Three Oaks Environmental

P.O. Box 404 Hubbardston, MA 01452 (978) 855-3180

September 27, 2022

Conservation Commission Sturbridge, MA rgendreau@stubridge.gov Re: Additional wetlands information

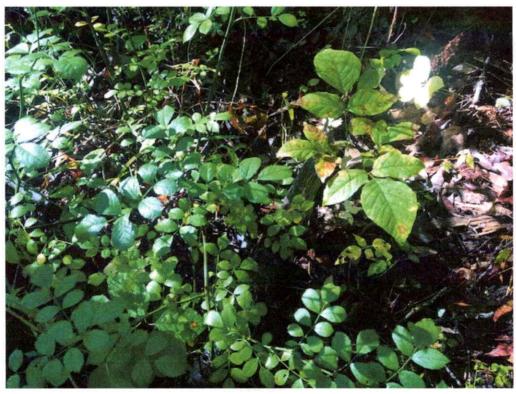
235 & 237 Pondunk Rd.

I examined a depression with some wetland vegetation present and then followed a flow path from it towards the downgradient BVW. The flow path breaks up a short distance from the depression where there is an upland rise. I analyzed a spot within the apparent flow path which was a low area upgradient of the upland rise. The herbaceous layer was mixed. I performed an analysis of the plant community using the DEP wetland delineation data method (see attached). I was unable to auger more than 4 inches into the depression further upgradient that we had identified in the field during the site inspection this morning. I did find an area between the rocks and within the flow path we identified in the field where I was able to auger over 14 inches before hitting rock.

I had found the A horizon plow layer to be about 10 inches thick with a 10 YR3/1 munsel color, and the B horizon to be 10YR 4/4. Then I checked the Soil Web app on my phone and saw the soil to be identified as Woodbridge. The NRCS soil description is comparable to what I had identified. With the A horizon being 10YR3/2 and the B horizon 10YR4/4. The overall vegetation analysis conducted just downgradient of the soil hole also indicates an upland plant community in excess of 50%.. I have included the following photos and descriptions as well as the data sheet for the plot I analyzed.

I also placed pink flagging on the existing wetlands line that corresponds to the numbers shown on the most recently revised plan. The survey crew had incorrectly located flag W26 and had two flags labeled W27. One of those W27 flags, at the stonewall on the property line, has been corrected as W26 on the plan.





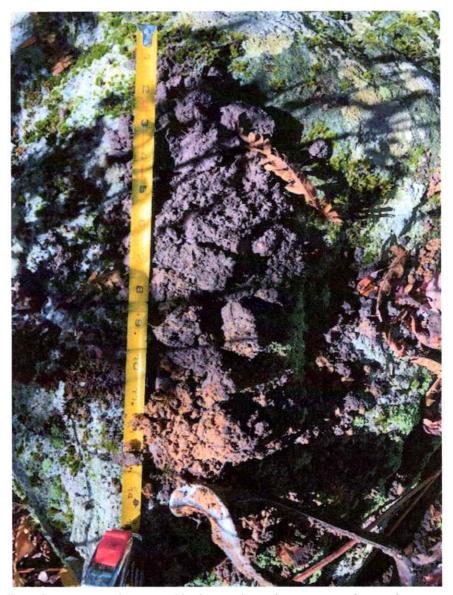
Vegetation along upland rise between the study plot and the wetland line



Pink flags with the original wetland numbering coincide with the recent blue flags as seen on this sugar maple.



Soil augur location chosen along the flow path identified in the field today



I placed the soil sections I augered, as noted in the previous photo, on top of a nearby gray rock The first 10 inches was 10YR3/1, next 4 inches 10YR4/4

Small pockets of wetland vegetation exist within small depressions (pits) in the overall upland plant community. Soil analysis confirms that this area is an upland even while possessing a mixture of wetland and upland plant species. The attached data sheet also indicates that the plant community exceeds 50% upland species.

It is my professional opinion that the wetland delineation is accurate as it is currently flagged and represented on the revised plan dated 9/27/22.

