# Lawrence Street, Norfolk Abbreviated Notice of Resource Area Delineation

Town of Norfolk Conservation Commission October 2017

BSC Job #89320.08

Prepared by:



33 Waldo Street Worcester, MA 01608



33 Waldo Street Worcester, MA 01608

Tel: 508-792-4500 800-288-8123

www.bscgroup.com

November 20, 2017

Town of Norfolk Conservation Commission Town Hall Room 105c One Liberty Lane Norfolk, MA 02056

RE: Abbreviated Notice of Resource Area Delineation Application, Lawrence Street,

Norfolk, Massachusetts; BSC Job #89320.08

Dear Members of the Conservation Commission:

BSC Group, Inc. (BSC) is pleased to submit this Abbreviated Notice of Resource Area Delineation (ANRAD) application for the wetland resource areas adjacent to Lawrence Street (the Site). This application is being submitted to the Conservation Commission for review and approval of wetland resource areas, including Bank, Bordering Land Subject to Flooding, and a short area of Bordering Vegetated Wetland off the roadway right of way. This application is being submitted in accordance with the Massachusetts Wetlands Protection Act and the Town of Norfolk Wetlands Protection By-law.

Please do not hesitate to contact our office with any inquiries you may have.

Sincerely,

BSC Group, Inc.

Ingeborg E. Hegemann Vice President

cc: Jack Hathaway, Town Administrator

Tugeborg Ettegernann

Department of Environmental Protection, Central Regional Office, 8 New Bond Street, Worcester, MA 01606

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Engineers

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Scientists

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# 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
	Norfolk
	City/Town

#### A. General Information

	Α.	. General illiorillatio	11			
	1.	Project Location (Note: elec	tronic filers will clic	k on button for GIS loo	cator):	
		Lawrence Street		Norfolk	02056	
		a. Street Address		b. City/Town	c. Zip Code	
		1 20 1 11 22 1		42°05'49.5"N	71°21'07.1"W	
		Latitude and Longitude:		d. Latitude	e. Longitude	
		f. Assessors Map/Plat Number		g. Parcel /Lot Numb	per	
mportant: When illing out forms	2.	Applicant:				
on the computer, use only the tab		Jack		Hathaway		
key to move your		a. First Name		b. Last Name		
cursor - do not use the return		Town of Norfolk Town Admir	nistrator			
(ey.		c. Organization				
		One Liberty Lane, Town Hal	I, Room 205			
tab		d. Mailing Address				
		Norfolk		MA	02056	
		e. City/Town		f. State	g. Zip Code	
return		508-440-2855				
		h. Phone Number i. Fa:	x Number	j. Email Address		
	3.	Property owner (if different for	rom applicant):	Check if more than one owner (attach additional sheet with names and contact information)		
		a. First Name		b. Last Name		
		c. Organization				
Motor		d. Mailing Address				
Note: Before completing this orm consult your		e. City/Town		f. State	g. Zip Code	
ocal		h. Phone Number i. Fa:	x Number	j. Email Address		
Conservation Commission	4.	Representative (if any):				
egarding any municipal bylaw		Ingeborg		Hegemann		
or ordinance.		a. Contact Person First Name	-	b. Contact Person Last N	Name	
		BSC Group, Inc.				
		c. Organization				
		33 Waldo Street				
		d. Mailing Address				
		Worcester		MA	01608	
		e. City/Town		f. State	g. Zip Code	
			-792-4509	ihegemann@bscgro	oup.com	
		h. Phone Number i. Fa:	x Number	j. Email Address		
Fees will be	5.	Total WPA Fee Paid (from a	ttached ANRAD W	etland Fee Transmitta	al Form):	
calculated for online users.		exempt	exempt		exempt	
		a. Total Fee Paid	b. State Fe	ee Paid	c. City/Town Fee Paid	

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	Document Transaction Number
	Norfolk
	Citv/Town

#### B. Area(s) Delineated

			78 - Off Road ROW					
1.	Bordering \	Vegetated Wetland (BVW)	Linear Feet of Boundary Delinea	ated				
2.	2. Check all methods used to delineate the Bordering Vegetated Wetland (BVW) boundary:							
	a. MassDEP BVW Field Data Form (attached)							
	ь.   Other Methods for Determining the BVW boundary (attach documentation):							
	1.	50% or more wetland indicator plan	ts					
	2. Saturated/inundated conditions exist							
	3.	3. Groundwater indicators						
	4.	Direct observation						
	5. 🗌	Hydric soil indicators						
	6.	6. Credible evidence of conditions prior to disturbance						
3.	Indicate any other resource area boundaries that are delineated:							
Bank 1,074								
a. R	esource 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. Subject to 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.  $\boxtimes$  List the titles and final revision dates for all plans and other materials submitted with this Abbreviated Notice of Resource Area Delineation.

