

**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-50n26w8-aa1  
 Investigator(s): ZCW, MGH Section, Township, Range: S8, T50N, R26W  
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): VL Slope (%): 0-2%  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 46.8360980507... Longitude: -93.67694386... Datum: NAD83  
 Soil Map Unit Name: 533 NWI Classification: PFO2/4Bg  
 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> If yes, optional Wetland Site ID: <u>w-50n26w8-aa</u>
Hydric Soil Present?	<u>Yes</u>	
Wetland Hydrology Present?	<u>Yes</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>	
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted/Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Microtopographic Relief (D4)
	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

<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>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:  
Due to no digging water table and saturation depth could not be determined.

**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. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15</u> )				
1. <u>Salix petiolaris</u>	<u>20.00</u>	<u>Yes</u>	<u>OBL</u>	
2. <u>Alnus incana</u>	<u>10.00</u>	<u>Yes</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>30</u> = 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>	
2. <u>Calamagrostis canadensis</u>	<u>20.00</u>	<u>Yes</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>95</u> = Total Cover			
<b>Woody Vine Stratum</b> (Plot Size: <u>30</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
<b>Remarks:</b> (include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

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**Prevalence Index worksheet:**

<b>Total % Cover of:</b>		<b>Multiply by:</b>		
OBL species	<u>95.00</u>	x 1	<u>95</u>	
FACW species	<u>30.00</u>	x 2	<u>60</u>	
FACU species	<u>0.00</u>	x 3	<u>0</u>	
UPL species	<u>0.00</u>	x 4	<u>0</u>	
<b>Column Totals</b>	<u>125</u> (A)		<u>155</u> (B)	

Prevalence Index = B/A = 1.24

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**Hydrophytic Vegetation Indicators:**

\_\_\_\_\_ 1 - Rapid Test for Hydrophytic Vegetation

yes 2 - Dominance Test is > 50%

yes 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)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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**Definitions of Vegetation Strata:**

**Tree** - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

**Woody vines** - All woody vines greater than 3.28 ft in height.

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**Hydrophytic Vegetation Present?** Yes



Site Photograph 1

Sampling Point: w-50n26w8-aa1



Latitude: 46.8360770959843

Cowardin Classification: PSS

Longitude: -93.6769132689514

Circular 39: 6

Direction: East

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks:

Site Photograph 2

Sampling Point: w-50n26w8-aa1



Latitude: 46.8360696360905

Cowardin Classification: PSS

Longitude: -93.6768983491638

Circular 39: 6

Direction: South

Eggers & Reed: Shrub-Carr/Alder Thicket

Remarks: