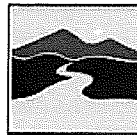


**Vermont Wetlands Program
General Permit Qualification Form**

Under Sections 9
of the Vermont Wetland Rules



VERMONT DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
**WATERSHED
MANAGEMENT DIVISION**
WETLANDS PROGRAM



1. General Permit Eligibility Checklist:

If you cannot verify all of the following, stop and proceed to the Individual Permit Application.

- The activity does not qualify as an Allowed Use under Section 6 of the Vermont Wetland Rules.
- The activity does not need additional conditions to protect functions and values.
- All impacts have been avoided and minimized to the greatest extent possible.
- The wetland complex is not significant for Function 5.5 Exemplary Wetland Natural Community or 5.6 Rare, Threatened and Endangered Species Habitat, or applicant has received a waiver letter from VT Fish and Wildlife. (attach waiver)
- The activity is not located in or adjacent to a vernal pool, fen, or bog.
- The wetland is not at or above 2,500' in elevation (headwaters wetland).
- The project is not located in a Class I wetland or associated buffer zone.
- The activity is not an as-built project that constitutes a violation of the Vermont Wetland Rules.
- The activity is not associated with an activity which received a Wetland Permit.

2. Project Type (as described in the General Permit)

Non-Linear Project

3. Wetland Type Proposed for Impact

Surface Water Margin Managed Area

4. 50ft Wetland Buffer Proposed for Impact

Surface Water Margin Managed Area

5. Activity Threshold based on the selections above, select the appropriate threshold. If the activity is greater than the thresholds below, stop and proceed to the Individual Permit Application. eg: Project type is non-linear, wetland and buffer type is managed and natural, and total impacts are 700 sqft → choose option (d) below.

- (a) The total activity impacts proposed are <3,000 square feet of managed wetland or buffer **and** will not exceed 999 square feet of natural wetland or buffer **and** will not exceed 149 square feet of surface water margins.
- (b) The activity is associated with a linear project **and** total activity impacts proposed are <5,000 square feet of managed wetland or buffer **and** will not exceed 2,999 square feet of natural wetland or buffer **and** will not exceed 149 square feet of surface water margins.

6. Section 8B Specific Activity Best Management Practices All permittees covered under the VT Wetland General Permit must implement best management practices (BMP) under section V. of the permit. Here, identify if the proposed activity must implement special BMPs in accordance with Section 8B

- 8B(a) Placement, relocation, removal, or upgrade of overhead utility lines
- 8B(b) Installation of underground facilities including utilities, dry hydrants, foundation drains, and wells
- 8B(c) Activities in surface water body margins
- None Apply

The Secretary may require a person applying for an authorization under a general permit to apply for an individual permit. VWR §9.8. Contact your District Ecologist to verify eligibility before submittal.

Vermont Wetlands Program Permit Application Database Form

Under Sections 8 and 9
of the Vermont Wetland Rules



Application Submittal Instructions

- If submitting via US post, include a check in the correct fee amount made payable to the "State of Vermont," and a CD for applications that contain large files (1 MB or greater).

Mail to: Vermont Wetlands Program
 Watershed Management Division
 One National Life Drive, Main 2
 Montpelier, VT 05620-3522

- Applications can also be submitted via email to the following address: anr.wsmdwetlands@state.vt.us
 - If submitting via email, please mail a check in the correct fee amount, made payable to the "State of Vermont," and a copy of the Vermont Wetlands Program Application Database Form (this page) to the address provided above. *It is not necessary to mail in a copy of the complete application.*