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

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

Prov	Provided by MassDEP:					
	MassDEP File Number					
	Document Transaction Number					
	Norfolk					

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. Tee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to the attached Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number	3. Check date
4. State Check Number	5. Check date
6. Payor name on check: First Name	7. Payor name on check: Last Name

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

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

Mas	DEP File Number
Doc	ment Transaction Numbe
Nor	folk
City/	Town

### E. Signatures

I certify under the penalties of perjury that the foregoing Abbreviated Notice of Resource Area Delineation and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

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

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

01 04/1-	11/4/2017
1. Signature of Applicant	2. Date
3. Signature of Property Owner (if different)	4. Date U- 20 · 17
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.

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



return key.



☐ Online users: check box if fee exempt.

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

### **ANRAD Wetland Fee Transmittal Form**

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

Α.	Арр	licant Inforn	nation						
1.	Locati	on of Project:							
		nce Street		Norfolk					
		t Address		b. City/Town					
	c. Fee a	amount		d. Check number					
2.	Applic	ant:							
	Jack		Hathaway		Town Admir	nietrator			
	a. First	Name	b. Last Name		c. Company	iistrator			
		iberty Lane, Town			o. copay				
		ng Address	Tidii, 1100iii 200						
	Norfol	=		M	Δ	20256			
	e. City/1				State	g. Zip Code			
						9. — P			
	h. Phon	e Number							
3.	Prope	rty Owner (if differ	ent):						
	a. First	Name	b. Last Name	1	c. Company				
	d. Mailir	ng Address							
	e. City/1	Γown		f. S	State	g. Zip Code			
	h. Phon	e Number							
R	Fees	2							
app Are	olicable a Delin ivity. Borde	project type). The eations, is \$200 a	maximum fee for eac	e Area Delineation incl ch ANRAD, regardless ith a single-family hous	of the number	er of Resource			
	1. 🔲	single family house project	a. feet of BVW	x \$2.00 =	b. Fee for	BVW			
	2. 🖂	all other	78	Λ <b>Ψ=.30</b> =		= : • •			
	2.	projects	a. feet of BVW	x \$2.00 =		exempt b. Fee for BVW			
	Other	Resource Area (e	.g., bank, riverfront ar	ea, etc.):					
	3. 🗌	single family							
	э. 🗀	house project	a. linear feet	near feet x \$2.00 =					
	4. 🛛	all other	1,074		b. Fee exempt				
	4.	projects	a. linear feet	x \$2.00 =	b. Fee				
		projecto			evemnt				
			i Olai Fee	for all Resource Area	ree				
				State share of filing fe	e: $\frac{\text{exempt}}{5. \ 1/2 \text{ of to}}$	otal fee <b>less</b> \$12.50			
			City/	Town share of filing fe	e. exempt				
			City/	Town share of filling le	6. 1/2 of to	otal fee <b>plus</b> \$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.)

#### Wetland Resource Areas along Lawrence Street

Resource Areas along Lawrence Street include Bank (state and local definitions) and Bordering Land Subject to Flooding (BLSF). In addition, there is an area of Bordering Vegetated Wetland off the ROW. The Buffer Zone to the Bordering Vegetated Wetland (BVW) extends onto Lawrence Street.

#### Bordering Land Subject to Flooding

The accompanying plan, titled Plan to Accompany an Abbreviated Notice of Resource Area Delineation, shows the contours along Lawrence Street and shows the location of the Bordering Land Subject to Flooding at elevation 175.

#### Bank

The Bank along Lawrence Street is largely defined by fill activities associated with road construction.

The state definition of Bank, at 310 CMR 10.54 (2) is as follows:

- "(a) A Bank is the portion of the land surface which normally abuts and confines a water body. It occurs between a water body and a vegetated bordering wetland and adjacent flood plain, or, in the absence of these, it occurs between a water body and an upland...
- (c) The upper boundary of a Bank is the first observable break in the slope or the mean annual flood level, whichever is lower. The lower boundary of a Bank is the mean annual low flow level."

