

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

Project/Site: SPP City/County: Cass Sampling Date: 2016-08-02  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-139n25w8-ak1  
 Investigator(s): DPT, MGH Section, Township, Range: S8, T139N, R25W  
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2%  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 46.8639550544... Longitude: -93.87841707... Datum: NAD83  
 Soil Map Unit Name: 142 NWI Classification: N/A  
 Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): Yes  
 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-139n25w18-ak</u>
Hydric Soil Present?	<u>Yes</u>	
Wetland Hydrology Present?	<u>Yes</u>	
Remarks: (Explain alternative procedures here or in a separate report.) Existing forest road, no digging, potential buried utilities.		

**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>yes</u> Surface Water (A1)	<u>    </u> Surface Soil Cracks (B6)
<u>yes</u> High Water Table (A2)	<u>    </u> Drainage Patterns (B10)
<u>yes</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>Yes</u>	Depth (inches)	<u>3</u>
Water Table Present?	<u>Yes</u>	Depth (inches)	<u>0</u>
Saturation Present? (includes capillary fringe)	<u>Yes</u>	Depth (inches)	<u>0</u>

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

Remarks:

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

Sampling Point: w-139n25...

	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>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</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. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b> Total % Cover of: <span style="float:right">Multiply by:</span> OBL species <u>25.00</u> x 1 <u>25</u> FACW species <u>65.00</u> x 2 <u>130</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>100</u> (A) <u>185</u> (B) Prevalence Index = B/A = <u>1.85</u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
0 _____ = Total Cover				
<b>Herb Stratum</b> (Plot Size: <u>5</u> )				
1. <i>Phalaris arundinacea</i>	30.00	Yes	FACW	<b>Hydrophytic Vegetation Indicators:</b> _____ 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.
2. <i>Scirpus cyperinus</i>	25.00	Yes	OBL	
3. <i>Calamagrostis canadensis</i>	20.00	Yes	FACW	
4. <i>Impatiens capensis</i>	10.00	No	FACW	
5. <i>Solidago gigantea</i>	10.00	No	FAC	
6. <i>Onoclea sensibilis</i>	5.00	No	FACW	
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 herbaeceous (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> <span style="float:right">Yes _____</span>
<b>Remarks:</b> (include photo numbers here or on a separate sheet.)				



Site Photograph 1

Sampling Point: w-139n25w8-ak1



Latitude: 46.8639550125663

Cowardin Classification: PEM

Longitude: -93.8784173224996

Circular 39: 2

Direction: north

Eggers & Reed: Fresh (Wet) Meadow

Remarks:

Empty rectangular box for additional remarks or notes.

Site Photograph 2

Sampling Point: w-139n25w8-ak1



Latitude: 46.8639548868377

Cowardin Classification: PEM

Longitude: -93.8784179930518

Circular 39: 2

Direction: south

Eggers & Reed: Fresh (Wet) Meadow

Remarks: