



-TOWN OF LAKEVILLE MEETING POSTING & AGENDA

48-hr notice effective when time stamped

Notice of every meeting of a local public body must be filed and time-stamped with the Town Clerk's Office at least 48 hours prior to such meeting (excluding Saturdays, Sundays and legal holidays) and posted thereafter in accordance with the provisions of the Open Meeting Law, MGL 30A §18-22 (Ch. 28-2009). Such notice shall contain a listing of topics the Chair reasonably anticipates will be discussed at the meeting.

Name of Board or Committee:	Conservation Commission
Date & Time of Meeting:	<u>April 9, 2024 @ 7pm</u>
Location of Meeting:	Lakeville Police Station
_	323 Bedford St.
Clerk/Board Member posting notice:	Lori Canedy
Cancelled/Postponed to:	(circle one)
Clerk/Board Member Cancelling/Postponing	:

AGENDA(REVISED)

Please ask if anyone is recording the meeting and announce that LakeCam is taping (if present).

- 1. Member resignation review letter of resignation.
- 2. New Board Members
- 3. <u>310 Kenneth Welch Drive</u> Notice of Intent (SE192-891) Goddard Consulting increase parking and wetland replication. Continued from 3/26/24 meeting.
- 9 Cross Street Notice of Intent (SE192-902) Zenith Consulting Engineers new single-family dwelling, septic system, well, grading, lot clearing, utilities, driveway crossing, and replication area. Continued from 3/26/24 meeting.
- <u>2 Bedford Street</u> Notice of Intent (SE192-910) Zenith Consulting Engineers new contractor bay facility. Continued from 3/26/24 meeting.
- 6. Off Freetown Street Abbreviated Notice of Resource Area Delineation (SE192-915) Outback Engineering. Review of delineated resource areas. Continued from 3/26/24 meeting.
- 7. <u>22 Stetson St.</u> Notice of Intent (SE192-916) Zenith Consulting Engineers Construction of detached garage with grading, driveway, utilities, and tree removal. Continued from 3/26/24 meeting.
- 8. <u>3 Mona St</u> Request for Determination of Applicability Installation of aluminum dock with lift. Continued from 3/26/24 meeting.
- Gillian Drive Request for Certificate of Compliance (SE192-655) Zenith Consulting Engineers roadway and drainage system.

Est. 2003



RI: 401.741.3263 MA: 508.997.0268 www.ecosystem-solutions.com

March 16, 2024

Project no. W23-1918

Robert Bouchard, Chair Conservation Commission 346 Bedford Street Lakeville, MA 02347

RE: ANRAD Peer Review Report
9 Cross Street / Parcel no. Map 021, Block 003, Lot 012-02
Lakeville, Massachusetts
DEP File no. 192-0902

Chair Bouchard:

Ecosystem Solutions, Inc. has completed a peer review of the submitted Notice of Intent (NOI) for the above-referenced property (Property). The site investigation portion of the peer review was conducted by a professional wetland scientist on February 9, 2024, in minimal to no-snow conditions. The site investigation was performed in accordance with the Massachusetts Wetlands Protection Act (M.G.L. 131, §40) (Act), and the Massachusetts Wetlands Regulations (310CMR 10.00).

The following documents were reviewed and actions conducted:

- WPA Form 3- Notice of Intent application, Jamie Bissonnette, P.E. of Zenith Consulting Engineers, LLC., representative. Application was signed by the applicant on 08/07/23. The NOI includes a "Performance Standard and Alternatives Analysis" letter dated August 16, 2023.
- Site plan titled "Subsurface Sewage Disposal System New Construction" consisting of two (2) sheets by Zenith Consulting Engineers, LLC, dated July 5, 2023 and stamped by Richard W. Reid, Jr., PLS #46861 and Jamie L. Bissonnette, P.E. #47625. Sheet 2 is stamped by Jamie Bissonnette only.
- Visited the site on February 9, 2024.

General Site Description

The site is the located on the west side of Cross Street, approximately 1,500 feet north of the intersection of Cross St. and Taunton St. According to the Lakeville CAI property card, it is 12.55 acres in size. It is undeveloped, and completely forested. In researching the subdivision history of the parcel, I found that the

Lakeville Parcel data obtained from MassGIS show that it was subdivided sometime between 2014 and 2019, changing from Parcel ID 021-003-012 to Parcel ID 021-003-012-2.

On-site topography is fairly level. NRCS mapping depicts soils on-site consisting of mostly poorly to very poorly drained soils found in outwash plains of sandy-textured parent material. These include the Scarboro muck, coastal lowland and Massasoit-Mashpee complex soil map units. Upland areas are mapped as moderately well-drained Deerfield loamy fine sand, also of sandy parent material and found on glacial outwash plains. According to the soil mapping, there are no well-drained soils on-site.

Vegetation on-site is dominated by white pine (*Pinus strobus*), red maple (*Acer rubrum*), swamp fetterbush (*Eubotrys racemosus*), sweet pepperbush (*Clethra alnifolia*), round-leaved greenbrier (*Smilax rotundifolia*), and tree clubmoss (*Lycopodium obscurum*). Although white pine is listed as an upland plant (facultative upland- present in uplands 67%-99% of the time and wetlands 1%-33% of the time) was present and even a dominant tree in the Bordering Vegetated Wetland (BVW). This is something I've found to be common in southeast Massachusetts where glacial outwash plains with sandy parent material are present.

On-Site Flagging

I reviewed the following on-site flags:

- WF 2-7 thru WF 2-18
- WF 3-1 thru WF 3-24
- WF 4-2, and 4-5 thru 4-29

Most flags on-site are accurately placed. However, some flags on the proposed house-side of the wetland crossing were determined to be inaccurate. As a result, ESI placed their own flags in the field and created a red-lined sketch of the approximate flag revision locations for ZCE to consider. The newly placed flags are as follows:

- 3-4R, to replace flag 3-4.
- 3-10A, B, and C. I recommend connecting flag 3-10 to new flags 3-10A thru C, and reconnecting to flag 3-11.
- 3-11A. Connect 3-11 to new flag 3-11A. Flag 3-11A will connect to flag 3-12R1 below.
- 3-12R1 and 3-12R2. These flags will replace flag 3-12, with 3-12R2 connecting back to flag 3-13.

Proposed Project

This exercise reviews a driveway crossing to a single-family dwelling, which will be located on the west side of the "3" series wetland flags. In all, construction will include a 4-bedroom house with attached garage, driveway, septic system, well, recreational lawn, associated grading, and wetland replication area. According to the site plan, the crossing will fill 4,894 square feet of BVW. The wetland replication area will be 4,900 square feet in size. However, I believe that will the wetland flag revisions, the BVW fill will be larger than currently depicted.





Picture 1. Typical BVW interior. Looking west along a survey cut-line from Cross Street. The BVW exhibited isolated pockets of standing water. However, they were small, shallow, and unlikely to hold water for 2 consecutive months in the spring and/or summer. Therefore, I believe the chance of them qualifying as vernal pools is small. Vegetation in the BVW was thick and topography flat.

The proposed crossing will have three (3) twelve (12") inch ADS pipes running under the driveway, which will hydraulically connect the two sides of the BVW. No retaining walls are proposed on either side of the driveway crossing. Instead, the driveway is proposed at 12' in width with 4' wide gravel shoulders. The driveway will be paved once construction is completed.

The wetland replication area is proposed in an 'alcove' of the wetland line on the north side of the house.

Comments on Design

First, MassDEP made their own comments when issuing the file number, which is as follows:

1) Technical Comments

Per 310 CMR 10.53(3), the Commission shall consider the following factors in determining whether to exercise its discretion to approve the limited project: the magnitude of the alteration and the significance of the project site to the interests of the Act, the availability of reasonable alternatives to the proposed activity, the extent to which adverse impacts are minimized, and the extent to which mitigation measures, including replication or restoration, are provided to contribute to the protection of the interests of the Act. Per 310 CMR 10.53(3)(e), "Reasonable alternative means of access may include any previously or currently available alternatives such as realignment or reconfiguration of the project to conform to 310 CMR 10.54 to 310 CMR 10.58 or to otherwise minimize adverse impacts on resource areas. The issuing authority may require the applicant to utilize access over an adjacent parcel of land currently or formerly owned by the applicant, or in which the applicant has, or can obtain, an ownership interest." The Commission may wish to include a continuing condition in the Order and on the Certificate of Compliance to prohibit further activities under 310 CMR 10.53(3)(e). DEP recommends that the Applicant and the Conservation

Commission review the Department's Inland Wetlands Replacement Guidance: https://www.mass.gov/doc/massachusetts-inland-wetland-replacement-guidelines/download

The NOI included a Performance Standard and Alternatives Analysis section, where the Applicant stated that there was no other means of ingress or egress to the house site.

In regards to adding a continuing condition to "prohibit further activities" under 10.53(3)(e), it is my opinion that it relates to activities associated with BVW fill. It is also my opinion that 314 CMR 9.00 (Water Quality Certification Regulations) is applicable due to the fairly recent subdivision of land, specifically §9.04(3) is applicable:

(3) Real Estate Subdivision - Any discharge of dredged or fill material associated with the creation of a real estate subdivision, unless there is a valid, unexpired Final Order of Conditions, followed by a Certificate of Compliance, and a *recorded deed restriction* [italics added for emphasis] providing notice to subsequent purchasers limiting the amount of fill for the single and complete project to less than 5000 square feet cumulatively of bordering and/or isolated vegetated wetlands and land under water and the discharge is not to an Outstanding Resource Water. Real estate subdivisions include divisions where approval is required and where approval is not required under the Subdivision Control Law, M.G.L. c. 41, §§ 81K through 81GG. Discharges of dredged or fill material to create the real estate subdivision include but are not limited to discharges resulting from the construction of roads, drainage, sidewalks, sewer systems, buildings, septic systems, wells, and accessory structures.

I recommend that the Applicant provide proof that the other lots that were subdivided since about 2014 have not also filled in wetland that cumulatively exceeds 5,000 square feet of fill of BVW via an Order of Conditions, and provide an affidavit that there has been no illegal filling of BVW since the 1983 revisions to 310 CMR 10.00 when the "5,000 square foot rule" for BVW fill went into place. If it is found that there are other permitted BVW fill projects, or illegal fill found that exceed 5,000 square feet for the subdivided lots, I do not recommend approving the current NOI. However, if the answer is no, and total fill remains under 5,000 square feet, then I recommend that the Commission require a deed restriction in the Order of Conditions. A recommended Special Conditions may be worded as follows:

Applicant shall record a restriction with the deed for the following parcels: Parcel ID 021-003-012, Parcel ID 021-003-012-1 and Parcel ID 021-003-012-2, that a total of ______ [fill in the blank] square feet of fill to Bordering Vegetated Wetlands was permitted under DEP file no. SE 192-0902. Wetland fill shall be limited to 5,000 square feet, in-perpetuity, for these parcels of land. Applicant shall provide proof of recording of the restriction.

The Commission may add to the Special Condition a timeline by which the Applicant must record the restriction. For example, it must be done before the start of construction, within the 3 year period in which the Order is valid, or before building occupancy is permitted.

2) I do not recommend reducing the width of the crossing by installing retaining walls. Not only is it more dangerous for vehicular traffic, but it is also counterproductive to smaller animal (e.g. turtles)



movement. Instead, I would recommend that the shoulder be grassed or smoothed and without riprap, which also effectively restricts movement. One could propose a wildlife culvert, but I personally find that they have limited use.

