

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Cass Sampling Date: 2016-08-04
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-139n25w8-av1
 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: 46.8681802880... Longitude: -93.86417747... 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>	Is the Sampled Area within a Wetland?	
Hydric Soil Present?	<u>Yes</u>		<u>Yes</u>
Wetland Hydrology Present?	<u>Yes</u>		If yes, optional Wetland Site ID: <u>w-139n25w8-av</u>
Remarks: (Explain alternative procedures here or in a separate report.) Existing forest road, no digging, potential buried utilities.			

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>yes</u> Surface Water (A1)	____ Surface Soil Cracks (B6)
____ Water-Stained Leaves (B9)	____ Drainage Patterns (B10)
<u>yes</u> High Water Table (A2)	____ Moss Trim Lines (B16)
____ Aquatic Fauna (B13)	____ Dry-Season Water Table (C2)
<u>yes</u> Saturation (A3)	____ Crayfish Burrows (C8)
____ Marl Deposits (B15)	____ Saturation Visible on Aerial Imagery (C9)
____ Water Marks (B1)	____ Stunted/Stressed Plants (D1)
____ Hydrogen Sulfide Odor (C1)	<u>YES</u> Geomorphic Position (D2)
____ Oxidized Rhizospheres on Living Roots (C3)	____ Shallow Aquitard (D3)
____ Presence of Reduced Iron (C4)	____ Microtopographic Relief (D4)
____ Recent Iron Reduction in Tilled Soils (C6)	<u>YES</u> FAC-Neutral Test (D5)
____ Thin Muck Surface (C7)	
____ Other (Explain in Remarks)	
____ Sparsely Vegetated Concave Surface (B8)	

Field Observations:		Wetland Hydrology Present?	<u>Yes</u>
Surface Water Present? <u>Yes</u>	Depth (inches) <u>4</u>		
Water Table Present? <u>Yes</u>	Depth (inches) <u>0</u>		
Saturation Present? <u>Yes</u>	Depth (inches) <u>0</u>		
(includes capillary fringe)			

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	
Tree Stratum (Plot Size: <u>30</u>)				
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</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				
Sapling/Shrub Stratum (Plot Size: <u>15</u>)				
1. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>20.00</u> x 1 <u>20</u> FACW species <u>80.00</u> x 2 <u>160</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>180</u> (B) Prevalence Index = B/A = <u>1.8</u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
0 _____ = Total Cover				
Herb Stratum (Plot Size: <u>5</u>)				
1. Calamagrostis canadensis	60.00	Yes	FACW	Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation yes _____ 2 - Dominance Test is > 50% yes _____ 3 - Prevalence Index is ≤ 3.0 ¹ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) _____ <small>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</small>
2. Phalaris arundinacea	20.00	Yes	FACW	
3. Scirpus atrovirens	15.00	No	OBL	
4. Cicutula maculata	5.00	No	OBL	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
100 _____ = Total Cover				
Woody Vine Stratum (Plot Size: <u>30</u>)				
1. _____	_____	_____	_____	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 herbaecous (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.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
0 _____ = Total Cover				
				Hydrophytic Vegetation Present? <u>Yes</u>
Remarks: (include photo numbers here or on a separate sheet.)				

Site Photograph 1

Sampling Point: w-139n25w8-av1



Latitude: 46.8681529211317

Cowardin Classification: PEM

Longitude: -93.8641856052856

Circular 39: 2

Direction: east

Eggers & Reed: Fresh (Wet) Meadow

Remarks:

Site Photograph 2

Sampling Point: w-139n25w8-av1



Latitude: 46.8681529211317

Cowardin Classification: PEM

Longitude: -93.8641845994572

Circular 39: 2

Direction: west

Eggers & Reed: Fresh (Wet) Meadow

Remarks: