

NOTICE OF PUBLIC HEARING SUDBURY CONSERVATION COMMISSION Monday, March 24, 2025 at 7:00 PM Virtual Meeting

The Sudbury Conservation Commission will hold a public hearing to review the Notice of Intent filing to replace an existing septic system within the 100-foot Buffer Zone and 200-foot Riverfront Area, pursuant to the Wetlands Protection Act and Sudbury Wetlands Administration Bylaw, at 70 Ridge Hill Road, Sudbury, MA. Alice Sapienza, Applicant. The hearing will be held on Monday, March 24, 2025 at 7:00 pm, via remote participation.

Please see the Conservation Commission web page for further information.

https://sudbury.ma.us/conservationcommission/meeting/conservation-commissionmeeting-monday-march-24-2025/

SUDBURY CONSERVATION COMMISSION 3/10/25



CONNORSTONE ENGINEERING, INC.

10 SOUTHWEST CUTOFF, SUITE #7 NORTHBOROUGH, MASSACHUSETTS 01532 TEL: (508) 393-9727 • FAX: (508) 393-5242

Conservation Commission 275 Old Lancaster Road Sudbury, MA 01776

March 5, 2025

Subject: Notice of Intent – 70 Ridge Hill Road Proposed Septic System Repair

Dear Members of the Commission:

On behalf of the applicant (Alice Sapienza), please find the enclosed WPA Form 3 Notice of Intent for the proposed septic system repair at 70 Ridge Hill Road, including:

- 1. Copies of the NOI application package:
 - Signed WPA Form 3 and Wetland Fee Transmittal Form;
 - Wetland Report by Goddard Consulting;
 - Locus Mapping;
 - Certified List of Abutters
- 2. Copies of the plans "Proposed Sewage Disposal System" for 70 Ridge Hill Road, Sudbury, MA, prepared by Connorstone Engineering, Inc. dated 02/19/2025, and revised 3/5/2025.
- 3. Checks in the amount of \$95.00 for the Town's share of the NOI application fee and \$100 for the Local Bylaw fee. The State's share has been mailed to their office.

Project Summary:

Existing Conditions: The site is located at 70 Ridge Hill Road at the intersection with Hunt Road, and consists of a 0.9-acre parcel currently developed with a single-family dwelling. The lot is abutted on all sides by other residential lots. Areas around the house include a paved driveway off of Ridge Hill Road with wooded areas along the rear and side perimeter of the site.

The home is serviced by an existing septic system consisting of a septic tank and leach area located within the front yard area to the south of the house. The system was evaluated and determined to be in failure requiring replacement under the Local Board of Health Regulations and Title 5 of the State Environmental Code.

Wetland Resource Areas: Regulated wetland resource areas were delineated along the rear and side property lines. The areas are associated with a perennial stream running along the rear (north) property line and an intermittent stream along the side (east) property line. Both streams are mapped as intermittent on the most recent USGS mapping. However, the stream along the rear line has a drainage area over 1 square mile and would be classified as perennial under the Wetlands Protections Act (WPA). The second stream along the side property line has a drainage area less than a ½ square mile and would remain as an intermittent stream under the WPA, but would be assumed perennial under the Local Sudbury Bylaw. The delineation also includes Bordering Vegetated Wetlands (BVW) and Bordering Land Subject to Flooding (BLSF) associated with the streams. The limit of the BLSF has been shown based upon the most recent FEMA Mapping and Profiles, with the 100-year flood extending up to elevation 129.5.

The delineation was performed by Goddard Consulting in February of 2025, and a copy of the 'Wetland Border Report' is attached for reference. The site does not contain any mapped priority or estimated habitat, vernal pools, or bordering land subject to flooding.



Figure 1 – Existing Site Photography

Proposed Project: The proposed project includes replacement of the existing on-site septic system.

The proposed replacement septic system includes a new septic tank, pump chamber, and leach field sized per the current Local and State regulations. The work would also require relocation of the existing water service to provide the required horizontal separation to the septic components. The system would be located within the front yard in the same general location as the existing system. This location would provide the maximum separation from the adjacent wetland resource areas with the proposed leach field being 74 feet from the closest wetland boundary, and maximizing the separation to the larger perennial stream to the rea of the property. There is no other practical alternative to locate the system further from the edge of wetland.

The leach field has utilized an innovative alternative technology to reduce the overall footprint and to provide enhanced treatment of effluent. The system "Eljen Geotextile Sand Filter," is approved through MassDEP as an innovative / alternative (I/A) disposal system with treatment that has demonstrated higher removal of organics and suspended matter prior to the percolation into underlying soil when compared to conventional leaching systems. The leach field design also includes pressure dosing from the pump chamber to provide a greater long term loading rate. The combination of the I/A technology and pressure dosing has provided the smallest available footprint while also providing enhanced treatment.

Soil testing was performed in the location of the proposed system area and found a fairly finegrained sandy loam material with seasonal high groundwater was also encountered at moderate depths of 50 to 85 inches below grade. This will result in the use of a raised system with fish grades approximately 1 foot above the existing conditions.

Regulatory Area Summary

<u>100-foot Buffer Zone / Adjacent Upland Resource Area (AURA)</u> – The limit of work would require a temporary disturbance of 3,400 square feet within the 100-foot buffer zone, and 5,700 square feet within the AURA (which include areas within 200 feet of a stream). All of the work would be fully contained within the existing lawn areas. No additional tree clearing or removal would be required to complete the work. All disturbed areas would be re-vegetated with lawn to match the existing conditions. Erosion controls have been provided on the plans including sediment barriers (straw wattles and silt fence) along the downgradient limit of work. Construction access would be provided off the existing paved driveway or off Ridge Hill Road, and all temporary stockpiles would be maintained within the limits of the sediment barriers.

<u>Riverfront Area</u> – The project consists of the repair/replacement of a septic system installed prior to 1996, and the work would be exempted from the requirements and performance standards of the Riverfront Area under 310 CMR 10.58(6)(c).

Bordering Land Subject to Flooding – BLSF would not be impacted by the proposed project. All work has been maintained outside the limits of the 100-year food areas.

Should you have any questions or require any additional information please contact this office at (508) 393-9727.

Sincerely, Connorstone Engineering, Inc.

Vito Colonna, P.E.

cc. MassDEP Northeast Regional Office



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

A. General Information

WPA Form 3 – Notice of Intent Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

0 Document Transaction Number

MassDEP File Number

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 byław or ordinance.

