

February 23, 2022

NOTICE OF INTENT

Under the Wetlands Protection Act (M.G.L. c. 131, §40), and its Regulations (310 CMR 10.00), and the Town of Swampscott Application for Stormwater Management Permit

For

NEW ELEMENTARY SCHOOL 10 WHITMAN ROAD SWAMPSCOTT, MA 01907

Owner:

Town of Swampscott 22 Monument Avenue Swampscott, MA 01907

Prepared by:

NITSCH ENGINEERING, INC. 2 Center Plaza, Suite 430 Boston, MA 02108

Nitsch Project #13858

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SECTION 1

NOTICE OF INTENT FORMS WPA Form 3 - Notice of Intent



WPA Form 3 - Notice of Intent

A. General Information

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

	D :: !! M DED
1	Provided by MassDEP:
	MassDEP File Number
	Document Transaction Number

City/Town

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.

10 Whitman Ro	oad	Swampscott	01907
a. Street Address		b. City/Town	c. Zip Code
Latitude and Longi	itude:	42.47228	-70.8981
Editiddo and Eorigi	22-E1 (10 WHITMAN ROAD) 23-E (101 FOREST AVENUE)	d. Latitude	e. Longitude
f. Assessors Map/Plat N	Number	g. Parcel /Lot Number	
2. Applicant:			
Max		Kasper	
a. First Name		b. Last Name	
Town of Swam	pscott/ Swampscott Public	Schools	
c. Organization	,		
22 Monument	Avenue		
d. Street Address			
Swampscott		ЛΑ	01907
e. City/Town	f.	State	g. Zip Code
e. City/TOWIT			
78 <u>1-596-8830 x55</u>			
•		Email Address	
781-596-8830 x55 h. Phone Number . Property owner (re		t): Check if mo	re than one owner
781-596-8830 x55 h. Phone Number Property owner (re a. First Name	i. Fax Number j.		re than one owner
781-596-8830 x55 h. Phone Number Froperty owner (re a. First Name Town of Swam	i. Fax Number j.	t): Check if mo	re than one owner
781-596-8830 x55 h. Phone Number Froperty owner (re a. First Name Town of Swam c. Organization	i. Fax Number j. equired if different from applican pscott	t): Check if mo	re than one owner
781-596-8830 x55 h. Phone Number a. First Name Town of Swamp c. Organization 22 Monument A	i. Fax Number j. equired if different from applican pscott	t): Check if mo	re than one owner
781-596-8830 x55 h. Phone Number 8. Property owner (re a. First Name Town of Swamp c. Organization 22 Monument A d. Street Address	i. Fax Number j. equired if different from applican pscott Avenue	t): Check if mo	
781-596-8830 x55 h. Phone Number Property owner (re a. First Name Town of Swam c. Organization 22 Monument A d. Street Address Swampscott	i. Fax Number j. equired if different from applican pscott Avenue	t): Check if mo	01907
n. Property owner (re a. First Name Town of Swame c. Organization 22 Monument A d. Street Address	i. Fax Number j. equired if different from applican pscott Avenue	t): Check if mo	

Conway

dconway@nitscheng.com

b. Last Name

MA

f. State

j. Email address

N/A

b. State Fee Paid

i. Fax Number

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

David

a. First Name

c. Company

e. City/Town

N/A

d. Street Address
Boston

h. Phone Number

a. Total Fee Paid

857-206-8718

Nitsch Engineering

2 Center Plaza, Suite 430

02108

N/A

c. City/Town Fee Paid

g. Zip Code



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A. General Information (continued)

6. General Project Description:

The Town of Swampscott is proposing the construction of a new school building with parking lots, walkways, an athletic field, landscapes area, playgrounds, utilities, and a new stormwater management system. The Project will include some vehicular and pedestrian improvements in the neighboring 101 Forest Avenue parcel.

R	Ri	ıffc	r 70r	10 & D	ocource	Λroa Imn	act	e /4	(tomporary & pormanont)
	c. B	ook					d. F	Page	e Number
		County	2102	(10 Whitm 101 Fores	nan Road), t Ave)				ificate # (if registered land) 419(10 Whitman Road), 30(101 Forest Ave)
		sse							
8.	Pro	pert	y record	led at the	e Registry o	f Deeds for:			
	Pro	oject	Checkli	st and Si	igned Certif	ication.		- 1	-
									ppendix A: Ecological Restoration Limited
	lf ti	he pi	roposed	activity i	s eligible to	be treated as a	n Ec	olog	gical Restoration Limited Project (310
	2. L	imited	d Project 7	Гуре					
			ation Lin $^{\prime}$ es X	,	If yes, desc	cribe which limite	ed pi	rojed	pastal) or 310 CMR 10.53 (inland)? ect applies to this project. (See 310 CMR et and description of limited project types)
7b.	ls a	any p	ortion o	of the pro	posed activ	ity eligible to be	trea	ted a	l as a limited project (including Ecological
	9.	<u>X</u>	Other						
	7.	_	Agricul	ture (e.g.	., cranberrie	es, forestry)	8.	_	_ Transportation
	5.	_	Utilities	S			6.	_	Coastal engineering Structure
	3.	_	Comm	ercial/Ind	lustrial		4.	_	Dock/Pier
	1.	_	Single	Family H	lome		2.	_	Residential Subdivision
ra.	Pro	уест	rype C	necklist:	(Limited Pr	oject Types see	Sec	uon	n A. 70.)
70	a. Project Type Checklist: (Limited Project Types see Section A. 7b.)								

uffer Zone & Resource Area Impacts (temporary & permanent)

- 1. \(\frac{\text{\sc Buffer Zone Only}}{\text{- Check if the project is located only in the Buffer Zone of a Bordering}\) Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. _ Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Resource Area		Size of Proposed Alteration	Proposed Replacement (if any)
а. 🕳	Bank	1. linear feet	2. linear feet
b. 🕳	Bordering Vegetated Wetland	1. square feet	2. square feet
С. 🕳	Land Under Waterbodies and	1. square feet	2. square feet
	Waterways	3. cubic yards dredged	
Resour	ce Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. 🕳	Bordering Land Subject to Flooding	1. square feet	2. square feet
	Isolated Land	3. cubic feet of flood storage lost	4. cubic feet replaced
е. 🕳	Subject to Flooding	1. square feet	
		2. cubic feet of flood storage lost	3. cubic feet replaced
f. <u> </u>	Riverfront Area	1. Name of Waterway (if available) - spe	ecify coastal or inland
2.	Width of Riverfront Area	(check one):	
	_ 25 ft Designated D	ensely Developed Areas only	
	_ 100 ft New agricult	ural projects only	
	_ 200 ft All other proj	ects	
3.	Total area of Riverfront Are	ea on the site of the proposed proje	ct: square feet
4.	Proposed alteration of the	Riverfront Area:	
a. 1	total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
5.	Has an alternatives analysi	s been done and is it attached to the	nis NOI? Yes No
6.	Was the lot where the activ	rity is proposed created prior to Aug	gust 1, 1996? Yes No
Co	astal Resource Areas: (See	e 310 CMR 10.25-10.35)	

Note: for coastal riverfront areas, please complete Section B.2.f. above.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4.

5.

Resource Area		Size of Proposed Alteration		Proposed Replacement (if any)	
а. 🕳	Designated Port Areas	Indicate size un	der Land Under	the Ocean, below	
b. 🕳	Land Under the Ocean	1. square feet			
		2. cubic yards dredge	ed		
c. 🕳	Barrier Beach	Indicate size und	er Coastal Bead	ches and/or Coastal Dunes below	
d. 🕳	Coastal Beaches	1. square feet		2. cubic yards beach nourishment	
е. 🕳	Coastal Dunes	1. square feet		2. cubic yards dune nourishment	
		Size of Proposed	Alteration	Proposed Replacement (if any)	
f	Coastal Banks	1. linear feet			
g. —	Rocky Intertidal Shores	1. square feet			
h. 🕳	Salt Marshes	1. square feet		2. sq ft restoration, rehab., creation	
i. <u> </u>	Land Under Salt Ponds	1. square feet			
		2. cubic yards dredge	ed		
j. —	Land Containing Shellfish	1. square feet			
k. 🕳	Fish Runs			ks, inland Bank, Land Under the or Waterbodies and Waterways,	
		1. cubic yards dredge	ed		
l. _	Land Subject to Coastal Storm Flowage	1. square feet			
If the p	footage that has been ente			resource area in addition to the ve, please enter the additional	
a. square feet of BVW			b. square feet of S	alt Marsh	
Project Involves Stream Crossings					
a. number of new stream crossings			b. number of repla	cement stream crossings	



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C. Other Applicable Standards and Requirements

This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists - Required Actions

	(310 CMR 10.11).			
Stı	reamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review			
1.	Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the <i>Massachusetts Natural Heritage Atlas</i> or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm .			
	a Yes X No If yes, include proof of mailing or hand delivery of NOI to:			
	Natural Heritage and Endangered Species Program Division of Fisheries and Wildlife 1 Rabbit Hill Road Westborough, MA 01581			
	If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please			

complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.2.f, if applicable. If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).

