

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

**Project/Site:** RSA 22 **City/County:** Aitkin **Sampling Date:** 29-Aug-17

**Applicant/Owner:** Enbridge **State:** MN **Sampling Point:** u-51n24w31-a3

**Investigator(s):** SMR **Section, Township, Range:** S. 36 T. 51N R. 25W

**Landform (hillslope, terrace, etc.):** Mound **Local relief (concave, convex, none):** convex **Slope:** 5.2 % / 3.0 °

**Subregion (LRR or MLRA):** LRR K **Lat.:** 46 51.5816 **Long.:** -93 27.0561 **Datum:** NAD 83

**Soil Map Unit Name:** 292 **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 type="radio"/> No <input checked="" type="radio"/> <b>Hydric Soil Present?</b> Yes <input type="radio"/> No <input checked="" type="radio"/> <b>Wetland Hydrology Present?</b> Yes <input type="radio"/> No <input checked="" type="radio"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="radio"/> No <input checked="" type="radio"/>
<b>Remarks: (Explain alternative procedures here or in a separate report.)</b> WETS analysis shows precip is 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 type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input 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 type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes  No       Depth (inches): 0

Water Table Present? Yes  No       Depth (inches): 0

Saturation Present? (includes capillary fringe) Yes  No       Depth (inches): 0

**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: u-51n24w31-a3

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. <i>Acer saccharum</i>	70	<input checked="" type="checkbox"/>	FACU	Number of Dominant Species That are OBL, FACW, or FAC: <u>0</u> (A)	
2. <i>Tilia americana</i>	10	<input type="checkbox"/>	FACU	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>0.0%</u> (A/B)	
4. _____	0	<input type="checkbox"/>	_____		
5. _____	0	<input type="checkbox"/>	_____		
6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
<b>Sapling/Shrub Stratum (Plot size: <u>15</u> )</b>				<b>Prevalence Index worksheet:</b>	
80 = Total Cover				Total % Cover of: _____ Multiply by: _____	
1. <i>Acer saccharum</i>	15	<input checked="" type="checkbox"/>	FACU	OBL species <u>0</u> x 1 = <u>0</u>	
2. _____	0	<input type="checkbox"/>	_____	FACW species <u>0</u> x 2 = <u>0</u>	
3. _____	0	<input type="checkbox"/>	_____	FAC species <u>0</u> x 3 = <u>0</u>	
4. _____	0	<input type="checkbox"/>	_____	FACU species <u>180</u> x 4 = <u>720</u>	
5. _____	0	<input type="checkbox"/>	_____	UPL species <u>15</u> x 5 = <u>75</u>	
6. _____	0	<input type="checkbox"/>	_____	Column Totals: <u>195</u> (A) <u>795</u> (B)	
7. _____	0	<input type="checkbox"/>	_____	Prevalence Index = B/A = <u>4.077</u>	
15 = Total Cover				<b>Hydrophytic Vegetation Indicators:</b>	
<b>Herb Stratum (Plot size: <u>5</u> )</b>				<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
1. <i>Pteridium aquilinum</i>	70	<input checked="" type="checkbox"/>	FACU	<input type="checkbox"/> Dominance Test is > 50%	
2. <i>Aralla nudicaulis</i>	15	<input type="checkbox"/>	FACU	<input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>	
3. <i>Eurybia macrophylla</i>	15	<input type="checkbox"/>	UPL	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
4. _____	0	<input type="checkbox"/>	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
5. _____	0	<input type="checkbox"/>	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
6. _____	0	<input type="checkbox"/>	_____	<b>Definitions of Vegetation Strata:</b>	
7. _____	0	<input type="checkbox"/>	_____	Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
8. _____	0	<input type="checkbox"/>	_____	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..	
9. _____	0	<input type="checkbox"/>	_____	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
10. _____	0	<input type="checkbox"/>	_____	Woody vine - All woody vines greater than 3.28 ft in height.	
11. _____	0	<input type="checkbox"/>	_____		
12. _____	0	<input type="checkbox"/>	_____		
<b>Woody Vine Stratum (Plot size: <u>30</u> )</b>					
100 = Total Cover					
1. _____	0	<input type="checkbox"/>	_____		
2. _____	0	<input type="checkbox"/>	_____		
3. _____	0	<input type="checkbox"/>	_____		
4. _____	0	<input type="checkbox"/>	_____		
0 = Total Cover					
				<b>Hydrophytic Vegetation Present?</b> Yes <input type="radio"/> No <input checked="" type="radio"/>	

Remarks: (Include photo numbers here or on a separate sheet.)

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

