

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Hubbard Sampling Date: 6/17/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: HUC5072_300f1U
 Investigator(s): BEH/BCS Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Side slope Local relief (concave, convex, none): LV
 Slope (%): 3 - 7% Lat.: 47.0582963 Long.: -95.14797164 Datum: _____
 Soil Map Unit Name: 526C 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>N</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 point is located in a jack pine forest upslope from a large shrub-dominated wetland. Hazelnut species dominate the shrub layer and large-leaf aster covers the ground.	

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 ☐ Water table present? Yes ☐ Saturation present? Yes ☒ (includes capillary fringe)	Depth (inches): _____ Depth (inches): _____ Depth (inches): <u>17</u> Indicators of wetland hydrology present? <u>N</u>	
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: No primary or secondary hydrological indicators are observed.		

VEGETATION - Use scientific names of plants
Sampling Point:

HUC5072_300f1U

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

Sapling/Shrub Stratum				Plot Size (15 ft)		Absolute % Cover	Dominant Species	Indicator Status
1		<i>Corylus americana</i>			15	Y	FACU	
2		<i>Corylus cornuta</i>			10	Y	FACU	
3		<i>Prunus virginiana</i>			10	Y	FACU	
4		<i>Acer negundo</i>			5	N	FAC	
5		<i>Populus tremuloides</i>			5	N	FAC	
6		<i>Salix bebbiana</i>			5	N	FACW	
7								
8								
9								
10								
					50	= Total Cover		

Herb Stratum				Plot Size (5 ft)		Absolute % Cover	Dominant Species	Indicator Status
1		<i>Eurybia macrophylla</i>			45	Y	UPL	
2		<i>Carex pensylvanica</i>			15	Y	NI	
3		<i>Rubus idaeus</i>			5	N	FAC	
4		<i>Rosa arkansana</i>			5	N	FACU	
5		<i>Corylus americana</i>			5	N	FACU	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
					75	= 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	12	30
Sapling/Shrub Stratum	10	25
Herb Stratum	15	38
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across all Strata: 6 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	<u>0</u>	x 1 =	<u>0</u>
FACW species	<u>5</u>	x 2 =	<u>10</u>
FAC species	<u>20</u>	x 3 =	<u>60</u>
FACU species	<u>100</u>	x 4 =	<u>400</u>
UPL species	<u>45</u>	x 5 =	<u>225</u>
Column totals	<u>170</u> (A)		<u>695</u> (B)
Prevalence Index = B/A = <u>4.09</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? N

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

The site is dominated by jack pine and northern red oak trees. The shrub layer is dense with American hazelnut, beaked hazelnut, and chokecherry. The ground is covered by large-leaf aster and Pennsylvania sedge.

SOIL

Sampling Point: HUC5072_300f1U

[illegible]