	70 Ridge Hill Road	Sudbury	01776
	a. Street Address	b. City/Town	c. Zip Code
		42.40221	-71.40945
	Latitude and Longitude:	d. Latitude	e. Longitude
	Map E 09	Parcel 130	
	f. Assessors Map/Plat Number	g. Parcel /Lot Number	
	Applicant:		
	Alice	Sapienza	
	a. First Name	b. Last Name	
	c, Organization		
	70 Ridge Hill Road		
	d. Street Address		
	Sudbury	MA	01776
	e. City/Town	f. State	g. Zip Code
	978-317-0719	alicesapienza@verizo	on not
		ancesapienza evenzo	JII.116(
•	h. Phone Number i. Fax Number Property owner (required if different finder and the second sec	j. Email Address	nore than one owner
•	h. Phone Number i. Fax Number Property owner (required if different fr <i>Alice Sapienza & Dianne Mahany</i> a. First Name	j. Email Address rom applicant): 🛛 Check if m	
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•	h. Phone Number i. Fax Number Property owner (required if different fr <i>Alice Sapienza & Dianne Mahany</i> a. First Name c. Organization <i>70 Ridge Hill Road</i>	j. Email Address rom applicant): 🛛 Check if m	
-	h. Phone Number i. Fax Number Property owner (required if different fr Alice Sapienza & Dianne Mahany a. First Name c. Organization 70 Ridge Hill Road d. Street Address	j. Email Address rom applicant): D. Last Name	nore than one owner
-	h. Phone Number i. Fax Number Property owner (required if different fr Alice Sapienza & Dianne Mahany a. First Name c. Organization 70 Ridge Hill Road d. Street Address Sudbury	j. Email Address rom applicant): 🛛 Check if m	nore than one owner 01776
-	h. Phone Number i. Fax Number Property owner (required if different fr Alice Sapienza & Dianne Mahany a. First Name c. Organization 70 Ridge Hill Road d. Street Address Sudbury e. City/Town	j. Email Address rom applicant): D. Last Name b. Last Name f. State	nore than one owner 01776 g. Zip Code
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	h. Phone Number i. Fax Number Property owner (required if different fr Alice Sapienza & Dianne Mahany a. First Name c. Organization 70 Ridge Hill Road d. Street Address Sudbury e. City/Town 978-317-0719	j. Email Address rom applicant): b. Last Name b. Last Name <u>Ma</u> f. State alicesapienza@verize	nore than one owner 01776 g. Zip Code
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	h. Phone Number i. Fax Number Property owner (required if different fr <i>Alice Sapienza & Dianne Mahany</i> a. First Name c. Organization <i>70 Ridge Hill Road</i> d. Street Address <i>Sudbury</i> e. City/Town <i>978-317-0719</i> h. Phone Number i. Fax Number Representative (if any): <i>Vito</i>	j. Email Address rom applicant): b. Last Name <i>Ma</i> f. State <i>alicesapienza@verizo</i> j. Email address <i>Colonna</i>	nore than one owner 01776 g. Zip Code
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	h. Phone Number i. Fax Number Property owner (required if different fr Alice Sapienza & Dianne Mahany a. First Name c. Organization 70 Ridge Hill Road d. Street Address Sudbury e. City/Town 978-317-0719 h. Phone Number i. Fax Number Representative (if any): Vito a. First Name Connorstone Engineering, Inc. c. Company	j. Email Address rom applicant): b. Last Name <i>Ma</i> f. State <i>alicesapienza@verizo</i> j. Email address <i>Colonna</i>	nore than one owner 01776 g. Zip Code
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	h. Phone Number i. Fax Number Property owner (required if different fr Alice Sapienza & Dianne Mahany a. First Name c. Organization 70 Ridge Hill Road d. Street Address Sudbury e. City/Town 978-317-0719 h. Phone Number i. Fax Number Representative (if any): Vito a. First Name Connorstone Engineering, Inc. c. Company 10 Southwest Cutoff, Suite #7 d. Street Address	j. Email Address rom applicant): b. Last Name	ore than one owner 01776 g. Zip Code on.net



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

Pro	vided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Sudbury

City/Town

A. General Information (continued)

6. General Project Description:

Repair / replacement of a failed septic system at an existing single family home.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

1.	Single Family Home	2. 🔲 Residential Subdivision
3.	Commercial/Industrial	4. Dock/Pier
5.	Utilities	6. 🔲 Coastal engineering Structure
7.	Agriculture (e.g., cranberries, forestry)	8. Transportation

- 9. Other
- 7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. 🗌 Yes	🛛 No	If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)
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2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Southern Middlesex	
a. County	b. Certificate # (if registered land)
31096	523
c. Book	d. Page Number

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

- 1. Buffer Zone Only 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.



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

2	<u>Resou</u>	rce Area	Size of Proposed Alteration	Proposed	Replacement (if any)	
For all projects affecting other	a. 🗌 b. 🛄	Bank Bordering Vegetated	1. linear feet	2. linear fee	et	
Resource Areas, please attach a		Wetland	1. square feet	2. square fo	eet	
narrative explaining how the resource	c. 🔲	Land Under Waterbodies and	1. square feet	2. square fe	eet	
area was delineated.		Waterways	3. cubic yards dredged			
	Resour	rce Area	Size of Proposed Alteration	Proposed	Replacement (if any)	
	d. 🗌	Bordering Land Subject to Flooding	1. square feet	2. square fe	eet	
	e. 🗍	Isolated Land	3. cubic feet of flood storage lost	4. cubic fee	et replaced	
	e. []	Subject to Flooding 1. square feet	_			
			2. cubic feet of flood storage lost	3. cubic fee	et replaced	
	f. 🛛	Riverfront Area	Unnamed perennial stream (in 1. Name of Waterway (if available) • spe		r inland	
	2.	Width of Riverfront Area	(check one):			
		25 ft Designated [Densely Developed Areas only			
		🔲 100 ft New agricul	ltural projects only			
		200 ft All other pro	pjects			
	3. '	Total area of Riverfront Ar	ea on the site of the proposed proje		21,365 square feet	
	4.	Proposed alteration of the	Riverfront Area:			
	68	-	0	685		
	a. t	otal square feet	b. square feet within 100 ft.		between 100 ft. and 200 ft.	
	5.	Has an alternatives analys	sis been done and is it attached to th	nis NOI?	🗌 Yes 🕅 No	
	6. 1	Was the lot where the acti	vity is proposed created prior to Aug	just 1, 1996	? 🛛 Yes 🗌 No	
:	3. 🗌 Coa	astal Resource Areas: (Se	ee 310 CMR 10.25-10.35)			
	Note:	for coastal riverfront areas	s, please complete Section B.2.f. at	oove.		



Massachusetts Department of Environmental Protection Provided by MassDEP:

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

MassDEP	File Number
Document	Transaction Numbe
Sudbury	1
City/Town	

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		<u>Resou</u>	rce Area	Size of Propose	d Alteration	Proposed Replacement (if any)
transaction number		a. 🔲	Designated Port Areas	Indicate size u	nder Land Unde	r the Ocean, below
(provided on your receipt page) with all		b. 🗌	Land Under the Ocean	1. square feet		
supplementary information you submit to the				2. cubic yards dredg	ged	
Department.		c. 🗌	Barrier Beach	Indicate size un	der Coastal Bea	ches and/or Coastal Dunes below
		d. 🔲	Coastal Beaches	1. square feet		2. cubic yards beach nourishment
		e. 🗌	Coastal Dunes	1. square feet	-, <u>-</u>	2. cubic yards dune nourishment
				Size of Propose	d Alteration	Proposed Replacement (if any)
		f., 🗌	Coastal Banks	1. linear feet		
		g. 🗌	Rocky Intertidal Shores	1. square feet	and statistics.	
		h. 🗌	Salt Marshes	1. square feet		2. sq ft restoration, rehab., creation
		i. 📋	Land Under Salt Ponds	1. square feet		
				2. cubic yards dredg	jed	
		j. 🗌	Land Containing Shellfish	1. square feet		
		k. 🗌	Fish Runs			ks, inland Bank, Land Under the er Waterbodies and Waterways,
		_		1. cubic yards dredg	ed	
		I. 🛄	Land Subject to Coastal Storm Flowage	1. square feet		
	4.	If the p	footage that has been ent	restoring or enhar tered in Section B./	ncing a wetland i 2.b or B.3.h abov	resource area in addition to the ve, please enter the additional
		a. square	e feet of BVW		b. square feet of S	alt Marsh
	5.	🗋 Pro	oject Involves Stream Cros	sings	-	
		a. numb	er of new stream crossings		b. number of repla	cement stream crossings



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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number Sudbury City/Town

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 Notice of Intent - Required Actions (310 CMR 10.11).

Streamlined 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 Massachusetts Natural Heritage Atlas or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

a. 🗌 Yes	\boxtimes	No	If yes, include proof of mailing or hand delivery of NOI to:
			Natural Heritage and Endangered Species Program
			Division of Fisheries and Wildlife
8/1/2021			1 Rabbit Hill Road Westborough, MA 01581
b. Date of mar)		Westbolough, MA 01561

If ves, 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).

- c. Submit Supplemental Information for Endangered Species Review*
 - 1. 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 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 **
 - (a) 🗌 Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) 🗌 Photographs representative of the site

Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/). 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. wpaform3.doc • rev. 3/10/2016



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Provided by MassDEP:

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

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

(c) MESA filing fee (fee information available at <u>http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm</u>). Make check payable to "Commonwealth of Massachusetts - NHESP" and *mail to NHESP* at above address

Projects altering 10 or more acres of land, also submit:

- (d) Vegetation cover type map of site
- (e) Project plans showing Priority & Estimated Habitat boundaries
- (f) OR Check One of the Following
- 1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <u>http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm;</u> the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)
- 2. Separate MESA review ongoing.
- 3. Separate MESA review completed. Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
- 3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. 🛛	Not applicable - project is in inland resource area only	b. 🗌 Yes 🔲 No	
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If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and	North Shore - Hull to New Hampshire border:
the Cape & Islands:	

Division of Marine Fisheries -Southeast Marine Fisheries Station Attn: Environmental Reviewer 1213 Purchase Street – 3rd Floor New Bedford, MA 02740-6694 Email: <u>DMF.EnvReview-South@state.ma.us</u> Division of Marine Fisheries -North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: DMF.EnvReview-North@state.ma.us

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.

