases can extend up to 400-ft) from the mapped streams. The centrally located stream, which is shown as intermittent on the USGS map, was delineated with series: SA1-12, R39-55 and SB1-40. A stream stats analysis was also performed for this stream which indicated the stream has a watershed of 0.23 square miles which is far below the required 0.5 square mile watershed to be considered perennial. Two other, more narrow, intermittent stream channels shown on the DCR maps where delineated with series SC1-8 and SD1-8 (in the southeastern section of the site) and flags SE1-13 and SF1-13 in southwestern section of the site).

goddardconsultingllc.com • 291 Main Street, Suite 8, Northborough, MA 01532 • 508.393.3784

According to the Mass GIS data layers for NHESP, this site is not located within Estimated and/or Priority Habitat of Rare Wildlife, and no mapped vernal pools are located on or near the site. The site is not located in a jurisdictional FEMA Flood Zone.

The MA Wetlands Protection Act takes jurisdiction over BVW resources and their jurisdictional 100-foot Buffer Zone. Any work within the BVW resource area, BVW buffer zone or within the DCR jurisdictional area; requires a Request for Determination (RDA) or Notice of Intent (NOI) be filed with the Conservation Commission and potentially DCR. If you need further assistance with permitting, please call us we would be happy to assist.

Very truly yours,

1 phan

Scott Goddard, Principal & PWS



Central Street, Avon MA

0 150 300 Feet 1 inch = 300 feet Date: 10/07/19

Ν

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

GODDARD CONSULTING



DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form ant: Prepared by: <u>Goddard Consulting LLC</u> Project location: <u>Antone Rd, Avon</u> 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)

Applicant: Check all that apply:

DEP File #:

Sample Layer and Plant Species Scientific name % Cover % Dominance Dominance (yes or mo) Wethand Indicates (Ves or mo) Red Maje (cor robram 3% 3.2% No No Category* Red Maje (per cut rabra 3% 3.2% No No FAC* Red Oak (per cut rabra 30% 37.9% Yes FAC* American beech Pague granifizita 30% 37.9% Yes FACU Northen white out Quercus alba 20% 21.1% Yes FACU Sinfing Laner Quercus rabra 15% 100.0% Yes FACU Shrah Laner Quercus rabra 20% 35.7% Yes FACU Shrah Laner Pintus strobus 20% 64.3% Yes FACU Climbling Woody Ving Penetris trigitiana 30% 64.3% Yes FACU Climbling Woody Ving Penetris trigitiana 10% 100.0% Yes FACU Remarks: * An esterik after corrone plant name	Section I. Vegetation Observation Plot Number: GC-34 Transect Number: Upgradient				Date of Delineation: 1-Oct-19		
There Lear Red Maple Acer rubram 3% 3.2% No FAC ⁴ Red Maple Quercus rubra 36% 37.9% Yes FACU Northern while oak Quercus rubra 36% 37.9% Yes FACU Northern while oak Quercus rubra 20% 21.1% Yes FACU Singlang Lance Quercus rubra 20% 21.1% Yes FACU Singlang Lance Quercus rubra 15% 100.0% Yes FACU Singlang Lance Quercus rubra 20% 35.7% Yes FACU Singlang Lance Planes strohus 20% 35.7% Yes FACU Singlang Lance Planes strohus 20% 35.7% Yes FACU Singlang Lance Plane strohus 20% 35.7% Yes FACU Singlang Lance Plane strohus 20% 35.7% Yes FACU Climblag Woody Vine Idonametics virginiana 20% 64.3% Yes FACU Climblag Woody Vine Climblag Woody Vine Description: *** An interies kafter common plant name indicates stunied growth; *** indicates externedy stunied growth. *** Morepologieal Adaptations: 0 De	Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*	
Supplies Lawer Quercus rabra 15% 100.0% Yes FACU Strats Lawer Pinus strobus 20% 35.7% Yes FACU Strats Lawer Pinus strobus 20% 35.7% Yes FACU White pine Pinus strobus 20% 35.7% Yes FACU Climbing Woods Vine Hamanelis virginitana 36% 64.3% Yes FACU Climbing Woods Vine Dendrolycopodium obscurum 10% 100.0% Yes FACU Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth Dendrolycopodium obscurum 10% 100.0% Yes FACU Morphological Adaptations: 0 Dendrolycopodium obscurum 10% 100.0% Yes FACU	<u>Tree Laver</u> Red Maple Red Oak American beech Northern white oak	Acer rubrum Quercus rubra Fagus grandifolia Quercus alba	3% 36% 36% 20%	3.2% 37.9% 37.9% 21.1%	No Yes Yes Yes	FAC* FACU FACU FACU	
Shrub Laver Pinus strobus 20% 35.7% Yes FACU White pine Pinus strobus 20% 35.7% Yes FACU White pine Hamanelis virginiana 36% 64.3% Yes FACU Climbing Woody Vine Itematics in the strong of th	<u>Sapling Laver</u> Red Oak	Quercus rubra	15%	100.0%	Yes	FACU	
Climbing Woody Vine Ground Cover Princess-pine Dendrolycopodium obscurum 10% 100.0% Yes FACU Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth Morphological Adaptations: 0 Description:	<u>Shrub Layer</u> White pine Witch hazel	Pinus strobus Hamamelis virginiana	20% 36%	35.7% 64.3%	Yes Yes	FACU 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.	<u>Climbing Woody Vine</u> <u>Ground Cover</u> Princess-pine	Dendrolycopodium obscurum	10%	100.0%	Yes	FACU	
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.	Remarks: * An asterisk afte	r common plant name indicates stunted growth; ** indicates extrem	ely stunted growth				
• An asterisk arter indicator status denotes werands brands in the werands protection Activity C(1) (S, S, W); brands in the genus Sonagnum; or brands listed as FAC, FAC W, OF UBL.	Morphological Adaptations: 0	Description:	plants in the conus Spherenner	aralanta listad as EAC EACW	or OPI		
Vegetation conclusion:	Vegetation conclusion:	prants. prants listed in the wetlands protection Act (MGL c.131, s.40);	prants in the genus Sphagnum; (or prants listed as FAC, FACW,	UI UDL.		
Number of dominant wetland indicator plants: 0							
Is the number of dominant wetland plants, or greater than the number of dominant non-wetland plants? no	Is the number of dominant wetland multator						

