EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES 102 Grove Street Worcester, MA 01605-2629 508-752-9666 – Fax: 508-752-9494

April 1, 2024

Sturbridge Conservation Commission Sturbridge Town Hall 301 Main St, Sturbridge, MA 01566

RE: Notice of Intent under the Massachusetts Wetlands Protection Act and the Town of Sturbridge Wetlands Protection Bylaw for Proposed Construction of a Garage, Stormwater Management System and driveway at 176 Podunk Road. Owner/Applicant: Thomas Buell

To the Commission:

Enclosed please find two (2) copies of the Notice of Intent filed under the Massachusetts Wetlands Protection Act ("WPA") and Town of Sturbridge Wetlands Protection Bylaw and Bylaw Regulations for the above-referenced project. Also enclosed please find two checks made payable to the Town of Sturbridge: (1) 262.50 (for category 2.g.) to cover the town share of the filing fee under the WPA; and (2) \$150.00 (for accessory to a single-family house) to cover the filing fee under the Bylaw. EcoTec, Inc. (Scott Jordan; 508-752-9666 ext. 226) will pay the Legal Notice fee promptly upon notification of the cost of the advertisement. This filing is comprised of:

- 1. This cover letter with project narrative, below;
- 2. The Town of Sturbridge Conservation Commission Notice of Intent Application Coversheet/Checklist;
- 3. WPA Form 3, Notice of Intent Form with Fee Transmittal Form and Copies of filing fee checks;
- 4. Sturbridge Wetland Protection By-Law and Regulations Wetlands Filing Fee Calculation Worksheet;
- 5. Certified Abutters List;
- 6. Town of Sturbridge Tax Form Sign-Off;
- 7. Wetland Resource Evaluation Report by EcoTec dated December 5, 2023, including:
 - USGS Map, with site indicated;
 - Flood Insurance Rate Map FIRMette, with site indicated;
 - NHESP Atlas, with site indicated; and
 - BVW delineation field forms.
- 8. Site Plan titled: "Proposed Site Plan- 176 Podunk Road, Sturbridge, MA" by Tauper Land Survey, Inc. dated March 29, 2024.

Project Narrative

The proposed project consists of the construction of a stormwater management basin within the 100-foot Buffer Zone and a garage, driveway and stormwater management swale within the

Sturbridge Conservation Commission Re: 176 Podunk Road Page 2 of 2

Sturbridge Bylaw 200-foot Buffer Zone. Although not required, stormwater management is provided to convey runoff from Podunk Road in a westerly direction while maintaining existing hydologic conditions at the driveway culvert. A copy of the stormwater report has been appended to the NOI application. Alternative site locations were examined and the proposed location was determined to be the feasible location with the least impacts to the state and local resource areas and Buffer Zones. An upland area along the northerly side of the existing driveway would require that the project be built closer to resource areas. Extensive wetlands and steep slopes restrict potential development on the westerly side of the existing driveway crossing. The proposed garage has been located as far from wetlands as possible, while maintaining required zoning setbacks. The wetland resource areas will be protected during construction of silt fence and straw wattles or bales and a stone tire scrubbed is proposed at the site entrance to prevent tracking onto Podunk Road.

One copy of this filing and payment of \$237.50 have been submitted by certified mail, return receipt requested to the Central Regional Office of the Department of Environmental Protection and the MassDEP Lockbox, respectively. Documentation of all payments is included in the filing.

Per Sturbridge Conservation Commission policy, please provide EcoTec with the Abutter Notification Letter upon receipt of the filing. EcoTec will then notify abutters and provide the Commission with proof of notification and an Affidavit of Service.

We look forward to meeting with the Commission regarding this filing. If you have any questions, please feel free to contact me at any time.

Cordially, ECOTEC, INC.

Scott Jordan

Scott Jordan Senior Environmental Scientist

CC: MassDEP Central Regional Office Thomas Buell

11/NOI/SturbridgePodunkRd176 NOI coverlett



Town of Sturbridge Conservation Commission Notice of Intent Application Coversheet/Checklist

		Date 4	1/1/24		
Parcel		n A	pplicant name	Thomas Birel	1
Address	176 Adunk Road	k r	Address	Thomas Bired 176 Podunk R sturbridge, MA buelle II. mit. e	Q
Assessors			Email	sturbridge, MA	01566
Map/Plat	520-00841-17	6 F	Phone		
Book & Page	32552 / 14			781-879-717	79
Owner name	Same	R	epresentative	Scott Jordan EcoTec	
Address			Address	EwTec 102 Grove St., S. Worzester, MA O. Sjordan Cecote	ito 110
Email			Email	4900 ester MA O	1605
Phone			Phone	sjondan@ecote	cive, com 52-9666 x.
P		· · · · · · · · · · · · · · · · · · ·			
Wetland type	BZ only	sf/cf affected		Relevant Perf. Standards	10
Wetland type		sf/cf affected		Relevant Perf. Standards	10
Wetland type		sf/cf affected		Relevant Perf. Standards	10

State Form: NOI Form 3	Included? 2 Yes D No			
Engineered Plan				
Proof of Mailing to DEP	Included? 🗹 Yes 🗖 No			
Narrative	Included? 🗹 Yes 🗆 No			
Proof that all relevant perf. standards are met	Included? 🗹 Yes 🛛 No			
TOPO Map identifying locus with scale	Included? 🗹 Yes 🛛 No			
FIRM Map identifying locus with scale	Included? 🗹 Yes 🛛 No			
Natural Heritage Map with WH, PH, & VP data	Included? 🗹 Yes 🗆 No Included? 🛛			
Delineation lines (backup material)	Included? 🗹 Yes 🛛 No			
Tax Form	Included? 🗹 Yes 🛛 No			
Fees				
★ Fee Transmittal form	Included? 🗹 Yes 🗆 No			
★ Filing Fee Worksheet	Included? 🗹 Yes 🗖 No			
★ Town portion of state filing fee	Included? 🗹 Yes 🗖 No			
★ Sturbridge local filing fee _\$	Included? 🗹 Yes 🗆 No			
Abutter Information				
★ Certified abutters list (within 200')	Included? 🗹 Yes 🗆 No			
\star Abutter notification form	Included? 🗹 Yes 🗆 No			
\star Affidavit & proof bring to hearing	Present them at the hearing			
Other Attachments, e.g.				
Confirmation of submission to NHESP	Included? 🛛 Yes 🖾 No 🖾 Not Applicable			
Planting Plan	Included? 🛛 Yes 🔲 No 🖾 Not Applicable			
Floodplain analysis	Included? 🛛 Yes 🛛 No 🗹 Not Applicable			
Stormwater analysis	Included? 🗹 Yes 🛛 No 🖾 Not Applicable			