	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		Provided by MassDEP: MassDEP File Number Document Transaction Number Sudbury City/Town	
	C.	Other Applicable Standards and Requirements	(cont'd)	
	4.	Is any portion of the proposed project within an Area of Critical Enviror	mental Concern (ACEC)?	
Online Users: Include your document		a. Yes No If yes, provide name of ACEC (see instructions). Note: electronic		
transaction number		b. ACEC		
(provided on your receipt page) with all	5.	Is any portion of the proposed project within an area designated as an (ORW) as designated in the Massachusetts Surface Water Quality Sta		
supplementary		a. 🗌 Yes 🖾 No		
information you submit to the Department.	6.	Is any portion of the site subject to a Wetlands Restriction Order under Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restrict		
		a. 🗌 Yes 🖾 No		
	7.	Is this project subject to provisions of the MassDEP Stormwater Manag	gement Standards?	
		 a. Yes. Attach a copy of the Stormwater Report as required by th Standards per 310 CMR 10.05(6)(k)-(q) and check if: 1. Applying for Low Impact Development (LID) site design cre Stormwater Management Handbook Vol. 2, Chapter 3 	edits (as described in	
		2. A portion of the site constitutes redevelopment		
		3. Proprietary BMPs are included in the Stormwater Manage	ment 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 sing or equal to 4 units in multi-family housing project) with no disc		
	D.	Additional Information	sharge to ontioar Areas.	
		This is a proposal for an Ecological Restoration Limited Project. Skip S Appendix A: Ecological Restoration Notice of Intent – Minimum Require 10.12).	ed Documents (310 CMR	
		Applicants must include the following with this Notice of Intent (NOI). S	ee 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. 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.



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

Pro	vided by MassDEP:
	MassDEP File Number
	Document Transaction Number
	Sudbury
	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.

a. Plan Title	
Connorstone Engineering, Inc	Vito Colonna, P.E.
b. Prepared By	c. Signed and Stamped by
3 / 5 / 2025	1''=20'
d. Final Revision Date	e. Scale

f. Additional 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. Attach Stormwater Report, if needed.

E. Fees

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

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

204182042	
2. Municipal Check Number	
4. State Check Number	1993
Connorstone	
6. Payor name on check: First Name	

3-5-25	
3. Check date	
3-6-25	
5. Check date	
Engineering	
7. Payor name on check Last Name	



Massachusetts Department of Environmental Protection Provided by MassDEP: Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

MassDEP File Number

Document Transaction Number Sudburv 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.

Juno

3. Signature of Property Owner(II different)

5. Signature of Representative (if any)

3/5/25 2. Date/ 4. Date/ 2/c/26

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.



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

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

Important: When	Α.	Applicant Information					
filling out forms on the computer, use only the tab	1.	Location of Project:					
key to move your		70 Ridge Hill Road	Sudbury				
cursor - do not use the return		a. Street Address	b. City/Town				
key.		paid online	\$70.00				
		c. Check number	d. Fee amoun	ıt			
	2.	Applicant Mailing Address:					
		Alice	Sapienza				
nam 🚺		a. First Name	b. Last Name				
		c. Organization					
		70 Ridge Hill Road					
		d. Mailing Address					
		Sudbury		MA	01776		
		e. City/Town		f. State	g. Zip Code		
		978-317-0719	alicesapienza@verizon.net				
		h. Phone Number i. Fax Number	j. Email Address				
	3.	Property Owner (if different):					
		Alice Sapienza & Dianne Mahany					
		a. First Name	b. Last Name				
		c. Organization					
		70 Ridge Hill Road					
		d. Mailing Address					
		Sudbury		Ma	01776		
		e. City/Town		f. State	g. Zip Code		
		978-317-0719	alicesapie	nza@verizon.r	net		
		h. Phone Number i. Fax Number	j. Email Addre				
To calculate	D	Ease					

filing fees, refer to the category fee list and examples in the

instructions for filling out WPA

Intent).

Form 3 (Notice of

B. Fees

Fee should be calculated using the following process & worksheet. Please see Instructions before filling out worksheet.

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12,50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



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

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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Septic Repair	1	\$110	\$110
Work within riverfront	50%	50%	\$55
	Step 5/Te	otal Project Fee:	\$165
	Step 6/	Fee Payments:	
	Tatal	Draiget Feel	\$165
	10(8)	Project Fee:	a. Total Fee from Step 5
	State share	of filing Fee:	\$70.00
			b. 1/2 Total Fee less \$12.50
	City/Town shar	e of filling Fee:	\$95.00 c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection Box 4062 Boston, MA 02211

b.) To the Conservation Commission: Send the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and a copy of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

WETLAND BORDER REPORT

PREPARED BY: GODDARD CONSULTING, LLC



Wetland Border Report

Site Locus: 70 Ridge Hill Road, Sudbury, MA 01776 Prepared for: Deborah Mayo, Connorstone Engineering, Inc. Prepared by: Goddard Consulting LLC, 291 Main St, Suite 8, Northborough MA 01532 Date: 02/03/2025

INTRODUCTION

On February 3, 2025, wetland resources were delineated for Deborah Mayo of Connorstone Engineering, Inc., on land located on or near 70 Ridge Hill Road in Sudbury, MA (refer to enclosed locus maps). The wetland border, intermittent stream, and perennial stream were flagged using the criteria in the most recent edition of MA Wetland Protection Act (WPA) and Regulations 310 CMR 10.00 et al. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

The titles of attached documents are as follows:

- DEP Bordering Vegetated Wetland Determination Form, 02/03/2025
- Orthophoto of Locus Site, Goddard Consulting LLC., 02/03/2005
- Sketch of Wetland Delineation, Goddard Consulting LLC., 02/03/2025
- Soils Map of Locus Site, Goddard Consulting LLC., 02/03/2025
- NRCS Soil Map Middlesex County, Massachusetts, accessed 01/31/2025
- FEMA Map of Locus Site, Goddard Consulting LLC., 02/03/2025
- USGS of Locus Site, Goddard Consulting LLC, 02/03/2025
- USGS StreamStats Report (Northern Stream) Middlesex County, Massachusetts, accessed 01/30/2025
- USGS StreamStats Report (Eastern Stream) Middlesex County, Massachusetts, accessed 02/03/2025

SUMMARY OF FINDINGS

A Bordering Vegetated Wetland (BVW) and intermittent stream, located to the east and north of the property partially on-site, were delineated with flag series GCA1-GCA20. A perennial stream, located off-site to the north of the property, was delineated with flag series GCS1-GCS12. The sampling point for the BVW determination took place near flag GCA16.

The off-site perennial stream, located to the north of the property, is mapped on USGS as intermittent, however the USGS StreamStats Report demonstrates the stream qualifies as perennial. According to the Massachusetts WPA CMR 10.58, a stream is intermittent unless, "the stream has a watershed size of at least ½ (0.50) square mile and has a predicted flow rate greater than or equal to 0.01 cubic feet per second at the 99% flow duration using the USGS Stream Stats method." The StreamStats shows that the stream has a watershed area of 1.49 square miles (greater than 0.50 sq. miles) and a 99% flow duration of 0.0485 ft³/sec (greater than 0.01 ft³/sec). Therefore, the off-site stream should be considered as perennial with a 200-foot Riverfront Area. The on-site intermittent stream, east of the single-family house, has a watershed size of 0.24 square miles (less than 0.50 sq. miles) and a 99% flow duration of 0.00923 ft³/sec (less than 0.01 ft³sec). Therefore, the on-site stream should remain as intermittent with a 100-foot Buffer Zone. Refer to the attached USGS Stream Stats Report for more detailed information.