The Norfolk Bylaw definition of Bank, at Section 5, Definitions, is as follows:

"Bank shall include the land area which normally abuts and confines a water body; the lower boundary being the mean annual low flow level, and the upper boundary being the first observable break in the slope or the mean annual flood level, whichever is higher."

Water levels in Bush Pond are controlled by the earthen dam to the north of Lawrence Street and the mean annual flood level is defined by the dam at approximate elevation 173.2 (plus or minus), so BSC rounded up to elevation 174. Under the state definition, the upper boundary of the Bank is 174.

Under the local bylaw definition, the upper boundary of Bank is the first observable break in slope, which shows on the plan as elevation 176 except along the portions of the Bank at either end of Lawrence Street, when the bank extends upward to meet upland elevations.

#### Bordering Vegetated Wetland (BVW)

An area of Bordering Vegetated Wetland was flagged to the northwest of Lawrence Street adjacent to the bituminous drive. The BVW was determined by evaluation of soils and vegetation and a data sheet is included in the ANRAD application materials. While this BVW is not within the Lawrence Street right of way, the buffer zone to the BVW extends over Lawrence Street in this area. Flags B118 through B 120 are shown on the plan.

Applicant <u>DiPlacido</u> Prepared by: <u>BSC Group</u> Check all that apply:  Vegetation alone presumed adequate to delineate BWW boundary:fill out Section I only Vegetation and other indications of hydrology used to delineate BWW boundary: fill out sections I and Method other than dominance test used (attach additional information)					Nortoik, MA Flag B121				
Section I. Vegetation	on		Transect 1		Plot 1	Date 8/9/2017			
A. Sample Layer a	nd Plant Spe	cies			B. Basal Area (or percent cover)	C. Percent Dominance	D. Domi	inant Plant	Wetland Indicator Status
Trees	Red Maple	e	Acer rubrum		19.6	100.0%	Υ		FAC*
				Total =	19.6				
Saplings	Red Maple	e	Acer rubrum		38.0%	100.0%	Υ		FAC*
Shrubs	Smooth A	rrowwood	Viburnum dentatum		20.5%	55.4%	Υ		FAC*
	Glossy Bu	ckthorn	Frangula alnus		10.5%				FAC*
	Highbush	Blueberry	Vaccinium corymbosu	m	3.0%	_			FACW*
	Maleberry		Lyonia ligustrina		3.0%				FACW*
Herbaceous	Glossy Bu Skunk-cat		Frangula alnus Symplocarpus foetidu	S	10.5% 10.5%				FACW* OBL*
Vines	Poison Ivy	,	Toxicodendron radical	าร	10.5%	100.0%	Υ		FAC*
due to physiological or mo Vegetation Conclu Number of dominan	orphological adapt sion at wetland indi	ations, describe the	e adaptation next to the asterisk.	5		Number of dominant n	on-wetland ind	licator plants:	0
			•		r of dominant non-wetlar	•			Yes
Section II. Indicate			boundary, submit this form with	the Request	for Determination of Applicability of		dralamı (abaalı	all that apply	
Hydric Soil Interpret		ogy				Other Indicators of Hydrology (check all that apply)  Site inundated?  Yes			
Soil Survey	auon								N/A
Is there a published	soil survey fo	r this site?	✓ Yes No			Depth to soil saturation			2"
title/date:	Soil Surve	y - Norfolk an	d Suffolk Counties, Mass			Water lines:			N/A
map number:	602					Drift Marks:			N/A
soil type mapped:	Urban Lar	id, 0 to 15 per	cent slopes			Sediment Deposits:			N/A
hydric soil inclusion	s:					Drainage Patterns in BVW: Yes			Yes
Are field observation	ns consistent	with soil surve	ey?		No	Oxidized Rhizosphere	s:		Yes
Remarks:						Water Stained Leaves			Yes
Soil Description		1	1			Recorded data (stream	n, tidal gauge;	aerial photo; ot	ther)
Horizon	Depth	Matrix			Mottles	0.11			
A B	0-6" 6+"	10YR 2/1	Sandy Loam		Redox.10YR 6/8 (10%)	Other:			
В	0+"	10YR 3/4	Loamy Sand			Number of wetland pla	nto > thon		
						number of non-wetland		√ Yes	☐ No
						Wetland hydrology pre	•		
			1			hydric soil		✓ Yes	□No
						other indicators		✓ Yes	□No
3. Other		п	•		•	Sample plot is in a BV	W	✓ Yes	☐ No
Is soil hydric?	✓ Yes	∟ No							

