

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: WA015a1W
 Investigator(s): DPT Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave/Concave
 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>WA015a1W</u>
Remarks: (Explain alternative procedures here or in a separate report.) <p align="center">PSS - Type 6, shrub-carr</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">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: WA015a1W

Tree Stratum	Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status		
1						
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		
1	<i>Alnus incana</i>	50	Y	FACW		
2	<i>Salix bebbiana</i>	20	Y	FACW		
3	<i>Populus tremuloides</i>	5	N	FAC		
4	<i>Rubus idaeus</i>	5	N	FAC		
5						
6						
7						
8						
9						
10						
		80	= Total Cover			
Herb Stratum	Plot Size (5 ft)	Absolute % Cover	Dominant Species	Indicator Status		
1	<i>Carex lacustris</i>	60	Y	OBL		
2	<i>Calamagrostis canadensis</i>	30	Y	OBL		
3	<i>Thelypteris palustris</i>	10	N	FACW		
4	<i>Symphotrichum puniceum</i>	5	N	OBL		
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
		105	= Total Cover			
Woody Vine Stratum	Plot Size ()	Absolute % Cover	Dominant Species	Indicator Status		
1						
2						
3						
4						
5						
		0	= Total Cover			

50/20 Thresholds		
	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	16	40
Herb Stratum	21	53
Woody Vine Stratum	0	0

Dominance Test Worksheet		
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)		

Prevalence Index Worksheet		
Total % Cover of:		
OBL species	95 x 1 =	<u>95</u>
FACW species	80 x 2 =	<u>160</u>
FAC species	10 x 3 =	<u>30</u>
FACU species	0 x 4 =	<u>0</u>
UPL species	0 x 5 =	<u>0</u>
Column totals	<u>185</u> (A)	<u>285</u> (B)
Prevalence Index = B/A = <u>1.54</u>		

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*
<input type="checkbox"/>	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	

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

