

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

**Project/Site:** RSA 22 **City/County:** Aitkin **Sampling Date:** 01-Sep-17  
**Applicant/Owner:** Enbridge **State:** MN **Sampling Point:** w-51n23w30-h1  
**Investigator(s):** SMR **Section, Township, Range:** S. 30 T. 51N R. 23W  
**Landform (hillslope, terrace, etc.):** Lowland **Local relief (concave, convex, none):** concave **Slope:** 0.0 % / 0.0 °  
**Subregion (LRR or MLRA):** LRR K **Lat.:** 46 52.3357 **Long.:** -93 17.6417 **Datum:** NAD 83  
**Soil Map Unit Name:** 870E **NWI classification:** N/A

**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>     	

**Hydrology**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one required; check all that apply)</u> <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 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)	<u>Secondary Indicators (minimum of 2 required)</u> <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)
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**Field Observations:**

Surface Water Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Depth (inches):	<u>3</u>
Water Table Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Depth (inches):	<u>0</u>
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="radio"/> No <input type="radio"/>	Depth (inches):	<u>0</u>

**Wetland Hydrology Present?** Yes  No

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

Remarks:

**VEGETATION - Use scientific names of plants**

Sampling Point: w-51n23w30-h1

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30</u> )				<p><b>Dominance Test worksheet:</b></p> <p>Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>1</u> (B)</p> <p>Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)</p> <hr/> <p><b>Prevalence Index worksheet:</b></p> <p>Total % Cover of: <u>90</u> Multiply by: <u>1</u></p> <p>OBL species <u>90</u> x 1 = <u>90</u></p> <p>FACW species <u>0</u> x 2 = <u>0</u></p> <p>FAC species <u>10</u> x 3 = <u>30</u></p> <p>FACU species <u>0</u> x 4 = <u>0</u></p> <p>UPL species <u>0</u> x 5 = <u>0</u></p> <p>Column Totals: <u>100</u> (A) <u>120</u> (B)</p> <p>Prevalence Index = B/A = <u>1.200</u></p> <hr/> <p><b>Hydrophytic Vegetation Indicators:</b></p> <p><input checked="" type="checkbox"/> <b>Rapid Test for Hydrophytic Vegetation</b></p> <p><input checked="" type="checkbox"/> <b>Dominance Test is &gt; 50%</b></p> <p><input checked="" type="checkbox"/> <b>Prevalence Index is ≤3.0<sup>1</sup></b></p> <p><input type="checkbox"/> <b>Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</b></p> <p><input type="checkbox"/> <b>Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)</b></p> <p><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p><b>Definitions of Vegetation Strata:</b></p> <p>Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p> <p>Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..</p> <p>Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p> <p>Woody vine - All woody vines greater than 3.28 ft in height.</p> <hr/> <p><b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/></p>
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15</u> )				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				
<b>Herb Stratum</b> (Plot size: <u>5</u> )				
1. <i>Carex lacustris</i>	70	<input checked="" type="checkbox"/>	OBL	
2. <i>Scirpus cyperinus</i>	10	<input type="checkbox"/>	OBL	
3. <i>Eutrochium purpureum</i>	10	<input type="checkbox"/>	FAC	
4. <i>Calamagrostis canadensis</i>	10	<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"/>	_____	
100 = Total Cover				
<b>Woody Vine Stratum</b> (Plot size: <u>30</u> )				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				
<p><b>Remarks: (Include photo numbers here or on a separate sheet.)</b></p>          				

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

