

**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Sandpiper City/County: Wadena Sampling Date: 09/13/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: WA017b1W  
 Investigator(s): DPT Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave/Linear  
 Slope (%): 0 Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI Classification: \_\_\_\_\_  
 Are climatic/hydrologic conditions of the site typical for this time of the year? \_\_\_\_\_ (If no, explain in remarks)  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? Are "normal  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ naturally problematic? circumstances" present? Yes  
 (If needed, explain any answers in remarks)

**SUMMARY OF FINDINGS**

Hydrophytic vegetation present? <u>Y</u> Hydric soil present? <u>Y</u> Indicators of wetland hydrology present? <u>Y</u>	<p align="center"><b>Is the sampled area within a wetland?</b> <u>Y</u></p> If yes, optional wetland site ID: <u>WA017b1W</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center">PEM - Type 2, sedge meadow</p>	

**HYDROLOGY**

Primary Indicators (minimum of one is required; check all that apply) <input checked="" type="checkbox"/> Surface Water (A1)      _____ Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2)      _____ Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3)      _____ Marl Deposits (B15) _____ Water Marks (B1)      _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2)      _____ Oxidized Rhizospheres on Living _____ Drift Deposits (B3)      _____ Roots (C3) _____ Algal Mat or Crust (B4)      _____ Presence of Reduced Iron (C4) _____ Iron Deposits (B5)      _____ Recent Iron Reduction in Tilled _____ Inundation Visible on Aerial      _____ Soils (C6) _____ Imagery (B7)      _____ Thin Muck Surface (C7) _____ Sparsely Vegetated Concave      _____ Other (Explain in Remarks) _____ Surface (B8)	Secondary Indicators (minimum of two required) _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery _____ (C9) _____ Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) _____ Shallow Aquitard (D3) <input checked="" type="checkbox"/> FAC-Neutral Test (D5) _____ Microtopographic Relief (D4)
Field Observations: Surface water present? Yes <u>X</u> No _____ Depth (inches): <u>5</u> Water table present? Yes <u>X</u> No _____ Depth (inches): _____ Saturation present? Yes <u>X</u> No _____ Depth (inches): _____ (includes capillary fringe)	<p align="center"><b>Indicators of wetland hydrology present?</b> <u>Y</u></p>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  	
Remarks:	

**VEGETATION - Use scientific names of plants**

**Sampling Point:** WA017b1W

Tree Stratum	Plot Size ( 30 ft )	Absolute % Cover	Dominant Species	Indicator Status	<b>50/20 Thresholds</b>		
1 _____					20%	50%	
2 _____					Tree Stratum	0	0
3 _____					Sapling/Shrub Stratum	0	0
4 _____					Herb Stratum	20	50
5 _____					Woody Vine Stratum	0	0
6 _____					<b>Dominance Test Worksheet</b>		
7 _____					Number of Dominant Species that are OBL, FACW, or FAC: <u>2</u> (A)		
8 _____					Total Number of Dominant Species Across all Strata: <u>2</u> (B)		
9 _____					Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/B)		
10 _____		<u>0</u>	= Total Cover		<b>Prevalence Index Worksheet</b>		
Sapling/Shrub Stratum Plot Size ( 15 ft )					Total % Cover of:		
1 _____					OBL species	<u>100</u> x 1 =	<u>100</u>
2 _____					FACW species	<u>0</u> x 2 =	<u>0</u>
3 _____					FAC species	<u>0</u> x 3 =	<u>0</u>
4 _____					FACU species	<u>0</u> x 4 =	<u>0</u>
5 _____					UPL species	<u>0</u> x 5 =	<u>0</u>
6 _____					Column totals	<u>100</u> (A)	<u>100</u> (B)
7 _____					Prevalence Index = B/A =		<u>1.00</u>
8 _____					<b>Hydrophytic Vegetation Indicators:</b>		
9 _____					<input type="checkbox"/> Rapid test for hydrophytic vegetation		
10 _____					<input checked="" type="checkbox"/> Dominance test is >50%		
11 _____					<input checked="" type="checkbox"/> Prevalence index is ≤3.0*		
12 _____					Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)		
13 _____					<input type="checkbox"/> Problematic hydrophytic vegetation* (explain)		
14 _____					*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		
15 _____					<b>Definitions of Vegetation Strata:</b>		
Herb Stratum Plot Size ( 5 ft )					<b>Tree</b> - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
1 <i>Carex lacustris</i>		80	Y	OBL	<b>Sapling/shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
2 <i>Carex lasiocarpa</i>		20	Y	OBL	<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
3 _____					<b>Woody vines</b> - All woody vines greater than 3.28 ft in height.		
4 _____							
5 _____							
6 _____							
7 _____							
8 _____							
9 _____							
10 _____							
11 _____							
12 _____							
13 _____							
14 _____							
15 _____		<u>100</u>	= Total Cover				
Woody Vine Stratum Plot Size ( )					<b>Hydrophytic vegetation present?</b> <u>Y</u>		
1 _____							
2 _____							
3 _____							
4 _____							
5 _____							
6 _____							
7 _____							
8 _____							
9 _____							
10 _____		<u>0</u>	= Total Cover				

Remarks: (Include photo numbers here or on a separate sheet)