с. 🤅	Submit	Supp	lementa	ıl Ir	ntormat	ion f	or	End	lang	ered	S	pec	es	Re	eview	/*
------	--------	------	---------	-------	---------	-------	----	-----	------	------	---	-----	----	----	-------	----

Percentage/acreage of property to	Percentage/acreage of property to be altered:				
(a) within wetland Resource Area	percentage/acreage				
(b) outside Resource Area	percentage/acreage				
2. Assessor's Map or right-of-way pla	Assessor's Map or right-of-way plan of site				

- 2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **
 - Project description (including description of impacts outside of wetland resource area & (a) ___ buffer zone)
 - Photographs representative of the site (b) ___

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.

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^{*} Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see https://www.mass.gov/ma- endangered-species-act-mesa-regulatory-review).



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 3 - Notice of Intent Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

1	Provided by MassDEP:
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C.	Other	Applicable	Standards a	ınd Requ	uirements ((cont'd)
----	-------	-------------------	-------------	----------	-------------	----------

	(c) MESA filing fee (fee information available at https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review).						
	Make check payable to "Commonwealth of Massachusetts - NHESP" and <i>mail to NHESP</i> at above address						
	Project	s altering 10 or more acres of land, also sub	mit:				
	(d) <u></u>	Vegetation cover type map of site					
	(e) <u></u>	Project plans showing Priority & Estima	ated Habitat boundaries				
	(f) OF	R Check One of the Following					
	1	https://www.mass.gov/service-details/e	MESA exemption applies. (See 321 CMR 10.14, exemptions-from-review-for-projectsactivities-in-to NHESP if the project is within estimated d 10.59.)				
	2. 🕳	Separate MESA review ongoing.	a. NHESP Tracking # b. Date submitted to NHESP				
	3. 🕳	Separate MESA review completed. Include copy of NHESP "no Take" dete Permit with approved plan.	rmination or valid Conservation & Management				
3.	For coasta		osed project located below the mean high water				
	a Not a	applicable – project is in inland resource	area only b Yes _ No				
	If yes, inclu	ude proof of mailing, hand delivery, or ele	ectronic delivery of NOI to either:				
	South Shore the Cape &	e - Cohasset to Rhode Island border, and Islands:	North Shore - Hull to New Hampshire border:				
	Division of Marine Fisheries - Southeast Marine Fisheries Station Attn: Environmental Reviewer 836 South Rodney French Blvd. New Bedford, MA 02744 Email: dmf.envreview-south@mass.gov Division of Marine Fisheries - North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: dmf.envreview-north@mass.gov						
	Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.						
	c. <u> </u>	this an aquaculture project?	d Yes No				
	If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).						



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Provided by MassDEP:

MassDEP File Number

Document Transaction Number

City/Town

C. Other Applicable Standards and Requirements (cont'd)

4.	Is any portion of the proposed	l project within an	Area of Critical Environm	nental Concern (ACEC)?
----	--------------------------------	---------------------	---------------------------	------------------------

Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the

Department.

а. 🕳	Yes	\underline{X}	No
a	162	4	NO

If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC

(provided on your 5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water receipt page) (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?

a. _ Yes X No

6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?

a. _ Yes \(\breez \) No

- 7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
 - a. X Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
 - 1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 - 2. A portion of the site constitutes redevelopment
 - 3. X Proprietary BMPs are included in the Stormwater Management System.
 - b. No. Check why the project is exempt:
 - 1. _ Single-family house
 - 2. _ Emergency road repair
 - 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). 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. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. A Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



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City/Town						

D. Additional Information (cont'd)

- 3. 🕹 Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI

4. △	List the titles and dates for all plans and other materials submitted with this NOI.					
Ν	ew Elementary School Permit Set					
a. P	lan Title					
Ν	itsch Engineering	David Conway				
b. P	repared By	c. Signed and Stamped by				
2/	/24/2022	As Noted				
d. F	inal Revision Date	e. Scale				
N	ew Elementary Stormwater Report		2/23/2022			
f. Ad	dditional Plan or Document Title		g. Date			
5. 🕳	If there is more than one property owner, please attach a list of these property owners not listed on this form.					
6. 🕳	Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.					
7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.						
8. 🕳	Attach NOI Wetland Fee Transmittal Form					
9. <u>X</u>	Attach Stormwater Report, if needed.					

E. Fees

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI 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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	Document Transaction Number					

City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent 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 by Certificate of Mailing or 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.

The project location.	, /
Signature of Applicant	3/2/2022
Signature of Property Owner (if different)	4. Date
5. Signature of Representative (Pany)	3/2/22 6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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.

SECTION 2

PROJECT NARRATIVE

PROJECT NARRATIVE CONTENTS

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1.0 EXECUTIVE SUMMARY

On behalf of the Applicant, the Town of Swampscott, Nitsch Engineering is filing the enclosed Notice of Intent (NOI) and Stormwater Management Permit with the Swampscott Conservation Commission for the proposed construction of the new Elementary School, which is partially located within jurisdictional buffer zone to wetland resource areas (subsequently referred to as the "Project"). The purpose of this NOI Application is to seek an Order of Conditions from the Swampscott Conservation Commission approving the proposed project under the *Wetlands Protection Act* (M.G.L. c. 131, §40), the *Rivers Protection Act* (M.G.L. c. 256, Acts of 1996) and their Regulations (310 CMR 10.00).

The Project site is located at 10 Whitman Road, Swampscott, Massachusetts (the Site). The Project consists of the construction of a 59,500 square-foot school building and various site improvements, including a new access roadways, parking lots, new utility services, new play fields, and a Stormwater Management System.

The Project will also include vehicular improvements to the northeastern edge of the existing 1.4-acre Unitarian Universalist Church of Greater Lynn, located at 101 Forest Avenue (the Church Site) parking lot to accommodate vehicular and pedestrian access to the new school building during construction and as a permanent access point.

PROPERTY OWNER:

Town of Swampscott/Swampscott Public Schools Max Kasper 22 Monument Avenue, Swampscott, MA 01907

ADDITIONAL PROPERTY OWNER:

Unitarian Universalist Church of Greater Lynn 101 Forest Ave, Swampscott, MA 01907

The proposed site improvements within the Buffer Zone include:

- Parking lot improvements;
- Paved vehicular access around the proposed building;
- Sewer, drainage, water, and gas utilities;
- Landscaping;
- Retaining walls;
- Rip-rap slope stabilization;
- Athletic Field; and
- Associated earthwork and revegetation.

2.0 EXISTING CONDITIONS

2.1 Existing Site Description

The 7.51-acre Site is located at 10 Whitman Road in Swampscott, Massachusetts (Figure 1 – USGS Locus Map and Figure 2 – Aerial Locus Map). The site is bounded by Forest Avenue and the Charles Ewing Woods to the south, residential properties to the east, Whitman Road to the North, and the Unitarian Universalist Church, located at 101 Forest Avenue (the Church Site), to the west.

The existing site development is concentrated in the eastern of the site and contains driveways and parking, paved play surfaces, walkways, landscaped areas, and the existing school building. The existing play fields are located on the west side of the site.

The existing school building has gas, electric, telecom, sanitary sewer, water and drain utility services. Majority of the Site impervious area and athletic field is collected by a closed drainage system, which discharges to an 18-inch drainpipe that flows north through the Site and towards Cedar Road. The eastern portion of the Site sheet flows to an existing catch basin at the northeastern edge of the Site, which discharges to a 6-inch drain line flowing east. The southeastern portion of the Site drains to the existing wetland system south of Forest Avenue. A large portion of the athletic fields and landscape areas sheet flows northwest towards the northwest wetland.

The Church Site parking lot drains north via a closed drainage system and sheet flow to the northwest wetland.

