

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 5/23/2014
 Applicant/Owner: Enbridge State: MN Sampling Point CLC5012b1W
 Investigator(s): RAJ/EAB/BCS/BEH Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CC
 Slope (%): 0 - 2% Lat.: 47.63786117 Long.: -95.40056483 Datum: WGS84
 Soil Map Unit Name: 718B NWI Classification: PSS1c
 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>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 sample point is located in a shrub swamp community dominated by <i>Salix petiolaris</i> , <i>Alnus incana</i> , and <i>Carex lacustris</i> .	

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 <input type="checkbox"/> Drift Deposits (B3) Living Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled <input type="checkbox"/> Inundation Visible on Aerial Soils (C6) Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Sparsely Vegetated Concave <input type="checkbox"/> Other (Explain in Remarks) 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 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 checked="" type="checkbox"/> Depth (inches): <u>3</u> Water table present? Yes <input checked="" type="checkbox"/> Depth (inches): _____ Saturation present? Yes <input checked="" type="checkbox"/> Depth (inches): _____ (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: Standing water is present throughout the community and ranges from 2 inches to 18 inches in depth.	

VEGETATION - Use scientific names of plants

Sampling Point: CLC5012b1W

Tree Stratum	Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status																	
1					50/20 Thresholds <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: right;">20%</td> <td style="text-align: right;">50%</td> </tr> <tr> <td>Tree Stratum</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> </tr> <tr> <td>Sapling/Shrub Stratum</td> <td style="text-align: right;">15</td> <td style="text-align: right;">38</td> </tr> <tr> <td>Herb Stratum</td> <td style="text-align: right;">6</td> <td style="text-align: right;">16</td> </tr> <tr> <td>Woody Vine Stratum</td> <td style="text-align: right;">0</td> <td style="text-align: right;">0</td> </tr> </table>			20%	50%	Tree Stratum	0	0	Sapling/Shrub Stratum	15	38	Herb Stratum	6	16	Woody Vine Stratum	0	0
	20%	50%																			
Tree Stratum	0	0																			
Sapling/Shrub Stratum	15	38																			
Herb Stratum	6	16																			
Woody Vine Stratum	0	0																			
2																					
3																					
4																					
5																					
6					Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across all Strata: <u>5</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)																
7																					
8																					
9																					
10																					
		<u>0</u> = Total Cover																			
Sapling/Shrub Stratum	Plot Size (15 ft)	Absolute % Cover	Dominant Species	Indicator Status																	
1	<i>Salix petiolaris</i>	55	Y	FACW	Prevalence Index Worksheet Total % Cover of: OBL species $\frac{27}{80} \times 1 = \frac{27}{80}$ FACW species $\frac{80}{80} \times 2 = \frac{160}{80}$ FAC species $\frac{0}{80} \times 3 = \frac{0}{80}$ FACU species $\frac{0}{80} \times 4 = \frac{0}{80}$ UPL species $\frac{0}{80} \times 5 = \frac{0}{80}$ Column totals <u>107</u> (A) <u>187</u> (B) Prevalence Index = B/A = <u>1.75</u>																
2	<i>Alnus incana</i>	20	Y	FACW																	
3																					
4																					
5																					
6					Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid test for hydrophytic vegetation <input checked="" type="checkbox"/> Dominance test is >50% <input checked="" type="checkbox"/> 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																
7																					
8																					
9																					
10																					
		<u>75</u> = Total Cover																			
Herb Stratum	Plot Size (5 ft)	Absolute % Cover	Dominant Species	Indicator Status																	
1	<i>Carex lacustris</i>	15	Y	OBL	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.																
2	<i>Caltha palustris</i>	5	Y	OBL																	
3	<i>Rubus pubescens</i>	5	Y	FACW																	
4	<i>Iris versicolor</i>	3	N	OBL																	
5	<i>Equisetum fluviatile</i>	3	N	OBL																	
6	<i>Ribes triste</i>	1	N	OBL																	
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
		<u>32</u> = Total Cover																			
Woody Vine Stratum	Plot Size (30)	Absolute % Cover	Dominant Species	Indicator Status																	
1					Hydrophytic vegetation present? <u>Y</u>																
2																					
3																					
4																					
5																					
		<u>0</u> = Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet)
 The willow-dominated community contains scattered alder with lake sedge and open water.

