

# Three Oaks Environmental

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December 14, 2023

Chris Mossman  
[ccmossman@troweng.net](mailto:ccmossman@troweng.net)

Re: Wetlands Delineation  
302 Maple St. Winchendon

I flagged the banks and Bordering Vegetated Wetland of an intermittent stream on December 4 in preparation for the design of a septic repair. There is a distinct break in the slope between the upland area and the bank and BVW. I used Blue flags A1 to A5 along one side of the channel and B1 to B3 on the the opposite side of the stream. The upland soils are bright immediately below the topsoil while the wetland soils are become gray. The stream is unusual in that it enters a culvert about the existing lawn and building, then appears to pass below the site, and connecting to storm drains by the road before daylighting on the opposite side of Maple St.

Vegetation observed in the wetland includes: -maleberry, cinnamon fern, and sphagnum moss.

Vegetation observed in the upland includes: american beech, white pine, morrows honeysuckle, and black cherry.

According to the MassGIS data layers for the Natural Heritage Program, there are no Estimated or Priority Habitats of Rare species, or certified vernal pools on the site. This parcel is not located in an Area of Critical of Environmental Concern (ACEC), within an Outstanding Resource Water (ORW). or within a FEMA 100-year floodplain. Please feel free to contact me if you have any questions regarding this report.

Sincerely,  
MaryAnn DiPinto, PWS #0227  
[threeoaksenvironmental@gmail.com](mailto:threeoaksenvironmental@gmail.com)

attachments



# 302 Maple St Winchendon Locus



NHESP Priority Habitats of Rare Species



NHESP Estimated Habitats of Rare Wildlife



NHESP Certified Vernal Pools



Potential Vernal Pools



DEP Wetlands Labels

DEP Wetlands Linear Features

- SHORELINE
- HYDROLOGIC CONNECTION
- MEAN WATER LINE
- APPARENT WETLAND LIMIT
- CLOSURE LINE
- EDGE OF INTERPRETED AREA

Property Tax Parcels

# 302 Maple St Winchendon wetland resources



NHESP Priority Habitats of Rare Species



NHESP Estimated Habitats of Rare Wildlife



NHESP Certified Vernal Pools



Potential Vernal Pools



DEP Wetlands Labels

DEP Wetlands Linear Features

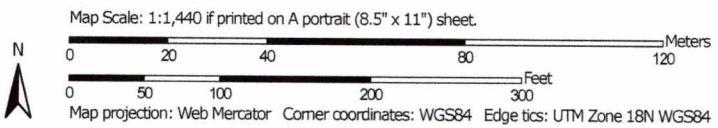
- SHORELINE
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Property Tax Parcels

MassMapper

Leaflet | MassGIS 2019 Aerial Imagery

Soil Map—Worcester County, Massachusetts, Northwestern Part  
(302 Maple St. Winchendon)



## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
284B	Croghan loamy fine sand, 3 to 8 percent slopes	3.7	37.4%
365B	Skerry fine sandy loam, 3 to 8 percent slopes	3.0	30.2%
908C	Becket-Skerry association, 0 to 15 percent slopes, extremely stony	3.2	32.4%
<b>Totals for Area of Interest</b>		<b>9.8</b>	<b>100.0%</b>

## Worcester County, Massachusetts, Northwestern Part

### 365B—Skerry fine sandy loam, 3 to 8 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2w9p8

*Elevation:* 260 to 1,210 feet

*Mean annual precipitation:* 31 to 65 inches

*Mean annual air temperature:* 36 to 52 degrees F

*Frost-free period:* 90 to 160 days

*Farmland classification:* All areas are prime farmland

#### Map Unit Composition

*Skerry and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Skerry

##### Setting

*Landform:* Hills, mountains

*Landform position (two-dimensional):* Backslope, footslope

*Landform position (three-dimensional):* Mountainbase, interfluve

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Loamy lodgment till derived from granite and gneiss and/or schist over sandy lodgment till derived from granite and gneiss and/or schist

##### Typical profile

*Ap - 0 to 6 inches:* fine sandy loam

*Bs1 - 6 to 20 inches:* gravelly fine sandy loam

*Bs2 - 20 to 25 inches:* gravelly fine sandy loam

*Cd1 - 25 to 34 inches:* gravelly loamy sand

*Cd2 - 34 to 65 inches:* gravelly loamy sand

##### Properties and qualities

*Slope:* 3 to 8 percent

*Depth to restrictive feature:* 21 to 43 inches to densic material

*Drainage class:* Moderately well drained

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately low to moderately high (0.01 to 1.42 in/hr)

*Depth to water table:* About 18 to 30 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Maximum salinity:* Nonsaline (0.0 to 1.9 mmhos/cm)

*Available water supply, 0 to 60 inches:* Low (about 3.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 2w

*Hydrologic Soil Group:* C/D  
*Ecological site:* F144BY501ME - Loamy Slope (Northern  
Hardwoods)  
*Hydric soil rating:* No

### Minor Components

#### Colonel

*Percent of map unit:* 6 percent  
*Landform:* Hills, mountains  
*Landform position (two-dimensional):* Foothills  
*Landform position (three-dimensional):* Mountainbase, interfluvium  
*Microfeatures of landform position:* Closed depressions, closed  
depressions  
*Down-slope shape:* Linear, concave  
*Across-slope shape:* Concave  
*Hydric soil rating:* No

#### Becket

*Percent of map unit:* 4 percent  
*Landform:* Hills, mountains  
*Landform position (two-dimensional):* Summit, shoulder, backslope  
*Landform position (three-dimensional):* Mountainbase, interfluvium  
*Microfeatures of landform position:* Rises, rises  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Hydric soil rating:* No

#### Brayton

*Percent of map unit:* 3 percent  
*Landform:* Hills, mountains  
*Landform position (two-dimensional):* Foothills, toeslope  
*Landform position (three-dimensional):* Mountainbase, interfluvium  
*Microfeatures of landform position:* Closed depressions, closed  
depressions  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Hydric soil rating:* Yes

#### Hermon

*Percent of map unit:* 2 percent  
*Landform:* Hills, mountains  
*Landform position (two-dimensional):* Summit, shoulder, backslope  
*Landform position (three-dimensional):* Mountainbase, interfluvium  
*Microfeatures of landform position:* Rises, rises  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Worcester County, Massachusetts, Northwestern Part  
Survey Area Data: Version 17, Sep 13, 2023