- 3) The wetland replication notes and/or Special Conditions should require that the work be overseen by a qualified wetland scientist. The scientist should be subject to approval by the Commission and/or Agent. That is, if the Commission and/or Agent is not available for oversight.
- 4) Also in regard to the wetland replication, I recommend changing sequence note no. 4 to: *The area will be graded to a depth compatible with long-term wetland hydrology, a bottom-inspection to be conducted by the Commission, Agent, or approved professional before topsoil is spread and plants installed.* I never recommend just going with a predetermined elevation. The elevation must be confirmed via hydric soil identification in order to be truly effective.
- 5) I recommend adding a note or amending wetland replication note 7 to include a caveat that soils must be inspected by the Commission, Agent, or approved professional to assure that they have adequate organic content before installation. If not, they must be supplemented with compost mulch until they reach at least 18% organic carbon content.
- 6) I recommend adding a note or amending wetland replication note 7 to specify that organic soils shall be at least twelve (12") inches in depth.
- 7) Swamp fetterbush was very common on-site. Therefore, if the Applicant wishes to substitute or supplement this species in the planting list, I would not object. I would also recommend inkberry (*Ilex glabra*), which does well in sandy soils.
- 8) 310 CMR 10.00 has no minimum threshold for requiring a wildlife habitat evaluation for fill of BVW. I found no significant habitat features in the BVW while I was on-site, but this is something that is done at the discretion of the Commission. Therefore, you may require one if you so wish.

Otherwise, it is my opinion that the proposed project, including the driveway crossing, wetland replication area (per comments above), and house construction in the buffer zone meets performance standards found at 310 CMR 10.00, pending review by NHESP (see below).

Other

A search of other critical resources within the project area was conducted using GIS software and data available through various governmental agencies (FEMA, NHESP, DEP and others). The results of our search are listed in Table 1 below:



Table 1. Critical Areas

Mapped Resource On or Within Proximity to Site	Yes	No
Area of Critical Environmental Concern		✓
NHESP Certified Vernal Pool		✓
NHESP Potential Vernal Pool		✓
NHESP Estimated Habitat of Rare Wildlife	√1	
NHESP Priority Habitat of Rare species	√2	
Outstanding Resource Waters		✓
FEMA Flood Zones		✓
Surface Water Protection Area		✓
Interim Wellhead Protection Area		✓
Zone II Wellhead Protection Area		✓
Mass DCR Designated Coldwater Fisheries		✓

- 1- Site is located within Estimated Habitats of Rare & Endangered Species (EH 474). Therefore, a copy of the NOI was required to be sent to the Natural Heritage and Endangered Species program. NHESP has 30 days in which to respond. The Commission may not close the public hearing until NHESP has responded to the NOI.
- 2- Site is located within Priority Habitats of Rare & Endangered Species (PH 592).

Should you have any questions regarding this letter, please do not hesitate to call at (401) 741-3263 or by using the other contact information above.

Sincerely,

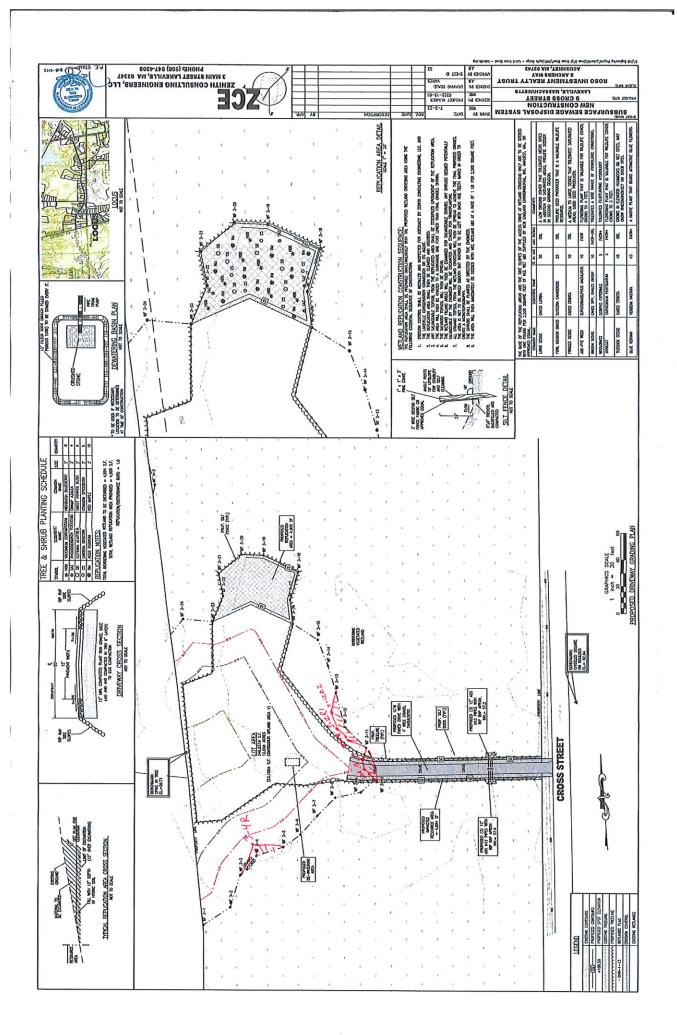
Ecosystem Solutions, Inc.

Brandon B. Faneuf, M.S., Principal PWS, RPSS, CWB, CPESC

BF/bf

enclosures







Massachusetts Department of Environmental ProtectionBureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

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

Municipality

Important: 1 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





A. General Information											
1. Applicant:		MAR = 7 2024									
Gary & Catherine	· Jaspersohn										
First Name		servation Commission									
3 Mona Street	3011	Servation Commission									
Address											
Lakeville	MA	02347-2529									
City/Town	State	Zip Code									
617-800-5185	jaspersohn@gm	nail.com									
Phone Number	Email Address										
2. Property Owner (if different from Applicant	t):										
Jaspersohn Family Trust											
First Name	Last Name										
3 Mona Street											
Address											
Lakeville	MA	02347-2529									
City/Town	State	Zip Code									
617-800-5185 / 781-883-6843	jaspersohn@gm										
Phone Number	Email Address (if k	nown)									
Representative (if any)											
First Name	Last Name										
Company Name											
Address											
City/Town	State	Zip Code									
Phone Number	Email Address (if k	(nown)									
B. Project Description											
a. Project Location (use maps and plans)	to identify the location of the a	area subject to this request):									
3 Mona Street	Lakeville										
Street Address	City/Town										
41.80073	-70.95459										
Latitude (Decimal Degrees Format with 5 digits after		I Degrees Format with 5 digits after									
e.g. XX.XXXXX)	decimal e.gXX.X										
177-8 IDT		₹									
	M:00039 B:0001 L:002										
	Assessors' Map Number Assessors' Lot/Parcel Number										
b. Area Description (use additional paper, if necessary):											
Private, non-commercial, aluminum dock an	Private, non-commercial, aluminum dock anchored to existing concrete steps at water's edge of Long Pond										
c. Plan and/or Map Reference(s): (use	additional paper if necessary)										
Appendix B Simplified License Plan		03/08/2024									
Title		Date									
Appendix C Simplified License Plan		03/08/2024									

Date

Title

How to find Latitude and Longitude

and how to convert to decimal degrees



Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

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

Municipality

Project Description (cont.) B.

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

Registration and Licensing of a private, non-commercial, aluminum dock for docking and boating access to the navigable waters of Long Pond. The dock is a non-permanent structure that will be removed at the end of every boating season.

	do	ere will also be a non-permanent pontoon boat lift and jet ski lift adjacent to the ck. The dock will be attached via a cleat to existing concrete steps at the water's ge of Long Pond.
	fron	Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant in having to file a Notice of Intent for all or part of the described work (use additional paper, if sessary).
3.		If this application is a Request for Determination of Scope of Alternatives for work in the erfront Area, indicate the one classification below that best describes the project.
		Single family house on a lot recorded on or before 8/1/96
		Single family house on a lot recorded after 8/1/96
		Expansion of an existing structure on a lot recorded after 8/1/96
		Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
		New agriculture or aquaculture project
		Public project where funds were appropriated prior to 8/7/96
		Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
		Residential subdivision; institutional, industrial, or commercial project
		Municipal project
		District, county, state, or federal government project
		Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.
		Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification ove (use additional paper and/or attach appropriate documents, if necessary.)



Massachusetts Department of Environmental ProtectionBureau of Water Resources - Wetlands

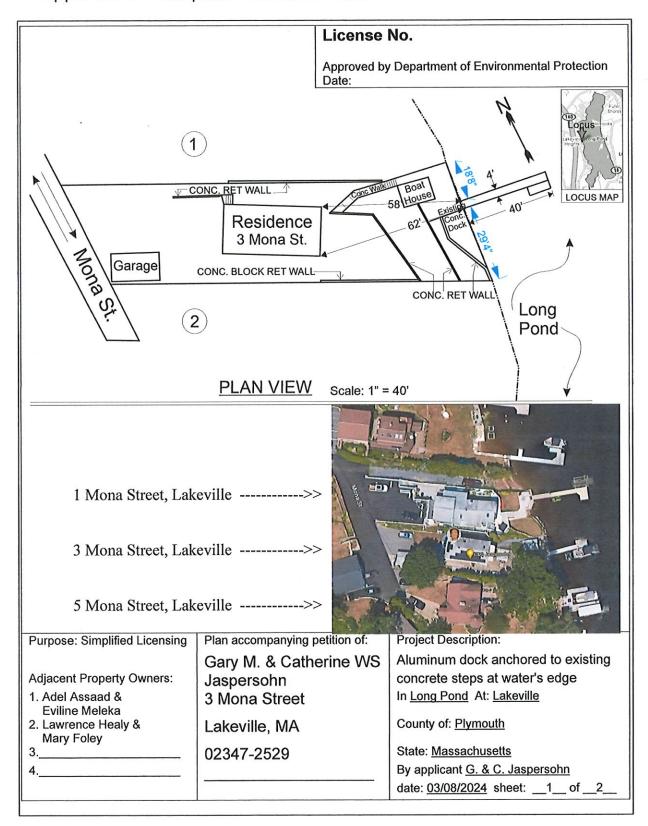
WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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C.	\mathbf{n}	ete	MINO	II	211	AM	0
U.		ele			au	OH	3

C.		Determinations
1.	l re	quest the Lakeville Conservation Commission make the following determination(s). Check any that apply:
		Conservation Commission a. whether the area depicted on plan(s) and/or map(s) referenced above is an area subject to
		jurisdiction of the Wetlands Protection Act.
		b. whether the boundaries of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.
		c. whether the Activities depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
		d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any municipal wetlands' ordinance or bylaw of:
		Name of Municipality
		e. whether the following scope of alternatives is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).
D.		Signatures and Submittal Requirements
anc	acc	y certify under the penalties of perjury that the foregoing Request for Determination of Applicability companying plans, documents, and supporting data are true and complete to the best of my dge.
Offi	ice v	r certify that the property owner, if different from the applicant, and the appropriate DEP Regional vere sent a complete copy of this Request (including all appropriate documentation) neously with the submittal of this Request to the Conservation Commission.
		by the applicant to send copies in a timely manner may result in dismissal of the Request for ination of Applicability.
Sig	natu	ires:
l al	so u	nderstand that notification of this Request will be placed in a local newspaper at my expense rdance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.
		ary M Jaspersohn 03/08/2024
	Sign	nature of Applicant Date
	Siar	nature of Representative (if any) Date
	0	

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Waterways Regulation Program Chapter 91 Simplified Waterways License Application

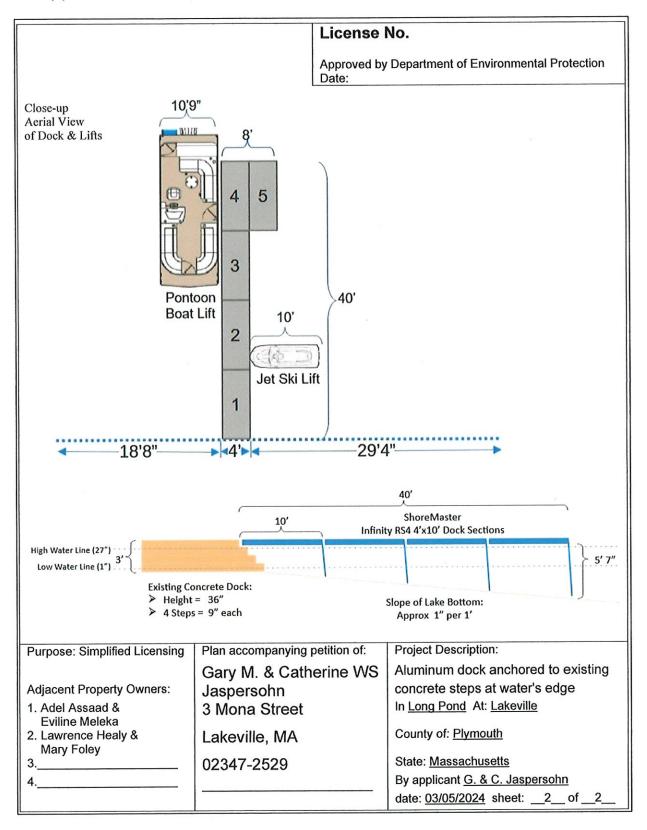
Appendix B: Simplified License Plan



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Waterways Regulation Program
Chapter 91 Simplified Waterways License Application

Appendix C: Simplified License Plan



PUBLIC NOTICE

DEPARTMENT OF ENVIRONMENTAL PROTECTION WATERWAYS REGULATION PROGRAM

Notice of Simplified License Application pursuant to M.G.L. Chapter 91 24-WW-PRE-0026-APP

NOTIFICATION DATE: March 28,2024

PERMITTEE: Gary M Jaspersohn

PROJECT SITE ADDRESS: 3 Mona Street, Lakeville, MA 02347,

Plymouth County, Massachusetts

Public notice is hereby given of the application for a Chapter 91 Simplified License by Gary M Jaspersohn to construct/maintain an existing private, non-commercial, aluminum dock with an adjacent pontoon boat lift and jet ski lift in the waters of Long Pond at 3 Mona Street, Lakeville, Plymouth County, Massachusetts 02347. In as much as the property is only 50' wide, a 25' minimum to the property line is not feasible as per 310 CMR 9.36(2).

The Department will consider all written comments on this Waterways application received by within 30 days of the "Notification Date". Failure of any aggrieved person or group of ten citizens or more to submit written comments to the Waterways Regulation Program will result in the waiver of any right to an adjudicatory hearing in accordance with 310 CMR 9.13(4)(c). The group of citizens must include at least five citizens who are residents of the municipality in which the proposed project is located.

Project plans for this Waterways application are on file for public viewing electronically, by request to dep.waterways@mass.gov. If you do not have access to email, please leave a voicemail at (617) 292-5929 and you will be contacted with information on alternative options.

It is recommended that public comments be filed electronically with dep.waterways@mass.gov when possible. Alternatively, comments may be mailed to the Waterways Regulation Program at: 1 Winter Street, 5th Floor, Boston, MA 02108.

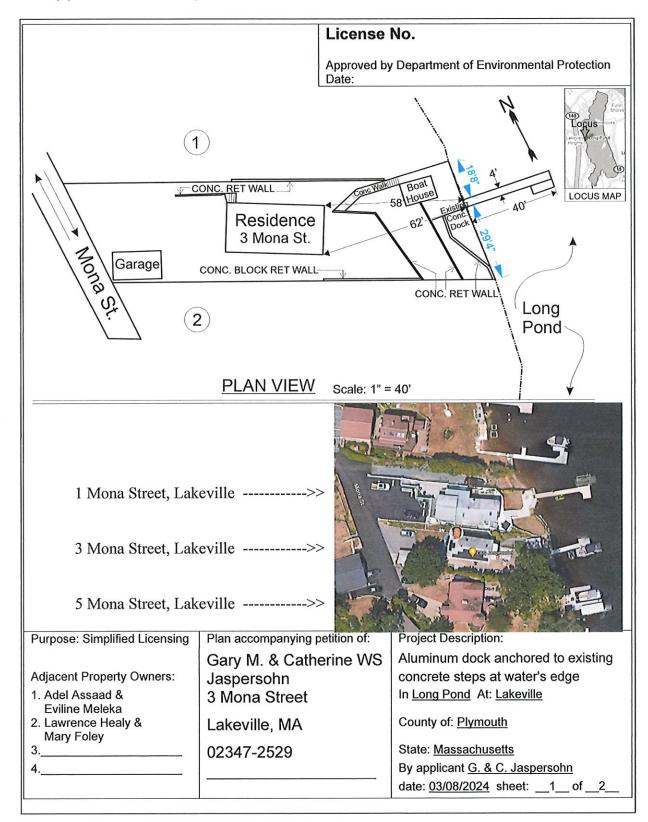
RECEIVED

MAR 26 2024

Conservation Commission

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Waterways Regulation Program Chapter 91 Simplified Waterways License Application

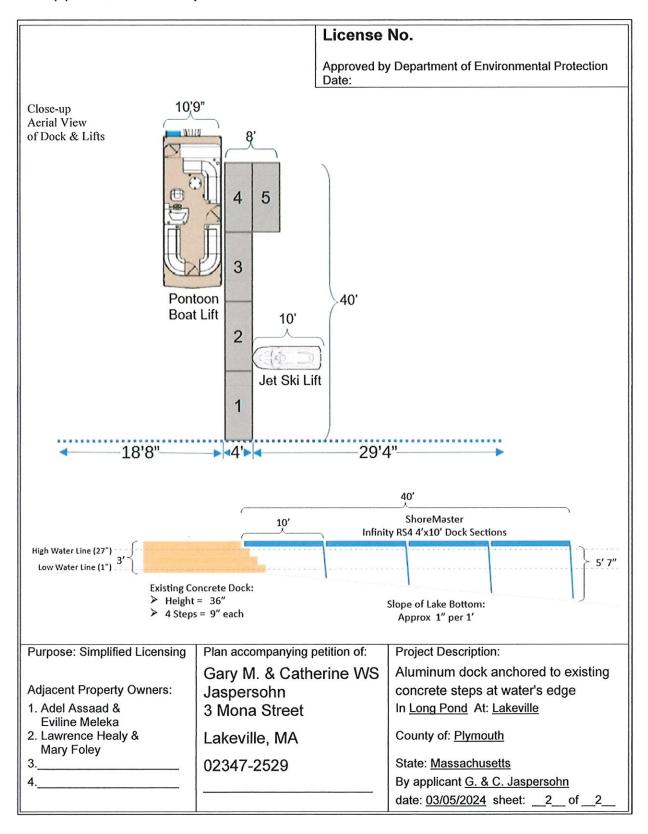
Appendix B: Simplified License Plan



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Waterways Regulation Program Chapter 91 Simplified Waterways License Application

Appendix C: Simplified License Plan





DIVISION OF FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581 p: (508) 389-6300 | f: (508) 389-7890 MASS.GOV/MASSWILDLIFE

April 01, 2024

Martin Schwalm 22 Stetson Street Lakeville, Massachusetts 02347

Lakeville Conservation Commission Town Hall 346 Bedford Street Lakeville, MA 02347

RE: Applicant:

Martin Schwalm

Project Location:

22 Stetson Street

Project Description:

Detached Garage & Driveway, Porch, Deck

DEP Wetlands File No.: 192-0916
NHESP File No.: 24-17241
Heritage Hub Form ID: RC-84269

Dear Commissioners & Applicant:

The Natural Heritage & Endangered Species Program of the Massachusetts Division of Fisheries & Wildlife (the "Division") received a Notice of Intent with site plans (dated 2/26/2024) in compliance with the rare wildlife species section of the Massachusetts Wetlands Protection Act Regulations (310 CMR 10.59). The Division also received the MESA Review Checklist and supporting documentation for review pursuant to the MA Endangered Species Act Regulations (321 CMR 10.18).

WETLANDS PROTECTION ACT (WPA)

Based on a review of the information that was provided and the information that is currently contained in our database, the Division has determined that this project, as currently proposed, will not adversely affect the actual Resource Area Habitat of state-protected rare wildlife species. Therefore, it is our opinion that this project meets the state-listed species performance standard for the issuance of an Order of Conditions.

Please note that this determination addresses only the matter of rare wildlife habitat and does not pertain to other wildlife habitat issues that may be pertinent to the proposed project.

MASSACHUSETTS ENDANGERED SPECIES ACT (MESA)

Based on a review of the information that was provided and the information that is currently contained in our database, the Division has determined that this project, as currently proposed, will not result in a prohibited Take of state-listed rare species. This determination is a final decision of the Division of Fisheries and Wildlife pursuant to 321 CMR 10.18. Any changes to the proposed project or any additional work beyond that shown on the site

NHESP No.

plans may require an additional filing with the Division pursuant to the MESA. This project may be subject to further review if no physical work is commenced within five years from the date of issuance of this determination, or if there is a change to the project.

Please note that this determination addresses only the matter of state-listed species and their habitats. If you have any questions regarding this letter please contact Emily Holt, Endangered Species Review Assistant, at Emily.Holt@mass.gov, (508) 389-6385.

Sincerely,



Jesse Leddick **Assistant Director**

cc:



3 Main Street Lakeville, MA 02347 (508) 947-4208 - <u>www.zcellc.com</u>

➢ Civil Engineering
 ➢ Septic Design (Title 5)
 ➢ Septic Inspections (Title 5)
 ➢ Commercial and Industrial Site Plans
 ➢ Chapter 91 Permitting

March 28, 2024

Town of Lakeville 346 Bedford Street Lakeville, MA 02347

Attention: Conservation Commission

RE:

Request for Certificate of Compliance Gillians Drive Lakeville, MA (SE-192-0655) RECEIVED

MAR 28 2024

Conservation Commission

Dear Commission members:

We have inspected the above-referenced site and hereby certify that the roadway and drainage system have been constructed in general compliance with the Order of Conditions which you issued on February 17, 2012. On behalf of Donald Bissonnette, we request that you issue a Certificate of Compliance.

Should you have any questions regarding this request, please do not hesitate to contact the office at 508-947-4208 or email RForbes@zcellc.com.

Sincerely,

Zenith Consulting Engineers, LLC

Robert M. Forbes, PE Senior Engineer



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 8A – Request for Certificate of Compliance Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

192-0655 Provided by DEP

	A.	Project Information		
Important: When filling out	1.	This request is being made by:		
forms on the		Donald Bissonnette		
computer, use		Name		
only the tab		1 Holly Hill Lane		
key to move your cursor -		Mailing Address		
do not use the		Lakeville	MA	02347
return key.		City/Town	State	Zip Code
		508-269-0976		
M Iss		Phone Number		
	2.	This request is in reference to work regu	ulated by a final Order of Conditio	ns issued to:
160.00		Donald Bissonnette		
		Applicant		
		02/17/2012	SE-192	
		Dated	DEP File	Number
Upon completion of the work	3.	The project site is located at:		
authorized in		Gillian Drive	Lakevill	
an Order of Conditions, the		Street Address	City/Town	
property owner		016-005		007-02, 007-03,007-04,
must request a		Assessors Map/Plat Number	007-05,	007-06
Certificate of Compliance from the issuing	4.	The final Order of Conditions was recor	ded at the Registry of Deeds for:	
authority stating		Property Owner (if different)		
that the work or		Plymouth	41129	253
portion of the work has been satisfactorily		County	Book	Page
completed.		Certificate (if registered land)		
	5.	This request is for certification that (che	ck one):	
			erenced Order of Conditions has b	een satisfactorily completed.
		the following portions of the work rebeen satisfactorily completed (use	egulated by the above-referenced additional paper if necessary).	Order of Conditions have

the above-referenced Order of Conditions has lapsed and is therefore no longer valid, and the

work regulated by it was never started.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

192-0655

WPA Form 8A - Request for Certificate of Compliance

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

Provided by DEP

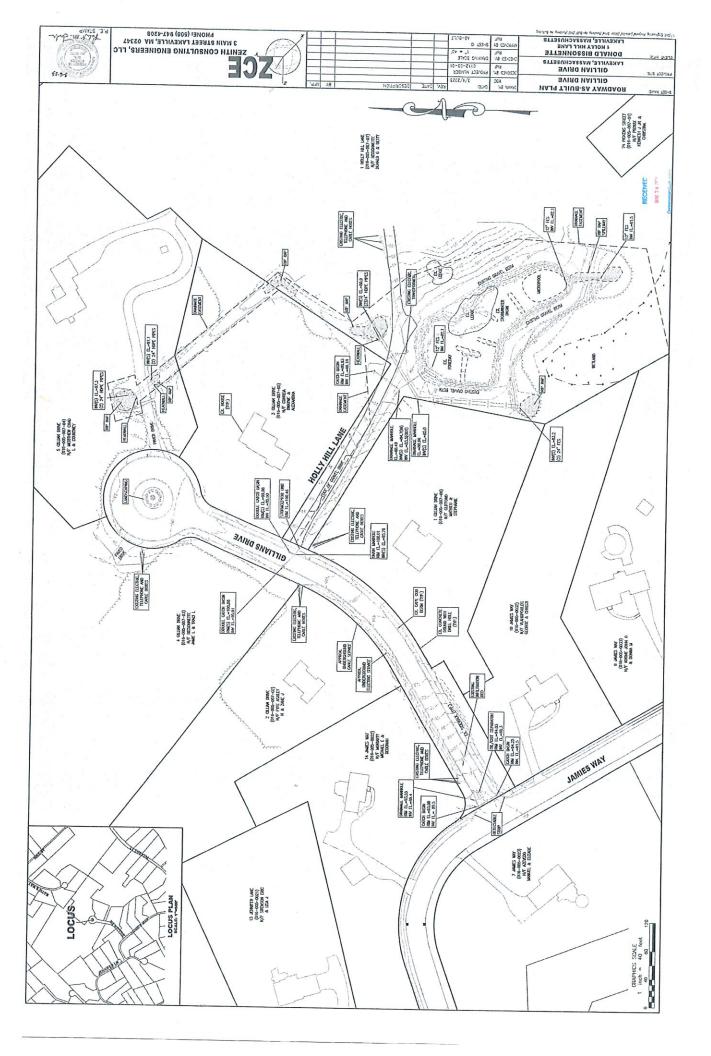
DEP File Number:

nt	r	0	C	3	C	(n	0	i	1	a	n	'n)	C	f	1	lı	Ċ	ci	9	i	O	ľ	P	A
	1	0	C	3	C	(n	O		11	ĉ	n	'n)	C	Ī	1	П	C	CI	9(K	0	ľ	۲	μ

6.	Did the Order of an approval of architect, or lan	of Conditions for this project, or the portion of the project subject to this request, contain any plans stamped by a registered professional engineer, architect, landscape and surveyor?
	⊠ Yes	If yes, attach a written statement by such a professional certifying substantial compliance with the plans and describing what deviation, if any, exists from the plans approved in the Order.
	□ No	

B. Submittal Requirements

Requests for Certificates of Compliance should be directed to the issuing authority that issued the final Order of Conditions (OOC). If the project received an OOC from the Conservation Commission, submit this request to that Commission. If the project was issued a Superseding Order of Conditions or was the subject of an Adjudicatory Hearing Final Decision, submit this request to the appropriate DEP Regional Office (see http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-officefor-your-city-or-town.html).





RECEIVED

MAR 2 9 2024

March 25, 2024

Lakeville Conservation Commission 241 Main Street Lakeville, MA 02347 Conservation Commission

Re: Stream Determination – Supplemental Information for ANRAD (DEP File #192-0915) Off Freetown Street Lakeville, MA 02347 Map/Parcel: 34-2-1, 34-2-2, 34-2-11, 34-2-12, 35-1-2A, 35-1-4

Dear Lakeville Conservation Commission

Goddard Consulting, LLC is pleased to submit this Stream Determination as supplemental information for the Abbreviated Notice of Resource Area Delineation (ANRAD)(DEP File #192-0195) submitted on behalf of the applicant, Simonds Hills, LLC, for the properties located at Off Freetown Street Lakeville, MA 02347 (Map/Parcel: 34-2-1, 34-2-2, 34-2-11, 34-2-12, 35-1-2A, 35-1-4). This Stream Determination will be used to answer questions raised by Massachusetts DEP and the Lakeville Conservation Commission regarding the intermittent status of portion of Cedar Swamp River and an unnamed mapped intermittent stream on-site.

Attachments:

StreamStats Report – Cedar Swamp River, accessed on 3/25/2024 StreamStats Report – Unnamed Intermittent Stream, accessed on 3/25/2024

Existing Conditions

The site consists of six parcels totaling approximately 186.6 acres (8,039,420 square feet). The site is bordered by Freetown Street to the west, and Route 140 to the east. The site is primarily wooded, with several large Bordering Vegetated Wetland (BVW) systems (44.1 acres), two intermittent streams. The larger of the two streams is Cedar Swamp River, which is located adjacent to Freetown Street. The unnamed mapped intermittent stream exists in the southeastern portion of the site adjacent to Route 140.

Cedar Swamp River drains from a large Bordering Vegetated Wetland (BVW) adjacent to Freetown Street between properties addressed as 51 Freetown Street and 59 Freetown Street. Water flows northwest into a culvert under Freetown Street and off-site. Based on the most recent USGS map, the portion of Cedar Swamp River on-site is mapped as intermittent. Cedar Swamp River is mapped as perennial +/-1.6 miles downstream of the site.

The unnamed mapped intermittent stream drains from a BVW system adjacent to Route 140 in the Southeastern portion of the site. Water flows southeast into a culver under Route 140, off-site. Based on the most recent USGS map, the portion of the unnamed intermittent stream on-site is mapped as intermittent. This stream is never mapped perennial.



Massachusetts DEP SERO commented the following regarding the stream on-site: "The most current USGS map (https://apps.nationalmap.gov/viewer/) shows a number of intermittent streams located on the subject property. Has the stream status of each of these streams been assessed per 310 CMR 10.58(2)(a)1.b. or c. to determine if they are perennial?"

310 CMR 10.58(2)(a)(1)(b) states: "A river or stream shown as intermittent or not shown on the current USGS map or more recent map provided by the Department, that has a watershed size greater than or equal to one square mile, is perennial." Cedar Swamp River has a drainage area of 0.44 square miles which is less then 1 square mile (reference attached StreamStats – Cedar Swamp River). Additionally, the unnamed intermittent stream has a drainage area of 0.0762 square miles, which is less then 1 square mile (reference attached StreamStats – Unnamed Intermittent Stream).

310 CMR 10.58(2)(a)(1)(c)(i) states "A stream shown as intermittent or not shown on the current USGS map or more recent map provided by the Department, that has a watershed size less than one square mile, is intermittent unless:

i. The stream has a watershed size of at least 1/2 (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 issuing authority shall find such streams to be perennial;"

Cedar Swamp River is mapped as intermittent on the USGS maps. Using the StreamStats method, Cedar Swamp River has a predicted flow rate of 0.011ft^3/s at the 99% flow duration, which is greater than 0.01ft^3/s. However, Cedar Swamp River has a drainage area 0.44 square miles which is less than a ½ (0.50) square mile. According to 310 CMR 10.58(2)(a)(1)(c)(i) a mapped intermittent stream has to have a predicted flow rate at the 99% flow duration of equal to or greater than 0.01 and drainage area of at least a ½ (0.50) square miles. This confirms Cedar Swamp Rivers intermittent status on-site (reference attached StreamStats — Cedar Swamp River). Using the StreamStats method, the unnamed intermittent stream has a predicted flow rate of 0.0004111ft^3/s at the 99%flow duration and a drainage area of 0.0762 square miles. The unnamed intermittent stream does not have predicted flow rate at the 99% flow duration of equal to or greater than 0.01 or drainage area of at least a ½ (0.50) square miles confirming its intermittent status (reference attached StreamStats — Unnamed Intermittent Stream).



Conclusion

It is the professional opinion of Goddard Consulting that the streams mapped on-site on the mot recent USGS map are intermittent based on the methods provided in 310 CMR 10.58(2)(a)1.b. or c.

Please feel free to contact us if you have any questions.

Sincerely,

Goddard Consulting, LLC

Tom Schutz, WPIT, WSA

Wetland Scientist

Cc:

MassDEP Southeast Regional Office, Wetlands Division. 20 Riverside Drive, Lakeville, MA 02347

Simonds Hills, LLC, 32 Norfolk Avenue, South Easton, MA 02375

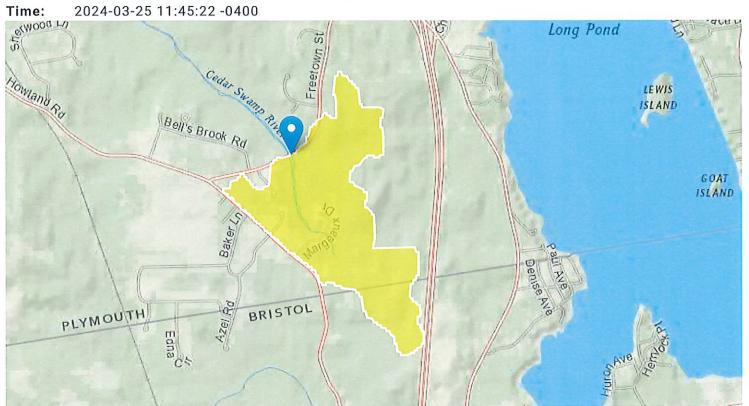
StreamStats Report - Cedar Swamp River

Region ID: MA

Workspace ID: MA20240325154501261000

Clicked Point (Latitude, Longitude): 41.79470, -70.97335

2024-03-25 11:45:22 -0400



Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value Unit	
BSLDEM10M	Mean basin slope computed from 10 m DEM	4.877 percen	t
BSLDEM250	Mean basin slope computed from 1:250K DEM	1.203 percen	t
DRFTPERSTR	Area of stratified drift per unit of stream length	0.24 square mile	mile per
DRNAREA	Area that drains to a point on a stream	0.44 square	miles
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0 dimens	sionless

> Bankfull Statistics

Bankfull Statistics Parameters [Bankfull Statewide SIR2013 5155]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.44	square miles	0.6	329
BSLDEM10M	Mean Basin Slope from 10m DEM	4.877	percent	2.2	23.9

Bankfull Statistics Parameters [Appalachian Highlands D Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.44	square miles	0.07722	940.1535

Bankfull Statistics Parameters [New England P Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.44	square miles	3.799224	138.999861

Bankfull Statistics Parameters [USA Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.44	square miles	0.07722	59927.7393

Bankfull Statistics Disclaimers [Bankfull Statewide SIR2013 5155]

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

Bankfull Statistics Flow Report [Bankfull Statewide SIR2013 5155]

Statistic	Value	Unit
Bankfull Width	10.2	ft
Bankfull Depth	0.713	ft
Bankfull Area	7.15	ft^2
Bankfull Streamflow	14.9	ft^3/s

Bankfull Statistics Flow Report [Appalachian Highlands D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	10.8	ft

Statistic	Value	Unit
Bieger_D_channel_depth	0.886	ft
Bieger_D_channel_cross_sectional_area	9.67	ft^2

Bankfull Statistics Disclaimers [New England P Bieger 2015]

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

Bankfull Statistics Flow Report [New England P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	20.1	ft
Bieger_P_channel_depth	1.15	ft
Bieger_P_channel_cross_sectional_area	22.8	ft^2

Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	9.28	ft
Bieger_USA_channel_depth	1.01	ft
Bieger_USA_channel_cross_sectional_area	11	ft^2

Bankfull Statistics Flow Report [Area-Averaged]

Statistic	Value	Unit
Bankfull Width	10.2	ft
Bankfull Depth	0.713	ft
Bankfull Area	7.15	ft^2
Bankfull Streamflow	14.9	ft^3/s
Bieger_D_channel_width	10.8	ft
Bieger_D_channel_depth	0.886	ft
Bieger_D_channel_cross_sectional_area	9.67	ft^2
Bieger_P_channel_width	20.1	ft
Bieger_P_channel_depth	1.15	ft
Bieger_P_channel_cross_sectional_area	22.8	ft^2
Bieger_USA_channel_width	9.28	ft
Bieger_USA_channel_depth	1.01	ft

Statistic	Value	Unit
Bieger_USA_channel_cross_sectional_area	11	ft^2

Bankfull Statistics Citations

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

Bieger, Katrin; Rathjens, Hendrik; Allen, Peter M.; and Arnold, Jeffrey G.,2015, Development and Evaluation of Bankfull Hydraulic Geometry Relationships for the Physiographic Regions of the United States, Publications from USDA-ARS / UNL Faculty, 17p.

