

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Hubbard Sampling Date: 6/13/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: HUC5107_200b1U
 Investigator(s): EAB/RAJ Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Side slope Local relief (concave, convex, none): VV
 Slope (%): 3 - 7% Lat.: 46.933954 Long.: -95.141297 Datum: _____
 Soil Map Unit Name: 260 NWI Classification: _____
 Are climatic/hydrologic conditions of the site typical for this time of the year? ☒ (If no, explain in remarks)
 Are vegetation ☐, soil ☐, or hydrology ☐ significantly disturbed? Are "normal
 Are vegetation ☐, soil ☐, or hydrology ☐ naturally problematic? circumstances" present? ☒
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Y</u> Hydric soil present? <u>N</u> Indicators of wetland hydrology present? <u>N</u>	Is the sampled area within a wetland? <u>N</u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The sample site is located within a stand of young quaking aspen at the interface of the wetland and a pine/oak forest.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15) ☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Presence of Reduced Iron (C4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Thin Muck Surface (C7) ☐ Other (Explain in Remarks)		Secondary Indicators (minimum of two required) ☐ Surface Soil Cracks (B6) ☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16) ☐ Dry-Season Water Table (C2) ☐ Crayfish Burrows (C8) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2) ☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4) ☐ FAC-Neutral Test (D5)
Field Observations: Surface water present? Yes ☐ Depth (inches): _____ Water table present? Yes ☐ Depth (inches): _____ Saturation present? Yes ☐ Depth (inches): _____ (includes capillary fringe)	Indicators of wetland hydrology present? <u>N</u>	
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: No indicators of wetland hydrology observed.		

VEGETATION - Use scientific names of plants
Sampling Point:

HUC5107_200b1U

Tree Stratum					Plot Size (30 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Populus tremuloides</i>		20	Y	FAC				
2	<i>Quercus alba</i>		15	Y	FACU				
3	<i>Pinus banksiana</i>		5	N	FACU				
4	<i>Pinus resinosa</i>		5	N	FACU				
5									
6									
7									
8									
9									
10									
			45	= Total Cover					

Sapling/Shrub Stratum					Plot Size (15 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Populus tremuloides</i>		40	Y	FAC				
2	<i>Corylus cornuta</i>		10	N	FACU				
3	<i>Crataegus chrysocarpa</i>		10	N	NI				
4									
5									
6									
7									
8									
9									
10									
			60	= Total Cover					

Herb Stratum					Plot Size (5 ft)		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Carex pensylvanica</i>		50	Y	NI				
2	<i>Rubus idaeus</i>		30	Y	FAC				
3	<i>Corylus cornuta</i>		15	N	FACU				
4	<i>Athyrium filix-femina</i>		10	N	FAC				
5	<i>Osmorhiza longistylis</i>		5	N	FACU				
6	<i>Uvularia sessilifolia</i>		5	N	FACU				
7	<i>Galium triflorum</i>		1	N	FACU				
8									
9									
10									
11									
12									
13									
14									
15									
			116	= Total Cover					

Woody Vine Stratum					Plot Size (30 ft)		Absolute % Cover	Dominant Species	Indicator Status
1									
2									
3									
4									
5									
			0	= Total Cover					

50/20 Thresholds

	20%	50%
Tree Stratum	9	23
Sapling/Shrub Stratum	12	30
Herb Stratum	23	58
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 5 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 60.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	<u>0</u> x 1 =	<u>0</u>
FACW species	<u>0</u> x 2 =	<u>0</u>
FAC species	<u>100</u> x 3 =	<u>300</u>
FACU species	<u>61</u> x 4 =	<u>244</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>161</u> (A)	<u>544</u> (B)
Prevalence Index = B/A =		<u>3.38</u>

Hydrophytic Vegetation Indicators:

☐ Rapid test for hydrophytic vegetation

☒ Dominance test is >50%

☐ Prevalence index is ≤3.0*

☐ Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)

☐ Problematic hydrophytic vegetation* (explain)

*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic vegetation present? Y

Remarks: (Include photo numbers here or on a separate sheet)

The vegetation is dominated by quaking aspen and Pennsylvania sedge.

SOIL

Sampling Point: HUC5107 200b1U

[illegible]