Applicant <u>DiPlacido</u> Prepared by: <u>BS</u> Check all that apply:  Vegetation alone presumed adequate to delineate BVW boundary:fill out Section I Vegetation and other indications of hydrology used to delineate BVW boundary: fill Method other than dominance test used (attach additional information)				BSC Group on I only v: fill out sections I and II		Project Location B-Series Wetland Off Lawrence Street Norfolk, MA Flag B121	
Section I. Vegetation	1		Transect 1	Plot 2	Date 8/9/2017	-	
A. Sample Layer and	d Plant Spe	cies		B. Basal Area (or percent cover)	C. Percent Dominance	D. Dominant Plant	Wetland Indicator Status
Trees	Northern C	Catalpa	Catalpa speciosa	703.1	100.0%	Y	FACU
Saplings	None		Total =	703.1			
oap.ii.gc							
Shrubs	Morrow's I	Honeysuckle	Lonicera morrowii	20.5%	66.1%	Y	FACU
	Glossy Bu	ckthorn	Frangula alnus	10.5%	33.9%	N	FAC*
Herbaceous	Glossy Bu	ckthorn	Frangula alnus	20.5%	66.1%	Y	FAC*
	Poison Ivy		Toxicodendron radicans	10.5%	33.9%	N	FAC*
Vines	Poison Ivy		Toxicodendron radicans	10.5%	50.0%	Y	FAC*
	Virginia Cr	reeper	Parthenocissus quinquefolia	10.5%	50.0%	Υ	FACU
FAC, FAC+, FACW-, FACW	, FACW+, or OI	BL; or plants with phy	siological or morphological adaptations. If a	ny plants are identified as wetland	indicator plants		
due to physiological or morp	hological adapt	ations, describe the a	adaptation next to the asterisk.				
Vegetation Conclusi							_
Number of dominant						on-wetland indicator plants:	3
			al to or greater than the number		•		No
			oundary, submit this form with the Request for	r Determination of Applicability or			
Section II. Indicator  Hydric Soil Interpretat		ogy			Site inundated?	drology (check all that apply)	N/A
Soil Survey	liOH				Depth to free water in	N/A	
Is there a published s	oil survey fo	r this site?	✓ Yes No		Depth to soil saturation	N/A	
title/date:			Suffolk Counties, Massachusetts		Water lines:	N/A	
map number:	602	y	ourion oburnos, massasmassus		Drift Marks:		N/A
soil type mapped:		d, 0 to 15 perce	ent slopes		Sediment Deposits:		N/A
hydric soil inclusions:		•	•		Drainage Patterns in B	VW:	N/A
Are field observations	consistent	with soil survey	? ✓ Yes	No	Oxidized Rhizospheres	3:	N/A
Remarks:					Water Stained Leaves	:	N/A
Soil Description					Recorded data (strean	n, tidal gauge; aerial photo; oth	ier)
Horizon	Depth	Matrix	Texture	Mottles			
Litter	1-0"				Other:	Upland plot	
0	0-2"		Organic Matter				
A	2-7"	10YR 4/6	Silty Loam		Number of wetland pla	L res	✓ No
В	7"+	10YR 5/3	Loam/Stones		number of non-wetland Wetland hydrology pre		
					hydric soil	Yes	✓ No
					other indicators	Yes	☑ No
3. Other	· ·	I.	<del>!</del>	<b>!</b>	Sample plot is in a BV		✓ No
Is soil hydric?	Yes	✓ No			1		