Applicant Name: Michael and Terry Arciero		Application Preparer Name: Jeffrey Severson	
Town where project is located: Chittenden		County: Rutland	
Span#:		Vermont Wetlands Project (VWP)# if Known: 2016-255	
Project Location Description: 146 Chittenden Road, Chittenden, VT 05737 <i>911 street address or direction from nearest intersection</i>			
Brief Project Summary: Petition to reclassify a VSWI-mapped man-made pond from a Class II to a Class III Wetland			
Application Type: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Wetland Determination <input type="checkbox"/> <input type="checkbox"/> General Permit Coverage Authorization <input type="checkbox"/> Permit Amendment: VWP Project # _____			
Existing Land Use Type(s): <i>(Check all that apply)</i> <input checked="" type="checkbox"/> Residential (single family) <input type="checkbox"/> Residential (subdivision) <input checked="" type="checkbox"/> Undeveloped <input type="checkbox"/> Agriculture <input type="checkbox"/> Transportation <input type="checkbox"/> Forestry <input type="checkbox"/> Parks/Rec/Trail <input type="checkbox"/> Institutional <input type="checkbox"/> Industrial/Commercial			
Proposed Land Use Type(s): <i>(Check all that apply)</i> <input checked="" type="checkbox"/> Residential (single family) <input type="checkbox"/> Residential (subdivision) <input checked="" type="checkbox"/> Undeveloped <input type="checkbox"/> Agriculture <input type="checkbox"/> Transportation <input type="checkbox"/> Forestry <input type="checkbox"/> Parks/Rec/Trail <input type="checkbox"/> Institutional <input type="checkbox"/> Industrial/Commercial			
Proposed Impact Type(s): <i>(Check all that apply)</i> <input type="checkbox"/> Buildings <input type="checkbox"/> Utilities <input type="checkbox"/> Parking <input type="checkbox"/> Septic/Well <input type="checkbox"/> Stormwater <input type="checkbox"/> Driveway <input type="checkbox"/> Park/Path <input type="checkbox"/> Agriculture <input type="checkbox"/> Pond <input type="checkbox"/> Lawn <input type="checkbox"/> Dry Hydrant <input type="checkbox"/> Beaver Dam Alteration <input type="checkbox"/> Silviculture <input type="checkbox"/> Road <input type="checkbox"/> Aesthetics <input checked="" type="checkbox"/> No Impact <input type="checkbox"/> Other: _____			
Wetland and Buffer Impact Type: <i>(Check all that apply)</i> <input type="checkbox"/> Dredge <input type="checkbox"/> Drain <input type="checkbox"/> Cut Vegetation <input type="checkbox"/> Stormwater <input type="checkbox"/> Trench/Fill <input type="checkbox"/> Other: _____			
Wetland Delineation Date(s): 7/8/16 and 7/12/16			

Wetland Improvements	Buffer Zone Improvements	Reason for Improvements
Restoration: s.f.	Restoration: s.f.	<input type="checkbox"/> Correction of Violation
Creation: s.f.	Creation: s.f.	<input type="checkbox"/> To offset permit impacts
Enhancement: s.f.	Enhancement: s.f.	<input type="checkbox"/> Voluntary
Conservation: s.f.	Conservation: s.f.	

Wetland Impact Fee Calculations: Round to the nearest square foot. Fees will auto-calculate.			
Total Wetland Impact <i>(minus linear clear, including ATF)</i>	square feet (s.f.)	Wetland Impact Fee: (\$0.75/sf)	\$ 0.00
Total Wetland Clearing <i>(qualified linear projects only)</i>	square feet (s.f.)	Wetland Clearing Fee: (\$0.25/sf)	\$ 0.00
			\$ 0.00

Total Buffer Zone Impacts and Calculations: Round to the nearest square foot			
Total Buffer Zone Impact	square feet (s.f.)	Buffer Impact Fee: (\$0.25/sf)	\$ 0.00

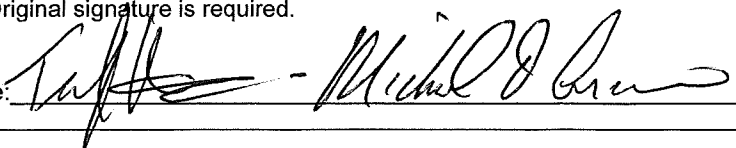
Additional Fees			
	Agricultural Crop Conversion <i>Check here:</i>	<input type="checkbox"/>	\$ 0.00 <i>(Flat fee of \$200.00)</i>
	Minimum Application Fee: (\$50.00) <i>Required when total impact fee is less than \$50.00</i>		\$ 50.00
	Administrative Fee:		\$ 240.00
Make Checks Payable to: State of Vermont		Total Check Amount:	\$240.00

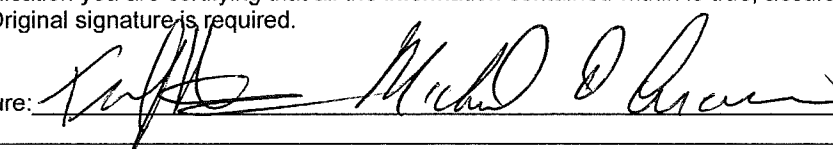
**Application for Authorization Under
the Vermont General Wetland Permit
and Determination Petition**

Under Sections 8 and 9
of the Vermont Wetland Rules



VERMONT DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
**WATERSHED
MANAGEMENT DIVISION**
WETLANDS PROGRAM

Applicant Information: <i>If the applicant is someone other than the landowner, the landowner information must be included below</i>			
Applicant Name: Michael and Terry Arciero			
Address: 10 Washington Lane		City/Town: Mahwah	State: New Jersey Zip: 07430
Phone Number: (201) 424 6693		Email Address: Marciero@veeco1.com	
Applicant Certification: By signing this application you are certifying that all of the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Applicant Signature: 			Date: 8/2/16

Landowner Information: <i>Landowner must sign the application. If landowner is different from the applicant this section must be filled out</i>			
<input checked="" type="checkbox"/> Check this box if landowner is the same as the applicant			
Landowner Name:			
Address:		City/Town	State: Zip:
Phone Number:		Email Address:	
Landowner Easement: <i>Attach copies of any easements, agreements, or other documents conveying permission, and agreement with the landowner stating who will be responsible for meeting the terms and conditions of the permit. List the attachment for this information in this section. Describe the nature of the agreement or easement in the space provided below:</i>			
Landowner Certification: By signing this application you are certifying that all the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Landowner Signature: 			Date: 8/2/16

Application Preparer Information: <i>Consultant, engineer, or other representative that is responsible for filling out the application, if other than the applicant or landowner.</i>			
Application Preparer Name: Jeffrey Severson, Oakledge Environmental Services, Inc.			
Address: P.O. Box 4065		City/Town: Burlington	State: Vermont Zip: 05406
Phone Number: (802) 660-8312		Email Address: jeff.severson@burlingtontelecom.net	
Application Preparer Certification: By signing this application you are certifying that all of the information contained within is true, accurate, and complete to the best of your knowledge. Original signature is required.			
Application Preparer Signature: Jeffrey E. Severson		Digitally signed by Jeffrey E. Severson Date: 2016.08.01 15:15:50 -04'00'	August 1, 2016

Handwritten signatures are also accepted.

1. Location of wetland and project: (Individual Permit Application [IPA] Section 1)
 Location description should include the road the wetland is located on, the compass direction of the wetland in relation to the road, 911 street address if available, and any other distinguishing features.

146 Chittenden Road, Chittenden, VT 05737. The VSWI-mapped wetland is located on the Arciero property on the east side of Chittenden Road.

2. Program Contact: (IPA Section 2)
 Indicate here if you have been in contact with the Wetlands Program before the application submittal.

2.1 Date of Interaction with State Wetland Ecologist	2.2. State Wetland Ecologist Name
July 20, 2016	Zapata Courage

3. Wetland Classification: (IPA Section 3)

3.1. The wetland is a class II wetland because: (IPA Section 3.1)

The wetland is mapped on the VSWI

3.2. Section 4.6 Presumption (IPA Section 3.2)
 If the wetland meets the Section 4.6 Presumption, it does so because:

<Choose One>
 <Choose One>
 <Choose One>

4. Description of Entire Wetland: (IPA Section 4)
 Answer the following questions regarding the entire wetland, which includes all wetland areas connected to the wetland area proposed for impact. Answers may be estimates based on desktop review when wetland extends past the investigation area (parcel boundary). Specific questions about the wetland in the project area will follow.