2.2 Wetland Resource Areas

The Project site is bordered to the west by a wetland system on the Unitarian Universalist Church property and to the south by a wetland system on the Charles Ewing Woods property. The Project site contains 100-foot buffer to Bordering Vegetated Wetlands (BVW). LEC Environmental Consultants Inc. conducted site visits on March 9, 2021 and December 16, 2021 to delineate these resource areas as outlined in Table 1. Detailed information on these resources is provided in the Wetland Resource Area Analysis Report, prepared by LEC, provided in Section 3.

Table 1. Jurisdictional Wetland Resource Areas

Wetland Resource Area	General Location	Flag Numbers (if applicable)
Bordering Vegetated Wetland (BVW)	To the northwest of the Project Site on the Unitarian Universalist Property	A1-A53
Bordering Vegetated Wetland (BVW)	To the south of the Project Site on the Charles Ewing Woods Property	WF 1-32

2.3 Other Environmental Considerations

FEMA Flood Zone

Based on the FEMA Flood Insurance Rate Maps for Swampscott (Community Panel Number 25009C0532G), the Project site is not located within a regulated flood zones including the FEMA 100-year floodplain. Refer to Figure 3 – FEMA Map.

NHESP Priority and Estimated Habitat

Based on the MASSGIS data layers for the 15th Edition of the Natural Heritage Atlas, effective August 1, 2021, the Project site is not located within designated Estimated Habitat of Rare Wildlife or Priority Habitat of Rare Species and does not contain any Certified Vernal Pools (Figure 4 – Natural Heritage and Endangered Species Program Map).

3.0 PROPOSED CONDITIONS

3.1 Overview of Proposed Work

The Town of Swampscott is proposing the construction of a new school building with parking lots, walkways, an athletic field, landscapes area, playgrounds, and utilities. The proposed project will result in a net increase in overall impervious area (building and pavement) of 2.5 acres (Table 2).

Table 2. Existing and proposed land cover type for the Project (School Site + Church Site)¹

Land Use	Existing (acres)	Proposed (acres)	Change
Impervious	2.62	5.11	+2.49
Pervious	4.89	2.40	-2.49
Total	7.51	7.51	

¹⁾ Land use areas and analysis include a portion of the existing Church Site to understand impact on the northern wetland.

The proposed project also includes the installation of a new stormwater management system that was designed in accordance with the MassDEP Stormwater Management Standards and the Town of Swampscott Stormwater Management Permit Requirements. See Stormwater Report for additional details.

There is minimal work proposed on the Unitarian Universalist Church site. Improvements will consist of the construction of new pedestrian sidewalks, striped crosswalks, pedestrian lighting and minimal changes to the layout of the parking lot. The areas of the new driveway alignment and repaving will be collected by a closed drainage system that is directed to and treat by the School Site stormwater management system.

3.2 Snow Removal

Generally, snow will be moved to the edge of roads, parking lots and walkways into grass and landscaped areas. Additionally:

- During typical snow plowing operations, snow shall be pushed to designated snow removal areas.
- Snow shall not be stockpiled in wetland resource areas or drainage system components.

4.0 BUFFER ZONE IMPACTS

The Project has been designed to avoid work or disturbance in wetland resource areas.

4.1 Proposed Work Within 100-foot Buffer Zone

The proposed site improvements within 100-foot Buffer Zone within the Site include:

- Parking lot improvements;
- Paved vehicular access around the proposed building;
- Sewer, drainage, water, and gas utilities;
- Landscaping;
- Retaining walls;
- Athletic Field; and

There is an increase of 7,760 sf of impervious area within the 100-ft buffer to BVW on the Site

The proposed improvements within the 100-foot Buffer Zone on the Church Site include:

- The addition of a pedestrian sidewalk and crosswalk;
- Realignment of the drive aisle and landscaped island.

There is a decrease of 280 sf of impervious area within the 100-ft buffer to BVW on the Church Site.

5.0 PROPOSED MITIGATION MEASURES

The proposed project includes mitigation measures to reduce the impact of the project on adjacent environmentally-sensitive areas.

5.1 Construction Period Erosion and Sedimentation Controls

Erosion and sedimentation controls are proposed to reduce the construction-related impact of the proposed project within the buffer zone.

The proposed project will disturb more than one acre of land, which requires the filing of a National Pollutant Discharge Elimination System (NPDES) Stormwater Construction General Permit. To apply for coverage under this General Permit, a Notice of Intent will be submitted to the U.S. Environmental Protection Agency prior to the commencement of construction by the Contractor. The NPDES Notice of Intent requires the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP) for construction activities. The SWPPP is a detailed erosion and sediment control plan that indicates the structural and non-structural erosion and sediment controls that will be employed, as appropriate, to control erosion on the construction site. A draft of the SWPPP is included in the Stormwater Report.

5.2 Post-Construction Stormwater Management

The proposed stormwater management system is designed in accordance with the MassDEP Stormwater Management Standards and the Town of Swampscott Stormwater Management Permit Requirements. Best Management Practices (BMPs) will be used to mitigate potential changes in runoff and provide water quality treatment.

Water quality treatment is provided per MassDEP Stormwater Standards see the Stormwater Report for additional details.

The Stormwater Report includes an Operation and Maintenance Plan that was prepared in compliance with Standard 9 of the 2008 MassDEP Stormwater Handbook to provide best management practices for implementing maintenance activities for the stormwater management system in a manner that minimizes impacts to wetland resource areas.

5.3 Long-Term Pollution Prevention

A Long-Term Pollution Prevention Plan has been prepared in compliance with the Standards 4 and 9 of the 2008 MassDEP Stormwater Handbook, see the Long-Term Pollution Prevention Plan in the Stormwater Report for additional details.

6.0 CONCLUSION

On behalf of the Applicant, Nitsch Engineering is filing the enclosed NOI Application with the Swampscott Conservation Commission for the construction of the New Elementary School. The project will require work within the Buffer Zone to Wetland Resource Areas under the Massachusetts Wetlands Protection Act (M.G.L. c. 131, §40) and its Regulations (310 CMR 10.00). This NOI report and supporting documentation provide a thorough description of the design details and regulatory compliance in accordance with the pertinent Wetland Statutes and Regulations. The Applicant seeks an Order of Conditions approving the Project as proposed.

SECTION 3

WETLAND RESOURCE AREA INFORMATION

Wetland Resource Area Delineation Report



January 17, 2021

Email (dconway@nitscheng.com)

Mr. David Conway Nitsch Engineering 2 Center Plaza, Suite 430 Boston, MA 02108

Re: **Wetland Resource Area Analysis Report** Stanley Elementary School 10 Whitman Road (Assessor's Map 22, Lot E1) **UU Church of Greater Lynn**

101 Forest Avenue (Assessor's Map 23, Lot E)

Swampscott, Massachusetts

Dear Mr. Conway:

Pursuant to your request, LEC Environmental Consultants, Inc., (LEC) conducted a site evaluation and Wetland Resource Area boundary determination at the Stanley Elementary School located at 10 Whitman Road and at the UU Church of Greater Lynn located at 101 Forest Avenue in Swampscott, Massachusetts. The purpose of the evaluation was to determine Wetland Resource Area boundaries located on or within the vicinity of these properties.

The evaluation was conducted in accordance with the Massachusetts Wetlands Protection Act (Act, M.G.L. c. 131, s. 40), its implementing Regulations (Act Regulations, 310 CMR 10.00), and the Federal Clean Water Act (33 U.S.C. 1344, s.404, the CWA) and its Regulations (33 CFR and 40 CFR, the CWA Regulations). The Town of Swampscott does not administer a Wetlands Protection Bylaw. LEC also employed the criteria provided in Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act (March 1995) and Field Indicators for Identifying Hydric Soils in New England (Version 4, April 2019). The following report provides a general site description, wetland delineation methodology, and a description of the Wetland Resource Areas and potential regulatory implications.

General Site Description

The 13.26± acre Site consists of the Stanley Elementary School, the UU Church of Greater Lynn (UU Church), and their associated site appurtenances. The Site is located north and west of Humphrey Street (Route 129), northeast of Lewis Road, west of Laurel Road, and south of Nason Road within the southeast portion of Swampscott, Massachusetts (Attachment A, Figure 1). Residential development occurs immediately north, east, southwest, and west of the Site, and undeveloped land associated with the Charles M. Ewing Woods (Ewing Woods) is located south of the Site.

LEC Environmental Consultants, Inc.