If vegetation alone is presumes 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	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation 1. Soil Survey Is there a published soil survey for this site? yes no title/date: Soil Survey of Norfolk and Suffolk Counties - 1989 map number: soil type mapped: Canton fine sandy loam hydric soil inclusions:	 Depth to free water in observation hole: Depth to soil saturation in observation hole: Water marks: Drift Lines: Sediment deposits:
Are field observations consistent with soil survey? [.] yes no Remarks:	 Drainage patterns in BVW: Oxidized rhizoshperes: Water-stained leaves: Recorded data (stream, lake, or tidal gauge; aerial photo; other):
	Other: Vegetation and Hydrology Conclusion for Upgradient of GC-34 yes no
Remarks:	Number of wetland indicator plants >= number of non-wetland plants X Wetland hydrology present:
3. Other:	hydric soils present X other indicators of hydrology present X
Conclusion: Is soil hydric? yes Joo	Sample location is in a BVW X Submit this form with the Request for Determination of Applicability or Notice of Intent

Applicant: Check all that apply: Vegetation alone Vegetation and o Method other tha	Prepared by: <u>Goddard Consulti</u> presumed adequate to delineate BVW boundary: fill out ther indicators of hydrology used to delineate BVW boun in dominance test used (attach additional information)	ng LLC Project locat Section I only dary: fill out Sections I and	Project location: <u>Antone Rd, Avon</u> aly ut Sections I and II		DEP File #:	
Section I. Vegetation	Observation Plot Number: GC-34	Transect Num	ber: Downgradient	Date of Delineati	on: 1-Oct-19	
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*	
<u>Tree Laver</u> Red Maple	Acer rubrum	36%	100.0%	Yes	FAC*	
Sapling Layer						
Red maple	Acer rubrum	10%	100.0%	Yes	FAC*	
<u>Shrub Laver</u> Sweet pepperbush American hornbeam	Clethra alnifolia Carpinus caroliniana	36% 20%	64.3% 35.7%	Yes Yes	FAC* FAC*	
<u>Climbing Woody Vine</u> Horse brier	Smilax rotundifolia	20%	100.0%	Yes	FAC*	
<u>Ground Cover</u> Cinnamon fem	Osmundastrum cinnamomeum	20%	100.0%	Yes	FACW*	
Remarks: * An asterisk after	common plant name indicates stunted growth; ** indicates extrem	ely stunted growth				
Morphological Adaptations: 0	Description:	· · · · · · · · · · · · · · · · · · ·				
* An asterisk after indicator status denotes wetlands p	lants: plants listed in the Wetlands Protection Act (MGL c.131, s.40);	plants in the genus Sphagnum; o	r plants listed as FAC, FACW, o	or OBL.		
Vegetation conclusion:						
Number of dominant wetland indicator j	plants: 6	Number of domi	nant non-wetland indic	cator plants: 0		
ls the number of dominant wetland plan	ts equal to or greater than the number of dominant	non-wetland plants? yes				

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form Prepared by: Goddard Consulting LLC Project location: Antone Rd, Avon

DEP File #·

If vegetation alone is presumes 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	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation 1. Soil Survey Is there a published soil survey for this site?	 Depth to free water in observation hole: Depth to soil saturation in observation hole: Water marks: Drift Lines: Sediment deposits:
Are field observations consistent with soil survey?	Drainage patterns in BVW: Oxidized rhizoshperes: Water-stained leaves:
2. Soil Description Matrix Color Mottles Color or Texture O 0-10" 10YR2/1 C 10-20 10YR6/1	Recorded data (stream, lake, or tidal gauge; aerial photo; other): Other:
	Vegetation and Hydrology Conclusion for Downgradient of GC-34
Remarks	vesnoNumber of wetland indicator plantsX
3. Other:	Wetland hydrology present: X other indicators of hydrology X
Conclusion: Is soil hydric? yes no	Sample location is in a BVW X Submit this form with the Request for Determination of Applicability or Notice of Intent

Attachment C:

StreamStats Report

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form ant: Prepared by: Goddard Consulting LLC Project location: Antone Rd, Avon 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)

Applicant: Check all that apply:

DEP File #:

Section I. Vegetation	Observation Plot Number: A-22	Transect Num	ber: Upgradient	Date of Delineati	ion: 15-Oct-19
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<u>Tree Laver</u> Red Maple Red Oak American beech Northem white oak	Acer rubrum Quercus rubra Fagus grandifolia Quercus alba	0% 36% 0% 20%	0.0% 64.3% 0.0% 35.7%	No Yes No Yes	FAC* FACU FACU FACU
<u>Sapling Laver</u> Red Oak	Quercus rubra	3%	100.0%	Yes	FACU
<u>Shrub Layer</u> White pine Witch hazel	Pinus strobus Hamamelis virginiana	20% 36%	35.7% 64.3%	Yes Yes	FACU FACU
<u>Climbing Woody Vine</u> <u>Ground Cover</u> Princess-pine	Dendrolycopodium obscurum	10%	100.0%	Yes	FACU
Remarks: * An asterisk after a Morphological Adaptations: 0	common plant name indicates stunted growth; ** indicates extre Description:	mely stunted growth			
* An asterisk after indicator status denotes wetlands p	lants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; o	or plants listed as FAC, FACW,	or OBL.	
Vegetation conclusion:		N T N A T			
Number of dominant wetland indicator p	plants: 0	Number of domi	inant non-wetland indi	cator plants: 6	
Is the number of dominant wetland plan	ts equal to or greater than the number of dominan	t non-wetland plants? no			

If vegetation alone is presumes 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	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation 1. Soil Survey Is there a published soil survey for this site?	 Depth to free water in observation hole: Depth to soil saturation in observation hole: Water marks: Drift Lines: Sediment deposits:
Are field observations consistent with soil survey? yes no Remarks:	Drainage patterns in BVW: Oxidized rhizoshperes: Water-stained leaves:
Depth (inches) Matrix Color Mottles Color or Texture A 0-6" 10YR2/2 B 6-18" 10YR5/4	Recorded data (stream, lake, or tidal gauge; aerial photo; other): Other:
	Vegetation and Hydrology Conclusion for Upgradient of A-22
Remarks:	vesnoNumber of wetland indicator plants>= number of non-wetland plantsX
	Wetland hydrology present: hydric soils present X
3. Other:	other indicators of hydrology present X
Conclusion: Is soil hydric? yes I ho	Sample location is in a BVW X Submit this form with the Request for Determination of Applicability or Notice of Intent

