

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: CRC5168j1U
 Investigator(s): BJC/DGL Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Side slope Local relief (concave, convex, none): CL
 Slope (%): 3 - 7% Lat.: 46.629511 Long.: -92.484638 Datum: _____
 Soil Map Unit Name: 355C 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?
 (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>	Is the sampled area within a wetland? <u> N </u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The upland sample point is located upslope from the wetland in a mesic hardwood forest.	

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 <input type="checkbox"/> Drift Deposits (B3) Living 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 Soils (C6) Imagery (B7) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Sparsely Vegetated Concave <input type="checkbox"/> Other (Explain in Remarks) 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 type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface water present? Yes <input type="checkbox"/> Depth (inches): _____ Water table present? Yes <input type="checkbox"/> Depth (inches): _____ Saturation present? Yes <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Indicators of wetland hydrology present? <u> N </u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available: No indicators of wetland hydrology were present at the sample point.	
Remarks:	

VEGETATION - Use scientific names of plants

Sampling Point:

CRC5168J1U

Tree Stratum		Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Acer rubrum</i>		35	Y	FAC
2					
3					
4					
5					
6					
7					
8					
9					
10					
			35 = Total Cover		

Sapling/Shrub Stratum		Plot Size (15 ft)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Alnus incana</i>		10	Y	FACW
2					
3					
4					
5					
6					
7					
8					
9					
10					
			10 = Total Cover		

Herb Stratum		Plot Size (5 ft)	Absolute % Cover	Dominant Species	Indicator Status
1	<i>Allium tricoccum</i>		50	Y	FACU
2	<i>Uvularia grandiflora</i>		20	Y	NI
3	<i>Athyrium filix-femina</i>		10	N	FAC
4	<i>Dicentra cucullaria</i>		10	N	NI
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
			90 = Total Cover		

Woody Vine Stratum		Plot Size (30 ft)	Absolute % Cover	Dominant Species	Indicator Status
1					
2					
3					
4					
5					
			0 = Total Cover		

50/20 Thresholds		
	20%	50%
Tree Stratum	7	18
Sapling/Shrub Stratum	2	5
Herb Stratum	18	45
Woody Vine Stratum	0	0

Dominance Test Worksheet	
Number of Dominant Species that are OBL, FACW, or FAC:	2 (A)
Total Number of Dominant Species Across all Strata:	4 (B)
Percent of Dominant Species that are OBL, FACW, or FAC:	50.00% (A/B)

Prevalence Index Worksheet	
Total % Cover of:	
OBL species	0 x 1 = 0
FACW species	10 x 2 = 20
FAC species	45 x 3 = 135
FACU species	50 x 4 = 200
UPL species	0 x 5 = 0
Column totals	105 (A) 355 (B)
Prevalence Index = B/A =	3.38

Hydrophytic Vegetation Indicators:

Rapid test for hydrophytic vegetation

Dominance test is >50%

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

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? N

Remarks: (Include photo numbers here or on a separate sheet)
The upland is dominated by non-hydrophytic vegetation.

