

**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: WA017b2U  
 Investigator(s): DPT Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Rise Local relief (concave, convex, none): Convex/Convex  
 Slope (%): 2 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>    N    </u> Hydric soil present? <u>    N    </u> Indicators of wetland hydrology present? <u>    N    </u>	<p align="center"><b>Is the sampled area within a wetland?</b> <u>    N    </u></p> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

**HYDROLOGY**

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

**VEGETATION - Use scientific names of plants**

**Sampling Point:** WA017b2U

Tree Stratum	Plot Size ( 30 ft )	Absolute % Cover	Dominant Species	Indicator Status																	
1	<i>Populus tremuloides</i>	70	Y	FAC	<b>50/20 Thresholds</b> <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;">18</td> <td style="text-align:right;">45</td> </tr> <tr> <td>Sapling/Shrub Stratum</td> <td style="text-align:right;">16</td> <td style="text-align:right;">40</td> </tr> <tr> <td>Herb Stratum</td> <td style="text-align:right;">4</td> <td style="text-align:right;">10</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	18	45	Sapling/Shrub Stratum	16	40	Herb Stratum	4	10	Woody Vine Stratum	0	0
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Tree Stratum	18	45																			
Sapling/Shrub Stratum	16	40																			
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Woody Vine Stratum	0	0																			
2	<i>Pinus resinosa</i>	20	Y	FACU																	
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10		90	= Total Cover																		
Sapling/Shrub Stratum	Plot Size ( 15 ft )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet</b> Number of Dominant Species that are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across all Strata: <u>4</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>25.00%</u> (A/B)																
1	<i>Corylus cornuta</i>	80	Y	FACU																	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10		80	= Total Cover																		
Herb Stratum	Plot Size ( 5 ft )	Absolute % Cover	Dominant Species	Indicator Status	<b>Prevalence Index Worksheet</b> Total % Cover of: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>70</u> x 3 = <u>210</u> FACU species <u>120</u> x 4 = <u>480</u> UPL species <u>0</u> x 5 = <u>0</u> Column totals <u>190</u> (A) <u>690</u> (B) Prevalence Index = B/A = <u>3.63</u>																
1	<i>Aralia nudicaulis</i>	20	Y	FACU																	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15		20	= Total Cover																		
Woody Vine Stratum	Plot Size ( )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid test for hydrophytic vegetation <input type="checkbox"/> Dominance test is >50% <input type="checkbox"/> Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 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																		
					<b>Definitions of Vegetation Strata:</b> <b>Tree</b> - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/shrub</b> - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> - All woody vines greater than 3.28 ft in height.																
					<b>Hydrophytic vegetation present?</b> <u>N</u>																

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

