

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 6/3/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CLC5078g1W
 Investigator(s): EAB/RAJ Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none) CC
 Slope (%): 0 - 2% Lat.: 47.397894 Long.: -95.254263 Datum: _____
 Soil Map Unit Name: 40B NWI Classification: PEMC
 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 circumstances" present?
 Are vegetation , soil , or hydrology naturally problematic?
 (If needed, explain any answers in remarks)

SUMMARY OF FINDINGS

Hydrophytic vegetation present? <u>Y</u> Hydric soil present? <u>Y</u> Indicators of wetland hydrology present? <u>Y</u>	Is the sampled area within a wetland? <u>Y</u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a shallow marsh located in a depression amidst mesic hardwoods. Lake sedge and open water provide most of the community cover.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)	Field Observations: Surface water present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>4</u> Water table present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>0</u> Saturation present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>0</u> (includes capillary fringe)
Indicators of wetland hydrology present? <u>Y</u>		
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Surface water is present throughout the wetland.		

VEGETATION - Use scientific names of plants

Sampling Point:

CLC5078g1W

Tree Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (30 ft)											
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
			0 = Total Cover								
Sapling/Shrub Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (15 ft)											
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
			0 = Total Cover								
Herb Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (5 ft)											
1	<i>Phalaris arundinacea</i>		20			Y			FACW		
2	<i>Carex lacustris</i>		15			Y			OBL		
3	<i>Equisetum fluviatile</i>		5			N			OBL		
4	<i>Thelypteris palustris</i>		5			N			FACW		
5	<i>Iris versicolor</i>		5			N			OBL		
6	<i>Stachys pilosa</i>		1			N			FACW		
7											
8											
9											
10											
11											
12											
13											
14											
15											
			51 = Total Cover								
Woody Vine Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (30 ft)											
1											
2											
3											
4											
5											
			0 = Total Cover								

50/20 Thresholds

	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	0	0
Herb Stratum	10	26
Woody Vine Stratum	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	25	x 1 =	<u>25</u>
FACW species	26	x 2 =	<u>52</u>
FAC species	0	x 3 =	<u>0</u>
FACU species	0	x 4 =	<u>0</u>
UPL species	0	x 5 =	<u>0</u>
Column totals	<u>51</u> (A)		<u>77</u> (B)
Prevalence Index = B/A =	<u>1.51</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 reed canary grass and lake sedge.

