

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 5/20/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point CR132a1W  
 Investigator(s): KJA/KRG Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CC  
 Slope (%): 0 - 2% Lat.: 46.610382 Long.: -92.385872 Datum: WGS84  
 Soil Map Unit Name: 188 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 sample point is located in a small, depressional wetland in an open field near an existing pipeline corridor. The soils show signs of disturbance resulting from pipeline construction activities.	

### 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 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"/> Water table present? Yes <input checked="" type="checkbox"/> Saturation present? Yes <input type="checkbox"/> (includes capillary fringe)	Depth (inches): _____ Depth (inches): <u>4</u> Depth (inches): _____	<b>Indicators of wetland hydrology present?</b> <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: A high water table was observed at 4 inches. Shallow standing water is present in other parts of the wetland.		

**VEGETATION** - Use scientific names of plants

**Sampling Point:** CR132a1W

Tree Stratum					Plot Size ( 30 ft )		Absolute % Cover	Dominant Species	Indicator Status
1									
2									
3									
4									
5									
6									
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>					15			
2									
3									
4									
5									
6									
7									
8									
9									
10									
						<u>15</u>	= Total Cover		
Herb Stratum					Plot Size ( 5 ft )		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Calamagrostis canadensis</i>					60			
2	<i>Phalaris arundinacea</i>					20	Y	FACW	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
						<u>80</u>	= Total Cover		
Woody Vine Stratum					Plot Size ( 30 ft )		Absolute % Cover	Dominant Species	Indicator Status
1									
2									
3									
4									
5									
						<u>0</u>	= Total Cover		

  

<b>50/20 Thresholds</b>		20%	50%
Tree Stratum		0	0
Sapling/Shrub Stratum		3	8
Herb Stratum		16	40
Woody Vine Stratum		0	0

  

<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)	

  

<b>Prevalence Index Worksheet</b>	
Total % Cover of:	
OBL species	$\frac{60}{35} \times 1 = \frac{60}{70}$
FACW species	$\frac{35}{0} \times 2 = \frac{70}{0}$
FAC species	$\frac{0}{0} \times 3 = \frac{0}{0}$
FACU species	$\frac{0}{0} \times 4 = \frac{0}{0}$
UPL species	$\frac{0}{95} \times 5 = \frac{0}{130}$
Column totals	<u>95</u> (A) <u>130</u> (B)
Prevalence Index = B/A = <u>1.37</u>	

  

<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)	
<input type="checkbox"/> Problematic hydrophytic vegetation* (explain)	
*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	

  

<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.	

  

<b>Hydrophytic vegetation present?</b>	<u>Y</u>
--	----------

  

Remarks: (Include photo numbers here or on a separate sheet)  
 The wet meadow community is dominated by Canada bluejoint and reed canary grass.

