

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

Project/Site: Sandpiper City/County: Wadena Sampling Date: 09/15/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: WA015a2W  
 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>WA015a1W</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center">PFO - Type 8, coniferous bog</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>1</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: WA015a2W

Tree Stratum	Plot Size ( 30 ft )	Absolute % Cover	Dominant Species	Indicator Status																	
1	<i>Larix laricina</i>	90	Y	FACW	<b>50/20 Thresholds</b> <table style="width:100%; border-collapse: collapse;"> <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;">5</td> <td style="text-align: right;">13</td> </tr> <tr> <td>Herb Stratum</td> <td style="text-align: right;">13</td> <td style="text-align: right;">33</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	5	13	Herb Stratum	13	33	Woody Vine Stratum	0	0
	20%	50%																			
Tree Stratum	18	45																			
Sapling/Shrub Stratum	5	13																			
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Woody Vine Stratum	0	0																			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10		90 = Total Cover																			
Sapling/Shrub Stratum	Plot Size ( 15 ft )	Absolute % Cover	Dominant Species	Indicator Status																	
1	<i>Alnus incana</i>	15	Y	FACW	<b>Dominance Test Worksheet</b> Number of Dominant Species that are OBL, FACW, or FAC: <u>4</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>100.00%</u> (A/B)																
2	<i>Ledum groenlandicum</i>	10	Y	OBL																	
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10		25 = Total Cover																			
Herb Stratum	Plot Size ( 5 ft )	Absolute % Cover	Dominant Species	Indicator Status																	
1	<i>Calamagrostis canadensis</i>	40	Y	OBL	<b>Prevalence Index Worksheet</b> Total % Cover of: OBL species <u>50</u> x 1 = <u>50</u> FACW species <u>115</u> x 2 = <u>230</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column totals <u>165</u> (A) <u>280</u> (B) Prevalence Index = B/A = <u>1.70</u>																
2	<i>Thelypteris palustris</i>	10	N	FACW																	
3		10	N																		
4		5	N																		
5																					
6																					
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10																					
11																					
12																					
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14																					
15		65 = Total Cover																			
Woody Vine Stratum	Plot Size ( )	Absolute % Cover	Dominant Species	Indicator Status																	
1					<b>Hydrophytic Vegetation Indicators:</b> <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																
2																					
3																					
4																					
5		0 = Total Cover																			
Remarks: (Include photo numbers here or on a separate sheet) Sphagnum mat					<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>Y</u>																