(https://digitalcommons.unl.edu/usdaarsfacpub/1515?

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> Flow-Duration Statistics

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

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.44	square miles	1.61	149
DRFTPERSTR	Stratified Drift per Stream Length	0.24	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1
BSLDEM250	Mean Basin Slope from 250K DEM	1.203	percent	0.32	24.6

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
50 Percent Duration	0.413	ft^3/s
60 Percent Duration	0.282	ft^3/s
70 Percent Duration	0.172	ft^3/s
75 Percent Duration	0.132	ft^3/s
80 Percent Duration	0.104	ft^3/s
85 Percent Duration	0.0705	ft^3/s
90 Percent Duration	0.0504	ft^3/s

Statistic	Value	Unit
95 Percent Duration	0.0253	ft^3/s
98 Percent Duration	0.0163	ft^3/s
99 Percent Duration	0.011	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/)

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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: 4.19.4

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1

StreamStats Report - Unnamed Intermittent Strea,

Region ID:

MA

Workspace ID:

MA20240325153846709000

Clicked Point (Latitude, Longitude):

41.79256, -70.95966

Time:

2024-03-25 11:39:09 -0400



Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BSLDEM10M	Mean basin slope computed from 10 m DEM	6.179	percent
BSLDEM250	Mean basin slope computed from 1:250K DEM	1.198	percent
DRFTPERSTR	Area of stratified drift per unit of stream length	0.00309	square mile per mile
DRNAREA	Area that drains to a point on a stream	0.0762	square miles
MAREGION	Region of Massachusetts 0 for Eastern 1 for Western	0	dimensionless

> Flow-Duration Statistics

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

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0762	square miles	1.61	149
DRFTPERSTR	Stratified Drift per Stream Length	0.00309	square mile per mile	0	1.29
MAREGION	Massachusetts Region	0	dimensionless	0	1
BSLDEM250	Mean Basin Slope from 250K DEM	1.198	percent	0.32	24.6

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
50 Percent Duration	0.0691	ft^3/s
60 Percent Duration	0.0387	ft^3/s
70 Percent Duration	0.0172	ft^3/s
75 Percent Duration	0.0118	ft^3/s
80 Percent Duration	0.0071	ft^3/s
85 Percent Duration	0.00435	ft^3/s
90 Percent Duration	0.00234	ft^3/s
95 Percent Duration	0.00107	ft^3/s
98 Percent Duration	0.000656	ft^3/s
99 Percent Duration	0.000411	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/)

> Bankfull Statistics

Bankfull Statistics Parameters [Bankfull Statewide SIR2013 5155]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0762	square miles	0.6	329
BSLDEM10M	Mean Basin Slope from 10m DEM	6.179	percent	2.2	23.9

Bankfull Statistics Parameters [Appalachian Highlands D Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0762	square miles	0.07722	940.1535

Bankfull Statistics Parameters [New England P Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0762	square miles	3.799224	138.999861

Bankfull Statistics Parameters [USA Bieger 2015]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.0762	square miles	0.07722	59927.7393

Bankfull Statistics Disclaimers [Bankfull Statewide SIR2013 5155]

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

Bankfull Statistics Flow Report [Bankfull Statewide SIR2013 5155]

Statistic	Value	Unit
Bankfull Width	5.33	ft
Bankfull Depth	0.444	ft
Bankfull Area	2.32	ft^2
Bankfull Streamflow	4.77	ft^3/s

Bankfull Statistics Disclaimers [Appalachian Highlands D Bieger 2015]

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

Bankfull Statistics Flow Report [Appalachian Highlands D Bieger 2015]

Statistic	Value	Unit
Bieger_D_channel_width	5.22	ft
Bieger_D_channel_depth	0.535	ft
Bieger_D_channel_cross_sectional_area	2.82	ft^2

Bankfull Statistics Disclaimers [New England P Bieger 2015]

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

Bankfull Statistics Flow Report [New England P Bieger 2015]

Statistic	Value	Unit
Bieger_P_channel_width	12.3	ft
Bieger_P_channel_depth	0.781	ft
Bieger_P_channel_cross_sectional_area	9.31	ft^2

Bankfull Statistics Disclaimers [USA Bieger 2015]

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

Bankfull Statistics Flow Report [USA Bieger 2015]

Statistic	Value	Unit
Bieger_USA_channel_width	5	ft
Bieger_USA_channel_depth	0.697	ft
Bieger_USA_channel_cross_sectional_area	4.26	ft^2

Bankfull Statistics Flow Report [Area-Averaged]

Statistic	Value	Unit
Bankfull Width	5.33	ft
Bankfull Depth	0.444	ft
Bankfull Area	2.32	ft^2
Bankfull Streamflow	4.77	ft^3/s
Bieger_D_channel_width	5.22	ft
Bieger_D_channel_depth	0.535	ft

Statistic	Value	Unit
Bieger_D_channel_cross_sectional_area	2.82	ft^2
Bieger_P_channel_width	12.3	ft
Bieger_P_channel_depth	0.781	ft
Bieger_P_channel_cross_sectional_area	9.31	ft^2
Bieger_USA_channel_width	5	ft
Bieger_USA_channel_depth	0.697	ft
Bieger_USA_channel_cross_sectional_area	4.26	ft^2

Bankfull Statistics Citations

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

Bieger, Katrin; Rathjens, Hendrik; Allen, Peter M.; and Arnold, Jeffrey G.,2015, Development and Evaluation of Bankfull Hydraulic Geometry Relationships for the Physiographic Regions of the United States, Publications from USDA-ARS / UNL Faculty, 17p.

(https://digitalcommons.unl.edu/usdaarsfacpub/1515?

utm_source=digitalcommons.unl.edu%2Fusdaarsfacpub%2F1515&utm_medium=PDF&utm_campaign:

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Application Version: 4.19.4

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1



WOOD FROG

* SPADEFOOT TOAD

BREEDING

Natural Heritage & Endangered Species Program Massachusetts Division of Fisheries and Wildlife Vernal Pool Field Observation Form (For use with Guidelines for Certification of Vernal Pool Habitat)

CVP2684

For office use only.

		•				
1. Pool location	on					Instructions
Town Laber	ille		County P	c-tn		FOR COMPLETE INFORMATION ABOUT CERTIFICATION, REFER TO GUIDELINES FOR CERTIFICATION OF VERNAL POOL HABITAT.
	to pool: Fr	cetus Spect tower freum Gest	, east al	seri	ES 7.5' X 7.5' ES 7.5' X 15'	PROVIDE ALL OF THE INFORMATION REQUESTED IN BOXES 1-6. IF MORE SPACE IS REQUIRED, ATTACH ADDITIONAL PAGES. INCLUDE ALL REQUIRED PHOTOGRAPHS AND DOCUMENTATION. SIGN THE FORM IN THE AREA PROVIDED ON THE REVERSE SIDE. INCOMPLETE OR UNSIGNED SUBMISSIONS WILL BE RETURNED. THE FOLLOWING INSTRUCTIONS REFER TO EACH OF THE NUMBERED BOXES.
Must sign and sign an				(USE ADDITIONAL PA	GES, IF NECESSARY.)	1. THE 7.5 X 7.5 SERIES HAS THE LEGEND "7.5 MINUTE SERIES" IN THE UPPER RIGHT HAND CORNER ALONG WITH THE QUADRANGLE NAME. THE 7.5 X 15 MINUTE SERIES IS SO LABELED IN THE UPPER RIGHT HAND CORNER AND HAS THE QUADRANGLE
Observation Last date pool obs	,	1.	e pool/species date species d		5/8/91 5/8/91	NAME IN THE LOWER RIGHT CORNER. WRITTEN DIRECTIONS MUST BE INCLUDED. 2 INDICATE THE FIRST AND LAST DATES THAT THE POOL OR ITS BIOLOGICAL COMPONENTS WERE OBSERVED.
3 A. Evidence	: obligat	e amphib	ians Indica	te date of obse	ervation.	3. PART A AND B ARE FOR CERTIFICA- TION BY OBLIGATE SPECIES. PART C IS
* = RARE SPECIES	COURTING ADULTS	SPERMATOPHORES	EGG MASSES	SALAMANDER LARVAE	TRANSFORMING JUVENILES	EITHER FOR ADDITIONAL INFORMATION (APPRECIATED) OR FOR CERTIFICATION BY
SPOTTED SALAMANDER			5/8/01			THE FACULTATIVE SPECIES. IF CERTIFYING BY
* BLUE-SPOTTED SALAMANDER			010141			OBLIGATE SPECIES, PROVIDE A PHOTOGRAPH OF THE POOL HOLDING WATER AND AT LEAST ONE PHOTOGRAPH (OR AUDIO TAPE FOR
* JEFFERSON SALAMANDER	- 1					CHORUSING) OF BREEDING ACTIVITY. FOR CERTIFICATION BY FACULTATIVE
* MARBLED SALAMANDER		t- yes				SPECIES, PROVIDE PHOTOGRAPHS OF THE POOL HOLDING WATER AND PHOTOGRAPHS
UNIDENTIFIED MOLE SALAMANDER	7-			297		(OR TAPES) OF THE FACULTATIVE SPECIES AS REQUIRED. ADDITIONALLY, PROVIDE A PHOTOGRAPH OF THE POOL WHEN DRY OR
ſ	BREEDING	MATED	EGG	FROG	TRANSFORMING	OTHERWISE PROVE THAT IT HAS NO FISH.

3 B. Evidence: fairy shrimp

* = RARE SPECIES	DATE OBSERVED	ACTIVITY OBSERVED		DATE OBSERVED	ACTIVITY OBSERVED
BREEDING SPRING PEEPERS			PAINTED TURTLES		
BREEDING GRAY TREEFROGS			SNAPPING TURTLES		
BREEDING GREEN FROGS			PREDACEOUS DIVING BEETLE LARVAE		
BREEDING LEOPARD FROGS			WATER SCORPIONS		
BREEDING PICKERAL FROGS			DRAGONFLY NYMPHS		
BREEDING AMERICAN TOADS			DAMSELFLY NYMPHS		
BREEDING FOWLER'S TOADS			DOBSONFLY LARVAE		
* BREEDING FOUR-TOED SALAMANDERS			WHIRLIGIG BEETLE LARVAE		
RED-SPOTTED NEWT (ADULTS)			CADDISFLY LARVAE		9
* SPOTTED TURTLES			LEECHES		
* WOOD TURTLES			FINGERNAIL (FRESHWATER) CLAMS		
* BLANDINGS TURTLES			AMPHIBIOUS AIR-BREATHING SNAILS		