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[LEC File #: NEI\20-400.04]



The Stanley Elementary School property, totaling $6.08\pm$ acres, contains a school building, paved parking lot and access drive, paved play surfaces, playgrounds, and lawn, landscaped, and naturalized areas within the eastern portion of the property, while two ball fields occur within the western portion of the property. Vehicular access to the school is provided from Whitman Road/Orchard Road. A dirt walking path extends westerly from Forest Street along the southern property boundary. No on-site resource areas were identified; however, an off-site forested wetland within the Charles M. Ewing Woods occurs south of the Site.

The UU Church property, totaling 7.18± acres, occurs west of the school and contains a church building and a series of paved parking areas located north and east of the building. Forested uplands are located along the property boundaries and in between the parking areas. A scrub shrub wetland is located within the northern portion of the property.

Vegetation within the forested uplands includes a canopy dominated by northern red oak (*Quercus rubra*), patches of Norway maple (*Acer platanoides*), and individuals of beech (Fagus grandifolia), eastern white pine (*Pinus strobus*), red maple (Acer rubrum), black cherry (Prunus serotina), and ash (*Fraxinus* sp.). The understory includes patches of saplings from the canopy, with individuals of Japanese barberry (*Berberis thunbergii*), Tatarian honeysuckle (*Lonicera tatarica*), and entanglements of oriental bittersweet (*Celastrus orbiculatus*), grape (*Vitis* sp.), green briar (Smilax rotundifolia), and multiflora rose (*Rosa multiflora*). The ground cover includes poison ivy (Toxicodendron radicans) and garlic mustard (*Alliaria petiolata*).

Using a hand-held, Dutch-style auger, LEC inspected soil conditions within the forested upland on the Charles M. Ewing Woods property and observed a 1-inch thick, fine sandy loam topsoil (A Horizon) with a soil matrix color of 10YR 2/2. The topsoil is underlain by a 4-inch thick, fine sandy loam subsurface soil (AB Horizon) with a soil matrix color of 10YR 3/4. The subsurface soil is underlain by an 11-inch thick, weathered, fine sandy loam subsoil (B_w Horizon) with a soil matrix color of 10YR 3/6. No redoximorphic features were observed within the soil profile and refusal (stones) was generally encountered at 16 inches from the soil surface. LEC also inspected soil conditions within the forested upland on the UU Church property and observed a 9-inch thick, fine sandy loam topsoil (A Horizon) with a soil matrix color of 10YR 3/1. The topsoil is underlain by an 11-inch-thick, sandy loam subsoil (B_w Horizon) with a soil matrix color of 2.5Y 4/3 and redoximorphic concentrations with colors of 10YR 4/4 and 10YR 4/6. These soil profiles are <u>not</u> considered hydric in accordance with the *Field Indicators Guide*.

Natural Heritage and Endangered Species Program (NHESP) Designation

According to the 15th Edition (August 1, 2021) of the Natural Heritage Endangered Species Program (NHESP) *Massachusetts Natural Heritage Atlas* and MassGIS data layer, the Site is <u>not</u> located within *Estimated Habitat of Rare Wildlife* or *Priority Habitat of Rare Species*. While there are <u>no</u> mapped certified vernal pools on or in close proximity to the Site, there is a mapped potential vernal pool within the scrub-shrub wetland located on the UU Church property (Attachment A, Figure 2).

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FEMA Floodplain Designation

According to the July 16, 2014 FEMA Flood Insurance Rate Map (FEMA FIRM) for Essex County, Massachusetts (Map Number: 25009C0523G), the Site is located entirely within Zone X (unshaded) *Areas determined to be outside the 0.2% annual chance floodplain*.

Wetland Boundary Determination

On March 9 and December 16, 2021, LEC conducted a site evaluation to identify and characterize existing on-site protectable Wetland Resource Areas and to delineate their boundaries. The extent of Wetland Resource Areas was determined through observations of existing plant communities, hydrologic indicators, and bankfull indicators in accordance with the *Act*, the *Act Regulations*, the *CWA*, and the *CWA Regulations*. Based on our observations and review of pertinent maps, LEC determined that the Wetland Resource Areas associated with the Site include a Bordering Vegetated Wetland located within the northern portion of the UU Church property and an offsite BVW located within Ewing Woods to the south of the Stanley Elementary School. These BVWs place the 100-foot Buffer Zone onto the subject property.

The boundaries of the BVWs were demarcated in the field with blaze orange surveyor's flagging tape embossed with the words "LEC Resource Area Boundary" in bold, black print. The Ewing Woods BVW flags are numbered 1 through 32, and the UU Church BVW flags are numbered A1 to A53.

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Forms are included to support the wetland delineation (Attachment B).

A brief description of the Wetland Resource Areas is provided below.

Bordering Vegetated Wetlands

According to the *Act Regulations* [310 CMR 10.55(2)], Bordering Vegetated Wetlands are defined as: freshwater wetlands which border on creeks, rivers, streams, ponds, and lakes...Bordering Vegetated Wetlands are areas where the soils are saturated and/or inundated such that they support a predominance of wetland indicator plants...The boundary of Bordering Vegetated Wetlands is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist.

Off-Site Wetland (Charles E. Ewing Woods)

An off-site BVW characterized as a forested/scrub-shrub wetland occurs to the south of the Stanley Elementary School and the dirt walking path within the Charles M. Ewing Woods. The BVW is generally located along an abrupt break in topography. Within the western portion of the BVW, surface water sheet flows easterly and concentrates into a 20±-foot long intermittent stream channel that discharges into the eastern portion of the BVW where standing water was observed. While this wetland is hydrologically isolated and topographically confined, it would be jurisdictional as a BVW due to the internal intermittent stream channel.

Page 3 of 6



Vegetation within the forested BVW includes a canopy dominated by red maple (*Acer rubrum*), with individuals of ash and American basswood (*Tilia americana*). The understory contains patches of silky dogwood (*Cornus amomum*), sapling red maple, glossy buckthorn (*Frangula alnus*), scattered patches of highbush blueberry (*Vaccinium corymbosum*), sweet pepperbush (*Clethra alnifolia*), and individuals of viburnum (*Viburnum* sp.). The ground cover includes patches of poison ivy (*Toxicodendron radicans*), and scattered individuals of cinnamon fern (*Osmunda cinnamomea*).

LEC inspected soil conditions using a hand-held, Dutch-style auger within the forested/scrub-shrub BVW and observed a 9-inch thick, sapric organic layer (O_a layer). Stones were often encountered at less than 9 inches from the soil surface. This soil profile meets the Histic Epipedon (A2.) indicators for a hydric soil in accordance with the *Field Indicators Guide*.

UU Church of Greater Lynn Property

A scrub-shrub wetland occurs within the northern portion of the UU Church property, to the west of the Stanley Elementary School ball fields. The western extent of the BVW is sparsely vegetated and contains standing water with depths greater than 2 feet. Scrub-shrub vegetation occurs along the perimeter of the open water. During periods of high water, surface water from the western extent of the BVW discharges easterly into a channel, flows into the eastern extent of the BVW, and infiltrates into the ground. At the time of LEC's site observation in December 2021, no surface water was observed within the channel or the eastern extent of the BVW. While this wetland is hydrologically isolated and topographically confined, it would be jurisdictional as a BVW due to the internal intermittent stream channel.

Vegetation within the scrub-shrub wetland includes a sparse canopy of red maple, yellow birch (*Betula alleghaniensis*), white oak (*Quercus alba*), and northern red oak (*Quercus rubra*). The understory is dominated by sweet pepperbush (*Clethra alnifolia*) and/or buttonbush (*Cephalanthus occidentalis*), with saplings from the canopy, highbush blueberry (*Vaccinium corymbosum*), speckled alder (*Alnus rugosa*), entanglements of multiflora rose (*Rosa multiflora*), green briar (*Smilax rotundifolia*), and poison ivy (*Toxicodendron radicans*).

LEC inspected soil conditions using a hand-held, Dutch-style auger within the scrub-shrub BVW and observed a variety of soil profiles. Within the western extent of the BVW, LEC observed a 13-inch thick, fine sandy loam topsoil (A Horizon) with a soil matrix color of 10YR 2/1. The topsoil is underlain by a depleted, 5-inch thick, fine sandy loam subsoil (Bg Horizon) with a soil matrix color of 2.5Y 5/2 and redoximorphic concentrations with colors of 10YR 5/4 and 10YR 5/6. This soil profile meets the Depleted Below Dark Surface (A11.) indicator for a hydric soil according to the *Field Indicators Guide*. Within the eastern extent of the BVW, LEC observed a 9-inch-thick fine sandy loam topsoil (A Horizon) with a soil matrix color of 10YR 3/1 and redoximorphic features with a color of 7.5Y 3/4. The topsoil is underlain by a 14-inch thick weathered, fine sandy loam subsoil (Bw Horizon) with a soil matrix color of 7.5YR 3/3 and organic streaking. This soil profile meets the Redox Dark Surface (F6.) indicator for a hydric soil according to the *Field Indicators Guide*.

