

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 6/4/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CLC5080c4W
 Investigator(s): EAB/RAJ Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none) CL
 Slope (%): 0 - 2% Lat.: 47.394979 Long.: -95.251539 Datum: _____
 Soil Map Unit Name: 40B 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 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.) This forest community is located between a shallow marsh and an alder thicket within a larger wetland complex. Vegetation at the sample point is not strongly hydrophytic, but soils are hydric and the landscape is depressional, sloping from the marsh down to the thicket. Best professional judgment determines this strip of forest to be a	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input checked="" 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 type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface water present? Yes <input type="checkbox"/> Water table present? Yes <input checked="" type="checkbox"/> Saturation present? Yes <input checked="" type="checkbox"/> (includes capillary fringe)	Depth (inches): _____ Depth (inches): <u>7</u> Depth (inches): <u>1</u>	Indicators of wetland hydrology present? <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Saturated soils, a high water table, moss lines and depressional geomorphology all indicate wetland hydrology.		

VEGETATION - Use scientific names of plants

Sampling Point:

CLC5080c4W

Tree Stratum		Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Quercus macrocarpa</i>		60	Y	FACU
2					
3					
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>Ostrya virginiana</i>		20	Y	FACU
2	<i>Populus tremuloides</i>		10	Y	FAC
3	<i>Corylus cornuta</i>		10	Y	FACU
4	<i>Cornus racemosa</i>		5	N	FAC
5	<i>Salix discolor</i>		5	N	FACW
6					
7					
8					
9					
10					
			50	=	Total Cover

Herb Stratum		Plot Size (5 ft)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Corylus cornuta</i>		40	Y	FACU
2	<i>Carex pensylvanica</i>		30	Y	NI
3	<i>Pteridium aquilinum</i>		20	N	FACU
4	<i>Luzula acuminata</i>		15	N	FACU
5	<i>Prunus virginiana</i>		10	N	FACU
6	<i>Thalictrum dioicum</i>		5	N	FACU
7	<i>Eurybia macrophylla</i>		5	N	UPL
8	<i>Aralia nudicaulis</i>		5	N	FACU
9	<i>Rubus pubescens</i>		1	N	FACW
10	<i>Galium boreale</i>		1	N	FAC
11	<i>Trillium cernuum</i>		1	N	FAC
12					
13					
14					
15					
			133	=	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

Tree Stratum	20%	50%
Sapling/Shrub Stratum	12	30
Herb Stratum	10	25
Woody Vine Stratum	27	67
	0	0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

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

Percent of Dominant Species that are OBL, FACW, or FAC: 16.67% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	0	x 1 =	0	
FACW species	6	x 2 =	12	
FAC species	17	x 3 =	51	
FACU species	185	x 4 =	740	
UPL species	5	x 5 =	25	
Column totals	213	(A)	828	(B)
Prevalence Index = B/A =	<u>3.89</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 mostly facultative upland species but some facultative wetland species are present as well. Hydric soil and wetland hydrology indicate that the area is a wetland despite not being dominated by hydrophytic vegetation.