FROG TADPOLES

TRANSFORMING JUVENILES

Optional information Although the following information is not required for certification, it is useful to NHESP to possibly better protect the vernal pool, its habitat and species. . Instructions (continued) 4. INDICATE THE PHOTOGRAPHS BEING It is strongly recommended that Landowner Permission be obtained prior to collecting Certification Documentation. Property owner SUBMITTED. LABEL, DATE, AND SIGN ALL PHOTOS. 5. MARK THE POOL CLEARLY ON ALL MAPS. THE POOL MUST BE CLEARLY DISTINGUISHED FROM Name OTHER WETLANDS AND BE RELOCATEABLE BY OTHERS. PROVIDE ANY MAPS THAT WOULD HELP SOMEONE UNFAMILIAR WITH THE AREA LOCATE THE Address VERNAL POOL IN THE FIELD. 6. THE FORM MUST BE SIGNED. UNSIGNED SUBMISSIONS WILL BE RETURNED WITHOUT FURTHER ACTION. OPTIONAL INFORMATION: PROPERTY OWNER. PROVIDE INFORMATION State ____ ZIP ABOUT PROPERTY OWNER(S), IF KNOWN. IT IS RECOMMENDED THAT YOU SEEK PROPERTY OWNER PERMISSION PRIOR TO CERTIFICATION ACTIVITIES. Rare wetland Y W WERE ANY RARE STATE-LISTED SPECIES OBSERVED RARE SPECIES. A PHOTOGRAPH IS NECESSARY USING THIS POOL? FOR DOCUMENTATION OF RARE SPECIES HABITAT. species DESCRIPTION. PROVIDE ANY INFORMATION IS A PHOTOGRAPH OF THE RARE SPECIES INCLUDED WITH THAT WILL DISTINGUISH THE POOL FROM OTHER WETLANDS (BOULDERS, DEBRIS, TREE SPECIES, Description of pool and surroundings MUST BE LABELED, 4. Photographs DIMENSIONS: APPROXIMATE LENGTH 15m APPROXIMATE WIDTH 16m DATED, AND SIGNED. POOL HOLDING WATER APPROXIMATE DEPTH 0.25 m OBLIGATE +/OR FACULTATIVE SPECIES DESCRIBE DISTINCTIVE FEATURES (ROADS, STRUCTURES, BOULDERS, ETC.) WHICH ARE DRY POOL (REQUIRED FOR EVIDENCE 3C) Associated with a larger Red Maple Swamp & Maps submitted intermillent stream compren, Forested campy 90% and continuous Sphagnum layer. USGS TOPOGRAPHIC MAP (REQUIRED) AND ONE OR MORE OF THE FOLLOWING: AERIAL PHOTOGRAPH DISTANCES/COMPASS DIRECTIONS PROFESSIONAL SURVEY ARE THERE OTHER DISTINCTIVE FEATURES ABOUT THIS POOL (VEGETATION TYPES, ABANDONED VEHICLES, FOOT TRAILS, ETC.) THAT WOULD HELP SOMEONE RECOGNIZE IT? LARGE SCALE TOPO between tock ortemps (relief tealures not OTHER OPTIONAL EXTRA INFORMATION adequately shown on topo map. SKETCH MAP OF AREA ASSESSOR'S MAP GPS LONGITUDE/LATITUDE COORDINATES NAL. 79704 W70, 9624 8 Observer information & signature SEND COMPLETED FORM AND SUPPORTING DOCUMENTATION TO: NH&ESP VERNAL POOL CERTIFICATION

o. Observer information &	signature
Name Brian Reid	
Address Po Box 121	
Town Aymorth	State MA ZIP 02362
Telephone	
e-mail	
I hereby certify under the pains and pe contained in this report is true and con	enalties of perjury that the information applete to the best of my knowledge.
Signature 790	Date 7/1/01

NH&ESP VERNAL POOL CERTIFICATION MA DIVISION OF FISHERIES & WILDLIFE ROUTE 135 WESTBOROUGH, MA 01581

All submissions and supporting documents will be retained by the Natural Heritage & Endangered Species Program. Information submitted on this form and other documents is part of the public record and is available to interested parties under the State Documents Request Law.





rathed Salamander egg masses
schy woods PHI-Laleville
8/01
2/ Carl
Brun Reid

Pernal Pool # (
abentle - Rocky woods
18/11

Bran Reid



* BLANDINGS TURTLES

Natural Heritage & Endangered Species Program Massachusetts Division of Fisheries and Wildlife Vernal Pool Field Observation Form (For use with Guidelines for Certification of Vernal Pool Habitat)

CVP2685

For office use only.

(1700)	. (ror use with on	laetines for Cert	yica	non oj verna	Pool Habitat)			
1. Pool location	on							Instructions	
Town Lake	Town Labertly County Physical Certification, refer to guidelines for CERTIFICATION OF VERNAL POOL HABITAT.								
USGS Quadrar			s 7.5' X 7.5' s 7.5' X 15'	PROVIDE	E ALL OF THE INFORMATION IN BOXES 1-6. IF MORE SPACE				
WRITTEN DIRECTIONS	то Роок:	ol is locate	y south	· (curt p	ath	INCLUDE ALI	, ATTACH ADDITIONAL PAGES REQUIRED PHOTOGRAPHS AND TION. SIGN THE FORM IN THE	
wholing &	00 m e	ust of Fr	shown on	AREA PROVI	DED ON THE REVERSE SIDE. OR UNSIGNED SUBMISSIONS				
ET TOPO MAP)		WILL BE RET	TURNED. LOWING INSTRUCTIONS REFER TO					
NFOR			EACH OF TH	E NUMBERED BOXES.					
MUST BE SUBMITTED MUST BE SUBMITTED ATTACA A			LEGEND "7.5	7.5 X 7.5 SERIES HAS THE 5 MINUTE SERIES" IN THE UPPER CORNER ALONG WITH THE					
				(L	SE ADDITIONAL PAG	ES, IF NECESSARY.)	QUADRANGLE SERIES IS SO	NAME. THE 7.5 X 15 MINUTE DEABLED IN THE UPPER RIGHT	
0 01	1 - 1						NAME IN THE	R AND HAS THE QUADRANGLE LOWER RIGHT CORNER.	
2. Observation	,	, First da	te pool/specie	es c	bserved _	5/8/01		T DIRECTIONS MUST BE INCLUDED. ATE THE FIRST AND LAST DATES	
Last date pool obs	erved 5/8	S/O Last	date species	ob	served _	5/8/QL	THAT THE PO	OOL OR ITS BIOLOGICAL S WERE OBSERVED.	
3 A. Evidence	: obligate	e amphib	ians Indic	ate	date of obse	rvation.		A AND B ARE FOR CERTIFICA-	
* = RARE SPECIES	COURTING ADULTS	SPERMATOPHORES	EGG MASSES		SALAMANDER LARVAE	TRANSFORMING JUVENILES	EITHER FOR (APPRECIATE	ADDITIONAL INFORMATION D) OR FOR CERTIFICATION BY	
SPOTTED SALAMANDER			5/8/01				OBLIGATE SP	TIVE SPECIES. IF CERTIFYING BY ECIES, PROVIDE A PHOTOGRAPH	
* BLUE-SPOTTED SALAMANDER							ONE PHOTOG	. HOLDING WATER AND AT LEAST RAPH (OR AUDIO TAPE FOR OF BREEDING ACTIVITY.	
* JEFFERSON SALAMANDER							FOR CER	TIFICATION BY FACULTATIVE DVIDE PHOTOGRAPHS OF THE	
* MARBLED SALAMANDER						-	POOL HOLDIN	G WATER AND PHOTOGRAPHS OF THE FACULTATIVE SPECIES AS	
UNIDENTIFIED MOLE SALAMANDER							PHOTOGRAPH	ADDITIONALLY, PROVIDE A OF THE POOL WHEN DRY OR	
	BREEDING CHORUS	MATED PAIRS	EGG MASSES		FROG TADPOLES	TRANSFORMING JUVENILES		ROVE THAT IT HAS NO FISH.	
WOOD FROG							3 B. E shrimp	vidence: fairy	
* SPADEFOOT TOAD							DATE OBSERVE		
3 C. Evidence	: facultat	tive orga	nisms _{Inc}	dica	e date of ob	servation.			
* = RARE SPECIES	DATE OBSERVED	ACTIVITY	OBSERVED				DATE OBSERVED	ACTIVITY OBSERVED	
BREEDING SPRING PEEPERS					PAINTE	TURTLES			
BREEDING GRAY TREEFROGS					SNAPPIN	G TURTLES			
BREEDING GREEN FROGS						OUS DIVING E LARVAE			
BREEDING LEOPARD FROGS					WATER	SCORPIONS			
BREEDING PICKERAL FROGS					DRAGONE	LY NYMPHS			
BREEDING AMERICAN TOADS					DAMSELF	LY NYMPHS			
BREEDING FOWLER'S TOADS					DOBSONE	LY LARVAE			
* BREEDING FOUR-TOED SALAMANDERS						IG BEETLE RVAE			
RED-SPOTTED NEWT (ADULTS)						DISFLY RVAE			
* SPOTTED TURTLES					LEE	CHES			
* WOOD TURTLES					FINGERNAIL	(FRESHWATER)			

AMPHIBIOUS AIR-BREATHING SNAILS

Instructions (continued)	Optional information	Although the following information is not required for certification, it is useful to NHESP to possibly better protect the vernal pool, its habitat and species.
A. INDICATE THE PHOTOGRAPHS BEING SUBMITTED. LABEL, DATE, AND SIGN ALL PHOTOS. 5. MARK THE POOL CLEARLY ON ALL MAPS. THE POOL MUST BE CLEARLY DISTINGUISHED FROM OTHER WETLANDS AND BE RELOCATEABLE BY	Property owner	It is strongly recommended that landowner permission be obtained prior to collecting certification documentation.
OTHERS. PROVIDE ANY MAPS THAT WOULD HELP SOMEONE UNFAMILIAR WITH THE AREA LOCATE THE VERNAL POOL IN THE FIELD. 6. THE FORM MUST BE SIGNED. UNSIGNED SUBMISSIONS WILL BE RETURNED WITHOUT	Address	
FURTHER ACTION. OPTIONAL INFORMATION: PROPERTY OWNER. PROVIDE INFORMATION ABOUT PROPERTY OWNER(S), IF KNOWN. IT IS RECOMMENDED THAT YOU SEEK PROPERTY OWNER	Town	State ZIP
PERMISSION PRIOR TO CERTIFICATION ACTIVITIES. RARE SPECIES. A PHOTOGRAPH IS NECESSARY FOR DOCUMENTATION OF RARE SPECIES HABITAT. DESCRIPTION. PROVIDE ANY INFORMATION THAT WILL DISTINGUISH THE POOL FROM OTHER WETLANDS (BOULDERS, DEBRIS, TREE SPECIES, ETC.).	species Mar is	VERE ANY RARE STATE-LISTED SPECIES OBSERVED SING THIS POOL? A PHOTOGRAPH OF THE RARE SPECIES INCLUDED WITH HIS FILING?
	Description of pool a	and surroundings
4. Photographs MUST BE LABELED, DATED, AND SIGNED.		Om APPROXIMATE WIDTH Rm
POOL HOLDING WATER OBLIGATE +/OR FACULTATIVE SPECIES	APPROXIMATE DEPTH PROPERTY OF THE PROPERTY OF	070110711070 00111070 00111
DRY POOL (REQUIRED FOR EVIDENCE 3C)	VISIBLE FROM OR NEAR THE POOL. Dee	per open cancolles of us
5. Maps submitted	Show b border wishle	tran cart puth.
USGS TOPOGRAPHIC MAP (REQUIRED) AND ONE OR MORE OF THE FOLLOWING: AERIAL PHOTOGRAPH DISTANCES/COMPASS DIRECTIONS PROFESSIONAL SURVEY LARGE SCALE TOPO OTHER	Are there other distinctive features as vehicles, foot trails, etc.) that would have have along N	out this pool (vegetation types, abandoned lelp someone recognize 11? Logging & Slash
OPTIONAL EXTRA INFORMATION SKETCH MAP OF AREA ASSESSOR'S MAP OPS LONGITUDE/LATITUDE COORDINATES NAI, 19485 W70.96342		or invest stap.
6. Observer information & signa	iture	SEND COMPLETED FORM AND
Name Bran Perd		SUPPORTING DOCUMENTATION TO:
Address PO Box 1221		NH&ESP VERNAL POOL CERTIFICATION MA DIVISION OF FISHERIES & WILDLIFE ROUTE 135
Town Plymoth	State MA ZIP 02362	WESTBOROUGH, MA 01581
Telephone		All submissions and
e-mail		supporting documents will be retained by the Natural Heritage
I hereby certify under the pains and penalties contained in this report is true and complete to	& Endangered Species Program. Information submitted on this form and other documents is part of the public record and is	
Signature <u>Maz</u>	Date 7/01/01	available to interested parties under the State Documents Request Law.





emal bel #2

coly woods - Lokeville

18/01

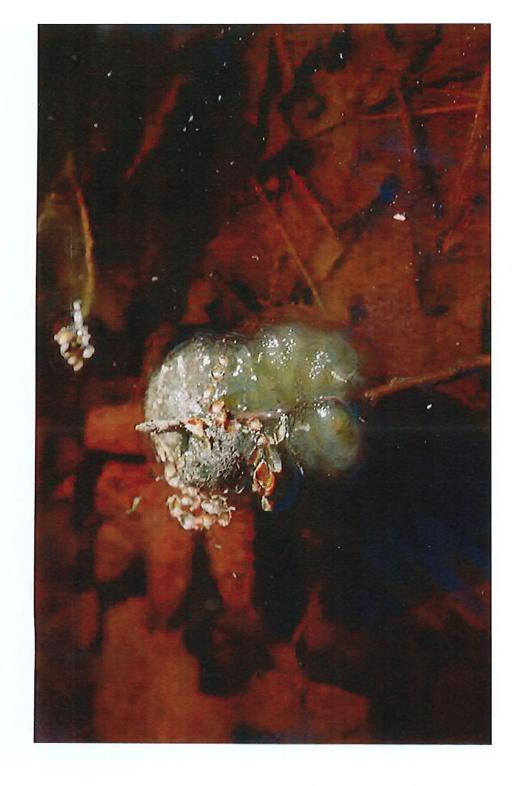
South Cert

ted Salamander Egg Mass

y Weals VPH2 - Laberille

5/91

m Revel



Spother Schammler agoness
Apolly Wochs UP#3-Laballe
5/8/01
Med 2



Natural Heritage & Endangered Species Program Massachusetts Division of Fisheries and Wildlife

Vernal Pool Field Observation Form (For use with Guidelines for Certification of Vernal Pool Habitat)

CVP2686

For office use only.

