

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 5/22/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point CLC5007e1W  
 Investigator(s): BCS/EAB/RAJ Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): CC  
 Slope (%): 0 - 2% Lat.: 47.6547013 Long.: -95.4061798 Datum: \_\_\_\_\_  
 Soil Map Unit Name: 718C 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>Y</u> Indicators of wetland hydrology present? <u>Y</u>	<b>Is the sampled area within a wetland?</b> <u>Y</u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a willow-dominated scrub-shrub community in a small basin which drains through a culvert under the road. A portion of the wetland was previously cleared of woody vegetation during powerline construction.	

### HYDROLOGY

<b>Primary Indicators</b> (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)	<b>Secondary Indicators</b> (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)
<b>Field Observations:</b> Surface water present? Yes <input type="checkbox"/> Depth (inches): _____ Water table present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>11</u> Saturation present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>6</u> (includes capillary fringe)		<b>Indicators of wetland hydrology present?</b> <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Surface water is present nearby in the lower elevations of the depression.		

**VEGETATION** - Use scientific names of plants

Sampling Point:

CLC5007e1W

Tree Stratum	Plot Size ( 30 ft )	Absolute % Cover	Dominant Species	Indicator Status																	
1					<b>50/20 Thresholds</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"></td> <td style="width:25%;">20%</td> <td style="width:25%;">50%</td> </tr> <tr> <td>Tree Stratum</td> <td style="text-align:center;">0</td> <td style="text-align:center;">0</td> </tr> <tr> <td>Sapling/Shrub Stratum</td> <td style="text-align:center;">6</td> <td style="text-align:center;">15</td> </tr> <tr> <td>Herb Stratum</td> <td style="text-align:center;">15</td> <td style="text-align:center;">38</td> </tr> <tr> <td>Woody Vine Stratum</td> <td style="text-align:center;">0</td> <td style="text-align:center;">0</td> </tr> </table>			20%	50%	Tree Stratum	0	0	Sapling/Shrub Stratum	6	15	Herb Stratum	15	38	Woody Vine Stratum	0	0
	20%	50%																			
Tree Stratum	0	0																			
Sapling/Shrub Stratum	6	15																			
Herb Stratum	15	38																			
Woody Vine Stratum	0	0																			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10		0	= Total Cover		<b>Dominance Test Worksheet</b> Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across all Strata: <u>3</u> (B)  Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)																
Sapling/Shrub Stratum	Plot Size ( 15 ft )	Absolute % Cover	Dominant Species	Indicator Status																	
1	<i>Salix discolor</i>	30	Y	FACW																	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10		30	= Total Cover		<b>Prevalence Index Worksheet</b> Total % Cover of: OBL species <u>31</u> x 1 = <u>31</u> FACW species <u>60</u> x 2 = <u>120</u> FAC species <u>15</u> x 3 = <u>45</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column totals <u>106</u> (A) <u>196</u> (B) Prevalence Index = B/A = <u>1.85</u>																
Herb Stratum	Plot Size ( 5 ft )	Absolute % Cover	Dominant Species	Indicator Status																	
1	<i>Phalaris arundinacea</i>	30	Y	FACW																	
2	<i>Calamagrostis canadensis</i>	25	Y	OBL																	
3	<i>Rubus idaeus</i>	15	N	FAC																	
4	<i>Carex lacustris</i>	5	N	OBL																	
5	<i>Iris versicolor</i>	1	N	OBL																	
6																					
7																					
8																					
9																					
10					<b>Hydrophytic Vegetation Indicators:</b> <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																
11																					
12																					
13																					
14																					
15																					
15		76	= Total Cover				<b>Definitions of Vegetation Strata:</b> <b>Tree</b> - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> - All woody vines greater than 3.28 ft in height.														
Woody Vine Stratum	Plot Size ( 30 ft )	Absolute % Cover	Dominant Species	Indicator Status																	
1																					
2																					
3																					
4																					
5																					
5		0	= Total Cover		<b>Hydrophytic vegetation present?</b> <u>Y</u>																
Remarks: (Include photo numbers here or on a separate sheet) The Shrub-Carr community is dominated by willows with reed canary grass in the herbaceous layer. The woody vegetation within the powerline corridor was previously cleared.																					