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Potential Vernal Pool (PVP)

According to NHESP's *Guidelines*, Vernal Pools are ephemeral bodies of freshwater that, in most years, holds water for a minimum of two continuous months and do not contain a permanent flowing outlet (physical criteria), in addition to providing important habitat for specific animal species (Obligate or Facultative Vernal Pool species) and generally lacking a reproducing fish population (biological criteria).

LEC conducted a site evaluation to assess the potential presence of vernal pools within the delineated BVWs. Given the site evaluation was conducted outside the vernal pool breeding season (typically mid-March through May), the site evaluation assessed whether any portion of the BVWs may exhibit physical characteristics common to vernal pools.

LEC determined that the wetland within Ewing Woods (Wetland Flags 1 to 32) contains vernal pool characteristics. Specifically, the western portion of the BVW contained a water depth of up to 12 inches deep and a moderate to dense shrub layer that amphibians may utilize as attachment sites for their eggs. During LEC's site evaluation in March 2021, the eastern portion of the BVW was covered with ice, so while water depths could not be evaluated, the area also had a moderate shrub layer that amphibians could utilize for their eggs.

LEC also determined that the BVW within the UU Church property contains vernal pool characteristics. Specifically, the western portion of the BVW contained water depths of greater than 2 feet and a dense shrub layer around its perimeter that amphibians may utilize as attachment sites for their eggs. LEC also observed a spring peeper (*Pseudacris crucifer*) proximate to the BVW and heard spring peeper chorusing. Spring peppers are considered a 'Facultative' vernal pool species and another vernal pool species must be documented in order for the BVW to meet NHESP vernal pool certification requirements.

Further investigation during the Vernal Pool breeding season would be necessary to confirm whether these BVWs function as vernal pool habitat. It is important to note that should these areas qualify as Vernal Pool habitat, then such habitat includes the depression as well as the area within 100 feet of the mean annual boundaries of such depressions, to the extent that such habitat is within an Area Subject to Protection under M.G.L. c. 131, § 40 as specified in 310 CMR 10.02(1) (e.g., BVW).

Summary

LEC conducted site evaluations and wetland delineations on March 9 and December 16, 2021 to determine the extent of Wetland Resource Areas subject to jurisdiction under the *Act*, *Act Regulations*, the *CWA*, and *CWA Regulations*. Based on our site evaluations and review of pertinent maps, LEC determined that BVWs occur off-site within Ewing Woods to the south of the Stanley Elementary School and on-site within the UU Church property. The Buffer Zone extends 100 feet from the boundary of BVW. Any work proposed within BVW and/or the 100-foot Buffer Zones will require compliance with performance standards enumerated in the *Act Regulations* and filing for the appropriate permits with the Town of Swampscott Conservation Commission and/or the Massachusetts Department of Environmental Protection, and may require additional wetlands permitting depending on the extent and scope of work.

Page 5 of 6



Thank you for the opportunity to provide these services. Should you have any questions or require additional information, do not hesitate to contact me in our Worcester office at 508-753-3077 or at akendall@lecenvironmental.com.

Sincerely,

LEC Environmental Consultants, Inc.

drea Kstell

Andrea Kendall, PWS

Senior Environmental Scientist

Julia Hoogeboom Wetland Specialist

Juha-Hoogeboom

Attachment A

Figure 1: USGS Topographic Map

Figure 2: USGS Color Ortho Imagery with NHESP Estimated & Priority Habitats

Figure 3: FEMA Flood Insurance Rate Map

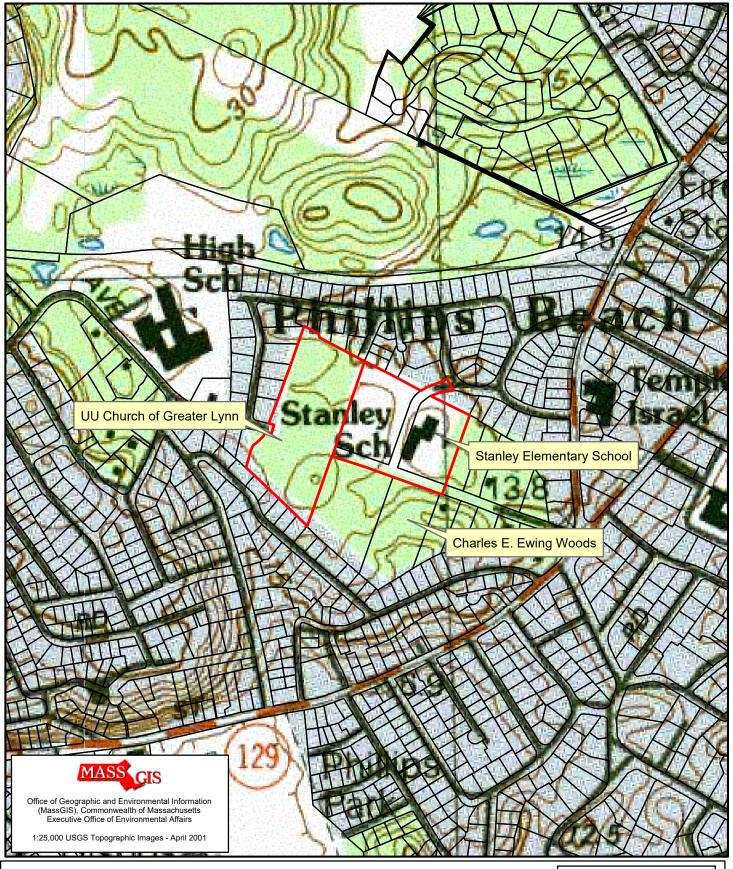
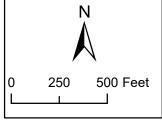




Figure 1: USGS Topographic Map Stanley Elementary School (10 Whitman Road) UU Church of Greater Lynn (101 Forest Avenue) Swampscott, MA

January 17, 2022



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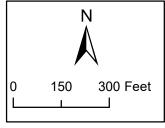




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Figure 2: MassGIS Orthophoto & NHESP Map Stanley Elementary School (10 Whitman Road) UU Church of Greater Lynn (101 Forest Avenue) Swampscott, MA

January 17, 2022



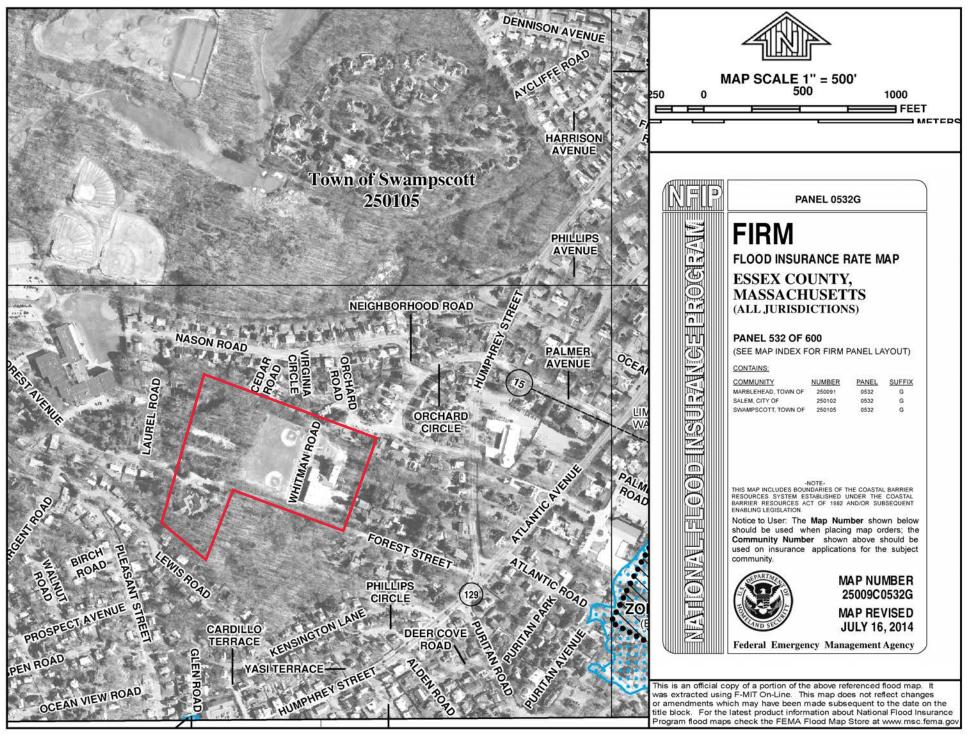


Figure 3: FEMA Flood Insurance Rate Map

Attachment B

MassDEP Bordering Vegetated Wetland Delineation Field Data Forms

Ewing Woods BVW UU Church of Greater Lynn BVW

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

Applicant:	Prepared by:	LEC Environmental Consultants, Inc	Project location: Stanley Elem	nentary School, Swampscott, MA
		Julia Hoogeboom, Wetland Specialist	LEC File #: NEI\20-400.04	DEP File #:
Check all that apply:		•		
□ Vogetation alone procumed adea	uata ta dalinaa	to BV/W boundary: fill out Section Lonly		

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

Section I.

