

**WETLAND DETERMINATION DATA FORM - North Central and Northeast Region**

Project/Site: SPP City/County: Carlton Sampling Date: 2016-07-18  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-47n18w2-aa1  
 Investigator(s): ZCW Section, Township, Range: S 2, T 47N, R 18W  
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2%  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 46.5863229521... Longitude: -92.58267408... Datum: NAD83  
 Soil Map Unit Name: 268B NWI Classification: N/A  
 Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	<u>Yes</u>	<b>Is the Sampled Area within a Wetland?</b>	
Hydric Soil Present?	<u>Yes</u>		<u>Yes</u>
Wetland Hydrology Present?	<u>Yes</u>		If yes, optional Wetland Site ID: <u>w-47n18w2-aa</u>
Remarks: (Explain alternative procedures here or in a separate report.)			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	<b>Secondary Indicators (minimum of two required)</b>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	
<u>yes</u> Surface Water (A1)	<u>      </u> Surface Soil Cracks (B6)
<u>      </u> High Water Table (A2)	<u>      </u> Drainage Patterns (B10)
<u>      </u> Saturation (A3)	<u>      </u> Moss Trim Lines (B16)
<u>      </u> Water Marks (B1)	<u>      </u> Dry-Season Water Table (C2)
<u>      </u> Sediment Deposits (B2)	<u>      </u> Crayfish Burrows (C8)
<u>      </u> Drift Deposits (B3)	<u>      </u> Saturation Visible on Aerial Imagery (C9)
<u>      </u> Algal Mat or Crust (B4)	<u>      </u> Stunted/Stressed Plants (D1)
<u>      </u> Iron Deposits (B5)	<u>      </u> <u>YES</u> Geomorphic Position (D2)
<u>      </u> Inundation Visible on Aerial Imagery (B7)	<u>      </u> <u>NO</u> Shallow Aquitard (D3)
<u>      </u> Sparsely Vegetated Concave Surface (B8)	<u>      </u> Microtopographic Relief (D4)
<u>      </u> Water-Stained Leaves (B9)	<u>      </u> <u>YES</u> FAC-Neutral Test (D5)
<u>      </u> Aquatic Fauna (B13)	
<u>      </u> Marl Deposits (B15)	
<u>      </u> Hydrogen Sulfide Odor (C1)	
<u>      </u> Oxidized Rhizospheres on Living Roots (C3)	
<u>      </u> Presence of Reduced Iron (C4)	
<u>      </u> Recent Iron Reduction in Tilled Soils (C6)	
<u>      </u> Thin Muck Surface (C7)	
<u>      </u> Other (Explain in Remarks)	

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	<u>Yes</u>
Surface Water Present?	<u>Yes</u>	Depth (inches)	<u>2</u>
Water Table Present?	<u>Yes</u>	Depth (inches)	<u>0</u>
Saturation Present? (includes capillary fringe)	<u>Yes</u>	Depth (inches)	<u>0</u>

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:





Site Photograph 1

Sampling Point: w-47n18w2-aa1



Latitude: 46.5863244608478

Cowardin Classification: PEM

Longitude: -92.5826246292261

Circular 39: 1

Direction: North

Eggers & Reed: Seasonally Flooded Basin

Remarks:

Site Photograph 2

Sampling Point: w-47n18w2-aa1



Latitude: 46.5863247542145

Cowardin Classification: PEM

Longitude: -92.5826245454071

Circular 39: 1

Direction: East

Eggers & Reed: Seasonally Flooded Basin

Remarks: