

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 5/28/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CRC5168j1W
 Investigator(s): BJC/DGL Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): CC
 Slope (%): 0 - 2% Lat.: 46.629544 Long.: -92.484951 Datum: _____
 Soil Map Unit Name: 355E NWI Classification: PSS1B
 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.) The wetland is an alder thicket located within an NWI mapped wetland.	

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 checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" 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 Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave 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 (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input 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>1</u> Saturation present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>0</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: The water table was observed at a depth of one inch within the soil pit.		

VEGETATION - Use scientific names of plants

Sampling Point:

CRC5168j1W

Tree Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (30 ft)											
1	<i>Fraxinus nigra</i>		25		Y	FACW					
2											
3											
4											
5											
6											
7											
8											
9											
10											
			25	= Total Cover							
Sapling/Shrub Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (15 ft)											
1	<i>Alnus incana</i>		70		Y	FACW					
2											
3											
4											
5											
6											
7											
8											
9											
10											
			70	= Total Cover							
Herb Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (5 ft)											
1	<i>Caltha palustris</i>		60		Y	OBL					
2	<i>Equisetum sylvaticum</i>		25		Y	FACW					
3	<i>Onoclea sensibilis</i>		10		N	FACW					
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
			95	= Total Cover							
Woody Vine Stratum			Absolute % Cover			Dominant Species			Indicator Status		
Plot Size (30 ft)											
1											
2											
3											
4											
5											
			0	= Total Cover							

50/20 Thresholds		20%	50%
Tree Stratum		5	13
Sapling/Shrub Stratum		14	35
Herb Stratum		19	48
Woody Vine Stratum		0	0

Dominance Test Worksheet	
Number of Dominant Species that are OBL, FACW, or FAC:	4 (A)
Total Number of Dominant Species Across all Strata:	4 (B)
Percent of Dominant Species that are OBL, FACW, or FAC:	100.00% (A/B)

Prevalence Index Worksheet	
Total % Cover of:	
OBL species	$\frac{60}{130} \times 1 = \frac{60}{260}$
FACW species	$\frac{130}{0} \times 2 = \frac{260}{0}$
FAC species	$\frac{0}{0} \times 3 = \frac{0}{0}$
FACU species	$\frac{0}{0} \times 4 = \frac{0}{0}$
UPL species	$\frac{0}{190} \times 5 = \frac{0}{320}$
Column totals	190 (A) 320 (B)
Prevalence Index = B/A =	1.68

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?	Y
--	---

Remarks: (Include photo numbers here or on a separate sheet)
 Numerous fallen black ash trees were present at the time of survey.

