

THIS DOCUMENT IS INTENDED FOR GENERAL PLANNING & INFORMATION PURPOSES ONLY. ALL MEASUREMENTS & LOCATIONS ARE APPROXIMATE.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site:	City/County: Weymouth	Sampling Date:05/05/2022
Applicant/Owner:	State	. MA Sampling Point: W1-100
Investigator(s): Paul Mancuso, Conor Gilbertson	Section, Township, Range:	
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):
Subregion (LRR or MLRA): Lat:	Long:	Datum:
Soil Map Unit Name:	NV	VI classification:
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes No (If no, ex	xplain in Remarks.)
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal Circum	stances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	/ problematic? (If needed, explain a	any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No <u></u> No <u></u>	Is the Sampled Area within a Wetland? Yes No ^X
Wetland Hydrology Present?	Yes	No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procee Upland plot. Data taken o		,	

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living I	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Sc	pils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes <u>No x</u> Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No X
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	
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VEGETATION – Use scientific names of plants.

Sampling Point: _____

	Absolute		t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	<u>Status</u> FAC	Number of Dominant Species
1. Acer rubrum (red maple)	25	Yes		That Are OBL, FACW, or FAC: (A)
2. Pinus strobus (eastern white pine)	30	Yes	FACU	Total Number of Dominant
3. Quercus rubra (red oak) Ulmus spp (Elm tree)	15 5	Yes No	FACU FACU	Species Across All Strata: (B)
4		INO	TACO	Percent of Dominant Species
5. Fagus grandifolia (American beech)	5	No	FACU	That Are OBL, FACW, or FAC: (A/B)
6			. <u> </u>	Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
	80	= Total Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
				UPL species x 5 =
3				Column Totals: (A) (B)
4 5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
		= Total Co	over	3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size:)				4 - Morphological Adaptations ¹ (Provide supporting
1. Artemisia spp (Mugwort)	10	No	FACU	data in Remarks or on a separate sheet)
2. Solanaceae spp (Nightshade)	10		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Pteridium spp (Bracken fern)	10	No	FACU	¹ Indicators of hydric soil and wetland hydrology must
4. Maianthemum canadense (Canada mayflower)	25	Yes	FACU	be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				
9				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
12				height.
		= Total Co	over	
Woody Vine Stratum (Plot size:)				
1				
2		·		
3				Hydrophytic
4			<u> </u>	Vegetation Present? Yes No ^X
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			

Depth	Matrix		Redo	x Feature	\$				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	;
0"-5"	10 YR 2/2								
5"-12"	10 YR 4/4								
				·					
	oncentration, D=Deplet	tion, RM=I	Reduced Matrix, M	S=Masked	Sand Gra	ains.		Pore Lining, M=M	
Black H Hydroge Stratifie Deplete Sandy N Sandy C Sandy F Stripped Dark Su	(A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface (ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Inface (S7) (LRR R, ML	- - RA 149B)) ace (S9) (I Matrix (F2 < (F3) rface (F6) Surface (F6) sions (F8)	.RR R, MI) (LRR K) 7)	LRA 149B; , L)	 Coast Prairie 5 cm Mucky I Dark Surface Polyvalue Be Thin Dark Su Iron-Mangan Piedmont Flo Mesic Spodio Red Parent N Very Shallow Other (Explain 	A10) (LRR K, L, M Redox (A16) (LR Peat or Peat (S3) (S7) (LRR K, L) low Surface (S8) rface (S9) (LRR I ese Masses (F12 odplain Soils (F1 c (TA6) (MLRA 14	MLRA 149B) R K, L, R) (LRR K, L, R) (LRR K, L) K, L)) (LRR K, L, R) 9) (MLRA 149B) 14A, 145, 149B)
Туре:	Layer (if observed):						Hydric Soil Prese	nt? Voc	No X
Depth (in Remarks:	ches):						Hydric Soli Prese	nt? fes	NO <u>^</u>