----Components of a Complete <u>NOI</u> Application ----

А

Conservation Commission Wetland Permit Process

NOI 1	Process						
2	Obtain a Certified list of all abutters within 200' of property lines from the Assessor's Office. (may take 10 business days) Obtain a Tax Form Sign-Off by the Finance Department						
3	Submit applications (see bullets below) by noon of the Tuesday deadline (16 days before the desired hearing):						
	a. <u>To Sturbridge Conservation Commission</u> : 301 Main St., Sturbridge, MA 01566						
	This coversheet (1 paper copy)						
	 Complete application see the checklist on the other side of this page (2 paper copies and 1 pdf) Plans must be stamped by an engineer if any component of the project requires engineering. Checks 						
	b. <u>To Mass DEP Central Regional Office</u> : 8 New Bond Street, Worcester, MA 01606						
	 Complete application see the checklist on the other side of this page (1 paper copy) Photocopy of the two state checks 						
	Email a complete application to CERO_NOI@mass.gov						
	c. <u>To DEP Lock Box</u> : Box 4062, Boston MA 02211						
	Check for state portion of the state fee						
	Fee transmittal form						
4	Upon receipt of a complete application, the Conservation Agent will schedule a Public hearing/meeting.						
5	Once you are provided the date and time of the hearing, notify all abutters within 200' of the property line using the Town's " Notification to Abutters Form " by certified mail , certificate of mailing , or hand delivery wit signatures 7 business days prior to the Hearing . (Present proof of notification prior to the beginning of the public hearing.)						
6	The Conservation Agent will place a legal ad in a local newspaper and the Applicant will be billed for the ad.						
7	Stake the project. 2 weeks in advance of the public hearing, stake all proposed structures, erosion control barriers, stormwater systems, etc. within Con Com jurisdiction. (See SWB Regulations)						
8	The Conservation Commission and/or Agent will perform a site visit before the public hearing to confirm existing conditions and proposed work. If you wish to be informed of the time of the visit, please contact the Con Com office.						
9	 Attend the public hearing/meeting. The applicant or representative is required to provide proof of abutter notification (including Affidavit of Service), proof of legal advertisement, briefly present the project, and answer any questions about possible impacts on wetlands. At the end of the hearing, the Con Com will either Issue an Order of Conditions (OOC) approving or denying the project, or Approve a continuation of the public hearing to allow time for additional information to be provided. 						
10	Receive and read the decision and understand the conditions. Contact the Con Com if you have any questions Some conditions are temporary (such as maintaining erosion controls), and some are perpetual (such as maintaining restoration planting areas or limiting the use of fertilizers).						
11	Wait-out the 10-Day appeal period. A decision of the Con Com can be appealed by MassDEP or by any abutte applicant, or 10-citizen group within 10 business days of the decision.						
12	Record the Order at the Registry of Deeds. Provide proof of recording to the Conservation office along with signed Certificates of Understanding.						
13	Install MassDEP file number sign and erosion controls.						
14	Schedule and attend a pre-construction site visit. Contact the Conservation office to schedule the site visit.						
15	Execute the project. The project must be completed within 3 years, unless an extension of the permit is issued extensions must be requested at least 30 days prior to the expiration of the permit.						
16	Request a Certificate of Compliance (COC). Once the project is complete and all conditions have been satisfied request a COC from the Conservation office by submitting at least: (1) DEP Form 8a , (2) a stamped as-built pla and (3) a letter from the engineer stating that everything is in substantial compliance with the approved plans and OOC. The Con Com will perform a site visit to ensure compliance and will issue a COC if appropriate.						
17	Record the Certificate of Compliance (COC) at the Registry of Deeds to remove the cloud from the title. Provid proof of recording to the Conservation office.						

INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED.



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

WPA Form 3 – Notice of Intent

A. General Information

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

MassDEP File Num	ber
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Document Transaction Number Sturbridge 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.

176 Podunk Road		Sturbridge	01566			
a. Street Address		b. City/Town	c. Zip Code			
Latitude and Longitude:		42.15588	-72.04185			
520-00841		d. Latitude 176	e. Longitude			
f. Assessors Map/Plat Num	ber	g. Parcel /Lot Number				
Applicant:						
Thomas		Buell				
a. First Name		b. Last Name				
c. Organization						
176 Podunk Road						
d. Street Address		3136	V. (688			
Sturbridge		MA	01566			
e. City/Town		f. State	g. Zip Code			
781-879-7179		buell@ll.mit.edu				
h. Phone Number	i. Fax Number	j. Email Address	non ann the said			
			more than one owner			
h. Phone Number			more than one owner			
h. Phone Number			more than one owner			
h. Phone Number Property owner (requi a. First Name		applicant):	more than one owner			
h. Phone Number Property owner (requi		applicant):	more than one owner			
h. Phone Number Property owner (requi a. First Name		applicant):	more than one owner			
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address		applicant): Check if r				
h. Phone Number Property owner (requi a. First Name c. Organization		applicant):	more than one owner			
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address		applicant): Check if r				
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address e. City/Town	red if different from	applicant): Check if r b. Last Name f. State				
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if any	red if different from	applicant): Check if r b. Last Name f. State j. Email address				
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address e. City/Town h. Phone Number	red if different from	applicant): Check if r b. Last Name f. State				
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if any Scott	red if different from	applicant): Check if r b. Last Name f. State j. Email address Jordan				
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if any Scott a. First Name	red if different from	applicant): Check if r b. Last Name f. State j. Email address Jordan				
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if any Scott a. First Name EcoTec, Inc. c. Company 102 Grove Street, Su	red if different from	applicant): Check if r b. Last Name f. State j. Email address Jordan				
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if any Scott a. First Name EcoTec, Inc. c. Company 102 Grove Street, Su d. Street Address	red if different from	applicant): Check if r b. Last Name f. State j. Email address Jordan b. Last Name	g. Zip Code			
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if any Scott a. First Name EcoTec, Inc. c. Company 102 Grove Street, Su d. Street Address Worcester	red if different from	applicant): Check if r b. Last Name f. State j. Email address Jordan b. Last Name MA	g. Zip Code			
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if any Scott a. First Name EcoTec, Inc. c. Company 102 Grove Street, Su d. Street Address Worcester e. City/Town	red if different from	applicant): Check if r b. Last Name f. State j. Email address Jordan b. Last Name MA f. State	g. Zip Code			
h. Phone Number Property owner (requi a. First Name c. Organization d. Street Address e. City/Town h. Phone Number Representative (if any Scott a. First Name EcoTec, Inc. c. Company 102 Grove Street, Su d. Street Address Worcester	red if different from	applicant): Check if r b. Last Name f. State j. Email address Jordan b. Last Name MA	g. Zip Code			

b. State Fee Paid

a. Total Fee Paid



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 Sturbridge City/Town

A. General Information (continued)

6. General Project Description:

The applicant proposes to construct a stormwater management basin within the 100 Buffer Zone to a BVW. The applicant also proposes to construct a driveway, stormwater swale, and garage within the Sturbridge Bylaw 200-foot Buffer Zone.

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.	Restoration Limited Project) subject to 310 CMR	be treated as a limited project (including Ecological 10.24 (coastal) or 310 CMR 10.53 (inland)? nited project applies to this project. (See 310 CMR properties to this project. (See 310 CMR)
	2. Limited Project Type If the proposed activity is eligible to be treated as	

8. Property recorded at the Registry of Deeds for:

Project Checklist and Signed Certification.

Worcester	
a. County	b. Certificate # (if registered land)
32552	14
c. Book	d. Page Number

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

- 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.
- 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.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands Pr

WPA Form 3 – Notice of Intent

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

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

	Resou	rce Area	Size of Proposed Alteration Proposed	sed Replacement (if any)	
20.20.000	a. 🗌	Bank	1. linear feet 2. linea	ur feet	
For all projects affecting other Resource Areas,	b. 🗖	Bordering Vegetated Wetland	1. square feet 2. squa	are feet	
please attach a narrative explaining how the resource	c. 🗌	Land Under Waterbodies and	1. square feet 2. squa	are feet	
area was delineated.		Waterways	3. cubic yards dredged		
demicated.	Resou	rce Area	Size of Proposed Alteration Propo	sed Replacement (if any)	
	d. 🔲	Bordering Land			
		Subject to Flooding	1. square feet 2. squa	are feet	
	e. 🗌	Isolated Land	3. cubic feet of flood storage lost 4. cubi	c feet replaced	
		Subject to Flooding	1. square feet		
			2. cubic feet of flood storage lost 3. cubi	ic feet replaced	
	f. 🗆	Riverfront Area	1. Name of Waterway (if available) - specify coastal or inland		
	2.	Width of Riverfront Are	a (check one):		
		25 ft Designated	Densely Developed Areas only		
		🔲 100 ft New agrice	ultural projects only		
		200 ft All other p	rojects		
	3.	Total area of Riverfront A	Area on the site of the proposed project:	square feet	
	4.	Proposed alteration of th	e Riverfront Area:		
	a	total square feet	b. square feet within 100 ft. c. square	e feet between 100 ft. and 200 ft.	
	5	. Has an alternatives anal	ysis been done and is it attached to this NOI?	Yes No	
	6	. Was the lot where the ac	ctivity is proposed created prior to August 1, 1	996? 🗌 Yes 🗌 No	
	3. 🗆 C	oastal Resource Areas: (S	See 310 CMR 10.25-10.35)		
	Note	: for coastal riverfront area	as, please complete Section B.2.f. above.		



Massachusetts Department of Environmental Protection P Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided	by	MassDEP:
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MassDEP File Number

Document Transaction Number Sturbridge 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.

	Resou	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
	a. 🗌	Designated Port Areas	Indicate size under Land U	nder the Ocean, below
	b. 🗖	Land Under the Ocean	1. square feet	-
			2. cubic yards dredged	
	c. 🗌	Barrier Beach	Indicate size under Coastal I	Beaches and/or Coastal Dunes below
	d. 🔲	Coastal Beaches	1. square feet	2. cubic yards beach nourishment
	e. 🔲	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	-0.11
	h. 🗖	Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
	r 🗖	Land Under Salt Ponds	1. square feet	=
			2. cubic yards dredged	-
	1	Land Containing Shellfish	1. square feet	-
	k. 🗌	Fish Runs		Banks, inland Bank, Land Under the Jnder Waterbodies and Waterways,
			1. cubic yards dredged	-
	i. 🛄	Land Subject to Coastal Storm Flowage	1. square feet	
4.	If the squar	estoration/Enhancement project is for the purpose o e footage that has been en nt here.	f restoring or enhancing a wetla tered in Section B.2.b or B.3.h	and resource area in addition to the above, please enter the additional
	a. squa	re feet of BVW	b. square fee	et of Salt Marsh
5.	🗆 Р	roject Involves Stream Cro	ssings	
	a. num	ber of new stream crossings	b. number of	replacement stream crossings

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



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

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Sturbridge	
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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).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

 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
12/5/2023			1 Rabbit Hill Road Westborough, MA 01581
b. Date of ma	p		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).

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 **

 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 <u>https://www.mass.gov/ma-</u> endangered-species-act-mesa-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.



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

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

(c) MESA filing fee (fee information available at <u>https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review</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, https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-

https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-inpriority-habitat; 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.

ongoing. a. NHESP Tracking # b. Date submitted to NHESP

- 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

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 -	Division of Marine Fisheries -
Southeast Marine Fisheries Station	North Shore Office
Attn: Environmental Reviewer	Attn: Environmental Reviewer
836 South Rodney French Blvd.	30 Emerson Avenue
New Bedford, MA 02744	Gloucester, MA 01930
Email: dmf.envreview-south@mass.gov	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. Is this an aquaculture project?

d. 🗌	Yes		No
d. 🔄	Yes	1	

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



Online Users: Include your document transaction

(provided on your

receipt page) with all supplementary information you submit to the

Department.

number

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

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Document	Transaction Number
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City/Town	

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

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

a. 🗌 Yes 🖾 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

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

a. 🖃	Yes	1	No	
a. 🖃	Yes	1.1	No	

- 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 🛛 No
- 7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
 - a. 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. 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.

- 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 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 Sturbridge City/Town

D. Additional Information (cont'd)

 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	
Tauper Land Survey, Inc.	Mikael Lassila, PE
b. Prepared By	c. Signed and Stamped by
3/29/24	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

 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:

3. Check date
3/28/24
5. Check date
Buell
7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection Pro Bureau of Resource Protection - Wetlands WPA Form 3 – Notice of Intent

Provided by MassDEP: MassDEP File Number

Document Transaction Number

City/Town

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

Document transaction Number

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.

1. Signature of Applicant/ 2. Date 3. Signatur (if different) 5. Signature of Representative (if any) 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.



Important: When filling out forms

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

A. Applicant Information

on the computer, use only the tab	1.	Location of Project:						
key to move your		176 Podunk Road	Sturbridge b. City/Town					
cursor - do not use the return key.		a. Street Address						
		c. Check number	d. Fee amount					
Teb	2.	Applicant Mailing Address:						
		Thomas	Buell					
raturn 🥂		a. First Name	b. Last Name					
		c. Organization						
		176 Podunk Road						
		d. Mailing Address		10.1	- Alerta			
		Sturbridge			MA	01566		
		e. City/Town			f. State	g. Zip Code		
		781-879-7179		buell@ll.mit.	.edu			
		h. Phone Number i.	Fax Number	j. Email Addres	38			
	3.	Property Owner (if different):						
		a. First Name		b. Last Name				
		c. Organization						
		d. Mailing Address			A. 1	1.		
		e. City/Town			f. State	g. Zip Code		
		h. Phone Number i	. Fax Number	j. Email Addres	SS			

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

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
2.g.	<u>1</u>	\$500	\$500
		otal Project Fee	
	Step 6	/Fee Payments:	
	Total	Project Fee:	\$500 a. Total Fee from Step 5
	State share	e of filing Fee:	\$237.50 b. 1/2 Total Fee less \$12.50
	City/Town shar	e of filling Fee:	\$262.50 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.)

STURBRIDGE WETLANDS PROTECTION BY-LAW AND REGULATIONS

Application Type	Qty	Town Filing Fee	TOTAL
Notice of Intent (NOI):			
Residential – Single Family:	*		time
Accessory (Deck, Shed, Pool Septic)		\$150	\$150
Shoreline Work		\$150	
New Construction		\$300	
Residential – Other: Subdivision/Multi-Unit		\$750	
Commercial/Industrial: New		\$1500	
Redevelopment		\$1000	
Limited Project (as defined in SWB & WPA))	Equal to full WPA fee	
Alterations – located within Riverfront Area	Additional	50% of Fee	
Application filed after Enforcement Order		Double the Municipal fee	
Request for Amended Order of Conditions		50% of initial fo	ee
Request for Determination of Applicability (RDA:	90000000000000000000000000000000000000	
No Wetland Boundary Confirmation Residential:		\$100	
No Wetland Boundary Confirmation All Other:		\$200	
For Wetland Boundary Confirmation File ANRAD or NOI			
Abbreviated Notice of Resource Area Deline	ation (ANRAD).		
Residential – Single Family:		\$100	
All Other: Base Review		\$300	
Resource Area Boundary			

WETLANDS FILING FEE CALCULATION WORSHEET

Certificate of Compliance (COC):			
Residential:		Ф <i>Е</i> О	
Single Family	·····	\$50	
Subdivision or Multi-Unit		\$150	
Commercial or Industrial:		\$150	
If Order of Conditions has Expired		Add anadditional \$150	
OOC Extension Request		\$50	
Emergency Certification		\$50	
(NOI may be required to be filed following	ig issuance of Emergency	Cert)	
		a -	
Local Bylaw Fee (includes Town F	Filing Fee)	s_150	
State Filing Fee (from DEP Wetla	nd Transmittal Form)	\$ 262,50	

Total Payable to "Town of STURBRIDGE"

s <u>412,50</u>

*Additional Consultant Fee may be required for reasons which may include:

- Significant amount of wetland impact;
- Extensive resource areas on a site;
- Lack of information supplied;
- Incomplete plans, reports, forms submitted;
- Supplemental information submitted.