Vegetation	Observation Plot N	umber: 1 (upland)	Transect Number: 1 (WF 24)	Date of Delineation: March 9, 2021
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (Midpoints used)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category* Dominant plants in Bold
Ground cover				
Eastern white pine (Pinus strobus)	3.0%	22%	Yes	FACU
Sweet pepperbush (Clethra alnifolia)	10.5%	88%	Yes	FAC*
Shrub				
Sweet pepperbush (Clethra alnifolia)	38.0%	62%	Yes	FAC*
Eastern white pine (Pinus strobus)	20.5%	33%	Yes	FACU
Norway maple (Acer platanoides)	3.0%	5%	No	FACU
Sapling				
Norway maple (Acer platanoides)	20.5%	100%	Yes	FACU
Canopy				
Northern red oak (Quercus rubra)	63.0%	100%	Yes	FACU

^{*} Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FACH, FACW-, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 2

Number of dominant non-wetland indicator plants: 4

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

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site (yes) no title/date: NRCS Web Soil Survey and Essex County, Massachusetts,

Southern Part, Version 17, June 9, 2020

map number: N/A

soil type mapped: Chatfield-Hollis-Rock outcrop complex, 0 to 15

Mottles Color

percent slopes

hydric soil inclusions: Leicester, extremely stony

Are field observations consistent with soil survey (yes) no Remarks: Yes, field observation are consistent with the soil survey.

2. Soil Description

Horizon	Depth	Matrix Color
Oi	3-0"	
Α	0-1"	10yr 2/2 fsl
AB	1-5"	10YR 3/4 fsl
B_w	5-16"	10YR 3/6 fsl

Remarks:

3. Other:

Conclusion: Is soil hydric? yes (no

Site Inundated:
Depth to free water in observation hole:
Depth to soil saturation in observation hole:
Water marks:
Drift lines:
Sediment Deposits:
Drainage patterns in BVW:
Oxidized rhizospheres:
Water-stained leaves:
Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
Othory

Vegetation and Hydrology Conclusion	Yes	No		
Number of wetland indicator plants ≥ # of non-wetland indicator plants		X		
Wetland hydrology present:				
Hydric soil present		X		
Other indicators of hydrology present		X		
Sample location is in a BVW X				
Submit this form with the Request for Determination of Applicability or Notice of Intent.				

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

Applicant:	Prepared by:	LEC Environmental Consultants, Inc	Project location: Stanley E	lementary School,	Swampscott, MA
• •		Julia Hoogeboom, Wetland Specialist	LEC File #: NEI\20-400.04	DEP File #: _	•
Check all that apply:					

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

Section I.

Vegetation	Observation Plot Nur	mber: 1 (wetland)	Transect Number: 2 (WF 24)	Date of Delineation: March 9, 2021
A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (Midpoints used)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category* Dominant plants in Bold
Ground cover				
Sweet pepperbush (Clethra alnifolia)	10.5%	100%	Yes	FAC*
Shrub				
Sweet pepperbush (Clethra alnifolia)	63.0%	75%	Yes	FAC*
Northern arrowwood (Viburnum dentatum)	20.5%	25%	Yes	FAC*
Sapling				
Red maple (Acer rubrum)	3.0%	100%	Yes	FAC*
Canopy				
Red maple (Acer rubrum)	63.0%	100%	Yes	FAC*

^{*} Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FACH, FACW-, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 5

Number of dominant non-wetland indicator plants: 0

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

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site (yes) no title/date: NRCS Web Soil Survey and Essex County, Massachusetts, Southern Part, Version 17, June 9, 2020

map number: N/A

soil type mapped: Chatfield-Hollis-Rock outcrop complex, 0 to 15

percent slopes

hydric soil inclusions: Leicester, extremely stony

Are field observations consistent with soil survey? yes no Remarks: Field observations contain significantly more organic content than what is described in the soil survey.

2. Soil Description

Horizon Depth Matrix Color Mottles Color Oa 0-9"
Stones @ 9"

Remarks: This soil profile meets the Histic Epipedon (A2.) indicator for a hydric soil in accordance with the *Field Indicators for Identifying Hydric Soils in New England* (Version 4, April 2019).

3. Other:

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply & describe)

	Site Inundated: standing water within low-lying areas
	Depth to free water in observation hole: 5"
$\overline{\checkmark}$	Depth to soil saturation in observation hole: to surface
	Water marks:
	Drift lines:
	Sediment Deposits:
	Drainage patterns in BVW:
	Oxidized rhizospheres:
	Water-stained leaves:
	Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
	Other:

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	X	
Wetland hydrology present: Hydric soil present	Х	
Other indicators of hydrology present	X	
Sample location is in a BVW	Χ	
Submit this form with the Request for Determination of Applicability	or Notice of Inte	nt.

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

Applicant:	_ Prepared by:	LEC Environmental Consultants, Inc	Project location: UU Church of	Greater Lynn, Swampscott, MA
		Julia Hoogeboom, Wetland Specialist	LEC File #: NEI\20-400.04	DEP File #:
Check all that apply:		-		
Vegetation alone presumed adec	quate to delinea	te BVW boundary: fill out Section I only		

- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Nu	ımber: 3 (upland)	Transect Number: 2 (WF A14)	Date of Delineation: December 16, 2021
A. Sample Layer & Plant Species	B. Percent Cover	C. Percent	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
(by common/scientific name)	(Midpoints used)	Dominance		Dominant plants in Bold
Ground cover (Absent)				
Shrub				
Multiflora rose (Rosa multiflora)	63.0%	95%	Yes	FACU
Tartarian honeysuckle (Lonicera tatarica)	3.0%	5%	No	FACU
Sapling				
Norway maple (Acer platanoides)	10.5%	100%	Yes	NI
Canopy				
Red maple (Acer rubrum)	20.5%	100%	Yes	FAC*
Woody Vines				
Oriental bittersweet (Celastrus orbiculatus)	20.5%	66%	Yes	NI
Poison ivy (Toxicodendron radicans)	10.5%	33%	Yes	FAC*

^{*} Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FACH, FACW-, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 2

Number of dominant non-wetland indicator plants: 3

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

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

Section II. Indicators of Hydrology Other Indicators of Hydrology: (check all that apply & 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 Water marks: title/date: NRCS Web Soil Survey and Essex County, Massachusetts. Southern Part, Version 17, June 9, 2020 Drift lines: map number: N/A soil type mapped: Chatfield-Hollis-Rock outcrop complex, 0 to 15 Sediment Deposits: percent slopes hydric soil inclusions: Leicester, extremely stony Drainage patterns in BVW: Are field observations consistent with soil survey? yes (no Oxidized rhizospheres: Remarks: Field observations have a slightly coarser texture in the Bw horizon Water-stained leaves: Recorded Data (streams, lake, or tidal gauge; aerial photo; other): 2. Soil Description Horizon Depth Matrix Color Mottles Color 0-9" 10YR 3/1 fsl Other: _____ B_w 9-20" 2.5Y 4/3 sandy loam 10YR 4/4 10YR 4/6 **Vegetation and Hydrology Conclusion** Remarks: Yes No Number of wetland indicator plants > # of non-wetland indicator plants Χ 3. Other: Wetland hydrology present: Conclusion: Is soil hydric? yes (no) Hydric soil present Χ

Other indicators of hydrology present

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

Sample location is in a BVW

Χ

Χ

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

Applicant:	Prepared by:	LEC Environmental Consultants, Inc	Project location: UU Church of	f Greater Lynn, Swampscott, MA
		Julia Hoogeboom, Wetland Specialist	LEC File #: NEI\20-400.04	DEP File #:
Check all that apply:				
Vegetation alone presumed adeq	uate to delinea	te BVW boundary: fill out Section I only		

- Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
- Method other than dominance test used (attach additional information)

Section I.