Sample Layer and Plant Species Scientific name % Cover % Dominane View Dominane View (Celebrar) Wethand Indicate (Celebrar) Rid Maple Accer rabrum 30% 64.3% Yes PAC* Rid India Quercus rubru 30% 51.37% Yes PAC* Signific Larer Red maple Accer rubrum 10% 100.0% Yes PAC* Stational Larer Clebra abs[ibla 36% 50.0% Yes PAC* Stational Larer Clebra abs[ibla 36% 50.0% Yes PAC* Stational Learer Clebra abs[ibla 36% 50.0% Yes PAC* Stational Learer Clebra abs[ibla 36% 50.0% Yes PAC* Stational Learer Sinicar consult/folia 36% 50.0% Yes PAC* Climblen Wander Sinicar consult/folia 20% 100.0% Yes PAC* Versteil Learer Clebra abs[ibla 20%	Section I. Vegetation	Observation Plot Number: A-22	Transect Num	ber: Downgradient	Date of Delineat	Date of Delineation: 15-Oct-19		
The Lawe Red Out Acter rubrum M6% 64.3% Vis PAC* Red Out Quercase rubrus 2075 33.7% Vis PAC* Stadia Lawer Red maple Acer rubrus 10% 100.0% Yes PAC* Stadia Lawer Acer rubrus 10% 100.0% Yes PAC* Stadia Lawer Acer rubrus 10% 50.0% Yes PAC* Stadia Lawer Carpinos condiciona 30% 50.0% Yes PAC* Stadia Lawer South population Cleritors abstificita 30% 50.0% Yes PAC* Climiting Weeder Vinet Smilax rotundificita 20% 100.0% Yes PAC* Remarks: * An asterisk affer common plant anne indicates stunted growth; ** indicates extended stunted growth ** indicates extended stunted plants; * 100.0% Yes PAC* Morphological Adaptations; 0 Carbon Decription: - - - Number of dominant uon-wetland indicator plants; 1 Number of dominant uon-wetland indicator plants; 1 - -	Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*		
ked ook Quercus rubra 20% 35.7% Yes FACU Sadiar Lance Ked maple 10% 100.0% Yes FAC* Strong leggedback Acer rubran 10% 100.0% Yes FAC* Strong leggedback Acer rubran 10% 50.0% Yes FAC* Strong leggedback Clerbra alnifolia 36% 50.0% Yes FAC* Clining Veade Vine Smilax roundifolia 20% 100.0% Yes FAC* Clining Veade Vine Smilax roundifolia 20% 100.0% Yes FAC* Strong begreback Clerbra alnifolia 20% 100.0% Yes FAC* Marphological Adaptation: * an asterial & inducator trained andialogia trained and the Weidback to the common plant anne indicates extended growth. ** molecular growth Marphological Adaptation: * Description: * * * Vegetation conclusion: Worthelo	<u>Tree Laver</u> Red Maple	Acer ruhrum	36%	64.3%	Yes	FAC*		
Statistic Larer Red maple Acer rubrum 10% 100.0% Yes FAC* Street Larer Clethra dialfolia 36% 50.0% Yes FAC* Sweet peppehush Clethra dialfolia 36% 50.0% Yes FAC* Sweet peppehush Clethra dialfolia 20% 100.0% Yes FAC* Climbing Woody Vine smilex rotundifolia 20% 100.0% Yes FAC* Sweet peppehush Clethra alaifolia 20% 100.0% Yes FAC* Sweet peppehush Clethra alaifolia 20% 100.0% Yes FAC* More inclustore Clethra alaifolia 20% 100.0% Yes FAC* Sweet peppehush Clethra alaifolia 20% 100.0% Yes FAC* More inclustore Description Street alaifolia 20% 100.0% Yes FAC* More inclustore Description Street alaifolia 20% 100.0% Yes FAC* More inclustore Description Description Street alaifolia Street alaifol	Red oak	Quercus rubra	20%	35.7%	Yes	FACU		