Parcel ID	Owner	Owner Address	Owner City	State	Zip	Property Address
570-00831-198	MOYNAGH ROBERT J	181 PODUNK ROAD	STURBRIDGE	MA	01566	01566 198 PODUNK ROAD
520-00841-184	CHANG JIMMY J	184 PODUNK ROAD	STURBRIDGE	MA	01566	01566 184 PODUNK ROAD
183-01217-049	DONALDSON DAVID C	49 BUSHNELL ROAD	STURBRIDGE	MA	01566	01566 49 BUSHNELL ROAD
183-01215-045	HERTING AMBER N TRUSTEE	125 PELHAM ISLAND ROAD	SUDBURY	MA	01776	01776 45 BUSHNELL ROAD
183-01218-057	HILLMAN REED V	57 BUSHNELL ROAD	STURBRIDGE	MA	01566	01566 57 BUSHNELL ROAD
520-00851-170	MCCUE RYAN	170 PODUNK ROAD	STURBRIDGE	MA	01566	170 PODUNK ROAD
520-00851-173	QUARLES RYAN HARRISON	173 PODUNK ROAD	STURBRIDGE	MA	01566	173 PODUNK ROAD
520-00831-181	MOYNAGH KATHLEEN M	181 PODUNK ROAD	STURBRIDGE	MA	01566	01566 181 PODUNK ROAD
520-00842-177	SUPRENANT GERALD ROY	177 PODUNK RD	STURBRIDGE	MA	01566	01566 177 PODUNK ROAD
520-00851-175	VANDERHOOF KARL J	175 PODUNK ROAD	STURBRIDGE	MA	01566	175 PODUNK ROAD
Above persons li	Above persons listed are record owners as they appear on the most recent applicable tax	appear on the most recent ap	plicable tax list.			
Assessors are no	Assessors are not responsible for errors or omissions. RE: M.G.L Chapter 40A, Section 1	sions. RE: M.G.L Chapter 40.	A, Section 11			
Abutters List -	Conservation Commission - 200					
RE: 176 PODUNK ROAD	(ROAD					
Certified Copy	1 11 1					
Assessor:	Capitor V. Marylon					
2	1 1 20 20					
Date.	50.01					



<u>Town of Sturbridge</u>

Barbara A. Barry, Finance Director

Department/Board/Committee: ______

Please verify outstanding tax/fee status for the following property owner:

Property Owner:	Thomas	<u>rs Buell</u>	2	
Property Location:	176	Podunk	Road	

The license/permit may be released.

□ The license/permit may not be released.

icken for Finance Direct

28/24

EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES 102 Grove Street, Suite 110 Worcester, MA 01605-2629 508-752-9666 – Fax: 508-752-9494

December 5, 2023

Thomas Buell 176 Podunk Road Sturbridge, MA 01566

RE: Wetland Resource Evaluation, 176 Podunk Road, Sturbridge, Massachusetts

Dear Mr. Buell:

On November 17, 2023, EcoTec, Inc. inspected the above-referenced property for the presence of wetland resources as defined by: (1) the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, § 40; the "Act") and its implementing regulations (310 CMR 10.00 *et seq.*; the "Regulations"); (2) the U.S. Clean Water Act (i.e., Section 404 and 401 wetlands); and (3) the Town of Sturbridge Wetlands Protection Bylaw and regulations. Scott Morrison, PWS conducted the inspection.

The subject site consists of the southeasterly corner of the property. This area is located to the south of the driveway, west of Podunk Road, and easterly of an intermittent stream. The upland portions of the site consist of existing forested area and former log landing for a timber harvesting operation. Plant species observed include northern red oak (*Quercus rubra*), eastern white pine (*Pinus strobus*), red maple (*Acer rubrum*), sugar maple (*Acer saccharum*), white ash (*Fraxinus americana*), and black birch (*Betula lenta*) trees and/or saplings; poison ivy (*Toxicodendron radicans*) climbing woody vines; American witch-hazel (*Hamamelis virginiana*), and American hazel-nut (*Corylus americana*), shrubs; and tree clubmoss (*Lycopodium obscurum*), trailing clubmoss (*Lycopodium complanatum*), bracken fern (*Pteridium aquilinum*), hayscented fern (*Dennstaedtia punctilobula*), teaberry (*Gaultheria procumbens*), partridgeberry (*Mitchella repens*), feather false-Solomon's-seal (*Smilacina racemosa*), and wild-lily-of-the-valley (*Maianthemum canadense*) ground cover. The wetland resources observed on the site are described below.

Methodology

The site was inspected, and areas suspected to qualify as wetland resources were identified. The boundary of Bordering Vegetated Wetlands or, in the absence of Bordering Vegetated Wetlands, Bank was delineated in the field in accordance with the definitions set forth in the regulations at 310 CMR 10.55(2)(c) and 310 CMR 10.54(2). Section 10.55(2)(c) states that "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." Section 10.54(2)(c) states that "The upper boundary of Bank is the first observable break in the slope or the mean annual flood level, whichever is lower." The methodology used to delineate Bordering Vegetated Wetlands is further described in the *Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands*, Second Edition, produced by the Massachusetts Department of Environmental Protection, dated September 2022. As recommended by the Department, the plant taxonomy used in this letter is based on the *National List of Plant Species that Occur in Wetlands: Massachusetts* (Fish and Wildlife Service, U.S. Department of the Interior, 1988). Federal wetlands were presumed to have boundaries conterminous with the delineated Bordering Vegetated Wetlands. One set of *Bordering Vegetated Wetland Determination Forms* completed for observation plots located in the wetlands and uplands near flag A-7 is attached. The table below provides the Flag Numbers, Flag Type, and Wetland Types and Locations for the delineated wetland resources.

Flag Numbers	Flag Type	Wetland Types and Locations
Start A1 to A14 Stop (Culvert between A8 & A9)	Blue Flags	Boundary of Bordering Vegetated Wetlands located in the northern portion of the site that is associated with an intermittent stream.

Findings

Wetland A (i.e., flags A1 to A14) consists of a forested swamp located in the southern portion of the site that is associated with an intermittent stream. Plant species observed include red maple (Acer rubrum), yellow birch (Betula alleghaniensis), swamp white and American elm (Ulmus americana) trees and/or saplings; poison ivy (Toxicodendron radicans) climbing woody vines; highbush blueberry (Vaccinium corymbosum), common winterberry (Ilex verticillata), arrow-wood (Viburnum dentatum), and northern spicebush (Lindera benzoin) shrubs; and sheep-laurel (Kalmia angustifolia), bristly blackberry (Rubus hispidus), cinnamon fern (Osmunda cinnamomea), sensitive fern (Onoclea sensibilis), Massachusetts fern (Thelypteris simulata), spinulose woodfern (Dryopteris spinulosa), skunk-cabbage (Symplocarpus foetidus), Alaska goldthread (Coptis trifolia), spotted touch-me-not (Impatiens capensis), shining clubmoss (Lycopodium lucidulum), and sphagnum moss (Sphagnum sp.) ground cover. Evidence of wetland hydrology, including hydric soils, high groundwater, saturated soils, and drainage patterns, was observed within the delineated wetland. This vegetated wetland borders an intermittent stream; accordingly, the vegetated wetlands would be regulated as Bordering Vegetated Wetlands and the intermittent stream would be regulated as Bank under the Act and Bylaw. A 100-foot Buffer Zone extends horizontally outward from the edge of Bordering Vegetated Wetlands and Bank under the Act and Bylaw.

Bordering Land Subject to Flooding is an area that floods due to a rise in floodwaters from a bordering waterway or water body. Where flood studies have been completed, the boundary of Bordering Land Subject to Flooding is based upon flood profile data prepared by the National Flood Insurance Program. Section 10.57(2)(a)3. states that "The boundary of Bordering Land Subject to Flooding is the estimated maximum lateral extent of flood water which will

EcoTec, Inc.