Vegetation	Observation Plot Nu	ımber: 4 (Wetland)	Transect Number: 2 (WF A14)	Date of Delineation: December 16, 2021
A. Sample Layer & Plant Species	B. Percent Cover	C. Percent	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
(by common/scientific name)	(Midpoints used)	Dominance		Dominant plants in Bold
Ground cover (Absent)				
Shrub				
Red maple (Acer rubrum)	10.5%	33%	Yes	FAC*
Multiflora rose (Rosa multiflora)	20.5%	66%	Yes	FACU
Tatarian honeysuckle (Lonicera tatarica)	Trace			
Sapling (Absent)				
Canopy				
Red maple (Acer rubrum)	10.5%	100%	Yes	FAC*
Woody vines				
Poison ivy (Toxicodendron radicans)	10.5%	100%	Yes	FAC*

^{*} Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 3

Number of dominant non-wetland indicator plants: 1

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

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site (yes) no

title/date: NRCS Web Soil Survey and Essex County, Massachusetts,

Southern Part, Version 17, June 9, 2020

map number: N/A

soil type mapped: Chatfield-Hollis-Rock outcrop complex, 0 to 15

percent slopes

hydric soil inclusions: Leicester, extremely stony

Are field observations consistent with soil survey? yes no Remarks: Field observations have a slightly lower value than what is described in the soil survey.

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
Α	0-9"	10YR 3/1 fsl	7.5Y 3/4
B _w	9-23"	7 5YR 3/3 fsl	

Remarks: This soil meets the Redox Dark Surface (F6.) indicator for a hydric soil, according to *Field Indicators for Identifying Hydric Soils in New England* (Version 4, 2019).

3. Other:

Conclusion: Is soil hydric?(yes) no

Other Indicators of Hydrology: (check all that apply & describe)

Site Inundated:
Depth to free water in observation hole:
Depth to soil saturation in observation hole: saturated to surface
Water marks:
Drift lines:
Sediment Deposits:
Drainage patterns in BVW:
Oxidized rhizospheres:
Water-stained leaves:
Recorded Data (streams, lake, or tidal gauge; aerial photo; other):
Other:

Vegetation and Hydrology Conclusion Yes No Number of wetland indicator plants X ≥ # of non-wetland indicator plants X Wetland hydrology present: X Hydric soil present X Other indicators of hydrology present X Sample location is in a BVW X Submit this form with the Request for Determination of Applicability or Notice of Intent.

Attachment C

Site Photographs



Stanley Elementary School



Photo 1. Easterly view of the ball fields, parking lot, and Stanley Elementary School building.



Photo 2. Northeasterly view of the Stanley Elementary School and parking lot.



Stanley Elementary School



Photo 3. Easterly view of walking path south of the School starting at western terminus of Forest Street.



Photo 4. Southerly view of the eastern portion of the off-site BVW within Charles E. Ewing Woods.



Stanley Elementary School



Photo 5. Easterly view of the western portion of the off-site BVW within Charles E. Ewing Woods.



UU Church of Greater Lynn



Photo 6. View of western portion of BVW.



Photo 7. Westerly view of the eastern portion of BVW.



UU Church of Greater Lynn



Photo 7. Southeasterly view of forested upland.



Photo 8. Westerly view of the parking lot and forested upland proximate to the BVW.

SECTION 4

DOCUMENTATION OF ABUTTER NOTIFICATION

Abutter Notification Affidavit of Service Certified Abutters List Newspaper Legal Notice

Notification to Abutters

By Hand Delivery, Certified Mail (return receipt requested), or Certificates of Mailing

This is a notification required by law. You are receiving this notification because you have been identified as the owner of land abutting another parcel of land for which certain activities are proposed. Those activities require a permit under the Massachusetts Wetlands Protection Act $(M.G.L.\ c.\ 131,\ \S\ 40)$.

In accordance with the second paragraph of the Massachusetts Wetlands Protection Act, and 310 CMR 10.05(4)(a) of the Wetlands Regulations, you are hereby notified that:

A. A Notice of Intent was filed with the Swampscott Conservation Commission on February 25, 2022 seeking permission to remove, fill, dredge, or alter an area subject to protection under M.G.L. c. 131 §40. The following is a description of the proposed activity/activities:

The Town of Swampscott is proposing the construction of a new school building with parking lots, walkways, an athletic field, landscapes area, playgrounds, and utilities. The proposed project also includes the installation of a new stormwater management system.

- B. The name of the applicant is: The Town of Swampscott.
- C. The address of the land where the activity is proposed is: 10 Whitman Road, Map/Parcel 22E1
- D. Copies of the Notice of Intent may be examined or obtained at the office of the Swampscott Conservation Commission, located at 22 Monument Avenue, Swampscott, MA. The regular business hours of the Commission are Monday-Thursday 8am-4:30pm and Friday 8am-12pm and the Commission may be reached at 781-596-8829.
- E. Copies of the Notice of Intent may be obtained from the applicant or their representative by calling David Conway, Nitsch Engineering at 857-206-8718. An administrative fee may be applied for providing copies of the NOI and plans.
- F. Information regarding the date, time, and location of the public hearing regarding the Notice of Intent may be obtained from the Swampscott Conservation Commission. Notice of the public hearing will be published at least five business days in advance, in the Lynn Daily Item.

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act

I, David Conway, P.E., hereby certify under the pains and penalties that at least one week prior to the public hearing, I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the DEP guide to Abutter Notification dated April 8, 1994, in connection to the following matter:

Submission of a Notice of Intent to the Swampscott Conservation Commission for the work associated with the proposed New Elementary School Project at 10 Whitman Road was filed on February 25, 2022. The project includes of the construction of a new school building and associated site improvements.

The form of notification and the list of abutters to whom it was given, is attached to the Affidavit of Service.

David Conway

David Conway

David Conway

David Conway

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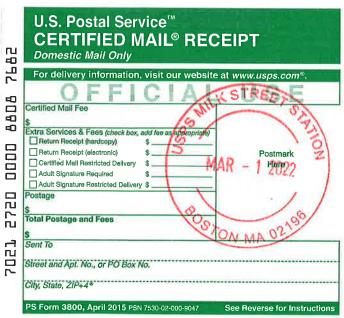
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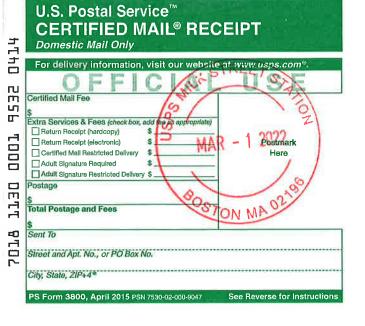
























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TOWN OF SWAMPSCOTT

CONSERVATION COMMISSION

ELIHU THOMSON ADMINISTRATION BUILDING
22 MONUMENT AVENUE. SWAMPSCOTT. MA 01907

DAILY ITEM STAFF:

Please publish the below legal notice on - Thursday, March 10, 2022

Note – the applicant submitting this legal notice request is responsible for the legal advertisement fees and is required to send (by certified mail or hand delivery) a copy of the legal notice as shown in the paper to the attention of the Town Planner in advance of the public meeting.

LEGAL NOTICE

TOWN OF SWAMPSCOTT

CONSERVATION COMMISSION

Pursuant to the provisions of the Massachusetts Wetlands Protection Act MGL Chapter 131, Section 40, the Swampscott Conservation Commission will hold a public hearing on the Notice of Intent of the Town of Swampscott/Swampscott Public School for the New Elementary School within 100 feet of an inland and/or coastal wetland resource area at Map 22, Lot E1 – 10 Whitman Road and Map 23-E at 101 Forest Avenue, Swampscott, MA.

The request will be reviewed at a public meeting scheduled for March 17, 2022, at 7:00 PM at Police Headquarters, Community Room, 531 Humphrey St, Swampscott, MA with the option to dial in remotely via zoom.

