

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

Project/Site: SPP City/County: Aitkin Sampling Date: 2016-08-10  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-50n26w5-aa1  
 Investigator(s): ZCW, MGH Section, Township, Range: S5, T50N, R26W  
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CL Slope (%): 0-2%  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 46.8470518989... Longitude: -93.67715223... Datum: NAD83  
 Soil Map Unit Name: 204B NWI Classification: N/A  
 Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): No  
 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-50n26w5-aa</u>
Remarks: (Explain alternative procedures here or in a separate report.) Climatic conditions are "wet" based on the results of a WETS analysis.			

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	
<u>no</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> Shallow Aquitard (D3)
<u>    </u> Sparsely Vegetated Concave Surface (B8)	<u>    </u> Microtopographic Relief (D4)
	<u>    </u> <u>YES</u> FAC-Neutral Test (D5)

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	<u>Yes</u>
Surface Water Present?	<u>No</u>	Depth (inches)	_____
Water Table Present?	<u>No</u>	Depth (inches)	_____
Saturation Present? (includes capillary fringe)	<u>No</u>	Depth (inches)	_____

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

Remarks:

**VEGETATION - Use scientific names of plants.**

Sampling Point: w-50n26w...

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot Size: <u>30</u> )				
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
0 _____ = Total Cover				
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15</u> )				
1. <u>Alnus incana</u>	<u>25.00</u>	<u>Yes</u>	<u>FACW</u>	<b>Prevalence Index worksheet:</b> Total % Cover of: <span style="float:right">Multiply by:</span> OBL species <u>90.00</u> x 1 <u>90</u> FACW species <u>50.00</u> x 2 <u>100</u> FACU species <u>0.00</u> x 3 <u>0</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>140</u> (A) <u>190</u> (B) Prevalence Index = B/A = <u>1.3571428...</u>
2. <u>Salix petiolaris</u>	<u>15.00</u>	<u>Yes</u>	<u>OBL</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
40 _____ = Total Cover				
<b>Herb Stratum</b> (Plot Size: <u>5</u> )				
1. <u>Carex lacustris</u>	<u>75.00</u>	<u>Yes</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> _____ 1 - Rapid Test for Hydrophytic Vegetation <u>yes</u> 2 - Dominance Test is > 50% <u>yes</u> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> _____ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <small><sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>
2. <u>Calamagrostis canadensis</u>	<u>25.00</u>	<u>Yes</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
100 _____ = Total Cover				
<b>Woody Vine Stratum</b> (Plot Size: <u>30</u> )				
1. _____	_____	_____	_____	<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> - Woody plants 3 in. (.76 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 or equal to 3.28 ft (1 m) tall.  <b>Herb</b> - All herbaecous (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.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
0 _____ = Total Cover				
				<b>Hydrophytic Vegetation Present?</b> <u>Yes</u>
<b>Remarks:</b> (include photo numbers here or on a separate sheet.)				



Site Photograph 1

Sampling Point: w-50n26w5-aa1



Latitude: 46.8470596941624

Cowardin Classification: PSS

Longitude: -93.6771530752011

Circular 39: 6

Direction: East

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks:

Site Photograph 2

Sampling Point: w-50n26w5-aa1



Latitude: 46.8470594007958

Cowardin Classification: PSS

Longitude: -93.6771573499718

Circular 39: 6

Direction: Southeast

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks:

Empty rectangular box for remarks.