Respectfully submitted,
MaryAnn DiPinto, PWS #227
threeoaksenvironmental@gmail.com



Section I. 235/237 Podunk Rd Sturbridge - data sheet

plot above flag W22	
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Data collected 9/27/22 by Mary Ann DiPinto, Three Oaks Environmental -	
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Vegetation		Observation Plot Number:	lumber:		Transect Number:	Date of Delineation:
A. Sample Layer & Plant Species	ant Species	B. Percent	C. Percent		D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
(by common/scientific name)	name)	Cover (or basal Area)	Dominance	ē.		
Trees:		,				
White ash	Fraxinus americana	mericana	20	43	>	FacU
White Oak	Quercus alba	lba	ដ	6	Z	
Sugar maple	Acer saccharum	harum	8	56	>	FacU
Red Maple	Acer rubrum	8	52	22	>	Fac*
Shrubs						
Sugar maple	Acer saccharum	harum	20	19	>	FacU
Red Oak	Quercus rubra	ıbra	15	14	Z	
Black cherry	Prunus serotina	rotina	വ	ស	Z	
Witch hazel	Hamamelis	Hamamelis virginiana	53	24	>	FacU
Winterberry holly	llex verticillata	llata	52	24	> -	FacW*
Hawthorn	Crataegus	Crataegus monogyna	10	10	Z	
Multiflora rose	Rosa multiflora	iflora	ស	S	Z	
Saplinds						
Sugar maple	Acer saccharum	harum	8	36	>	FacU
Witch hazel	Hamamelis	Hamamelis virginiana	70	36	>	FacU
Ironwood	Ostrya virginiana	jiniana	15	27	>	FacU
Herbaceous:						
Virginia creeper	Parthenoc	Parthenocissus quinquefolia	22	54	>	FacU
Canada goldenrod	Solidago canadensis	anadensis	15	16	Z	
Hayscented fem	Dennstaed	Dennstaedtia punctilobula	15	20	>	FacU
Solomon's seal	Maianthem	Maianthemum recemosum	15	16	Z	
Vegetation conclusion:	lusion:					
Number of dominant wetland indicator plants:	vetland indicat	tor plants: 2		Nur	Number of dominant non-wetland indicator plants:	tor plants: 9
			•	•		

Section II. Indicators of Hydrology Hydric Soil Interpretation

Is the number of dominant wetland plants <u>equal to</u> or greater than the number of dominant non-wetland plants? yes <u>no</u> if vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent

1. Soil Survey
Is there a published soil survey for this site? <u>yes</u> no title/date: NRCS web soil survey online NRCS "Soil Web" Soil type mapped: Woodbridge, fine sandy loam, Are field observations consistent with soil survey? <u>yes</u> no

2. Soil Description. Upland 235-237 Podunk Rd Sturbridge 9/27/22 cont-

	Other Indicators of Hydrology: (check all that apply & describe)	Site Inundated:	Depth to free water in observation hole:	Depth to soil saturation in observation hole:	Mater marke:		Drift lines:	Sediment Deposits:	X Drainage patterns _*overland flow path through upland		Water-stained leaves:		recolded Data (streams, rave, or tida gauge, acita prioto, orien).		Other: .
Color	Othe			٥	L	7	No ON		×		×		×		0
Mottles Color	.0YR 3/2)								29		ă	_X-see note*	12	of Intent.	
Matrix Color	10YR 3/1 (soli survey indicates 10YR 3/2) 10YR 4/4 too rocky at 15"					sion	Yes							Applicability or Notice	
Depth	10YR 3/1 (soli s 10YR 4/4 toc			<u>00</u> sa/		logy Conclu		plants	plants	T.		ydrology prese	*	or Determination of	
De				s soil hydric? ₎		n and Hydro		etland indicator	etland indicator	drology presen	Hydric soil present	Other indicators of hydrology present	tion is in a BV	n with the Request for	
nizon			emarks.	Other: inclusion: Is		Vegetation		Number of w	≥ # of non-we	Netland hyd	Hydr	Othe	Sample loca	Submit this form	
Horizon	Α _p 0-10 B 10-14+	i de la companya de l	Kemarks.	3. Other: Conclusion: Is soil hydric? yes no		Vegetation and Hydrology Conclusion		Number of wetland indicator plants	# of non-wetland indicator plants	Wetland hydrology present:	Hydric soil pr	Other indicat	Sample location is in a BVW	Submit this form with the Request for Determination of Applicability or Notice of Intent.	