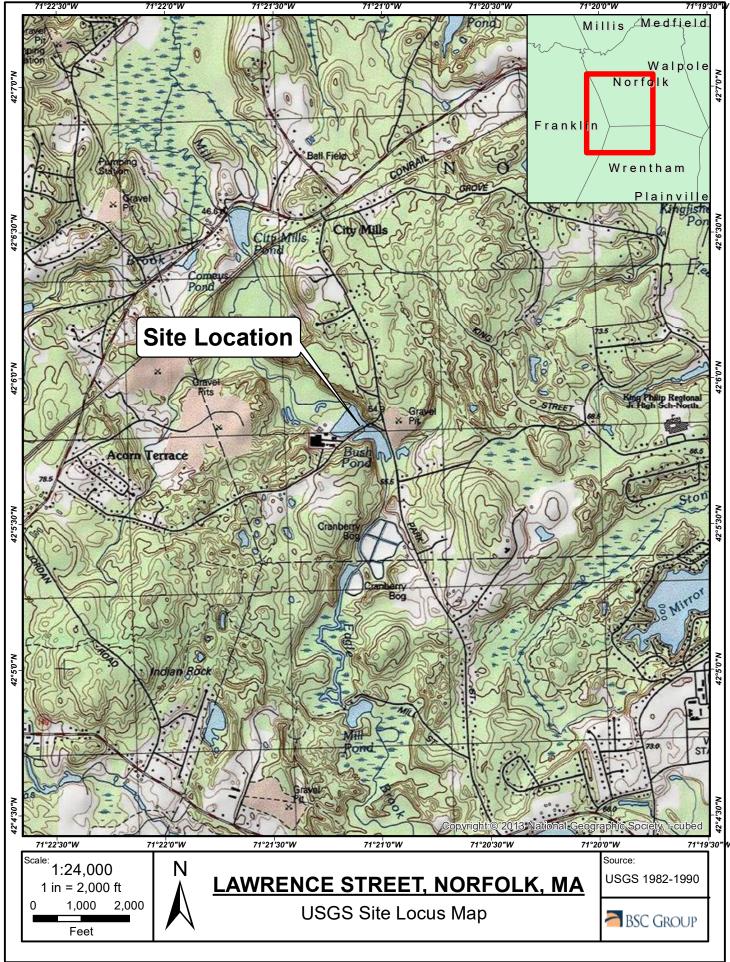
Culvert and Bank Abutting Bush Pond Located Along Lawrence Street, August 2017, Norfolk, MA



Bank Detail between Bush Pond and Lawrence Street, November 2017, Norfolk, MA



View of Culvert, August 2017



### Notification to Abutters Under the Massachusetts Wetlands Protection Act and the Norfolk Wetlands Protection Bylaw

In accordance with the second paragraph of Massachusetts General Laws
Chapter 131, Section 40 and the town of Norfolk Wetlands Protection Bylaw, you are notified of
the following:

- A. The name of the Applicant is The Town of Norfolk
- B. The Applicant has filed an Abbreviated Notice of Resource Area Delineation (ANRAD) with the Conservation Commission of the Town of Norfolk to define the Resource Areas subject to protection under the Massachusetts Wetlands Protection Act and the Town of Norfolk Wetlands Protection Bylaw.
- C. The address covered by the ANRAD is Lawrence Street as it crosses Bush Pond.
- D. No activity is currently proposed. The Applicant is seeking confirmation of Resource Areas as defined by the Massachusetts Wetlands Protection Act and the Norfolk Wetlands Protection Bylaw.
- E. Copies of the ANRAD may be examined at the Conservation Commission office, Town Hall Room 105c, One Liberty Land, Norfolk, MA 02056. The Commission's hours are as follows:

General Office: 9:00 A.M. - 6:00 P.M., Monday through Thursday

Agent's Hours: 9:00 A.M. - 3:00 P.M., Monday through Thursday

Town Hall is closed on Fridays

For more information call 508-541-8455

F. The Commission's next meeting is December 13, 2017. Information regarding the date, time and place of the public hearing may be obtained from the Conservation Commission office by calling 508-541-8455 during the hours listed above.

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

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

NOTE: You also may contact The Norfolk Conservation Commission or the Department of Environmental Protection (DEP) Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP call the Central Regional Office at 508-792-7650

Date: 10/18/2017

Town of Norfolk

txaabut

CERTIFIED ABUTTERS' LIST

Page 1

Parcel ID	Location	Owner Name/Address
Bridge	Lawrence St, Norfolk, Ma. 02056	•
	ABUTTERS	
0006-0001-0004	74 PARK ST	TOWN OF NORFOLK ONE LIBERTY LN NORFOLK, MA 02056
0006-0001-0022	14 LAWRENCE ST	PAULY MARK M & KATHRYN CAHILL 14 LAWRENCE ST NORFOLK, MA 02056
0006-0002-03-1	17 LAWRENCE ST	BUCKLEY & MANN INC. C/O STEPHEN MANN 5005 MOUNT OLIVE SHORES DR POLK CITY, FL 33868
0006-0002 <b>-</b> 03 <b>-3</b>	17 LAWRENCE ST	BUCKLEY & MANN INC. C/O STEPHEN MANN 5005 MOUNT OLIVE SHORES DR POLK CITY, FL 33868

Certified List of Record Owners as of January 1,2017

Kathleen Mulliveary

Norfolk, Ma. 02056

Conservation 100 Zone/R-3