Red maple Ace rubrum 10% 100.0% Yes FAC* Strub Laver Sweet peppebbash American hombeam Clethra alnifolia Carptines caroliniana 36% 50.0% Yes FAC* Climbine Woody Vine inose brier Smilar roundifolia 20% 100.0% Yes FAC* Ground Cover Sweet peppebbash Clethra alnifolia 20% 100.0% Yes FAC* Ground Cover Sweet peppebbash Clethra alnifolia 20% 100.0% Yes FAC* Ground Cover Sweet peppebbash Clethra alnifolia 20% 100.0% Yes FAC* Morphological Adaptations: 0 Description:	Sapling Layer							
Shrub Lawer Clethra alnifolia 36% 50.0% Yes FAC* Sweet pepperbush Carpinus caroliniana 36% 50.0% Yes FAC* Climbing Woody Vine 36% 50.0% Yes FAC* Climbing Woody Vine 36% 50.0% Yes FAC* Climbing Woody Vine Smilax rotundifolia 20% 100.0% Yes FAC* Ground Cover Smilax rotundifolia 20% 100.0% Yes FAC* Marcisca Clehra alnifolia 20% 100.0% Yes FAC* Moreida daptations: 0 Description:	Red maple	Acer rubrum	10%	100.0%	Yes	FAC*		
Sweet pepperbush Clethra alnifolia 36% 50.0% Yes FAC* American hombean Carpinus caroliniana 36% 50.0% Yes FAC* Climbing Woody Vine 36% 50.0% Yes FAC* Climbing Woody Vine 36% 50.0% Yes FAC* Climbing Woody Vine Sweet pepperbush 20% 100.0% Yes FAC* Ground Cover Sweet pepperbush Clethra alnifolia 20% 100.0% Yes FAC* Morphological Adaptations: 0 Description:	Shrub Layer							
Climbing Woody Vine Horse brier Smilax roundifolia 20% 90.0% Fis FAC* Genund Cover Sweet pepperbush Smilax roundifolia 20% 100.0% Yes FAC* Genund Cover Sweet pepperbush Clethra alnifolia 20% 100.0% Yes FAC* Morphological Adaptations: 0 Description:	Sweet pepperbush	Clethra alnifolia Carpinus caroliniana	36% 36%	50.0% 50.0%	Yes Ves	FAC* FAC*		
Climbing Woody Vine Smilax rotundifolia 20% 100.0% Yes FAC* Ground Cover Sweet pepperbush Clethra alnifolia 20% 100.0% Yes FAC* Sweet pepperbush Clethra alnifolia 20% 100.0% Yes FAC* Morphological Adaptations: 0 Description:								
Ground Cover Sweet peeperbush Clethra alnifolia 20% 100.0% Yes FAC* Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth Image: State Stat	<u>Climbing Woody Vine</u> Horse brier	Smilax rotundifolia	20%	100.0%	Yes	FAC*		
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 non-wetland indicator plants: 1	<u>Ground Cover</u> Sweet pepperbush	Clethra alnifolia	20%	100.0%	Yes	FAC*		
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: 6								
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: 6 Number of dominant non-wetland indicator plants: 1	Remarks: * An asterisk afte	r common plant name indicates stunted growth; ** indicates extrem	nely stunted growth					
Vegetation conclusion: Number of dominant wetland indicator plants: 6 Number of dominant non-wetland indicator plants: 1	Morphological Adaptations: U	Description: 	r plants in the genus Sphagnum: o	r nlants listed as FAC FACW	or OBL			
Number of dominant wetland indicator plants: 6 Number of dominant non-wetland indicator plants: 1	Vegetation conclusion:	plants. plants listed in the wetlands i lotterion Act (MOL 0.151, 5.40)	, pranto in the genus opnaghum, t	n pranto listeu as l'AC, l'AC W,	of ODL.			
	Number of dominant wetland indicator	·plants: 6	Number of domi	nant non-wetland indi	cator plants: 1			