176 Podunk Road, Sturbridge December 5, 2023 Page 3.

theoretically result from the statistical 100-year frequency storm." Based upon a review of the Flood Insurance Rate Map, Worcester County, Massachusetts, Map Number 25027C0766F, Effective Date June 21, 2023, the site is mapped as Other Areas: Zone X, which is defined as areas located outside of the 0.2% annual chance flood (i.e., outside of 500-year floodplain). The project engineer should evaluate the most recent National Flood Insurance Program flood profile data to determine if Bordering Land Subject to Flooding occurs on the site. Bordering Land Subject to Flooding would occur in areas where the 100-year flood elevation is located outside of or upgradient of the delineated Bordering Vegetated Wetlands or Bank boundary. Bordering Land Subject to Flooding does not have a Buffer Zone under the Act.

The Massachusetts Rivers Protection Act amended the Act to establish an additional wetland resource area: Riverfront Area. Based upon a review of the current USGS Map (attached) and observations made during the site inspection, a stream that is not shown on the USGS Map is located in the western portion of the inspection area. The watershed area for this stream at the site was determined to be 0.067 square miles, which is substantially less than 0.5 square miles (see attached watershed calculations). As such, the stream would be designated intermittent under the Massachusetts Wetlands Protection Act regulations. Furthermore, based upon a review of the current USGS Map and observations made during the site inspection, there are no other mapped or unmapped streams located within 200 feet of the site. Accordingly, Riverfront Area would not occur on the site. Riverfront Area does not have a Buffer Zone under the Act.

The Regulations require that no project may be permitted that will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures set forth at 310 CMR 10.59. Based upon a review of the *Massachusetts Natural Heritage Atlas*, 15th edition, Priority Habitats and Estimated Habitats from the NHESP Interactive Viewer, valid from August 1, 2021, and Certified Vernal Pools from MassGIS, there are no Estimated Habitats [for use with the Act and Regulations (310 CMR 10.00 *et seq.*)], Priority Habitats [for use with Massachusetts Endangered Species Act (M.G.L. Ch. 131A; "MESA") and MESA Regulations (321 CMR 10.00 *et seq.*)], or Certified Vernal Pools on or in the immediate vicinity of the site. A copy of this map is attached.

The reader should be aware that the regulatory authority for determining wetland jurisdiction rests with local, state, and federal authorities. A brief description of my experience and qualifications is attached. If you have any questions, please feel free to contact me at any time.

Cordially, ECOTEC, INC.

Scott M. Morrison, PWS Senior Environmental Scientist

17/E/SturbridgePodunk176Report



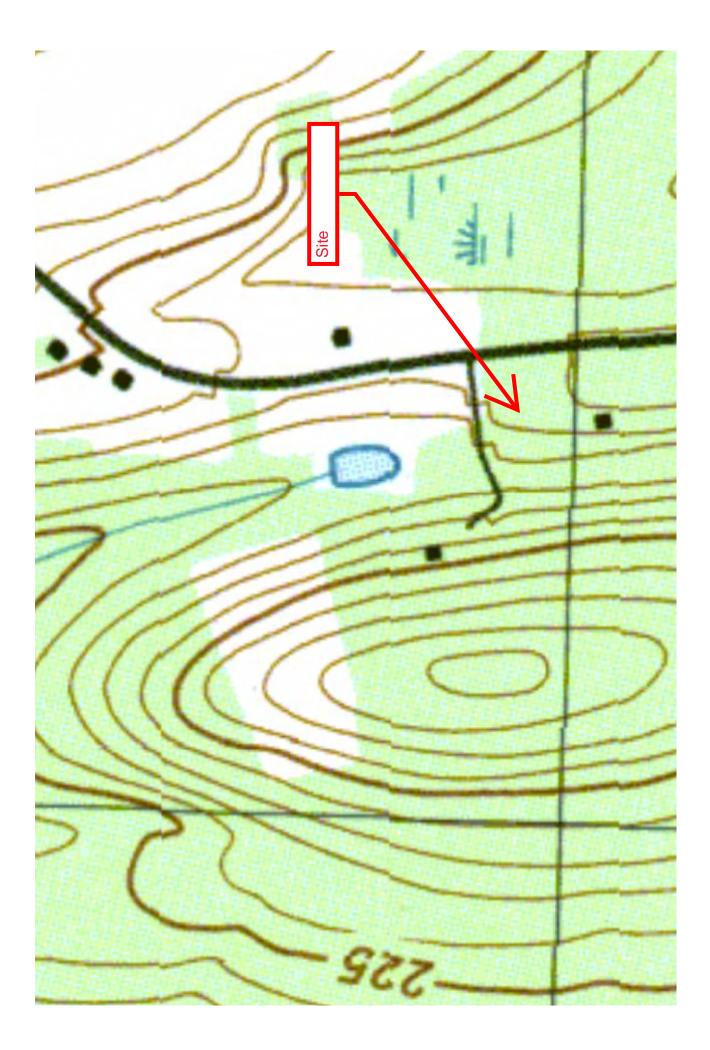
EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES 102 Grove Street Worcester, MA 01605-2629 508-752-9666 – Fax: 508-752-9494

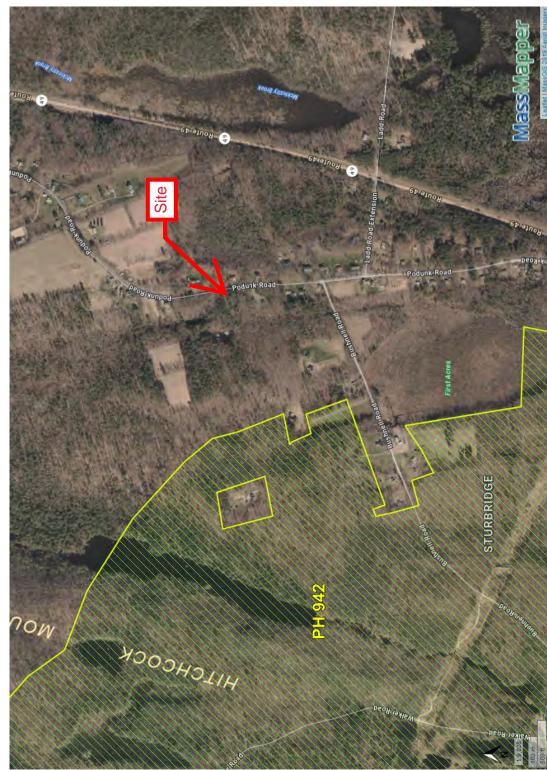
Scott M. Morrison, PWS, CERP, RPSS, SE Senior Environmental Scientist

Scott Morrison is a Senior Environmental Scientist with EcoTec, Inc. Since joining EcoTec in 2000, Mr. Morrison's project experience include wetland resource evaluation, delineation, and permitting at the local, state, and federal levels; wildlife habitat evaluation; pond and stream evaluation; vernal pool evaluation, monitoring, and certification; wetland replacement, replication, and restoration area design, construction, and monitoring; soil evaluations to determine infiltration rates and seasonal high groundwater elevations for detention basin construction; environmental sampling and analysis tasks, including soil and groundwater sample collection and handling; and expert testimony preparation. He has conducted rare species habitat assessments for the eastern box turtle, wood turtle, Blanding's turtle, spotted turtle, and marbled salamander. He has participated in rare species studies for rare species including the marbled salamander, piping plover, eastern box turtle, and northern diamondback terrapin and developed mitigation strategies for the marbled salamander, spotted turtle, eastern box turtle and wood turtle. He has participated in visual preconstruction sweeps for the wood turtle and both preconstruction and research projects for the eastern box turtle. He has served as a consultant to municipalities, conservation commissions, engineering and survey firms. He has completed numerous wetland related projects including environmental impact assessments for proposed development, erosion control and environmental monitoring for subdivisions, commercial developments, golf courses and landfills. He has prepared Massachusetts Environmental Policy Act (MEPA) documentation, including Environmental Notification Forms (ENFs), Notice of Project Changes (NPCs), and Draft and Final Environmental Impact Reports (EIRs) including Green House Gas Assessments for various projects including subdivisions, commercial buildings, and dredging projects. Prior to joining EcoTec, Inc. Mr. Morrison worked for the Massachusetts Department of Environmental Management (currently the Department of Conservation and Recreation) where he was involved with the monitoring and protection of endangered species and rare old growth forest. He was an active member of the Spencer Conservation Commission from 1998 to 2000 where he provided oversight of proposed wetland replication projects and review of projects submitted for wetland permitting. His educational background includes courses in forestry, ecology, chemistry, soils, and natural resource policy. His prior research experience includes research on forest succession and field research on nesting piping plovers, an endangered coastal shore bird.