1. Pool location	on					Instructions				
Town Laber	•		County _			FOR COMPLETE INFORMATION ABOUT CERTIFICATION, REFER TO GUIDELINES FOR CERTIFICATION OF VERNAL POOL HABITAT.				
USGS Quadrar WRITTEN DIRECTIONS Con First Letween	то POOL: _2	50m son	to of	UPHZ	\$ 7.5' X 7.5' \$ 7.5' X 15' L dams lipe Shrun	PROVIDE ALL OF THE INFORMATION REQUESTED IN BOXES 1-6. IF MORE SPACE IS REQUIRED, ATTACH ADDITIONAL PAGES, INCLUDE ALL REQUIRED PHOTOGRAPHS AND DOCUMENTATION. SIGN THE FORM IN THE AREA PROVIDED ON THE REVERSE SIDE, INCOMPLETE OR UNSIGNED SUBMISSIONS WILL BE RETURNED. THE FOLLOWING INSTRUCTIONS REFER TO EACH OF THE NUMBERED BOXES.				
ANST THE WAST BE SHOWN THE SHOW THE SHO	1. The 7.5 X 7.5 series has the Legend "7.5 minute series" in the upper Right hand corner along with the QUADRANGLE NAME. The 7.5 X 15 minute									
- 100				(USE ADDITIONAL PAG	GES, IF NECESSARY.)	SERIES IS SO LABELED IN THE UPPER RIGHT HAND CORNER AND HAS THE QUADRANGLE				
Observation Last date pool obs		, First date	pool/species		5/8/91 5/8/91	NAME IN THE LOWER RIGHT CORNER, WRITTEN DIRECTIONS MUST BE INCLUDED. 2 INDICATE THE FIRST AND LAST DATES THAT THE POOL OR ITS BIOLOGICAL COMPONENTS WERE OBSERVED.				
3 A. Evidence	: obligat	e amphibi	ans Indica	te date of obse	ervation.	3. PART A AND B ARE FOR CERTIFICA- TION BY OBLIGATE SPECIES. PART C IS				
* = RARE SPECIES	COURTING ADULTS	SPERMATOPHORES	EGG MASSES	SALAMANDER LARVAE	TRANSFORMING JUVENILES	EITHER FOR ADDITIONAL INFORMATION (APPRECIATED) OR FOR CERTIFICATION BY				
SPOTTED SALAMANDER						THE FACULTATIVE SPECIES. IF CERTIFYING BY OBLIGATE SPECIES, PROVIDE A PHOTOGRAPH				
* BLUE-SPOTTED SALAMANDER						OF THE POOL HOLDING WATER AND AT LEAST ONE PHOTOGRAPH (OR AUDIO TAPE FOR				
* JEFFERSON SALAMANDER						CHORUSING) OF BREEDING ACTIVITY. FOR CERTIFICATION BY FACULTATIVE SPECIES, PROVIDE PHOTOGRAPHS OF THE				
* MARBLED SALAMANDER						POOL HOLDING WATER AND PHOTOGRAPHS (OR TAPES) OF THE FACULTATIVE SPECIES AS				
UNIDENTIFIED MOLE SALAMANDER						REQUIRED. ADDITIONALLY, PROVIDE A PHOTOGRAPH OF THE POOL WHEN DRY OR OTHERWISE PROVE THAT IT HAS NO FISH.				
	BREEDING CHORUS	MATED PAIRS	EGG MASSES	FROG TADPOLES	TRANSFORMING JUVENILES					
WOOD FROG			5/8/01			3 B. Evidence: fairy				
* SPADEFOOT TOAD						Shrimp DATE OBSERVED				

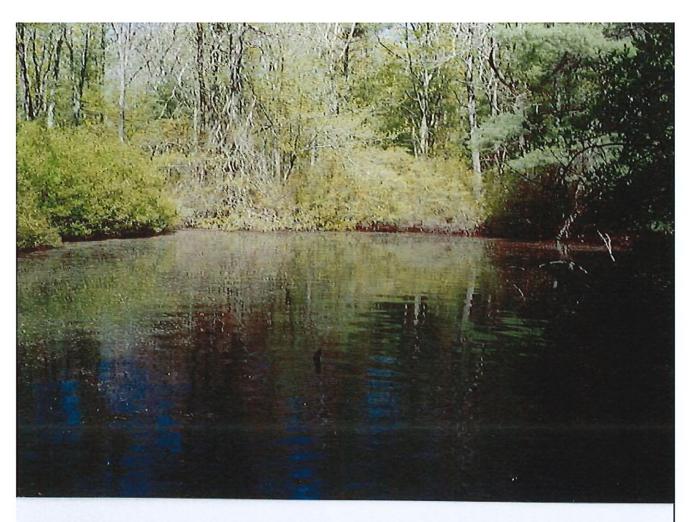
* = RARE SPECIES	DATE OBSERVED	ACTIVITY OBSERVED		DATE OBSERVED	ACTIVITY OBSERVED
BREEDING SPRING PEEPERS	St. January		PAINTED TURTLES		
BREEDING GRAY TREEFROGS			SNAPPING TURTLES		
BREEDING GREEN FROGS			PREDACEOUS DIVING BEETLE LARVAE		
BREEDING LEOPARD FROGS			WATER SCORPIONS		
BREEDING PICKERAL FROGS			DRAGONFLY NYMPHS		-
BREEDING AMERICAN TOADS			DAMSELFLY NYMPHS		
BREEDING FOWLER'S TOADS			DOBSONFLY LARVAE		
* BREEDING FOUR-TOED SALAMANDERS			WHIRLIGIG BEETLE LARVAE		
RED-SPOTTED NEWT (ADULTS)			CADDISFLY LARVAE		
* SPOTTED TURTLES			LEECHES		
* WOOD TURTLES			FINGERNAL (FRESHWATER) CLAMS		
* BLANDINGS TURTLES			AMPHIBIOUS AIR-BREATHING SNAILS		

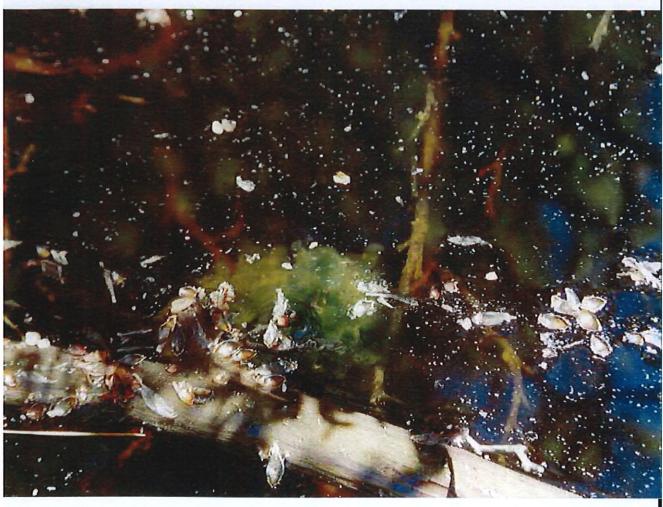
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6. Observer information & signature							
Name Branleid							
Address Po Box 12)							
Town Plymoth State MA ZIP 02362							
Telephone							
e-mail							
I hereby certify under the pains and penalties of perjury that the information contained in this report is true and complete to the best of my knowledge.							
Signature Date 4/0							

NH&ESP Vernal Pool Certification MA Division of Fisheries & Wildlife Route 135 Westborough, MA 01581

All submissions and supporting documents will be retained by the Natural Heritage & Endangered Species Program. Information submitted on this form and other documents is part of the public record and is available to interested parties under the State Documents Request Law.





mal Poel #3
sely Woods-Lateville
E/01
Marchael

lack Frog Egy Mass
hy Woods N#3. Laberille
18/01
The interior





Wood Froz egg mass
Rocky woods MH3-Laberthe
5/8/01
Bran Revd

bood Froy Egg Mess seley woods VP#3-Labrille 1/8/01 mar Reid



* BREEDING FOUR-TOED SALAMANDERS

RED-SPOTTED NEWT (ADULTS)

SPOTTED TURTLES

WOOD TURTLES

BLANDINGS TURTLES

Natural Heritage & Endangered Species Program Massachusetts Division of Fisheries and Wildlife

PVP CVP2687

Vernal Pool Field Observation Form

(For use with Guidelines for Certification of Vernal Pool Habitat)

For office use only.

1. Pool location	on						Instructions			
Town Lake	ville		CERTIFICATIO	MPLETE INFORMATION ABOUT IN, REFER TO GUIDELINES FOR IN OF VERNAL POOL HABITAT.						
USGS Quadrangle name Assumpsett Series 7.5' X 7.5' Written directions to pool: On edge of swamp associated with Color Swamp River 570 m SE of Free fam Sheet Submissions will be returned.										
SE TO VOHA										
2. Observation Last date pool observation	1	1	e pool/species date species (5/8/01 5/8/01	2 INDICATHE POOL OR OBSERVED.	ITE THE FIRST AND LAST DATES THAT ITS BIOLOGICAL COMPONENTS WERE			
3 A. Evidence	e: obligat	e amphil	pians Indica	te date of obs	envation	BY OBLIGATE	A AND B ARE FOR CERTIFICATION SPECIES. PART C IS EITHER FOR			
* = RARE SPECIES	COURTING	SPERMATOPHORES	F00	SALAMANDER LARVAE	TRANSFORMING JUVENILES	CERTIFICATIO	FORMATION (APPRECIATED) OR FOR N BY THE FACULTATIVE SPECIES. IF			
SPOTTED SALAMANDER	AGGETG		Flater	LANVAE	JOVENILES	PHOTOGRAPH	Y OBLIGATE SPECIES, PROVIDE A OF THE POOL HOLDING WATER AND			
* BLUE-SPOTTED SALAMANDER			0/0/41			CHORUSING)	PHOTOGRAPH (OR AUDIO TAPE FOR OF BREEDING ACTIVITY. TIFICATION BY FACULTATIVE SPECIES,			
* JEFFERSON SALAMANDER						PROVIDE PHOT WATER AND P	TOGRAPHS OF THE POOL HOLDING HOTOGRAPHS (OR TAPES) OF THE			
* MARBLED SALAMANDER							SPECIES AS REQUIRED. ADDITION- E A PHOTOGRAPH OF THE POOL			
UNIDENTIFIED MOLE SALAMANDER						WHEN DRY OF	OTHERWISE PROVE THAT IT HAS NO			
	BREEDING CHORUS	MATED PAIRS	EGG MASSES (2+)	FROG TADPOLES	TRANSFORMING JUVENILES					
WOOD FROG						3 B. E	Evidence: fairy			
* SPADEFOOT TOAD						shrimp				
3 C. Evidence	: facultat	tive organ	nisms _{Two}	or more must	be documented	d. Indicate date	of observation			
* = RARE SPECIES	DATE OBSERVED	ACTIVITY				DATE OBSERVED	ACTIVITY OBSERVED			
BREEDING SPRING PEEPERS				PAINTE	ED TURTLES	OBSERVED				
BREEDING GRAY TREEFROGS				SNAPPI	NG TURTLES					
BREEDING GREEN FROGS					EOUS DIVING LE LARVAE					
BREEDING LEOPARD FROGS	WATER SCORPIONS									
BREEDING PICKEREL FROGS				DRAGON	NFLY NYMPHS					
BREEDING AMERICAN TOADS				DAMSEL	FLY NYMPHS					
BREEDING FOWLER'S TOADS			NFLY LARVAE							