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Weymouth SNUP	City/County: Weymouth		Sampling Date: 05/05/2022
Applicant/Owner:		State: MA	_ Sampling Point: <u>W1-100</u>
Investigator(s): Paul Mancuso, Conor Gilbertson	Section, Township, Range:		
Landform (hillslope, terrace, etc.):	Local relief (concave, convex,	none):	Slope (%):
Subregion (LRR or MLRA): Lat: 42.192147	Long:	-70.944716	Datum:
Soil Map Unit Name:		NWI classifica	ation:
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes No	(If no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Non	mal Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology naturally	v problematic? (If neede	d, explain any answer	s in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>x</u> No Yes <u>x</u> No Yes <u>x</u> No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative proce	dures here or in a separate report.)	
W1-100 was originally a sedime	entation basin. This area still receive	s water from Old Swamp River.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
<u>x</u> Surface Water (A1) <u>x</u> Water-Stained Leaves (B9)	<u>×</u> Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living F	Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled So	ils (C6) <u>X</u> Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes x No Depth (inches):	
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes X No
Saturation Present? Yes <u>No</u> Depth (inches): (includes capillary fringe)	· · · · · · · · · · · · · · · · · · ·
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VEGETATION – Use scientific names of plants.

Sampling Point: _____

Tree Stratum (Plot size:)	Absolute		Indicator	Dominance Test worksheet:
	<u>% Cover</u> 65	<u>Species?</u> Yes	FAC	Number of Dominant Species 2
			·	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant 2
3				Species Across All Strata: (B)
4			·	Percent of Dominant Species That Are OBL EACW or EAC: 100 (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	65	= Total Co	ver	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				
6			·	Hydrophytic Vegetation Indicators:
7			·	1 - Rapid Test for Hydrophytic Vegetation
		= Total Co	ver	2 - Dominance Test is >50%
Herb Stratum (Plot size:)				3 - Prevalence Index is <3.0 ¹
1. <u>Carex spp (sedges)</u>	20	Yes	FACW	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3.				
				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7			·	at breast height (DBH), regardless of height.
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9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	20	= Total Co	ver	height.
Woody Vine Stratum (Plot size:)				
1				
2				
3			·	Hydrophytic Vegetation
4				Present? Yes <u>×</u> No
		= Total Co	ver	
Remarks: (Include photo numbers here or on a separate	sheet.)			

SOI	
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2"-12" 1 12"+ 12"+ ype: C=Conc ype: C=Conc ydric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped Mic Dark Surfac	dicators: (1) edon (A2) c (A3) Sulfide (A4) ayers (A5) Below Dark Surface Surface (A12) cky Mineral (S1) yed Matrix (S4)		Color (moist) 7.5 YR 4/6 7.5 YR 4/6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ow Surface 3) face (S9) (I Mineral (F d Matrix (F2 ix (F3)	(S8) (LR _RR R, M 1) (LRR K	R R, LRA 149B)	Indicators fo 2 cm Mu Coast Pr 5 cm Mu Dark Sur	Remarks Stone refusal PL=Pore Lining, M=Matrix. pr Problematic Hydric Soils ³ : Ick (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) Icky Peat or Peat (S3) (LRR K, L, R) Icky Peat or Peat (S3) (LRR K, L, R) Icky Peat or Peat (S3) (LRR K, L, R) Icky Peat or Peat (S3) (LRR K, L) Icky Peat or Peat (S3) (LRR K, L)
2"-12" 1 12"+	centration, D=Depl dicators: (1) edon (A2) c (A3) Sulfide (A4) ayers (A5) Below Dark Surface Surface (A12) cky Mineral (S1) yed Matrix (S4)		=Reduced Matrix, M Polyvalue Belo MLRA 149E Thin Dark Suff Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su	MS=Masked by Surface a) face (S9) (I Mineral (F Matrix (F2 ix (F3)	(S8) (LR _RR R, M 1) (LRR K	R R, LRA 149B)	Indicators fo 2 cm Mu Coast Pr 5 cm Mu Dark Sur	PL=Pore Lining, M=Matrix. pr Problematic Hydric Soils ³ : lick (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) licky Peat or Peat (S3) (LRR K, L, R) rface (S7) (LRR K, L) le Below Surface (S8) (LRR K, L)
12"+	centration, D=Depl dicators: 1) edon (A2) c (A3) Sulfide (A4) ayers (A5) Selow Dark Surface Surface (A12) cky Mineral (S1) yed Matrix (S4)		=Reduced Matrix, M Polyvalue Belo MLRA 149E Thin Dark Suff Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su	MS=Masked by Surface a) face (S9) (I Mineral (F Matrix (F2 ix (F3)	(S8) (LR _RR R, M 1) (LRR K	R R, LRA 149B)	Indicators fo 2 cm Mu Coast Pr 5 cm Mu Dark Sur	PL=Pore Lining, M=Matrix. pr Problematic Hydric Soils ³ : lick (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) licky Peat or Peat (S3) (LRR K, L, R) rface (S7) (LRR K, L) le Below Surface (S8) (LRR K, L)
ype: C=Conc dric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped Ma Dark Surfac	dicators: (1) edon (A2) c (A3) Sulfide (A4) ayers (A5) Below Dark Surface Surface (A12) cky Mineral (S1) yed Matrix (S4)		Polyvalue Belo MLRA 149E Thin Dark Surf Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su	ow Surface 3) face (S9) (I Mineral (F d Matrix (F2 ix (F3)	(S8) (LR _RR R, M 1) (LRR K	R R, LRA 149B)	Indicators fo 2 cm Mu Coast Pr 5 cm Mu Dark Sur	PL=Pore Lining, M=Matrix. pr Problematic Hydric Soils ³ : lick (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) licky Peat or Peat (S3) (LRR K, L, R) rface (S7) (LRR K, L) le Below Surface (S8) (LRR K, L)
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dric Soil Ind Histosol (A Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped Mic Dark Surfac	dicators: (1) edon (A2) c (A3) Sulfide (A4) ayers (A5) Below Dark Surface Surface (A12) cky Mineral (S1) yed Matrix (S4)		Polyvalue Belo MLRA 149E Thin Dark Surf Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su	ow Surface 3) face (S9) (I Mineral (F d Matrix (F2 ix (F3)	(S8) (LR _RR R, M 1) (LRR K	R R, LRA 149B)	Indicators fo 2 cm Mu Coast Pr 5 cm Mu Dark Sur	or Problematic Hydric Soils ³ : nck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) ncky Peat or Peat (S3) (LRR K, L, R rface (S7) (LRR K, L) le Below Surface (S8) (LRR K, L)
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Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark Sandy Muc Sandy Gley Sandy Red Stripped Ma Dark Surfac	edon (A2) c (A3) Sulfide (A4) ayers (A5) Selow Dark Surface Surface (A12) cky Mineral (S1) yed Matrix (S4)	e (A11)	MLRA 149E Thin Dark Surf Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su	3) face (S9) (I Mineral (F [.] Matrix (F2 ix (F3)	-RR R, M 1) (LRR K)	LRA 149B)	Coast Pr 5 cm Mu Dark Sur	rairie Redox (A16) (LRR K, L, R) icky Peat or Peat (S3) (LRR K, L, R rface (S7) (LRR K, L) e Below Surface (S8) (LRR K, L)
		1LRA 1498	Redox Depres	ssions (F8)			Iron-Mar Piedmon Mesic Sp Red Pare Very Sha	rk Surface (S9) (LRR K, L) nganese Masses (F12) (LRR K, L, F nt Floodplain Soils (F19) (MLRA 149 podic (TA6) (MLRA 144A, 145, 149 ent Material (F21) allow Dark Surface (TF12) xplain in Remarks)
	ydrophytic vegetat yer (if observed):		etland hydrology mu	ust be prese	ent, unles	s disturbed	or problematic.	
Type: <u>stor</u>								
Depth (inche	es): <u>12"+</u>						Hydric Soil P	resent? Yes <u>×</u> No
emarks:								
Mucky sedime	ent							



Photo 1: View of the Old Swamp River from Libbey Industrial Parkway. Facing south



Photo 2: View of the Old Swamp River. Facing north

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Photo 3: View of wetland W1-100. This was initially created as a sedimentation basin. *Facing west*



Photo 4: View of the hydrologic connected between W1-100 and W2-100. Facing north

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Photo 5: View of W2-100. Facing west



Photo 6: View of the 6' high chain link fence around W3-100. This was initially created as a nutrient retention basin. *Facing south*

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Photo 7: View of W4-100. Facing south



Photo 8: View of W5-100. Facing northeast

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