Vegetation upgradient of the BVW consists of red maple/*Acer rubrum* (FAC), white pine/*Pinus strobus* (FACU), highbush blueberry/*Vaccinium corymbosum* (FACW), red oak/*Quercus rubra* (FACU), cinnamon fern/*Osmundastrum cinnamomeum* (FACW), and oriental bittersweet/*Celastrus orbiculatus* (FACU). Vegetation downgradient of the BVW consists of red maple/*Acer rubrum* (FAC), white pine/*Pinbus strobus* (FACU), silky dogwood/*Cornus amomum*



(FACW), highbush blueberry/Vacanium corymbosum (FACW), cinnamon fern/Osmundastrum cinnamomeum (FACW), sensitive fern/Onoclea sensibilis (FACW), skunk cabbage/Symplocarpus foetidus (OBL), and rush/Juncus sp.

Soils identified on the property include fine sandy loam. In the upland soil sample, soil with the consistency of fine sandy loam colored 10YR2/2 was found from 0-15", followed by a restrictive root layer from 15+". In the wetland soil sample, an organic layer colored 10YR2/1 was found from 0-15". A C-layer with the consistency of fine sandy loam colored 90% 10YR5/2 and 10% 10YR4/4 redoximorphic concentrations was found from 15+". More detailed information about soils is included in the attached NRCS Soil Map and the DEP Bordering Vegetated Wetland Determination Forms.

According to the MassGIS data layers for the Natural Heritage & Endangered Species Program (NHESP), the locus site is not located within Estimated and/or Priority Habitat of Rare Wildlife or an Area of Critical Environmental Concern (ACEC). The site is not located in an Outstanding Resource Waters Area (ORW). The site does fall within the jurisdictional FEMA Flood Zone AE to the north of the site. There are no mapped certified or potential vernal pools on site.

The MA Wetlands Protection Act and the Town of Sudbury take jurisdiction over Bordering Vegetated Wetlands (BVW), intermittent streams, and perennial streams. The delineated BVW and intermittent stream have a jurisdictional 100-foot Buffer Zone that casts onto the locus site. The delineated perennial stream has a 200-foot Riverfront Area that casts onto the locus site.

Any work within these resource areas including the 100-foot Buffer Zones and 200-foot Riverfront Area requires a Request for Determination (RDA) or Notice of Intent (NOI) to be filed with the Sudbury Conservation Commission.

DESCRIPTION OF REGULATED INLAND RESOURCE AREA

The table below provides the regulatory jurisdiction, flag numbers/colors, and wetland types and locations for the resource areas delineated.

Resource Area	Regulatory Jurisdiction	Flag Numbers and Color	Wetland Types and Locations
Bordering Vegetated Wetland (BVW) & Intermittent Stream	BVW, Intermittent Stream, & 100- foot Buffer Zone	GCA1-GCA20 (Blue flags)	The boundary of BVW & Internittent Stream located to the east and north of the site.
Perennial Stream	Perennial Stream & 200- foot Riverfront Area	GCS1-GCS12 (Pink Flags)	The boundary of the Perennial Stream bank located off-site to the north of the site.





Photo 1. Photo of the bank of the perennial stream near flag GCS12 (end) (02/03/2025).



Photo 2. Photo of the bank of the perennial stream located to the north of the site (02/03/2025).





Photo 3. Photo of the bank of the perennial stream to the north of the site (02/03/2025).



Photo 4. Photo of the bank of the perennial stream near flag GCS10 (02/03/2025).





Photo 5. Photo of the bank of the perennial stream facing northeast (02/03/2025).



Photo 6. Photo of the Bordering Vegetated Wetland (BVW) facing northeast (02/03/2025).





Photo 7. Photo of the edge of the BVW facing east (02/03/2025).

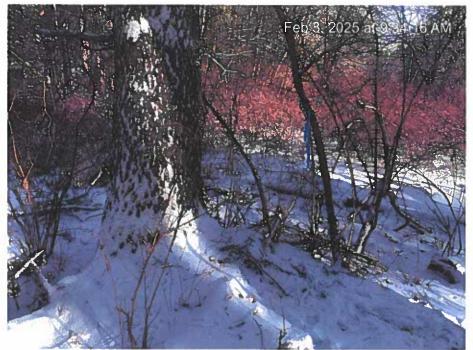


Photo 8. Photo of the edge of the BVW and silky dogwoods facing north (02/03/2025).



70 Ridge Hill Road, Sudbury MA Wetland Border Report | Page 7

Sincerely, Goddard Consulting, LLC

Tom Schutz, WPIT, WSA Wetland Scientist

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site	70 Ridge Hill Road		City/Town: Sudbury, MA			Sampling Date: 2/3/2025
Applicant/Owner:	Deborah Mayo, Connorsto	ne Engineering, I	Sampling Poi	int or Zone:	GCA16	
Investigator(s):	Tom Schutz, Sophie Esdal	3	Latitude/	Longitude	42 4027	'4"N, 71,40981°W
Soil Map Unit Name:	Freetown muck, Sudbury f	ine sandy loam	NWI or DEP Cla	ssification	Freshwa	ter Emergent Wetland, Riverine
			UPGRADIENT			
Are climatic/hydrologi	c conditions on the site typi	cal for this time of y	ear? Yes	No	Х	(If no, explain in Remarks)
Are Vegetation	, Soil, or l	lydrology sig	gnificantly disturbed? (If yes	s, explain in	Remarks	- s)
Are Vegetation	, Soil , or l	tydrology na	gnificantly disturbed? (If yes aturally problematic? (If yes	, explain in l	Remarks	;)
SUMMARY OF FIND	NGS-Attach site map a	nd photograph lo	gshowingsamplingloca	ations, tra	nsects,	etc
Wetland vegetation cri	iterion met? Yes	No X Ist	the Sampled Area within a V	Metland?	Yes	No_X
Hydric Soils criterion r		No X				
Wetlands hydrology pr		No X				
Remarks, Photo Detai	ls, Flagging, etc.;					
		Level 2: D	Declared Significant Drough	t		
HYDROLOGY						
Field Observations						
Surface Water Presen	1?		Yes	No	X	Depth (in)
Water Table Present?			Yes	No	X	Depth (in)
Saturation Present (in	cluding capillary fringe)?		Yes	No	X	Depth (in)
Wetland Hydrology						
Reliable Indicators of		Indicators that car	a bo Doliobla with	Indica	tore of th	e Influence of Water
Hydrology	e solide nad	Proper Interpretat		11 UICA		ie marden de of vilager
Water-stained lea			ical records		Directio	bservation of Inundation
Evidence of aqual		· ·	er in a soil test hole			
Iron deposits	licitaulia	Saturate			Draff line	e patterns
Algal mats or crus	to	Waterm				
Oxidized rhizosph		<u> </u>			Scourec	
Thin muck surface		Moss trin				nt deposits
Plants with air-fill			e of reduced iron			soil cracks
(aerenchyma)	50 (1550)C		lants with adventitious			/vegetated concave
	omhia lan on	roots	h aballau caat a starre		surface	
Plants with polym	•		h shallow root systems			oographic relief
Plants with floatin	÷		lants with enlarged lenticels			ohic position (depression,
Hydrogen sulfide						ope, fringinglowland)
riemarks (describé réd	corded data from stream ga	uge, monitoring wel	ii, aeriai priotos, previous in	spections, i	r availab	(e)

This form is only for BWVdelineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

VEGETATION-Use both common and scientific names of plants.

