

**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

**Project/Site:** RSA 22 **City/County:** Aitkin **Sampling Date:** 23-Aug-17  
**Applicant/Owner:** Enbridge **State:** MN **Sampling Point:** w-51n26w34-a1  
**Investigator(s):** PJK **Section, Township, Range:** S. 34 T. 51N R. 26W  
**Landform (hillslope, terrace, etc.):** Lowland **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °  
**Subregion (LRR or MLRA):** LRR K **Lat.:** 46 51.8190 **Long.:** -93 37.1926 **Datum:** NAD 83  
**Soil Map Unit Name:** 544 **NWI classification:** PSSB

**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes  No  (If no, explain in Remarks.)  
**Are Vegetation**  , **Soil**  , **or Hydrology**  **significantly disturbed?** **Are "Normal Circumstances" present?** Yes  No   
**Are Vegetation**  , **Soil**  , **or Hydrology**  **naturally problematic?** (If needed, explain any answers in Remarks.)

**Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc**

<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/> <b>Hydric Soil Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/> <b>Wetland Hydrology Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input checked="" type="radio"/> No <input type="radio"/>
<b>Remarks: (Explain alternative procedures here or in a separate report.)</b> WETS analysis shows precipitation below normal.	

**Hydrology**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input 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 along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<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 checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): <u>0</u> Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>5</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>0</u>	
<b>Wetland Hydrology Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

**VEGETATION - Use scientific names of plants**

Sampling Point: w-51n26w34-a1

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. _____	0	<input type="checkbox"/>	_____	Number of Dominant Species That are OBL, FACW, or FAC:	<u>3</u> (A)
2. _____	0	<input type="checkbox"/>	_____	Total Number of Dominant Species Across All Strata:	<u>3</u> (B)
3. _____	0	<input type="checkbox"/>	_____	Percent of dominant Species That Are OBL, FACW, or FAC:	<u>100.0%</u> (A/B)
4. _____	0	<input type="checkbox"/>	_____	<b>Prevalence Index worksheet:</b>	
5. _____	0	<input type="checkbox"/>	_____	Total % Cover of: _____ Multiply by: _____	
6. _____	0	<input type="checkbox"/>	_____	OBL species	<u>120</u> x 1 = <u>120</u>
7. _____	0	<input type="checkbox"/>	_____	FACW species	<u>5</u> x 2 = <u>10</u>
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15</u> )			0 = Total Cover	FAC species	<u>0</u> x 3 = <u>0</u>
1. <i>Alnus incana</i>	5	<input checked="" type="checkbox"/>	FACW	FACU species	<u>0</u> x 4 = <u>0</u>
2. _____	0	<input type="checkbox"/>	_____	UPL species	<u>0</u> x 5 = <u>0</u>
3. _____	0	<input type="checkbox"/>	_____	Column Totals:	<u>125</u> (A) <u>130</u> (B)
4. _____	0	<input type="checkbox"/>	_____	Prevalence Index = B/A = <u>1.040</u>	
5. _____	0	<input type="checkbox"/>	_____	<b>Hydrophytic Vegetation Indicators:</b>	
6. _____	0	<input type="checkbox"/>	_____	<input checked="" type="checkbox"/> <b>Rapid Test for Hydrophytic Vegetation</b>	
7. _____	0	<input type="checkbox"/>	_____	<input checked="" type="checkbox"/> <b>Dominance Test is &gt; 50%</b>	
8. _____	0	<input type="checkbox"/>	_____	<input checked="" type="checkbox"/> <b>Prevalence Index is ≤ 3.0</b> <sup>1</sup>	
9. _____	0	<input type="checkbox"/>	_____	<input type="checkbox"/> <b>Morphological Adaptations</b> <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
10. _____	0	<input type="checkbox"/>	_____	<input type="checkbox"/> <b>Problematic Hydrophytic Vegetation</b> <sup>1</sup> (Explain)	
11. _____	0	<input type="checkbox"/>	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
12. _____	0	<input type="checkbox"/>	_____	<b>Definitions of Vegetation Strata:</b>	
<b>Herb Stratum</b> (Plot size: <u>5</u> )			5 = Total Cover	Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
1. <i>Calamagrostis canadensis</i>	70	<input checked="" type="checkbox"/>	OBL	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.	
2. <i>Carex lacustris</i>	40	<input checked="" type="checkbox"/>	OBL	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
3. <i>Glyceria canadensis</i>	5	<input type="checkbox"/>	OBL	Woody vine - All woody vines greater than 3.28 ft in height.	
4. <i>Scirpus cyperinus</i>	5	<input type="checkbox"/>	OBL		
5. _____	0	<input type="checkbox"/>	_____		
6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
8. _____	0	<input type="checkbox"/>	_____		
9. _____	0	<input type="checkbox"/>	_____		
10. _____	0	<input type="checkbox"/>	_____		
11. _____	0	<input type="checkbox"/>	_____		
12. _____	0	<input type="checkbox"/>	_____		
<b>Woody Vine Stratum</b> (Plot size: <u>30</u> )			120 = Total Cover	<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/>	
1. _____	0	<input type="checkbox"/>	_____		
2. _____	0	<input type="checkbox"/>	_____		
3. _____	0	<input type="checkbox"/>	_____		
4. _____	0	<input type="checkbox"/>	_____		
= Total Cover			0		
<b>Remarks: (Include photo numbers here or on a separate sheet.)</b>					

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