Plans are available for review at the Office of Community and Economic Development, Swampscott Town Hall (22 Monument Avenue), during regular business hours.

Tom Ruskin
Conservation Commission Chair

Molly O'Connell Senior Planner 22 Monument Ave Swampscott, MA 01907 781,596,8829

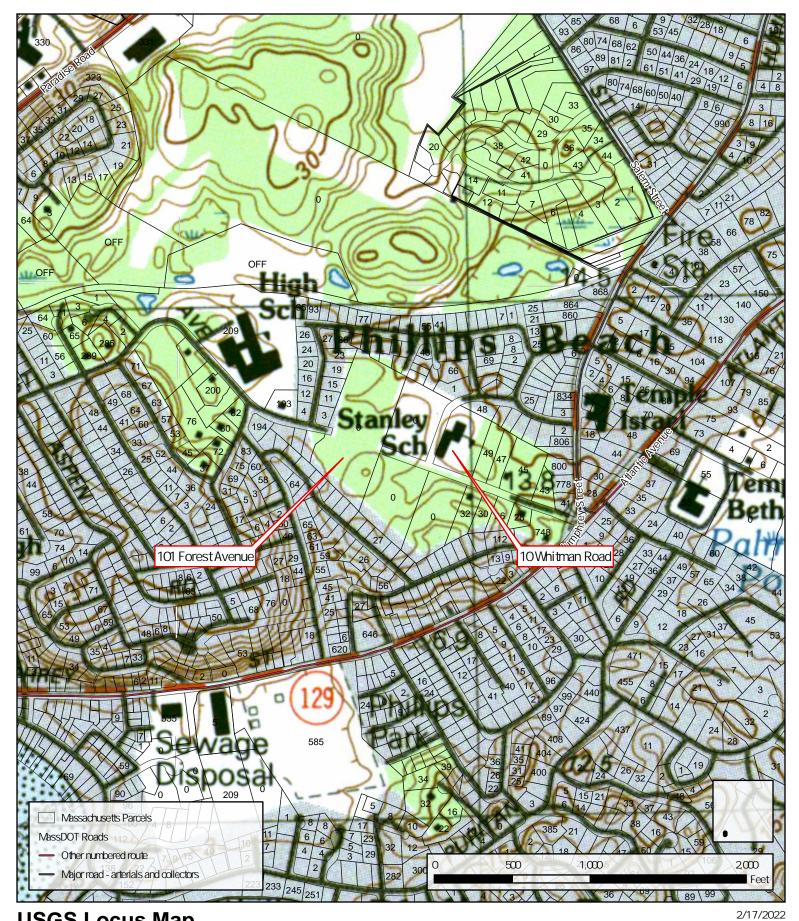
FIGURES

Figure 1 – USGS Locus Map

Figure 2 – Aerial Locus Map

Figure 3 – Natural Heritage and Endangered Species Program Map Figure 4 – FEMA Floodplain Map

Figure EX- Wetlands Buffer Impact Area Plan- Existing Figure PR- Wetlands Buffer Impact Area Plan- Proposed



USGS Locus Map

New Elementary School 10 Whitman Rd and 101 Forest Ave, Swampscott, MA

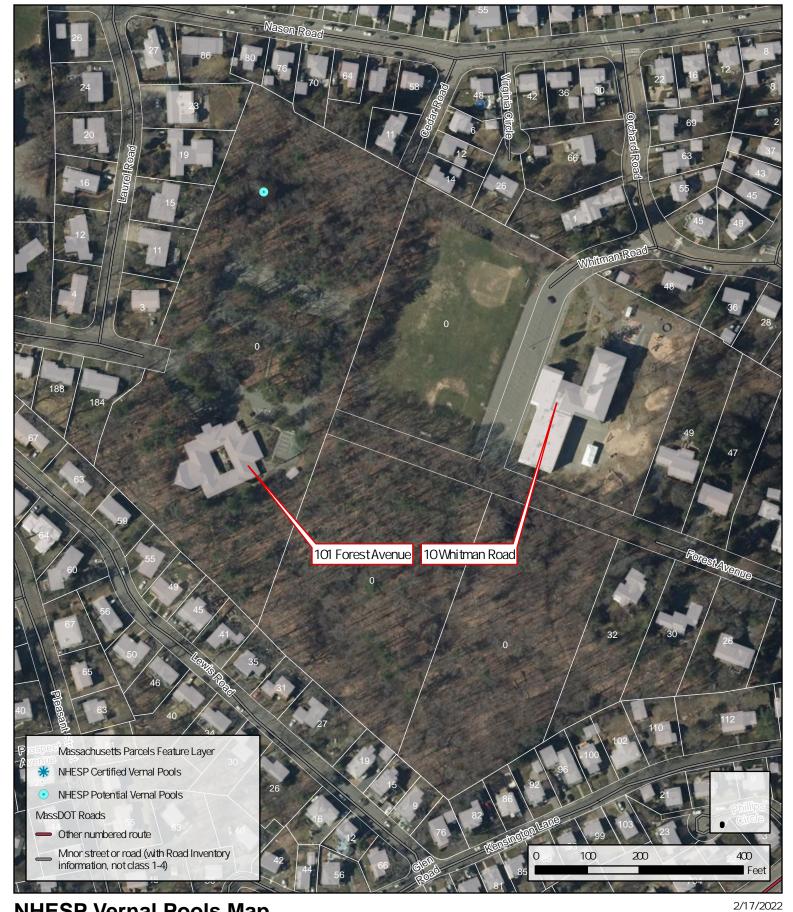




Aerial Locus Map

New Elementary School 10 Whitman Rd and 101 Forest Ave, Swampscott, MA

Nitsch Engineering

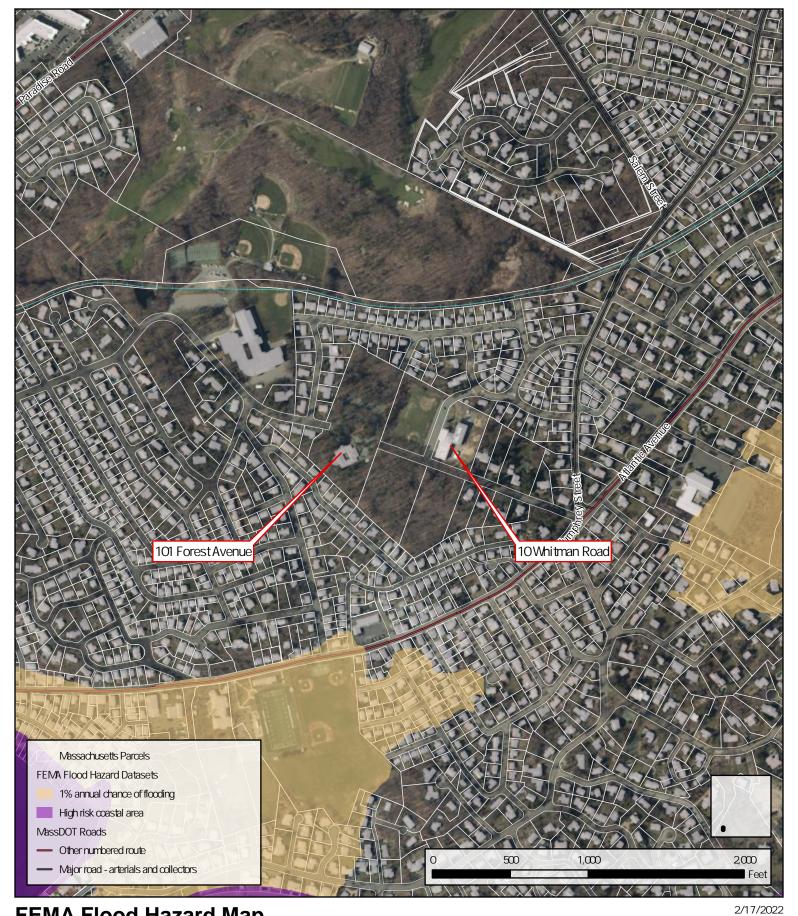


NHESP Vernal Pools Map

New Elementary School 10 Whitman Rd and 101 Forest Ave, Swampscott, MA

Nitsch Engineering

Data Source: MassGIS Nitsch Project #13858



FEMA Flood Hazard Map

New Elementary School 10 Whitman Rd and 101 Forest Ave, Swampscott, MA

Nitsch Engineering

Data Source: MassGIS Nitsch Project #13858