WHIRLIGIG BEETLE

CADDISFLY

LEECHES

FINGERNAIL (FRESHWATER)
CLAMS

AMPHIBIOUS AIR-BREATHING
SNAIL S

Although the following information is not required for certification, it is useful to NHESP to possibly better protect the vernal pool, its habitat and species. Optional information Instructions (continued) 4. INDICATE THE PHOTOGRAPHS BEING IT IS STRONGLY RECOMMENDED THAT LANDOWNER PERMISSION BE OBTAINED PRIOR TO COLLECTING SERVIFICATION DOCUMENTATION. Property owner SUBMITTED. LABEL, DATE, AND SIGN ALL PHOTOS. 5. MARK THE POOL CLEARLY ON ALL MAPS. THE POOL MUST BE CLEARLY DISTINGUISHED FROM OTHER Name WETLANDS AND BE LOCATABLE BY OTHERS. PROVIDE ANY MAPS THAT WOULD HELP SOMEONE UNFAMILIAR WITH THE AREA LOCATE THE VERNAL POOL IN THE Address 6. THE FORM MUST BE SIGNED. UNSIGNED SUBMISSIONS WILL BE RETURNED WITHOUT FURTHER OPTIONAL INFORMATION: PROPERTY OWNER, PROVIDE INFORMATION ABOUT PROPERTY OWNER(S), IF KNOWN. IT IS RECOMMENDED THAT YOU SEEK PROPERTY OWNER PERMISSION PRIOR TO CERTIFICATION ACTIVITIES. Rare wetland [Y] [K] WERE ANY RARE STATE-LISTED SPECIES OBSERVED USING THIS POOL? RARE SPECIES. A PHOTOGRAPH IS NECESSARY FOR DOCUMENTATION OF RARE SPECIES HABITAT. species IN I B A PHOTOGRAPH OF THE RARE SPECIES INCLUDED WITH THIS FILING? DESCRIPTION. PROVIDE ANY INFORMATION THAT WILL DISTINGUISH THE POOL FROM OTHER WETLANDS (BOULDERS, DEBRIS, TREE SPECIES, ETC.). Description of pool and surroundings MUST BE LABELED. DIMENSIONS: APPROXIMATE LENGTH 10 APPROXIMATE WIDTH 5 m 4. Photographs DATED, AND SIGNED. APPROXIMATE DEPTH OIL FOOL HOLDING WATER CELIGATE +/OR FACULTATIVE SPECIES DESCRIBE DISTINCTIVE FEATURES (ROADS, STRUCTURES, BOULDERS, ETC.) WHICH ARE VISIBLE DRY POOL (REQUIRED FOR EVIDENCE 3C) FROM OR NEAR THE POOL. Poolpd were at base of slape apen campy ! dense show layer Maps submitted USGS TOPOGRAPHIC MAP (REQUIRED) AND ONE OR MORE OF THE FOLLOWING: AERIAL PHOTOGRAPH SKETCH MAP WITH COMPASS DIRECTIONS AND ARE THERE OTHER DISTINCTIVE FEATURES ABOUT THIS POOL (VEGETATION TYPES, ABANDONED VEHICLES, FOOT DISTANCES FROM LAND MARKS TRAIS, ETC.) THAT WOULD HELP SOMEONE RECOGNIZE IT? 50m SE OF Free law PROFESSIONAL SURVEY LARGE SCALE TOPO Street. OPTIONAL EXTRA INFORMATION SKETCH MAP OF AREA ASSESSOR'S MAP GPS LONGITUDE/LATITUDE COORDINATES WALLY 9224 WYOLG 6149

6.	Observer information & sign	ature	
	Name brunchert		
	Address Po Box 1221		
	Town Plyments	Stat <u>e M A</u>	ZIP PA362
	Telephone		
	e-mail		
	ereby certify under the pains and penalties ntained in this report is true and complete		
Sig	nature M W	Date	9/1/01

SEND COMPLETED FORM AND SUPPORTING DOCUMENTATION TO:

NH&ESP
VERNAL POOL CERTIFICATION
MA DIVISION OF FISHERIES & WILDLIFE
ROUTE 135
WESTBOROUGH, MA 01581

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Rahy Wards - Lahmle 5/8/61 Brown Reid

Spotted Salamonder Egg Masses
Roby Woods VPHA-Laberille
16/01
Brunlest



isiom of eries & Wildlife

Wayne F. MacCallum, Director

VERNAL POOL CERTIFICATION FORM

Certified Vernal Pool: 2684

Town: LAKEVILLE

Date Certified: 2001-07-10

Directions: 2001-05-08: FROM FREETOWN STREET, TURN EAST ALONG THE DIRT ROAD.

FOLLOW THE DIRT ROAD 600 METERS TO THE CELL PHONE TOWER AND THEN

SOUTH FOR 100 METERS TO AN INTERMITTENT STREAM. FOLLOW THE STREAM WEST AND THEN SOUTH FOR ABOUT 100 METERS TO THE POOLED

AREA IN THE SWAMP.

Land Ownership Information (If Supplied):

Map	s submitted	with	certification	and	attached	to	this	form
-----	-------------	------	---------------	-----	----------	----	------	------

V	USGS topographic map showing location if the vernal pool
	Assessor's map (or other property map) showing location of pool
	Compass bearings and distances to the pool from permanent landmarks
V	Aerial photograph/80 or 100 scale topographic map showing location of the pool
	Professional survey showing location of the pool
	Sketch map or description of the immediate vicinity of the pool

Documented Biological Indicators Accepted by NHESP

,,,,	cumented Diological Indicators
	Wood Frog (Obligate Amphibian)
V	Mole Salamander (Obligate Amphibian)
	Fairy Shrimp (Obligate Invertebrate)
	Facultative Amphibian
	Facultative Invertebrate
	Facultatuve Reptile

The NHESP has not been notified of the presence of rare state-listed wildlife species in this vernal pool habitat

Vernal pools may be protected under the following regulations:

- Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00)
- Massachusetts Surface Water Quality Standards Regulations (314 CMR 4.00)
- Title V (Subsurface Sewage Disposal) Regulations (30 CMR 15.00)
- Forest Cutting Practices Act Regulations (304 CMR 11.00)



Natural Heritage & Endangered Species Program

Route 135, Westborough, MA 01581 Tel: (508) 792-7270 x 200 Fax: (508) 792-7821 An Agency of the Department of Fisheries, Wildlife & Environmental Law Enforcement http://www.state.ma.us/dfwele/dfw/nhesp



Division of Fisheries & Wildlife

Wayne F. MacCallum, Director

VERNAL POOL CERTIFICATION FORM

Certified Vernal Pool: 2685

Town: LAKEVILLE

Date Certified: 2001-07-10

Directions: 2001-05-08: FOLLOW FREETOWN STREET SOUTH AND TURN LEFT ONTO THE

CARTPATH. THE POOL IS LOCATED SOUTH OF THE CART PATH ABOUT 800 METERS FROM FREETOWN STREET. REFER TO THE SUBMITTED MAPS FOR

THE EXACT LOCATION OF THE POOL.

Land Ownership Information (If Supplied):

Ma	ps	submitted	with	cer	tification	and	attached	to	this	form

USGS topographic map showing location if the vernal pool
Assessor's map (or other property map) showing location of pool
Compass bearings and distances to the pool from permanent landmarks
Aerial photograph/80 or 100 scale topographic map showing location of the pool
Professional survey showing location of the pool
Sketch map or description of the immediate vicinity of the pool

Documented Biological Indicators Accepted by NHESP

	Wood Frog (Obligate Amphibian)
V	Mole Salamander (Obligate Amphibian)
	Fairy Shrimp (Obligate Invertebrate)
	Facultative Amphibian
	Facultative Invertebrate
	Facultatuve Reptile

The NHESP has not been notified of the presence of rare state-listed wildlife species in this vernal pool habitat

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- Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00)
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Division of Fisheries & Wildlife

Wayne F. MacCallum, Director

VERNAL POOL CERTIFICATION FORM

Certified Vernal Pool: 2686

Town: LAKEVILLE

Date Certified: 2001-07-10

Directions: 2001-05-08: FOLLOW FREETOWN STREET SOUTH AND TURN LEFT ONTO THE

CARTPATH. FOLLOW THE CARTPATH FOR ABOUT 800 METERS TO ONE VERNAL POOL (CVP #2685) AND THEN TURN SOUTH. WALK DOWNSLOPE FOR 150 METERS AND THEN FOLLOW THE INTERMITTENT STREAM THAT RUNS

BETWEEN THE ROCK OUTCROPS TO THE POOL.

Land Ownership Information (If Supplied):

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V	USGS topographic map showing location if the vernal pool
	Assessor's map (or other property map) showing location of pool
	Compass bearings and distances to the pool from permanent landmarks
V	Aerial photograph/80 or 100 scale topographic map showing location of the poo
	Professional survey showing location of the pool
	Sketch map or description of the immediate vicinity of the pool

Documented Biological Indicators Accepted by NHESP

V	Wood Frog (Obligate Amphibian)
	Mole Salamander (Obligate Amphibian)
	Fairy Shrimp (Obligate Invertebrate)
	Facultative Amphibian
	Facultative Invertebrate
	Facultatuve Reptile

The NHESP has not been notified of the presence of rare state-listed wildlife species in this vernal pool habitat

Vernal pools may be protected under the following regulations:

- Massachusetts Wetlands Protection Act Regulations (310 CMR 10.00)
- Massachusetts Surface Water Quality Standards Regulations (314 CMR 4.00)
- Title V (Subsurface Sewage Disposal) Regulations (30 CMR 15.00)
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Division of Fisheries & Wildlife

Wayne F. MacCallum, Director

VERNAL POOL CERTIFICATION FORM

Certified Vernal Pool: 2687

Town: LAKEVILLE

Date Certified: 2001-07-10

Directions: 2001-05-08: THE POOL IS LOCATED AT THE EDGE OF THE SWAMP ASSOCIATED

WITH CEDAR SWAMP RIVER ABOUT 50 METERS SOUTHEAST OF FREETOWN STREET. REFER TO THE SUBMITTED MAPS FOR THE EXACT LOCATION OF THE

POOL.

Land Ownership Information (If Supplied):

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V 1	JSGS topographic map showing location if the vernal pool
	Assessor's map (or other property map) showing location of pool
	Compass bearings and distances to the pool from permanent landmarks
V	Aerial photograph/80 or 100 scale topographic map showing location of the poo
	Professional survey showing location of the pool
	Sketch map or description of the immediate vicinity of the pool
Doci	imented Biological Indicators Accepted by NHESP
	Nood Frog (Obligate Amphibian)

Wood Frog (Obligate Amphibian)
 ✓ Mole Salamander (Obligate Amphibian)
 □ Fairy Shrimp (Obligate Invertebrate)
 □ Facultative Amphibian
 □ Facultative Invertebrate
 □ Facultatuve Reptile

The NHESP has not been notified of the presence of rare state-listed wildlife species in this vernal pool habitat

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