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form Prepared by: <u>Goddard Consulting LLC</u> Project location: <u>Antone Rd, Avon</u> Project location: <u>Antone Rd, Avon</u>

DEP File #:

If vegetation alone is presumes adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

Applicant:

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation 1. Soil Survey Is there a published soil survey for this site? yes Is there a published soil survey for this site? yes yes	 Site inundated: Depth to free water in observation hole: Depth to soil saturation in observation hole: Water marks: Drift Lines: Sediment deposits:
Are field observations consistent with soil survey? yes no Remarks:	I Drainage patterns in BVW: Oxidized rhizoshperes: Vater-stained leaves:
2. Soil Description Horizon Depth (inches) Matrix Color Mottles Color or Texture O 0-10" 10YR2/1 Or Texture C 10-20 10YR6/1	Recorded data (stream, lake, or tidal gauge; aerial photo; other): Other:
	Vegetation and Hydrology Conclusion for Downgradient of A-22
Remarks:	yesnoNumber of wetland indicator plantsX
3. Other:	Wetland hydrology present: hydric soils present X other indicators of hydrology present X
Conclusion: Is soil hydric? yes no	Sample location is in a BVW X Submit this form with the Request for Determination of Applicability or Notice of Intent

Section II. Indicators of Hydrology	Other Indicators of Hydrology: (check all that apply and describe)
Hydric Soil Interpretation 1. Soil Survey Is there a published soil survey for this site?	 Depth to free water in observation hole: Depth to soil saturation in observation hole: Water marks: Drift Lines: Sediment deposits:
Are field observations consistent with soil survey?	Drainage patterns in BVW: Oxidized rhizoshperes: Water-stained leaves:
2. Soil Description Matrix Color Mottles Color or Texture O 0-10" 10YR2/1 C 10-20 10YR6/1	Recorded data (stream, lake, or tidal gauge; aerial photo; other): Other:
	Vegetation and Hydrology Conclusion for Downgradient of GC-34
Remarks	vesnoNumber of wetland indicator plantsX
3. Other:	Wetland hydrology present: X other indicators of hydrology X
Conclusion: Is soil hydric? yes no	Sample location is in a BVW X Submit this form with the Request for Determination of Applicability or Notice of Intent

Attachment C:

StreamStats Report

StreamStats Report

Region ID: MA Workspace ID: MA20200302170740021000 Clicked Point (Latitude, Longitude): 42.11752.-10.40245 Time: 2020-03-02 12:07:56 -0500

StreamStats



Basin Characteristics

busin characteristics			
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.23	square miles
DRFTPERSTR	Area of stratified drift per unit of stream length	0	square mile per mile
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless
BSLDEM250	Mean basin slope computed from 1:250K DEM	0.196	percent
PCTSNDGRV	Percentage of land surface underlain by sand and gravel deposits	0	percent
FOREST	Percentage of area covered by forest	31.96	percent
BSLDEM10M	Mean basin slope computed from 10 m DEM	2.98	percent
ELEV	Mean Basin Elevation	249	feet
LC06STOR	Percentage of water bodies and wetlands determined from the NLCD 2006	4.61	percent

Flow-Duration Statistics Parameterspan 0.4135

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.23	square miles	1.61	149
DRFTPERSTR	Stratified Drift per Stream Length	0	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1
BSLDEM250	Mean Basin Slope from 250K DEM	0.196	percent	0.32	24.6

Flow-Duration Statistics Disclaimers[Statewide Low Flow W8R00 4135]

Flow-Duration Statistics Flow Reports and the Water 4128					
Statistic	Value	Unit			
50 Percent Duration	0.213	ft^3/s			
60 Percent Duration	0.123	ft^3/s			
70 Percent Duration	0.0554	ft^3/s			
75 Percent Duration	0.0385	ft^3/s			
80 Percent Duration	0.0159	ft^3/s			
85 Percent Duration	0.00884	ft^3/s			
90 Percent Duration	0.00365	ft^3/s			
95 Percent Duration	0.00157	ft^3/s			
98 Percent Duration	0.00105	ft^3/s			
99 Percent Duration	0.000663	ft^3/s			

Flow-Duration Statistics Citations

Ries, K.G., III, 2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (http://pubs.usgs.gov/wrl/wrl004135/)

Low-Flow Satistics Parameters@usewaku.www.www.eng							
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit		
DRNAREA	Drainage Area	0.23	square miles	1.61	149		
BSLDEM250	Mean Basin Slope from 250K DEM	0.196	percent	0.32	24.6		
DRFTPERSTR	Stratified Drift per Stream Length	0	square mile per mile	0	1.29		
MAREGION	Massachusetts Region	0	dimensionless	0	1		
Low-Flow Statistics Disclaimersphereductor free waters erzg							
One or more of the parameters is outside the sugge	sted range. Estimates were extrapolated with unknown errors						
Low-Flow Statistics Flow Report (Statistics Flow Water 413)							
Statistic			Value	Unit			
7 Day 2 Year Low Flow			0.00293	ft^3/s			
7 Day 10 Year Low Flow			0.00041	ft^3/s			