Sampling Point	GCA16
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Tree Stratum	Plot size 30'					
Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)	%Dominant
1 White Pine	Pinus strobus	FACU	38.0%	X		65.0%
2 Red Maple	Acer rubrum	FAC	20.5%	x	X	35.0%
3			20.070			00.070
4						
5						
6						1
7						
8						
9						
			58.5%	=Total Cover		I
Shrub/SaplingStratum	Plot size 15'		00.070			
		Indicator	Absolute %	Dominant?	Wetland Indictor?	
Common Name	Scientific name	Status	Cover			%Dominant
1 Highbush Blueberry	Vaccinium corymbosum	FACW	20.5%	(yes/no) X	(yes/no) X	60.3%
2 Red Oak	Quercus rubra	FACU	10.5%	X	^	30.9%
3 Cinnamon Fern	Osmundastrum cinnamomeum	FACW	3.0%		×	8.8%
4	Contrationation Children Medin	I MORY	3.070		^	0.070
5						
6						
7						
8						
9						
			34.0%	=Total Cover		1
Herb Stratum	Plot size5'					
Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)	% Dominant
2						
3						
4			<u> </u>	 		
5						
6						
7						
8						
9						
10						
11						
12			·			
7 6a			0.0%	=Total Cover		

 \mathbf{t}

VEGETATION - continued.

Woody Vine Stratum	Plot size <u>30'</u>					
Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)	% Dominant
1 Oriental Bittersweet	Celastrus orbiculatus	FACU	3.0%	X		100.04
2						
3						
4						
			3.0%	=Total Cover		<u> </u>

Rapid Test:	Do all dominant species have an indicator status of OBL or FACW?			Yes	No X	
Dominance Test:	Number of dominant species	Number of dominant:	species that are	Do wetland indicator plants make up ≥ 50% of dominant plant		
		wetland indicator plai	nts			
				species?		
	5	2		Yes	No X	
Prevalence Index		Total %Cover	Multiply by		Result	
		(all strata)				
	OBL species	0%	x1	=	0%	
	FACWspecies	24%	×2	=	47%	
	FAC species	21%	x3	=	62%	
	FACU species	52%	x4	=	206%	
	UPL species	0%	×5	=	0%	
	Column Totals (A)	96%	1	(B)	315%	
	Prevalence Index	B/A=	3.29	Is the Prevalen	ce Index≤3.0?	
				Yes	No X	
Wetland vegetation crit	terion met? Yes No X		······································			_

Definitions of Vegetation Strata

Tree Shrub/Sapling Herb Woody vines Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges					
Range	Midpoint				
1-5%	3.00%				
6-15 %	10.50%				
15-25 %	20.50%				
26-50 %	38.00%				
51-75 %	63.00%				
76-95 %	85.50%				
96-100 %	98.00%				

inches) D-15"	Color (moist) 10YR2/2	%	Color (mainte			res			
0-15"	10/22/2		Color (moist)	%	Type ¹	Location	2 Texture	Remarks	
1	1011/02/2	100					Fine Sandy Loam		
	1		22						
Type: C=Concentration	n, D=Depletion	, RM⊨i	Reduced Matrix	MS=N	lasked Sand Grains	2Location: PL=Pore L	ining, M=Matrix		
lydric Soil Indicator	s (Check all t	hat ap	oply)			Indicators for P	roblematic Hydric Soils		
Histosol (A1)			Sandy Re	edox (S	ნ)	2 cm	2 cm Muck (A10)		
Histic Epipedon (A	2)		Stripped	Matrix	(96)	5 cm (5 cm Mucky Peat or Peat (S3)		
Black Histic (A3)			Polyvalue	e Belov	v Surface (S8)	Dark	Dark Surface (S7)		
Hydrogen Sulfide (/	\ 4)		Thin Dark	< Surfa	ce (S9)	Polyvalue Below Surface (S8)			
Stratified Layers (A	5)		Loamy M	lucky N	fineral (F1)	Thin Dark Surface (S9)			
Depleted Below De	rk Surface (A1	1)	Loamy G	leyed I	Aatrix (F2)	Iron-Manganese Masses (F12)			
Thick Dark Surface	(A12)		Depleted	Matrix	<(F3)	Mesic	Mesic Spodic (A17)		
Sandy Mucky Mine	ral (S1)		Redox Da	ark Sur	face (F7)	Red P	Red Parent Material (F21)		
Sandy Gleyed Matri	ix (S4)		Depleted	Dark S	Surface (F8)	Very S	Very Shailow Dark Surface (TF12)		
Dark Surface (S7)						Other	(Include Explanation in Rema	rks)	
Restrictive Layer (if o	observed)	Туре:	Root		De	pth (inches):	15'		

SOL

DOWNGRADIENT

Are climatic/hydrologic	conditions on the site	typical for this time (of year?	Yes	No	X	(If no, explain in Remarks)
Are Vegetation	, Soil	or Hydrology	significa	ntlydisturbed? (If yes,	explain in	Remarks)
Are Vegetation	Soil	or Hydrology	naturally	problematic? (If yes,	explain in l	Remarks)	I

SUMMARY OF FINDINGS - Attach site map and photograph log showing sampling locations, transects, etc

No Is the Sampled Area within a Wetland? No No	Yes X No	
Local 2: Declared S-ificant Draukt		
	Level 2: Declared Significant Drought	Level 2: Declared Schificant Drought

urface Water Present?	Yes X	No Depth (in) 0				
Ater Table Present?	Yes	No X Depth (in)				
aturation Present (including capillary fringe)?	Yes	No X Depth (in)				
Vetland Hydrology Indicators	· ···					
eliable Indicators of Wetlands	Indicators that can be Reliable with	Indicators of the Influence of Water				
Water-stained leaves	Hydrological records	Direct observation of inundation				
Evidence of aquatic fauna	Free water in a soil test hole	Drainage patterns				
Iron deposits						
Algal mats or crusts	Scoured areas					
Oxidized rhizospheres/pore linings	Moss trim lines	Sediment deposits				
Thin muck surfaces	Presence of reduced iron	Surface soil cracks				
Plants with air-filled tissue	Woody plants with adventitious	Sparsely vegetated concave				
(aerenchyma)	roots	surface				
Plants with polymorphic leaves	Trees with shallow root systems	Microtopographic relief				
Plants with floating leaves	Woody plants with enlarged lenticels	Geographic position (depression				
Hydrogen sulfide odor		toe of slope, fringing lowland)				
emarks (describe recorded data from stream or	auge, monitoring well, aerial photos, previous inspe	ections, if available)				

This form is only for BWV delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

VEGETATION - Use both common and scientific names of plants.

Sampling Point	GCA16
Qarapingront	00010

re	e Stratum	Plot size 30'					
	Common Name	Scientific name	Indicator	Absolute %	Dominant?	Wetland Indictor?	%Dominant
1	Red Maple	Acer rubrum	FAC	20.5%	X	X	66.1%
_	White Pine	Pinus strobus	FACU	10.5%	×		33.9%
3							
4							
5							
6							
7							
8							
9							
				31.0%	=Total Cover		
hr	rub/SaplingStratum	Plot size15'			,		
_	Common Name	Scientific name	Indicator	Absolute %	Dominant?	Wetland Indictor?	%Dominant
_	Silky Dogwood	Cornus amomum	FACW	38.0%	X	X	52.8
	Highbush Blueberry	Vaccinium corymbosum	FACW	20.5%	X	×	28.5
	Cinnamon Fem	Osmundastrum cinnamomeum	FACW	10.5%		X	14.6
_	White Pine	Pinus strobus	FACU	3.0%		~	4.2
5		P H GO GH GOOD	1760	0.070			4.2
6	1		10				
7							
8		·					
9							
	I			72.0%	=Total Cover		
lei	rb Stratum	Plot size 5'					
	Common Name	Scientific name	Indicator	Absolute %	Dominant?	Wetland Indictor?	% Dominant
1	Sensitive Fern	Onoclea sensibilis	FACW	10.5%	X	Х	38.9
	Cinnamon Fern	Osmundastrum cinnamomeum	FACW	10.5%	Х	X	38.9
2	Skunk Cabbage	Symplocarpus foetidus	OBL	3.0%		X	11:1
_	Rush	Juncus sp.	FACW	3.0%		Х	11,1
3							
345							
3456							
3 4 5 6 7							
3 4 5 6 7 8							
3456789							
3 4 5 6 7 8							
3 4 5 6 7 8 9 10 11							
345678910							

VEGETATION - continued.