4.1. Size of Complex in Acres: (IPA Section 4.1)
 The size of the complex can be obtained from the Wetland Inventory Map for mapped wetlands, or best estimation based on review of aerial photography or site visit. This is not the size of the of the delineated wetland on the subject property unless the entirety of the wetland is represented in the delineation.

Approximately 0.4 acres, including the 0.23 acre VSWI-mapped man-made pond

4.2. Vegetation Cover Types Present: (IPA Section 4.2)
 List all wetland types in the entire wetland and their percent cover.
For example: 50 acres of softwood forested swamp; or 30% scrub swamp, 70% emergent wetland

60 percent open water, 20 percent emergent wetland, 10 percent hardwood forested swamp, 10 percent shrub-scrub swamp

4.3. Pre-project Cumulative Impacts to the Wetland: (IPA Section 4.7)
 Identify any cumulative ongoing impacts outside of the proposed project that may influence the wetland. **Examples include but are not limited to:** Wetland encroachments on and off the subject property, land use management in or surrounding the wetland, or development that influences hydrology or water quality. List any past Vermont Wetland Permits or CUD's related to this property.

Removal of old springhouse, removal of vegetation, grading and excavation of a small pond basin up-gradient from the original man-made pond on the Arciero property.

5. Context of Subject Wetland: (IPA Section 5.1)
 Describe where the subject wetland is in the context of the larger wetland or wetland complex described above. **For example:** Upslope/downslope, narrow eastern "finger", 400 ft. from open water portion.

The subject wetland for the wetland-reclassification petition includes the VSWI-mapped pond, a wetland fringe along the pond margin, a wetland area upslope of the pond, and a wetland "finger" adjacent to the pond's outlet.

6. Subject Wetland Vegetation: (IPA Section 5.3)
 List dominant wetland vegetation cover type and associated dominant plant species. For example: emergent marsh with cattails; forested swamp dominated by red maple and yellow birch; shrub swamp dominated by speckled alder and peat moss; wet meadow dominated by reed canary grass.

Emergent marsh dominated by cattails, forested swamp dominated by red maple, scrub-shrub swamp dominated by several willow species.

7. Buffer Zone: (IPA Section 5.6) Describe the buffer zone of the subject wetland	
7.1 Buffer Land Use: (IP Section 5.6.1) For example: Mowed shoulder, forested, old field, paved road, and residential lawns, etc. Describe any previous and ongoing disturbance in the buffer zone.	<input type="checkbox"/>
The buffer zone includes residential lawn, maintained grounds, and a section of hardwood forest.	

8. Wetland Function Summary: (IPA Section 6) Check which functions are present in the wetland complex	
<input type="checkbox"/> Flood/Storm Storage	<input type="checkbox"/> RTE Species
<input type="checkbox"/> Surface & Groundwater Protection	<input type="checkbox"/> Education & Research
<input type="checkbox"/> Fish Habitat	<input type="checkbox"/> Recreation/Economic
<input type="checkbox"/> Wildlife Habitat	<input type="checkbox"/> Open Space/Aesthetics
<input type="checkbox"/> Exemplary Natural Community	<input type="checkbox"/> Erosion Control

9. Overall Project Description: (IPA Section 17)	
9.1. Overall Project Purpose: (IPA Section 17.1) Description of the basic project. For example: six-lot residential subdivision; expansion of an existing commercial building, building a single family residence.	<input type="checkbox"/>
The application consists of a petition to reclassify a VSWI-mapped man-made pond from a Class II to a Class III wetland.	

10. Project Details: (IPA Section 18) Provide details regarding specific impacts to the wetland and buffer zone.	
10.1. Specific Impacts to Wetland and Buffer Zone Dimensions: (IPA Section 18.1) List portions of the project that will specifically impact the wetland or buffer zone and their dimensions. For example: driveway crossing with 16' wide fill, installation of buried sewer force main with 5' trench including fill footprint.	<input type="checkbox"/>
No wetland or buffer zone impacts are proposed.	
10.2. Bridges and Culverts: (IPA Section 18.2) Culvert circumference, length, placement and shapes, or bridge details. List any stream alteration permits that are required or obtained where perennial streams or rivers are involved.	<input type="checkbox"/>
No bridges or culverts are proposed.	