Low-Flow Statistics Citations

Ries, K.G., III, 2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (http://pubs.usgs.gov/wri/wri004135/)

August Flow-Duration Statistics Parameters(Statewide Low Flow Wit

ngan i nin ananini ananani kananani kanananani kanananan							
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit		
DRNAREA	Drainage Area	0.23	square miles	1.61	149		
BSLDEM250	Mean Basin Slope from 250K DEM	0.196	percent	0.32	24.6		
DRFTPERSTR	Stratified Drift per Stream Length	0	square mile per mile	0	1.29		
MAREGION	Massachusetts Region	0	dimensionless	0	1		

August Flow-Duration Statistics Disclaimers(Statewide Low Flow Withto 4135)

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors				
ugust Flow-Duration Statistics Flow ReportswankLaw flow Interacting				
Statistic	Value	Unit		
August 50 Percent Duration	0.0116	ft*3/s		

Ries, K.G., III,2000, Methods for estimating low-flow statistics for Massachusetts streams: U.S. Geological Survey Water Resources Investigations Report 00-4135, 81 p. (http://pubs.usgs.gov/wri/wri004135/)

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StreamStat

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit	
DRNAREA	Drainage Area	0.23	square miles	0.01	1.99	
PCTSNDGRV	Percent Underlain By Sand And Gravel	0	percent	0	100	
FOREST	Percent Forest	31.96	percent	0	100	
MAREGION	Massachusetts Region	0	dimensionless	0	1	
Probability Statistics Flow Report/twwwwire/hourbacking						
PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other - see report)						
Statistic			Value	Unit	PC	
Probability Stream Flowing Perennially			0.648	dim	71	

Probability Statistics Citations

Bent, G. C., and Steeves, P.A. 2006, A revised logistic regression equation and an automated procedure for mapping the probability of a stream flowing perennially in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2006–5031, 107 p. (http://pubs.usgs.gov/sir/2006/5031/pdfs/SIR_2006-5031rev.pdf)

Bankfull Statistics Parameterspandul azemin storo 2009					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.23	square miles	0.6	329
BSLDEM10M	Mean Basin Slope from 10m DEM	2.98	percent	2.2	23.9
Bankfull Statistics Disclaimerstand to which secure a seq					
One or more of the parameters is autilide the suggested range. Estimates were extrapolated with withown errors					
Bankfull Statistics Flow Report/Investment stores store					
Statistic		Val	ue	Unit	
Bankfull Width		7.2	4	ft	
Bankfull Depth		0.5	53	ft	

3.94

6.28

ft^2

ft^3/s

Bankfull Area Bankfull Streamflow

Bankfull Statistics Citations

Bent, G.C., and Waite, A.M., 2013, Equations for estimating bankfull channel geometry and discharge for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2013-5155, 62 p., (http://pubs.usgs.gov/sir/2013/5155/)

Peak-Flow Statistics Parametersyva salvava 2016 533(
Parameter Code	Parameter Name		Value	Units		Min Limit	Max Limit
DRNAREA	Drainage Area		0.23	square miles		0.16	512
ELEV	Mean Basin Elevation		249	feet		80.6	1948
LC06STOR	Percent Storage from NLCD2006		4.61	percent		0	32.3
Peak-Row Statistics Row Report/Nationals 2015 5100							
Statistic		Value	Unit		PII	Plu	SEp
2 Year Peak Flood		12.9	ft*3/s		6.51	25.7	42.3
5 Year Peak Flood		22.1	ft*3/s		10.9	44.6	43.4
10 Year Peak Flood		29.5	ft*3/s		14.2	61.2	44.7
25 Year Peak Flood		40.4	ft*3/s		18.8	86.9	47.1
50 Year Peak Flood		49.6	ft*3/s		22.3	110	49.4
100 Year Peak Flood		59.4	ft*3/s		25.9	137	51.8
200 Year Peak Flood		70.2	ft*3/s		29.6	167	54.1
500 Year Peak Flood		85.9	ft*3/s		34.5	214	57.6

Peak-Flow Statistics Citations

Zarriello, P.J., 2017, Magnitude of flood flows at selected annual exceedance probabilities for streams in Massachusetts: U.S. Geological Survey Scientific Investigations Report 2016-5156, 99 p. (https://dx.doi.org/10.3133/sir20165156)

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Application Version: 4.3.11