Education:	Graduate Soil Science Certificate Program
	University of Massachusetts at Amherst, 2006
	Bachelor of Science: Natural Resource Studies
	University of Massachusetts at Amherst, 1998
	Associate of Science: Business Administration
	Quinsigamond Community College, 1996
Professional Affiliations:	Registered Professional Soil Scientist, Society of Soil Scientists of
	Southern New England (SSSSNE)
	Massachusetts Association of Conservation Commissioners
	Association of Massachusetts Wetland Scientists
	Society of Wetland Scientists
	Society for Ecological Restoration-
Certifications:	Society of Wetlands Scientists Professional Wetland Scientist,
	Certification Number 2583
	Massachusetts Department of Environmental Protection Soil Evaluator,
	Certification Number SE 13766
	Society for Ecological Restoration-Certified Ecological Restoration Practitioner
	Certification Number 0648
	OSHA Health and Safety Training, 40-Hour, 29 CFR 1910.120
	University of Massachusetts Extension, Invasive Species Management



176 Podunk Road, Sturbridge



NHESP Estimated Habitats of Rare Wildlife

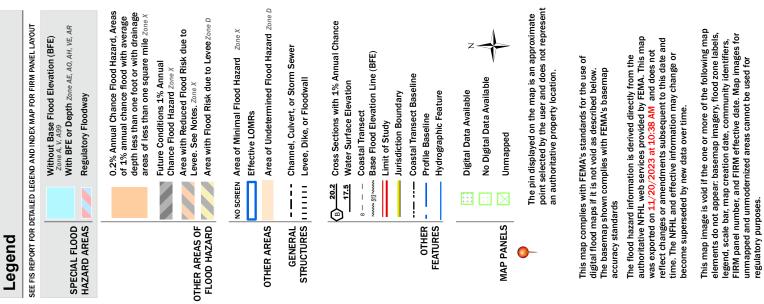
NHESP Priority Habitats of Rare Species

Map Features for Imagery

National Flood Hazard Layer FIRMette

2°2'54"W 42°9'35





Basemap Imagery Source: USGS National Map 2023 2°2'17"W 42°9'9 1:6,000 AREA OF MINIMAL FLOOD HAZARD Feet 2,000 25027C07 ft.6/21/ 1,500 TOWNOF/STURBRIDGE 1,000 500 250337

250

StreamStats Report

 Region ID:
 MA

 Workspace ID:
 MA20231120154702042000

 Clicked Point (Latitude, Longitude):
 42.15935, -72.04358

 Time:
 2023-11-20 10:48:32 -0500



Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0665	square miles

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.18.1 StreamStats Services Version: 1.2.22 NSS Services Version: 2.2.1

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: <u>176 Podunk Road</u>	City/Town: Sturbridge	Sampling Date: <u>11/17/23</u>			
Applicant/Owner:	Sampling	Point or Zone: Upland			
Investigator(s):	vestigator(s):Latitude / Longitude:				
Soil Map Unit Name:NWI or DEP Classification:					
Are climatic/hydrologic conditions on the	site typical for this time of year? Yes	✓ No (If no, explain in Remarks)			
Are Vegetation, Soil, or	Hydrology significantly disturbed?	? (If yes, explain in Remarks)			
Are Vegetation, Soil, or	Hydrology naturally problematic?	(If yes, explain in Remarks)			
SUMMARY OF FINDINGS – Attach site m	ap and photograph log showing sampling	g locations, transects, etc.			
Wetland vegetation criterion met? Hydric Soils criterion met? Wetlands hydrology present?	Yes ✓ No Is the Samp Yes No ✓ within a W Yes No ✓				
Remarks, Photo Details, Flagging, etc.:					
HYDROLOGY					
Field Observations:					
Surface Water Present?	Yes No 🖌 Dep	oth (inches)			
Water Table Present?	Yes No 🖌 Dep	oth (inches)			
Saturation Present (including capillary fr	inge)? Yes No 🖌 Dep	oth (inches)			
Wetland Hydrology Indicators					
Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	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	Saturated soil	Drift lines			
Algal mats or crusts	Water marks	Sediment deposits			
linings					
Thin muck surfaces	Presence of reduced iron	Surface soil cracks			
Plants with air-filled tissue	Woody plants with adventitious	Sparsely vegetated concave			
(aerenchyma)	roots Trees with shallow root systems	surface Microtopographic relief			
Plants with floating leaves	Woody plants with enlarged	Geographic position (depression,			
Hydrogen sulfide odor	lenticels	toe of slope, fringing lowland			
Remarks (describe recorded data from s	tream gauge, monitoring well, aerial pho	tos, previous inspections, if available):			

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

<u>Tree Stratum</u>	Plot size <u>30' Radius</u>				
		Indicator	Absolute/	Dominant?	Wetland
		Status	Relative %		Indictor?
Common name*	Scientific name		Cover	()))	(yes/no)
1. red maple	Acer rubrum	FAC	30	Yes	Yes
2. white ash	Fraxinus americana	FACU	20	Yes	No
3. white pine	Pinus strobus	FACU	20	Yes	No
4.					
5.					
6.					
7.					
8.					
9.					
		·	70	= Total Absolu	ite Cover
Shrub/Sapling Stratum	Plot size <u>15' Radius</u>				
		Indicator	Absolute/	Dominant?	Wetland
		Status	Relative %		Indictor?
Common name*	Scientific name	514145	Cover	(yes/110)	(yes/no)
1. eastern hemlock	Tsuga canadensis	WET	20	Yes	Yes
2. winterberry	llex verticillata	FACW	20	Yes	Yes
3.		TAOW	20	103	103
4.					
5.					
6.					
7.					
8.					
9.					
5.			40	- Total Abcal	ita Cavar
			40	= Total Absolu	ite Cover
<u>Herb Stratum</u>	Plot size <u>5' Radius</u>				
		Indicator	-	Dominant?	Wetland
		Status	Relative %		Indictor?
Common name*	Scientific name		Cover		(yes/no)
1. christmas fern	Polystichum acrostichoides	FACU	30	Yes	No
2. sensitive fern	Onoclea sensibilis	FACW	40	Yes	Yes
3. garlic mustard	Alliara pitiolata	NL	20	Yes	No
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					I
* 1088 Plant List			90	= Total Absolu	ute Cover

VEGETATION – Use both common and scientific names of plants.

* 1988 Plant List

VEGETATION – continued.

Woody Vine Stratum	Plot size <u>30' Radius</u>				
		Indicator Status	Absolute/ Relative %	Dominant?	Wetland Indictor?
Common name*	Scientific name	Status	Cover	(yes/10)	(yes/no)
common name	Selentine hame		00001	1	(yes/110)
1.					
2.					
3.					
4.					
				= Total Absolu	ite Cover

* 1988 Plant List

Rapid Test: Do	Rapid Test: Do all dominant species have an indicator status of OBL or FACW? Yes No 🖌				
Dominance Test:	Number of	Number of dominant species that are		Do wetland indicator plants make up	
	dominant species	wetland indicator plants		≥ 50% of dominant plant species?	
				Yes 🖌 No 🔄	
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result	
	OBL species		X 1	= 0.0	
	FACW species		X 2	= 0.0	
	FAC species		Х З	= 0.0	
	FACU species		X 4	= 0.0	
	UPL species		X 5	= 0.0	
	Column Totals	(A) 0.0		(B) 0.0	
Prevalence Index				Is the Prevalence Index \leq 3.0?	
B/A =		B/A = 0.0		Yes No	
Wetland vegetation	Wetland vegetation criterion met? Yes 🖌 No 🗌				

Definitions of Vegetation Strata

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

Cover Ranges				
Range	Midpoint			
1-5 %	3.0 %			
6-15 %	10.5 %			
15-25 %	20.5 %			
26-50 %	38.0 %			
51-75 %	63.0 %			
76-95 %	85.5 %			
96-100 %	98.0 %			

Profile Descr	iption: (Describe	e to the	depth needed to	docum	ent the in	dicator o	or co	nfirm the abso	ence of indicators)
Horizon/	Matrix		Re	dox Fea	atures				
Depth	Color (moist)	%	Color (moist)	%	Type ¹	Locatio	n ²	Texture	Remarks
A/0-14	10YR 3/2				<u> </u>			fsl	
Bw/14-20+	10YR 4/6				<u> </u>			fsl	
					<u> </u>				
					<u> </u>				
					<u> </u>				
					<u> </u>				
¹ Type: C=Cond	centration, D=Dep	letion, RI	M=Reduced Matri	x, MS=N	l 1asked San	d Grains	² Lo	cation: PL=Por	Lining, M=Matrix
Hydric Soil Ir	ndicators (Check	all that	apply)				Inc	licators for Pr	oblematic Hydric Soils
Histosol	(A1)		Polyv	alue Be	low Surfa	ce (S8)		2 cm Muck	(A10)
Histic Ep	oipedon (A2)		Thin	Dark Su	rface (S9)			5 cm Mucky	Peat or Peat (S3)
Black His	stic (A3)		Loam	y Muck	y Mineral	(F1)		Dark Surfac	e (S7)
Hydroge	en Sulfide (A4)		Loam	iy Gleye	d Matrix	(F2)		Polyvalue B	elow Surface (S8)
Stratifie	d Layers (A5)		Deple	eted Ma	atrix (F3)			Thin Dark S	urface (S9)
Deplete	d Below Dark Su	rface (A	l1) 🗌 Redo	x Dark S	Surface (F	7)		Iron-Manga	nese Masses (F12)
Thick Da	ork Surface (A12)		Deple	eted Da	rk Surface	e (F8)		Mesic Spod	ic (A17)
Sandy N	lucky Mineral (S	1)						Red Parent	Material (F21)
Sandy G	leyed Matrix (S4)						Very Shallov	w Dark Surface (TF12)
Sandy R	edox (S5)								de Explanation in
Stripped	Matrix (S6)							Remarks)	
Dark Sur	rface (S7)								
Restrictive La	ayer (if observed	l) Typ	be:			De	epth	(inches):	
Remarks:									
Hydric Soils	criterion met?		Yes	No 🗸					

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 176 Podunk Road	City/Town: Sturbridge	Sampling Date: <u>11/17/23</u>
Applicant/Owner:	Sampling	Point or Zone: <u>A-7</u>
Investigator(s): Scott Morrison	Latitude /	Longitude:
Soil Map Unit Name:	NWI or DE	EP Classification:
Are climatic/hydrologic conditions on the	site typical for this time of year? Yes	✓ No (If no, explain in Remarks)
Are Vegetation, Soil, or	Hydrology significantly disturbed?	? (If yes, explain in Remarks)
Are Vegetation, Soil, or	Hydrology naturally problematic?	(If yes, explain in Remarks)
SUMMARY OF FINDINGS – Attach site ma	ap and photograph log showing sampling	g locations, transects, etc.
Wetland vegetation criterion met?	Yes 🖌 No 🔄 Is the Samp	oled Area 🛛 Yes 🗹 No 📃
Hydric Soils criterion met?	Yes 🖌 No 🔄 🛛 within a W	etland?
Wetlands hydrology present?	Yes 🖌 No 🔄	
Remarks, Photo Details, Flagging, etc.:		
HYDROLOGY		
Field Observations:		
Surface Water Present?	Yes 🖌 No 📃 Dep	oth (inches)_0
Water Table Present?	Yes 🖌 No 📃 Dep	oth (inches)_0
Saturation Present (including capillary fr	inge)? Yes 🖌 No 🗌 Dep	oth (inches)_0
Wetland Hydrology Indicators		1
Reliable Indicators of Wetlands	Indicators that can be Reliable with	Indicators of the Influence of Water
Hydrology	Proper Interpretation	
✓ Water-stained leaves	Hydrological records	Direct observation of inundation
Evidence of aquatic fauna	Free water in a soil test hole	Drainage patterns
Iron deposits	✓ Saturated soil	Drift lines Scoured areas
Algal mats or crusts ✓ Oxidized rhizospheres/pore	Water marks Moss trim lines	Sediment deposits
linings		
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	Geographic position (depression,
Hydrogen sulfide odor	lenticels	toe of slope, fringing lowland
Remarks (describe recorded data from s	tream gauge, monitoring well, aerial pho	tos, previous inspections, if available):

This form is only for BVW 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 r	plants.
--	------------------	-------------	----------------	------------	---------

Tree Stratum Plot si	ze_30' Radius_				
		Indicator	Absolute/	Dominant?	Wetland
		Status	Relative %		Indictor?
Common name*	Scientific name		Cover		(yes/no)
1. white pine	Pinus strobus	FACU	30	Yes	No
2. red maple		FAC	20	Yes	Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
			50=	= Total Absolu	ite Cover
Shrub/Sapling Stratum Plot si	ze_15' Radius_				
		Indicator	Absolute/	Dominant?	Wetland
		Status	Relative %		Indictor?
Common name*	Scientific name	otatao	Cover	() = 0, 110 /	(yes/no)
1. winterberry	llex verticillata	FACW	60	Yes	Yes
2. witch-hazel	Hamamelis virginiana	FAC-	20	No	Yes
3.					
4.					
5.					
6.					
7.					
8.					
9.					
		I	80	= Total Absolu	ite Cover
Herb Stratum Plot si	izo E' Dodiuo				
	ze <u>5' Radius</u>		AL	5	
				Dominant?	Wetland
Common nomo*	Colontific name	Status	Relative %		Indictor?
Common name*	Scientific name	FAC+	Cover 80		(yes/no) Yes
 spinulose wood fern . 	Dryoptoris spinulosa		00	Yes	Tes
3.					
4.					
5.					
6. 7.		<u> </u>			
8.					
9.					
9. 10.		<u> </u>			
10.		<u> </u>			
11.					
12. 			00	Tatal Alian	
			80	= Total Absolu	ite Cover

* 1988 Plant List

VEGETATION – continued.

Woody Vine Stratum	Plot size 30' Radius				
		Indicator	Absolute/	Dominant?	Wetland
		Status	Relative %	(yes/no)	Indictor?
Common name*	Scientific name		Cover		(yes/no)
1.					
2.					
3.					
4.					
				= Total Absolu	ite Cover

* 1988 Plant List

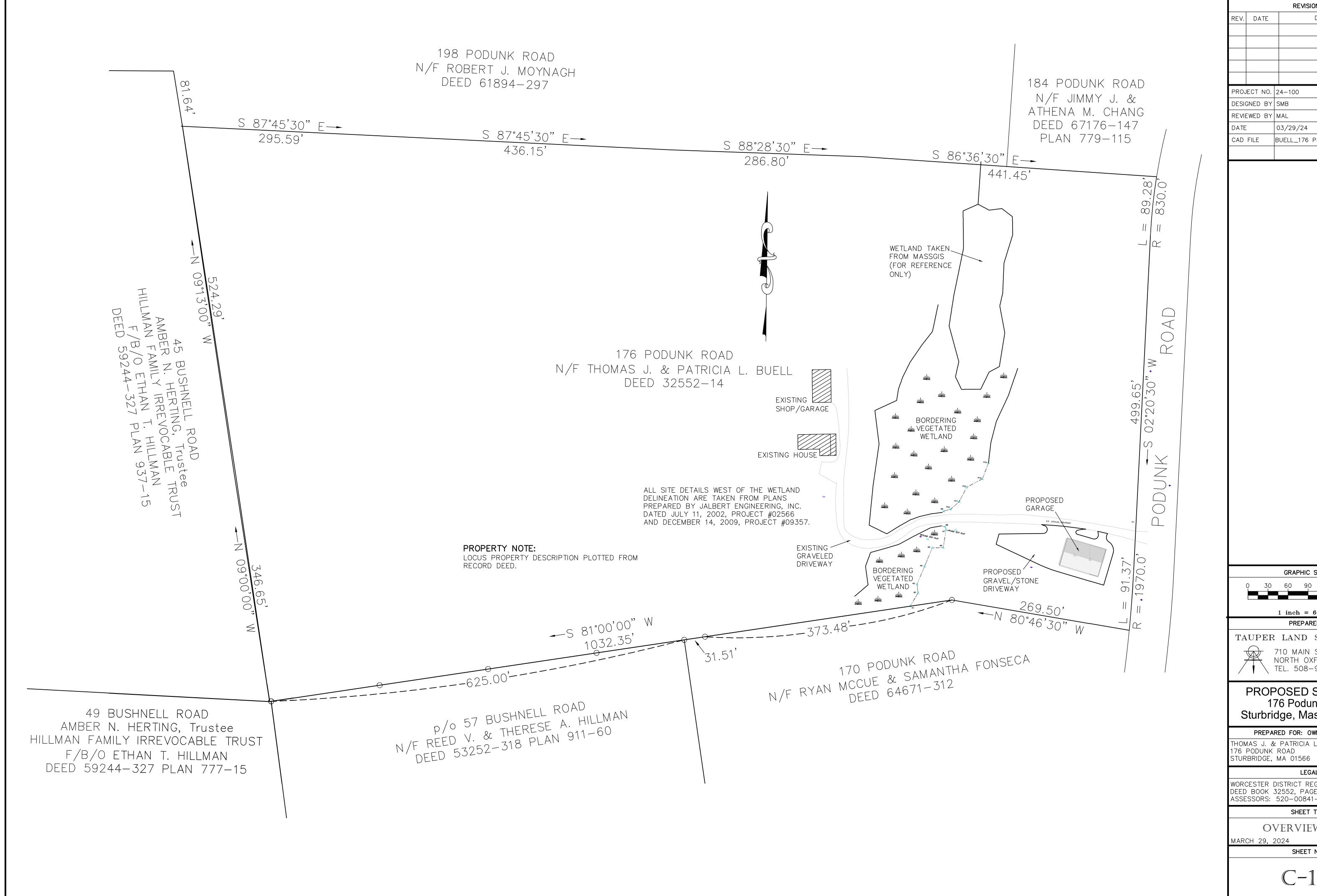
Rapid Test: Do	all dominant species	have an indicator status of (OBL or FACW?	Yes No 🖌
Dominance Test:	Number of	Number of dominant speci	es that are	Do wetland indicator plants make up
	dominant species	wetland indicator plants		≥ 50% of dominant plant species?
				Yes 🖌 No 🔄
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result
	OBL species		X 1	= 0.0
	FACW species		X 2	= 0.0
	FAC species		Х З	= 0.0
	FACU species		X 4	= 0.0
	UPL species		X 5	= 0.0
	Column Totals	(A) 0.0		(B) 0.0
	Prevalence Index	P/A = 0.0		Is the Prevalence Index \leq 3.0?
		B/A = 0.0		Yes No
Wetland vegetation	n criterion met?	Yes 🖌 No 🗌		

Definitions of Vegetation Strata

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

Cover	Ranges
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

	-	e to the				dicator o	r co	nfirm the abse	nce of indicators)
Horizon/	Matrix			edox Fea			2		_
Depth	Color (moist)	%	Color (moist)	%	Type ¹	Locatio	n²	Texture	Remarks
A/0-10 Bg/10-12	10YR 2/1 10YR 4/2	5	10YR 5/6					fsl fsl	
Dg/10-12	1011(4/2	5	1011(3/0					131	
					<u> </u>				
					<u> </u>				
	· · · · ·		M=Reduced Matri	x, MS=N	lasked San	d Grains	T		Lining, M=Matrix
	ndicators (Check	all that					Inc	_	oblematic Hydric Soils
Histosol			Polyv	alue Be	low Surfa	ce (S8)		2 cm Muck (
Histic Ep	oipedon (A2)		Thin	Dark Su	rface (S9)			5 cm Mucky	Peat or Peat (S3)
Black Hi	stic (A3)		Loam	ny Muck	y Mineral	(F1)		Dark Surface	e (S7)
Hydroge	en Sulfide (A4)		Loam	iy Gleye	ed Matrix	(F2)		Polyvalue Be	elow Surface (S8)
Stratifie	d Layers (A5)		Deple	eted Ma	atrix (F3)			Thin Dark Su	rface (S9)
Deplete	d Below Dark Su	rface (A	11) 🖌 Redo	x Dark S	Surface (F	7)		Iron-Mangar	nese Masses (F12)
Thick Da	ark Surface (A12)		Deple	eted Da	rk Surface	e (F8)		Mesic Spodi	c (A17)
Sandy N	lucky Mineral (S	1)						Red Parent N	Material (F21)
Sandy G	leyed Matrix (S4)						Very Shallow	v Dark Surface (TF12)
Sandy R	edox (S5)								de Explanation in
Stripped	l Matrix (S6)							Remarks)	
Dark Su	rface (S7)								
Restrictive La	ayer (if observed	l) Ty	pe:			De	epth	(inches):	
Remarks:									
Hydric Soils	criterion met?		Yes 🖌	No 🗌					



REV.	REVISIONS				
、∟ ♥・	DATE	DESCRIPTION			
	I				
PROJEC	CT NO. 2	24–100			
DESIGN	ED BY	SMB			
REVIEW	ED BY	MAL			
		03/29/24			
CAD FII	LE E	3UELL_176 Podunkw/Drainage.dwg			
		GRAPHIC SCALE			
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0	30				
0		60 90 120 180			
0		60 90 120 180 1 inch = 60 feet			
0		60 90 120 180			
		60 90 120 180 1 inch = 60 feet			
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	PER	60 90 120 180 1 inch = 60 feet PREPARED BY: LAND SURVEY INC. 710 MAIN STREET,			
	PER 7	60 90 120 180 1 inch = 60 feet PREPARED BY: LAND SURVEY INC. 710 MAIN STREET, IORTH OXFORD, MA 01537			
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TAU		60 90 120 180 1 inch = 60 feet PREPARED BY: LAND SURVEY INC. 10 MAIN STREET, 10RTH OXFORD, MA 01537 EL. 508-987-8713			
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TAU	PER 7 N T	60 90 120 180 1 inch = 60 feet PREPARED BY: LAND SURVEY INC. 10 MAIN STREET, 10RTH OXFORD, MA 01537 EL. 508-987-8713			
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TAU TAU P Stu	PER T ROP 17 Urbric PREPAR S J. & DUNK	60 90 120 180 1 inch = 60 feet PREPARED BY: LAND SURVEY INC. 10 MAIN STREET, 10 MAIN S			
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