11. Wetland and Buffer Zone Impacts: (IPA Section 19)

11.1. Wetland Impacts: (IPA Section 19.1)

Summarize the square footage of impact in the appropriate category. Round to nearest square foot

Permanent Wetland Fill	0	s.f.
Temporary Wetland Impact	0	s.f.
Other Permanent Wetland Impact <i>(this number includes clearing of woody vegetation, dredging, and does not include fill)</i>	0	s.f.
Total Wetland Impact:	0	s.f.

Describe in detail the proposed impact to wetlands

For example: Fill for road crossing, temporary impacts for trench and fill related to utility installation.

No wetland impacts are proposed.

11.2. Buffer Zone Impacts: (IPA Section 19.2)

Summarize the square footage of impact in the appropriate category.

Temporary Buffer Impact	0	s.f.
Permanent Buffer Impact	0	s.f.
Total Buffer Impact:	0	s.f.

Describe in detail the proposed impact to buffer zones

For example: Addition of fill along roadway embankment extending into buffer zone.

No buffer zone impacts are proposed.

11.3. Cumulative Impacts: (IPA Section 19.3)

List any potential cumulative or ongoing, direct and indirect impacts on the functions of the wetland.

For example: Increased noise from parking lot, vegetation management, inputs from stormwater pond outlet, reduction in flood storage volume from the addition of fill from the project.

The petition will not result in any cumulative or ongoing impacts to wetland functions.

12. Mitigation Sequence: (IPA Section 20) <i>Please refer to Section 9.5b of the rules on Mitigation Sequencing for this section.</i>	
12.1. Avoidance of Wetland Impacts: (IPA Section 20.1)	
12.1.1. Can the activity be located on another site owned or controlled by the applicant, or reasonably available to satisfy the basic project purpose? If not, indicate why. Cite any alternative sites and explain why they were not chosen.	<input type="checkbox"/>
No activities are proposed.	
12.1.2. Can the proposed activity be practicably located outside the wetland/buffer zone? If not, indicate why. Explain the alternatives you have explored for avoiding the wetland and buffer onsite, And why they are not feasible.	<input type="checkbox"/>
No activities are proposed.	
12.2. Avoidance to the Impact to Functions and Values: (IPA Section 20.2)	
12.2.1. If the proposed activity cannot be practicably located outside the wetland/buffer zone, have all practicable measures been taken to avoid adverse impacts on protected functions?	<input type="checkbox"/>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12.2.2. What design alternatives were examined to avoid impacts to wetland function? For example: Use of matting, relocation of footprint, etc.	<input type="checkbox"/>
Not applicable.	
12.2.3. What steps have been taken to minimize the size and scope of the project to avoid impacts to wetland functions and values? Include information on project size reduction and relocation.	<input type="checkbox"/>
Not applicable.	
12.2.4. Explain how the proposed project represents the least impact alternative design. Explain why other alternatives, which you described above, were not chosen.	<input type="checkbox"/>
Not applicable.	

13. Wetland Determination: (IP Section 21)
If the application involves a wetland determination please answer the following.

Wetland is mapped or contiguous to the Vermont Significant Wetland Inventory Map
 Wetland is not mapped on or contiguous to the Vermont Significant Wetland Inventory Map

13.1. Reason for Petition: (IP Section 21.1)
Please choose one from the dropdown menu.

Make a determination of Class III

13.3. Determination Narrative: (IP Section 21.2)
Please provide any narrative to support the petition for a wetland determination here, including previous decisions by the Secretary or Water Board. Determinations are made based on an evaluation of the functions and values present. Here add narrative description on the functions listed in section 8 of this application and described in section 5 of the Vermont Wetland Rules. For example: Wetland provides water storage and surface water protection because it is large in size, concave, and naturally vegetated.

A narrative to support the petition for a Class III wetland determination is attached.

14. Supporting Materials: (IP Section 22)

****ADDITIONAL MATERIALS REQUIRED TO CALL APPLICATION COMPLETE**

14.1. **Location Map: (IP Section 22.1)
Provide a location map that is 8 1/2" x 11" and separate from any site plans. The Vermont Natural Resources Atlas is appropriate using USGS topography map base layer, roads, and VSWI wetlands.

Date	Title
8/1/16	Location map for Arciero wetland petition

14.2. **Site Plan(s): (IP Section 22.2)
Please list by date, date of last revision, author, and title. Plans must include wetland delineation and buffer zones, limits of disturbance, erosion controls, building envelopes, and any permanent memorialization.

Title	Author	Date	Last Revision Date
The petition does not include site plans. The interior and exterior wetland boundaries were delineated and flagged at the site. The exterior boundary of the wetland and man-made pond complex, which encompasses the entire area proposed for reclassification, was surveyed with a hand-held GPS. A GIS shapefile of the wetland boundary polyline has been provided to the Vermont Wetlands Program.			

14.3. Other Supporting Documents: (IP Section 22.5)
Provide any other documentation that supports the application. Examples include but are not limited to: Photographs, easements, agreements, restoration/plan, GIS shapefiles, additional ACOE forms.

Date	Last Revision	Author	Title
8/1/16	8/1/16	Rebecca Gilson, PLS, Civil Engineering Associates	Arciero SHP file.shp

**Wetland Functions and Values Assessment
for Petition to Reclassify a VSWI-Mapped Man-made Pond
from a Class II to a Class III Wetland**

**Wetland Project #2016-255
146 Chittenden Road
Chittenden, Vermont 05737**

Section 13.3: Determination Narrative

Oakledge Environmental Services, Inc. conducted a functional assessment of the VSWI-mapped pond and adjacent wetland to determine if any wetland functions or values were present at a significant level. The assessment followed the criteria outlined in Section 5 of the Vermont Wetland Rules, using the checklist of functions and values included in Sections 7 - 16 of the Vermont Individual Wetland Permit application. The functional evaluation findings are based on several site visits in June and July 2016, a review of aerial imagery and other desktop resources, and site history obtained from Mike and Terry Arciero, who constructed the VSWI-mapped pond on their property in 1995. Based on my findings, the wetland is not characterized by any significant functions or values that merit protection under the Vermont Wetland Rules.

The approximately 0.23 acre pond on the Arciero property was added to the VSWI map for this location in 2010. Most of the man-made pond consists of deep open water that does not meet the three-parameter definition of a wetland. The pond is characterized by steep side slopes, and water depths sharply increase at relatively short distances from the shoreline. At least 80 percent of the pond is too deep to support wetland vegetation. Relatively small wetlands are located adjacent to the VSWI-mapped pond, and include a wetland area up-gradient from the pond, a wetland fringe around the pond margin, and a relatively narrow wetland band in the woods down-gradient of the pond outlet. The overall size of the VSWI-mapped pond and adjacent wetland is less than 0.5 acres in size.

The following functions are present at such minimal levels that they do not constitute significant (protected) functions: water storage for flood water and storm runoff (VWR § 5.1), surface and groundwater protection (VWR § 5.2), fisheries habitat (VWR § 5.3); and wildlife and migratory bird habitat (VWR § 5.4).

The following functions and values are not present: exemplary wetland natural community (VWR § 5.5), threatened and endangered species habitat (VWR § 5.6), education and research in natural science (VWR § 5.7), recreational value and economic benefits (VWR § 5.8), and open space and aesthetics, (VWR § 5.9), and erosion control through binding and stabilizing the soil (VWR § 5.10).

5.1 Water Storage for Flood Water and Storm Runoff

The wetland is not significant for water storage for flood water and storm runoff, due to its small size, sloping topography, and the lack of storage capacity. Nearly the entire water storage capacity is provided by the deep man-made pond basin constructed approximately 20 years ago by the applicants. The pond is fed by spring water that is routed into the pond from a natural spring where a springhouse was historically located. Water levels in the pond are largely controlled by the configuration and elevation of the pond outlet, and remain relatively stable. The pond fills most of the basin, and, as a result, there is very limited additional water storage capacity above the elevation of the pond surface. The relatively small areas of wetland adjacent to the pond are located on sloping terrain that provides extremely limited additional water storage capacity.

5.2 Surface and Groundwater Protection

The wetland is not significant for surface and groundwater protection due to its small size and limited capacity for filtering and treating surface water and groundwater. A natural spring located approximately 50 feet up-gradient from the constructed pond is the primary source of surface water in the pond. The volume of water which enters the pond from a natural spring appears to be approximately the same as the volume of water that exits the pond, and the elevation of the pond surface appears relatively stable under normal conditions. The spring water is naturally cold and very clear, and surface water protection is provided primarily by the deep man-made pond.

The small wetland up-gradient from the pond has little opportunity to protect water quality in either spring water or surface water in the pond. Spring water was formerly routed from an old springhouse towards the pond via subsurface piping. Currently, spring water collects in a small “upper” pond that was excavated adjacent to the springhouse location after the springhouse remnants were accidentally demolished in the spring of 2016. Surface water is routed from the upper pond to the larger pond to the south via a stone-lined channel that was constructed to prevent erosion on the slope between the upper and lower ponds. The pond most likely receives a relatively small amount of discharge from the small up-gradient wetland area. The surface water contribution from the wetland, however, appears to be minimal in comparison to the constant flow of spring water into the pond.

A narrow wetland finger extends southward along the short section of stream that flows into the adjacent woods from the pond outlet. The pond discharge disappears within approximately 100 feet of the pond outlet, and most likely recharges a section of the shallow groundwater table. The small wetland in this location has the potential to provide limited groundwater protection. Surface water that flow southward from the pond, however, appears clear and there are no likely sources of pollutants that could potentially impact water quality in the pond or short stream section.

5.3 Fish Habitat

The wetland does not provide significant fish habitat due to its small size and limited capacity to provide shade, cover and food resources for fish the applicants stock in the pond. The man-made pond provides limited fish habitat, however, not at a level that merits protection under the Vermont Wetland Rules. The applicants have stocked the pond with fish several times since its construction, and the narrow wetland fringe at the pond margin and adjacent wetland areas provide some shade and cover for these fish. Minnows have survived, and were observed in shallow water at the pond margin. Larger fish species, including trout, have been stocked by the applicants, however, these efforts have not resulted in a permanent fish population.

5.4 Wildlife Habitat

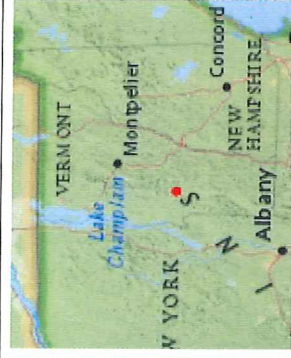
The wetland and pond provide some limited wildlife habitat, however, not at levels that merit protection under the Vermont Wetland Rules. The wetland/pond complex is not characterized by the wildlife and migratory bird habitat criteria outlined in the Rules. The applicants constructed the pond on their property 20 years ago, and sited it intentionally in a location that meshed with the landscape and could be viewed from their house at a distance, while providing habitat for fish and wildlife. Bullfrogs (*Lithobates catesbeianus*) and eastern newts (*Notophthalmus viridescens*) were observed utilizing the wetland fringe around the pond, which is typical for small man-made ponds. Any amphibian habitat at the site, however, is directly attributable to the presence of the man-made pond constructed by the property owner, rather than the presence of the small adjacent wetland.



Location Map for Arciero Wetland Petition

Vermont Agency of Natural Resources

vermont.gov



LEGEND

- Wetlands - VSWI
 - Class 1 Wetland
 - Class 2 Wetland
- Parcels (where available)
- Town Boundary



1: 5,580
August 29, 2016

283.0 0 142.00 283.0 Meters
1" = 465 Ft. 1cm = 56 Meters
THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Vermont Agency of Natural Resources

NOTES

Map created using ANR's Natural Resources Atlas