

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Aitkin Sampling Date: 2016-08-22
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-50n26w18-p2
 Investigator(s): ZCW, MGH Section, Township, Range: S18, T50N, R26W
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CC Slope (%): 0-2%
 Subregion (LRR or MLRA): _____ Latitude: 46.818840843669 Longitude: -93.68385356... Datum: NAD83
 Soil Map Unit Name: 928C 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>	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-50n26w18-p</u>
Remarks: (Explain alternative procedures here or in a separate report.) Climatic conditions are "wet" based on the results of a WETS analysis.			

HYDROLOGY

Wetland Hydrology Indicators:	<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>YES</u> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?	<u>Yes</u>
Surface Water Present?	<u>Yes</u>	Depth (inches)	<u>2</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-50n26w...

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot Size: <u>30</u>)				Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species
2. _____	_____	_____	_____	That Are OBL, FACW, or FAC: <u>2</u> (A)
3. _____	_____	_____	_____	Total Number of Dominant
4. _____	_____	_____	_____	Species Across All Strata: <u>2</u> (B)
5. _____	_____	_____	_____	Percent of Dominant Species
6. _____	_____	_____	_____	That Are OBL, FACW, or FAC: <u>100</u> (A/B)
7. _____	_____	_____	_____	Prevalence Index worksheet:
	<u>0</u> = Total Cover			Total % Cover of: Multiply by:
				OBL species <u>20.00</u> x 1 <u>20</u>
				FACW species <u>45.00</u> x 2 <u>90</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>65</u> (A) <u>110</u> (B)
				Prevalence Index = B/A = <u>1.6923076...</u>
Sapling/Shrub Stratum (Plot Size: <u>15</u>)				Hydrophytic Vegetation Indicators:
1. _____	_____	_____	_____	_____ 1 - Rapid Test for Hydrophytic Vegetation
2. _____	_____	_____	_____	<u>yes</u> 2 - Dominance Test is > 50%
3. _____	_____	_____	_____	<u>yes</u> 3 - Prevalence Index is ≤ 3.0 ¹
4. _____	_____	_____	_____	_____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. _____	_____	_____	_____	Problematic Hydrophytic Vegetation ¹ (Explain)
6. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. _____	_____	_____	_____	Definitions of Vegetation Strata:
	<u>0</u> = Total Cover			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.
Herb Stratum (Plot Size: <u>5</u>)				
1. Calamagrostis canadensis	45.00	Yes	FACW	
2. Carex lacustris	20.00	Yes	OBL	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>65</u> = Total Cover			
Woody Vine Stratum (Plot Size: <u>30</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u> = Total Cover			Hydrophytic Vegetation Present? <u>Yes</u>
Remarks: (include photo numbers here or on a separate sheet.)				

Site Photograph 1

Sampling Point: w-50n26w18-p2



Latitude: 46.8188405922119

Cowardin Classification: PEM

Longitude: -93.6838786304869

Circular 39: 3

Direction: East

Eggers & Reed: Shallow Marsh

Remarks:



Latitude: 46.8188391253788

Cowardin Classification: PEM

Longitude: -93.683881396515

Circular 39: 3

Direction: South

Eggers & Reed: Shallow Marsh

Remarks: