

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 2015-07-09
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CL005h1W
 Investigator(s): ACM/LEB Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): depression Local Relief (concave, convex, none): Conca... Slope (%): 0-2
 Subregion (LRR or MLRA): _____ Latitude: 47.7170176338... Longitude: -95.55405481... Datum: Minnesota State ...
 Soil Map Unit Name: 582 NWI Classification: _____

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?	<u>Yes</u>
Hydric Soil Present?	<u>Yes</u>		
Wetland Hydrology Present?	<u>Yes</u>		
Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a fresh wet meadow located in a roadside ditch and dominated by reed canary grass and lake sedge.			

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
<u>Yes</u> Surface Water (A1)	____ Surface Soil Cracks (B6)
<u>Yes</u> High Water Table (A2)	____ Drainage Patterns (B10)
<u>Yes</u> Saturation (A3)	____ Moss Trim Lines (B16)
____ Water Marks (B1)	____ Dry-Season Water Table (C2)
____ Sediment Deposits (B2)	____ Crayfish Burrows (C8)
____ Drift Deposits (B3)	____ Saturation Visible on Aerial Imagery (C9)
____ Algal Mat or Crust (B4)	____ Stunted/Stressed Plants (D1)
____ Iron Deposits (B5)	<u>Yes</u> Geomorphic Position (D2)
____ Inundation Visible on Aerial Imagery (B7)	____ Shallow Aquitard (D3)
____ Sparsely Vegetated Concave Surface (B8)	____ Microtopographic Relief (D4)
____ Water-Stained Leaves (B9)	<u>Yes</u> FAC-Neutral Test (D5)
____ Aquatic Fauna (B13)	
____ Marl Deposits (B15)	
____ Hydrogen Sulfide Odor (C1)	
____ Oxidized Rhizospheres on Living Roots (C3)	
____ Presence of Reduced Iron (C4)	
____ Recent Iron Reduction in Tilled Soils (C6)	
____ Thin Muck Surface (C7)	
____ Other (Explain in Remarks)	

Field Observations:		Wetland Hydrology Present?	<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?	<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:
 The wetland is located in a roadside ditch and saturated to the surface.

VEGETATION - Use scientific names of plants.

Sampling Point: CL005h1W

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot Size: _____)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant <u>4</u> Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: $\frac{100}{\text{_____}} (A/B)$
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
0 _____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species <u>52.00</u> x 1 <u>52</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>132</u> (A) <u>212</u> (B) Prevalence Index = B/A = <u>1.6060606...</u>
Sapling/Shrub Stratum (Plot Size: <u>15 ft</u>)				
1. <u>Salix petiolaris</u>	<u>15.00</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Salix discolor</u>	<u>10.00</u>	<u>Yes</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
25 _____ = Total Cover				
Herb Stratum (Plot Size: <u>5 ft</u>)				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation <u>yes</u> 2 - Dominance Test is > 50% <u>yes</u> 3 - Prevalence Index is $\leq 3.0^1$ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Phalaris arundinacea</u>	<u>40.00</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Carex lacustris</u>	<u>40.00</u>	<u>Yes</u>	<u>OBL</u>	
3. <u>Phragmites australis</u>	<u>15.00</u>	<u>No</u>	<u>FACW</u>	
4. <u>Carex atherodes</u>	<u>10.00</u>	<u>No</u>	<u>OBL</u>	
5. <u>Eleocharis palustris</u>	<u>2.00</u>	<u>No</u>	<u>OBL</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
107 _____ = Total Cover				
Woody Vine Stratum (Plot Size: _____)				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 herbaceous (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.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
0 _____ = Total Cover				
Remarks: (include photo numbers here or on a separate sheet.)				Hydrophytic Vegetation Present? _____
The vegetation is dominated by lake sedge and reed canary grass with willows in the shrub layer.				

