

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Wadena Sampling Date: 9/8/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: WA006b2W
 Investigator(s): RAJ/BJC Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): CL
 Slope (%): 0 - 2% Lat.: 46.794806 Long.: -94.874864 Datum: _____
 Soil Map Unit Name: 543 NWI Classification: PSS1C
 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?
 (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>	Is the sampled area within a wetland? <u>Y</u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) A Willow-Carr community dominated by meadow willow and red osier dogwood with a lush herb layer of bluejoint grass and tussock sedge. All parameters of wetland conditions are met.	

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	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 (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface water present? Yes <input type="checkbox"/> Depth (inches): _____ Water table present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>12</u> Saturation present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>8</u> (includes capillary fringe)	Indicators of wetland hydrology present? <u>Y</u>	
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____		
Remarks: Indicators of wetland hydrology are present.		

VEGETATION - Use scientific names of plants

Sampling Point:

WA006b2W

Tree Stratum			Absolute % Cover	Dominant Species	Indicator Status
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
			0 = Total Cover		

Sapling/Shrub Stratum			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Salix petiolaris</i>		40	Y	FACW
2	<i>Cornus alba</i>		30	Y	FACW
3					
4					
5					
6					
7					
8					
9					
10					
			70 = Total Cover		

Herb Stratum			Absolute % Cover	Dominant Species	Indicator Status
1	<i>Galium aparine</i>		60	Y	OBL
2	<i>Carex stricta</i>		30	Y	OBL
3	<i>Thelypteris palustris</i>		30	Y	FACW
4	<i>Carex lasiocarpa</i>		5	N	OBL
5	<i>Comarostaphylis palustris</i>		3	N	OBL
6	<i>Panicum capillare</i>		3	N	OBL
7					
8					
9					
10					
11					
12					
13					
14					
15					
			131 = Total Cover		

Woody Vine Stratum			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	14	35
Herb Stratum	26	66
Woody Vine Stratum	0	0

Dominance Test Worksheet		
Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A)		
Total Number of Dominant Species Across all Strata: <u>5</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	<u>101</u> x 1 =	<u>101</u>
FACW species	<u>100</u> x 2 =	<u>200</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>201</u> (A)	<u>301</u> (B)
Prevalence Index = B/A = <u>1.50</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*		
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>

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

A Willow-Carr community dominated by meadow willow and red osier dogwood with a lush herbaceous layer of bluejoint grass and tussock sedge. Hydrophytic vegetation is present.