Woody Vine Stratum	Plot size 30'					
Common Name	Scientific name	Indicator	Absolute %	Dominant?	Wetland Indictor?	%Dominant
1						
2						
3						
4						
	- '		0.0%	=Total Cover		

Rapid Test:	Do all dominant species have an ind	Do all dominant species have an indicator status of OBL or FACW?					
Dominance Test:	Number of dominant species	Number of dominant:	species that are	Do wetland indic	ator plants make		
	6	5		Yes X	No		
Prevalence Index		Total %Cover	Multiplyby		Result		
	OBL species	3%	x1	=	3%		
	FACWspecies	93%	×2	=	186%		
	FAC species	21%	x3	=	62%		
	FACU species	14%	x4	=	54%		
	UPLspecies	0%	x5	=	0%		
	Column Totals (A)	130%	1	(B)	305%		
	Prevalence index	B/A=	2.34	Is the Prevalence	e Index ≤ 3.0?		
				Yes X	No		
Wetland vegetation crit	terion met? Yes X No	• • • •		•			

Definitions of Vegetation Strata

Tree Shrub/Sapling Herb Wbody vines Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges						
Range	Midpoint					
1-5 %	3.00%					
6-15 %	10.50%					
15-25 %	20.50%					
26-50 %	38.00%					
51-75%	63.00%					
76-95 %	85.50%					
96-100 %	98.00%					

Sampling Point GCA16

Depth	Matrix	atrix			Redox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Locat	ion ²	Texture	Remarks
0-15"	10YR2/1	100						Organic	
15+"	10YR5/2	90	10YR4/4	10	C=Concentration	M=Ma	atrix	Fine Sandy Loam	C-layer
T-no. C-Conserve	antine DeDestation	- C8.4-	Dealers and Markelly	140.1	testing of Operation (1997)				
Hydric Soil Indic	ration, D=Depletior cators (Check all 1		oply)		lasked Sand Grains L	Indicators fo	r Problema	atic Hydric Soils	
Hydric Soil Indic Histosol (A1)	cators (Check all 1		oply) Sandy Re	odox (S	5)	Indicators fo	or Problema	atic Hydric Soils	
Hydric Soil India Histosol (A1) Histic Epipedo	cators (Check all 1 on (A2)		oply) Sandy Re Stripped	edox(S Matrix	5) (S6)	Indicators for 20 50	or Problems om Muck (A1 om Mucky Pe	atic Hydric Soils 0) at or Peat (S3)	
Hydric Soil Indic Histosol (A1) Histic Epipedo Black Histic (A	cators (Check all 1 on (A2) \\3)		oply) Sandy Re Stripped Polyvalue	edox(S Matrix e Belov	5) (S6) v Surface (S8)	Indicators for 2 c 5 c Da	or Problema cm Muck (A1 cm Mucky Pe ark Surface (S	atic Hydric Soils 0) at or Reat (S3) S7)	
Hydric Soil Indic Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulfi	cators (Check all 1 on (A2) \3) ide (A4)		oply) Sandy Re Stripped Polyvalue Thin Dark	edox (S Matrix e Belov k Surfa	5) (S8) v Surface (S8) ce (S9)	Indicators for 20 50 De Po	or Problema cm Muck (A1 cm Mucky Pe ark Surface (S lyvalue Belo	atic Hydric Soils 0) eat or Reat (S3) S7) w Surface (S8)	
Hydric Soil Indic Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulfi Stratified Laye	cators (Check all 1 on (A2) A3) ide (A4) ars (A5)	that a	oply) Sandy Re Stripped Polyvalue Thin Dad Loamy M	edox (S Matrix e Belov < Surfa lucky M	5) (S8) v Surface (S8) ce (S9) lineral (F1)	Indicators fo	xr Problems cm Muck (A1 cm Mucky Pe ark Surface (S lyvalue Belo in Dark Surfa	atic Hydric Soils 0) eat or Peat (S3) 57) w Surface (S8) ace (S9)	
Hydric Soil Indic Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulfi Stratified Laye	ators (Check all 1 on (A2) A3) ide (A4) ars (A5) w Dark Surface (A1	that a	oply) Sandy Re Stripped Polyvalue Thin Dad Loamy M	edox (S Matrix e Belov k Surfa lucky M leyed M	5) (S5) v Surface (S8) ce (S9) lineral (F1) /latrix (F2)	Indicators for 2 c 5 c De Pc Th Inc	or Problema or Muck (A1 or Mucky Pe ark Surface (lyvalue Belo in Dark Surfa or-Manganes	atic Hydric Soils 0) sat or Peat (S3) 57) w Surface (S8) ace (S9) se Masses (F12)	
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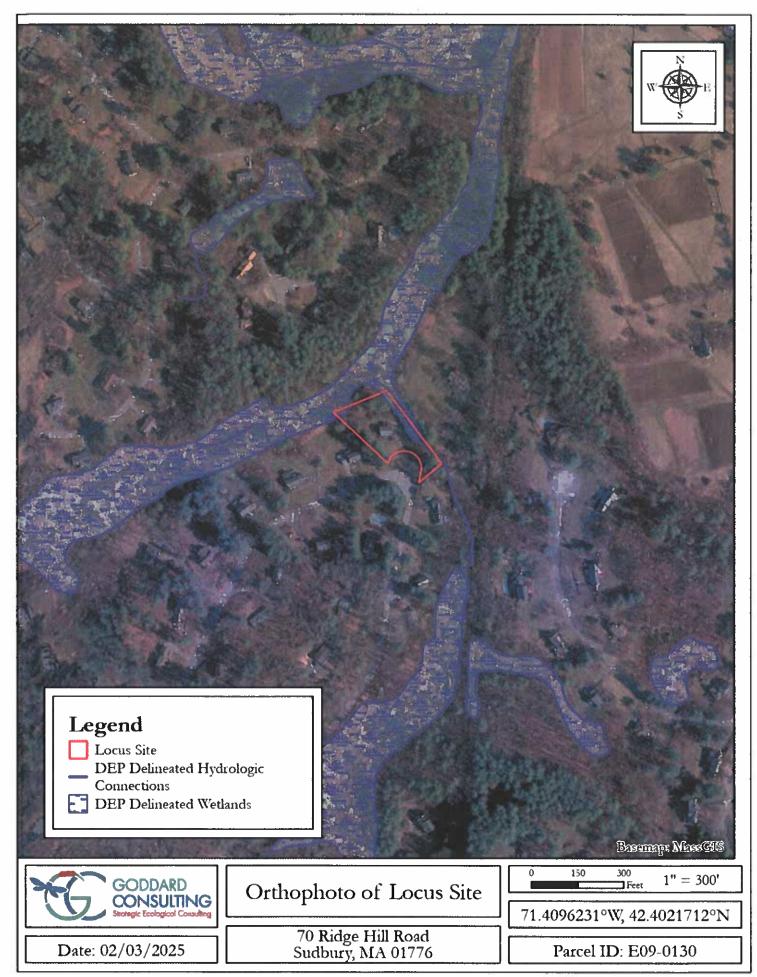
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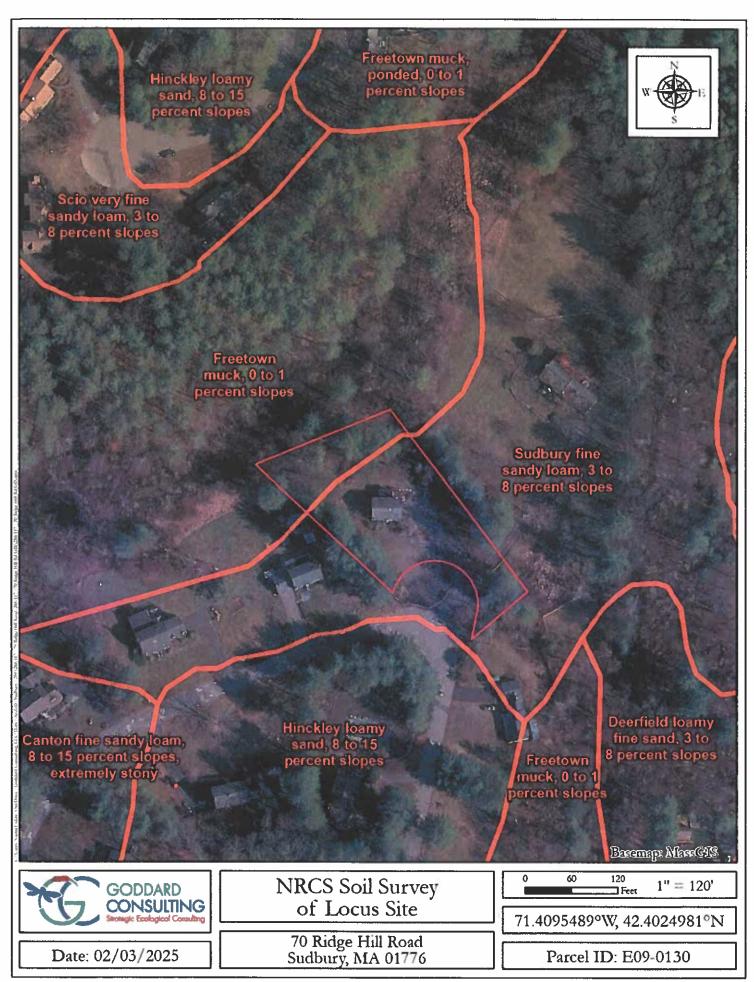
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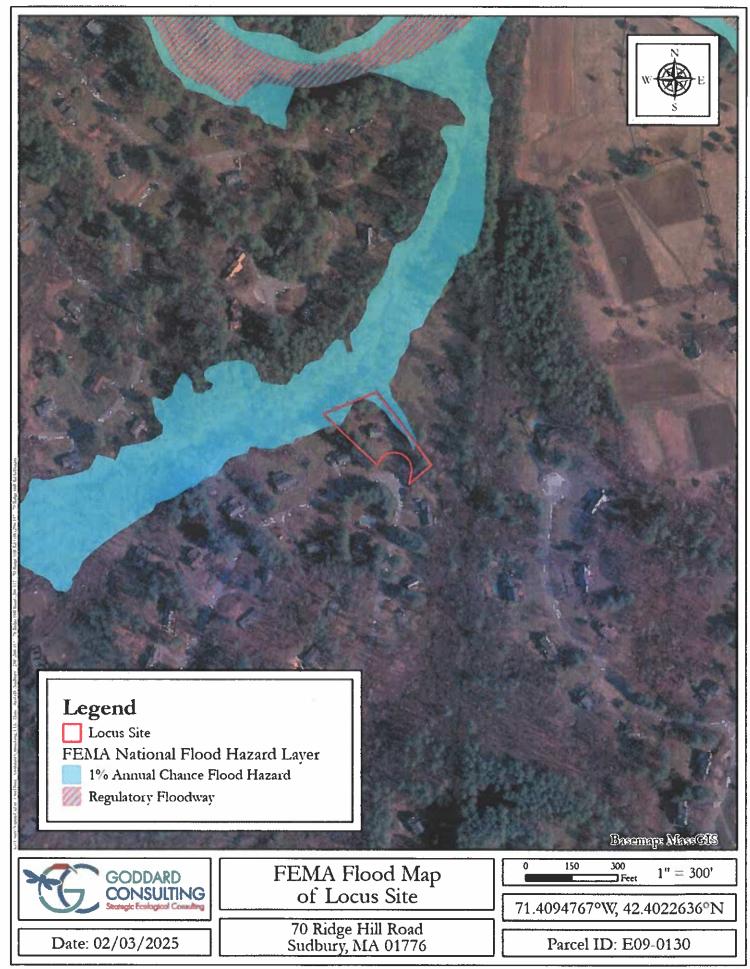
Sudbury GIS

FEMA Mapping



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GODDARD CONSULTING	Sketch of Wetland	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Stronget: Ecological Costuling	Delineation	71.4095381°W, 42.4023764°N
Date: 02/03/2025	70 Ridge Hill Road Sudbury, MA 01776	Parcel ID: E09-0130





National Flood Hazard Layer FIRMette



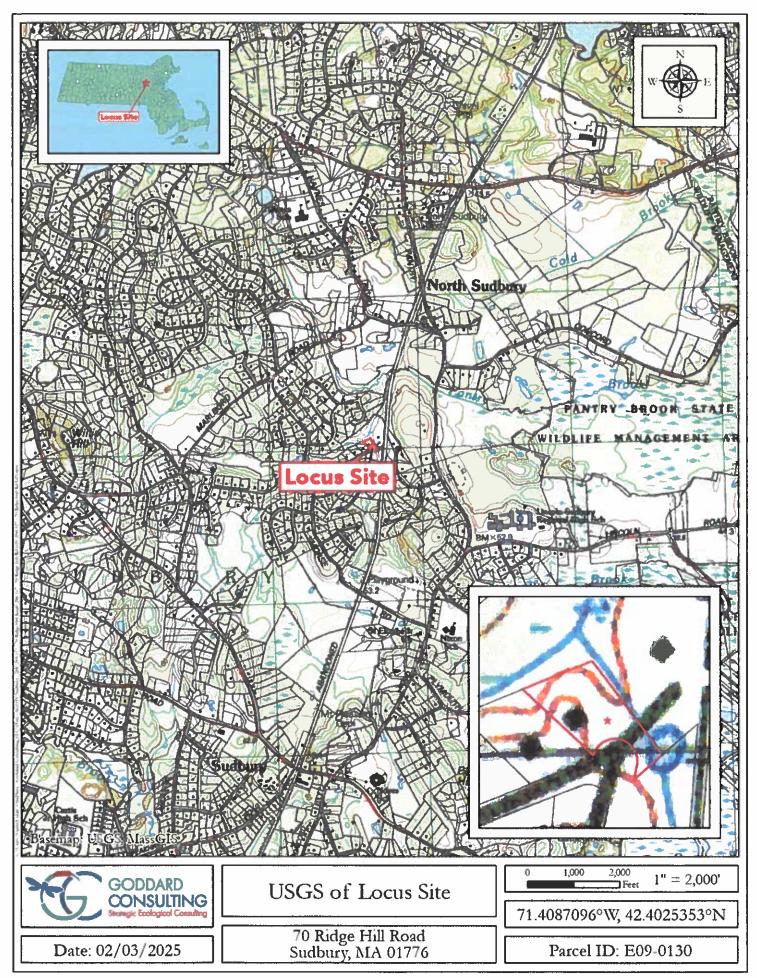
Legend		
SEE FIS REPORT FOR D	ETAILED LEG	SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
DTHER AREAS OF		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area with Flood Risk due to Levee See Notes. Zone X
OTHER AREAS	NO SCREEN	Area of Minimal Flood Hazard Zene X Effective LOMRs Area of Undetermined Flood Hazard Zene L
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
OTHER	B 20.2 17.5 mm 99 mm	Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Profile Baseline
MAP PANELS		Digital Data Available No Digital Data Available Unmapped
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This map complies digital flood maps i The basemap show accuracy standards	plies with I aps if it is shown con dards	This map complies with FEMA's standards for the use of digitat flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards
The flood haza	Ird informa	The flood hazard information is derived directly from the

authoritative NFHL web services provided by FEMA. This map reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or was exported on 2/20/2025 at 12:50 PM and does not become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels. FIRM panel number, and FIRM effective date. Map images for legend, scale bar, map creation date, community identifiers, unmapped and unmodernized areas cannot be used for

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STREAM STATS REPORTS

Report for Off-Site Northern Stream

Stream Stats Report for 14 Ridge Hill Road Sudbury, MA

 Region ID:
 MA

 Workspace ID:
 MA20250130155558733000

 Clicked Point (Latitude, Longitude):
 42.40289, -71.40959

 Time:
 2025-01-30 10:56:27 -0500



Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value Unit
BSLDEM250	Mean basin slope computed from 1:250K DEM	2.473 percent
DRFTPERSTR	Area of stratified drift per unit of stream length	0.17 square mile per mile
DRNAREA	Area that drains to a point on a stream	1.49 squaremiles
ELEV	Mean Basin Elevation	189 feet
FOREST	Percentage of area covered by forest	24.95 percent

1

Peak-Flow Statistics Citations

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

> Flow-Duration Statistics

Flow-Duration Statistics Parameters [Statewide Low Flow WRIR00 4135]

Parameter Code	Parameter Name	Value	Units	Min Limit	⁷⁷ Max Limit
BSLDEM250	Mean Basin Slope from 2 50K DEM	2	.473 percent		0.32 24.6
DRFTPERSTR	Stratified Drift per Stream Length	0.17	square mile per mile	0	1.29
DRNAREA	Drainage Area	1.49	s quare mites	1.61	149
MAREGION	Massachusetts Region	0	dimensionless	0	l

Flow-Duration Statistics Disclaimers [Statewide Low Flow WRIR00 4135]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Flow-Duration Statistics Flow Report [Statewide Low Flow WRIR00 4135]

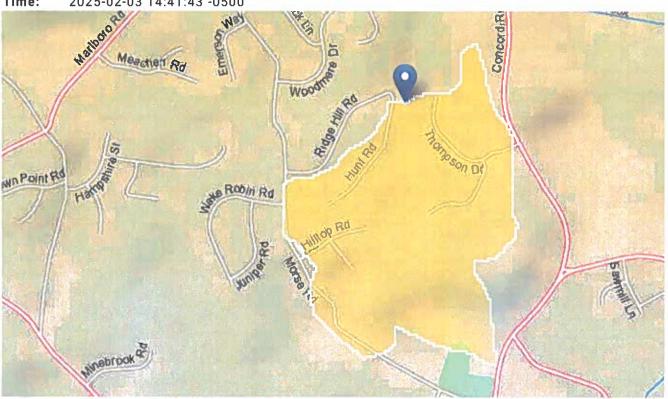
Statistic	Value	Unit
5 0 Percent Duration	1.43	ft^3/s
6 0 Percent Duration	0.987	ft^3/s
7 0 Percent Duration	0.583	ft^3/s
7 5 Percent Duration	0.445	ft^3/s
8 0 Percent Duration	0.371	ft^3/s
8 5 Percent Duration	0.266	ft^3/s
9 0 Percent Duration	0.199	ft^3/s
9 5 Percent Duration	0.109	ft^3/s
98 Percent Duration	0.0686	ft^3/s
99 Percent Duration	0.0485	ft^3/s
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StreamStats

Report for On-Site Eastern Stream

StreamStats Report

Region ID: MA Workspace ID: MA20250203194108323000 Clicked Point (Latitude, Longitude): 42.40159, -71.40869 Time: 2025-02-03 14:41:43 -0500



Collapse Ali

> Basin Characteristics

Parameter Code	Parameter Description	Value Unit
BSLDEMIOM	Mean basin slope computed from 10 m DEM	8.47 percent
BSLDEM250	Mean basin slope computed from 1:250K DEM	4.115 percent
DRFTPERSTR	Area of stratified drift per unit of stream length	0.24 square mile per mile
DRNAREA	Area that drains to a point on a stream	0.24 square miles
ELEV	Mean Basin Elevation	174 feet
FOREST	Percentage of area covered by forest	32.75 percent

https://streamstats.usgs.gov/ss/

> Flow-Duration Statistics

Flow-Duration Statistics Parameters [Statewide Low Flow WRIR00 4135]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
BSLDEM250	Mean Basin Slope from 250K DEM	4.115	percent	0.32	24.6
DRFTPERSTR	Stratified Drift per Stream Length	0.24	s quare mile per mile	0	1.29
DRNAREA	Drainage Area	0.24	square miles	1.61	149
MAREGION	Massachusetts Region	0	dimensionless	0	1

Flow-Duration Statistics Disclaimers [Statewide Low Flow WRIR00 4135]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Flow-Duration Statistics Flow Report [Statewide Low Flow WRIR00 4135]

Statistic	Value	Unit
5 0 Percent Duration	0.223	ft^3/s
6 0 Percent Duration	0.149	ft^3/s
7 0 Percent Duration	0.0897	ft^3/s
7 5 Percent Duration	0.0684	ft^3/s
8 0 Percent Duration	0.0693	ft^3/s
8 5 Percent Duration	0.0501	ft^3/s
9 0 Percent Duration	0.0426	ft^3/s
9 5 Percent Duration	0.0225	ft^3/s
9 8 Percent Duration	0.0136	ft^ 2 /s
9 9 Percent Duration	0.00923	ft^3/s

Flow-Duration Statistics Citations

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

CERTIFIED LIST OF ABUTTER & FORMS

JOD CREMING Abuttens 70 Ridge Hilt Rd E09-0130 2178/2015 Cynthia Genry, Sudbury Assessor Office B09-0133 E09-0131 E09-0130 MAHANY DANNE J & SAFIERZA AJ CE E09-0131 E09-0130 E09-0130 E09-0130 E09-0130 E09-0130 E09-0130 E00-0130 E00-0100 E00-0000 E00-0000 E00-0000 E00-0000 E

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Notification to Abutters Under the Massachusetts Wetlands Protection Act Sudbury Wetlands Administration Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following:

- A. The name of the Applicant is **Alice Sapienza.**
- B. The Applicant has filed a Request for Determination of Applicability with the Conservation Commission of the Town of <u>Sudbury</u> seeking permission to discharge to, remove, fill, dredge or alter an Area Subject to Protection (Wetland Resource Area and/or Buffer Zone) Under the Massachusetts Wetlands Protection Act (General Laws Chapter 131, Section 40) and Sudbury Wetlands Administration Bylaw.
- C. The address of the lot where the activity is proposed: 70 Ridge Hill Road in Sudbury Ma.
- D. The activity consists of: Repair of an existing septic system.
- E. Copies of the Request for Determination of Applicability may be examined at <u>Sudbury Conservation</u> <u>Commission Office</u> between the hours of <u>10:00 am and 3:00 pm on Monday through Friday</u>. For more information, call: <u>978-440-5471</u>. Check One: This is the Applicant___, representative___, or other <u>X</u> (Conservation Commission Office).
- F. Copies of the Request for Determination of Applicability may be obtained (upon payment of reproduction cost) from the <u>Applicant's representative (Connorstone Engineering)</u>, by calling this telephone number (508) 393-9727 between the hours of <u>10 am 4 pm</u> on the following days of the week: <u>Mon. Fri.</u>
- G. Information regarding the date, time, and place of the public hearing may be obtained from <u>Sudbury Conservation Commission Office</u> by calling this telephone number <u>978-440-5471</u> between the hours of <u>10:00 am and 3:00 pm on Monday through Friday</u>. This is the Applicant___, representative___, or other <u>X</u> (Conservation Commission Office).
- H. Public Participation will be via Virtual Means Only In light of the ongoing COVID-19 coronavirus outbreak, Governor Baker issued an emergency Order on March 12, 2020, allowing public bodies greater flexibility in utilizing technology in the conduct of meetings under the Open Meeting Law. The Town of Sudbury Conservation Commission greatly values the participation of its citizens in the public meeting process, but given the current circumstances and recommendations at both the state and federal levels to limit or avoid public gatherings, including Governor Baker's ban on gatherings of more than 10 people, together with the present closure of Sudbury Town Hall and other public buildings to the public, the Town has decided to implement the "remote participation" procedures allowed under Governor Baker's emergency Order for all boards, committees, and commissions.

Note: Public Hearing Notice, including its date, time, and place, will be published at least five (5) days in advance in the

MetroWest Daily News

(name of newspaper)

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 your local Conservation Commission or the nearest Department of Environmental Protection (DEP) for more information about this application or the Wetlands Protection Act. To contact DEP, call Northeast region: 978-661-7600

AFFIDAVIT OF SERVICE Under the Massachusetts Wetlands Protection Act & Sudbury Wetlands Administration Bylaw

I, <u>Vito Colonna of Connorstone Engineering, Inc.</u>, hereby certify under the pains and penalties of perjury that on <u>March</u> <u>(a)</u>, 2025 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

A Notice of Intent filed under the Sudbury Wetlands Administration Bylaw and Massachusetts Wetlands Protection Act by <u>Alice Sapienza</u> with the Sudbury Conservation Commission on <u>March</u>, 2025 for property located at <u>70 Ridge Hill Road in Sudbury Ma</u>.

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

1/2/1-

Name

3-6-25 Date

