

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: WA017b2W
 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">Is the sampled area within a wetland? <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 3, shallow marsh</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>6</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">Indicators of wetland hydrology present? <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: WA017b2W

Tree Stratum	Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status																	
1					50/20 Thresholds <table style="width:100%; border:none;"> <tr><td></td><td style="text-align:right;">20%</td><td style="text-align:right;">50%</td></tr> <tr><td>Tree Stratum</td><td style="text-align:right;">0</td><td style="text-align:right;">0</td></tr> <tr><td>Sapling/Shrub Stratum</td><td style="text-align:right;">1</td><td style="text-align:right;">3</td></tr> <tr><td>Herb Stratum</td><td style="text-align:right;">20</td><td style="text-align:right;">50</td></tr> <tr><td>Woody Vine Stratum</td><td style="text-align:right;">0</td><td style="text-align:right;">0</td></tr> </table>			20%	50%	Tree Stratum	0	0	Sapling/Shrub Stratum	1	3	Herb Stratum	20	50	Woody Vine Stratum	0	0
	20%	50%																			
Tree Stratum	0	0																			
Sapling/Shrub Stratum	1	3																			
Herb Stratum	20	50																			
Woody Vine Stratum	0	0																			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10		0	= Total Cover																		
Sapling/Shrub Stratum	Plot Size (15 ft)	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test Worksheet 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>100.00%</u> (A/B)																
1	<i>Salix petiolaris</i>	5	Y	FACW																	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10		5	= Total Cover																		
Herb Stratum	Plot Size (5 ft)	Absolute % Cover	Dominant Species	Indicator Status	Prevalence Index Worksheet Total % Cover of: OBL species $\frac{100}{5} \times 1 = \frac{100}{10}$ FACW species $\frac{5}{5} \times 2 = \frac{10}{10}$ FAC species $\frac{0}{5} \times 3 = \frac{0}{10}$ FACU species $\frac{0}{5} \times 4 = \frac{0}{10}$ UPL species $\frac{0}{5} \times 5 = \frac{0}{10}$ Column totals <u>105</u> (A) <u>110</u> (B) Prevalence Index = B/A = <u>1.05</u>																
1	<i>Carex lasiocarpa</i>	60	Y	OBL																	
2	<i>Typha X glauca</i>	30	Y	OBL																	
3	<i>Iris versicolor</i>	10	N	OBL																	
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15		100	= Total Cover																		
Woody Vine Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status	Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid test for hydrophytic vegetation <input checked="" type="checkbox"/> Dominance test is >50% <input checked="" type="checkbox"/> Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic																
1																					
2																					
3																					
4																					
5		0	= Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet)					Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 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.																
					Hydrophytic vegetation present? <u>Y</u>																

