

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City/County: Carlton Sampling Date: 5/31/2014
 Applicant/Owner: Enbridge State: MN Sampling Point: CRR51009e1U
 Investigator(s): KRG/NTT Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Rise Local relief (concave, convex, none): VV
 Slope (%): 0 - 2% Lat.: 46.581058 Long.: -92.603328 Datum: _____
 Soil Map Unit Name: 504C 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>Y</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 point is located in a coniferous forest with sparse ground cover.	

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:	
Remarks: No indicators of wetland hydrology were observed.	

VEGETATION - Use scientific names of plants

Sampling Point:

CRR51009e1U

Tree Stratum				Plot Size (30 ft)		
	Absolute % Cover	Dominant Species	Indicator Status			
1	50	Y	FAC			
2	25	Y	FAC			
3						
4						
5						
6						
7						
8						
9						
10						
	<u>75</u>	= Total Cover				
Sapling/Shrub Stratum				Plot Size (15 ft)		
	Absolute % Cover	Dominant Species	Indicator Status			
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
	<u>0</u>	= Total Cover				
Herb Stratum				Plot Size (5 ft)		
	Absolute % Cover	Dominant Species	Indicator Status			
1	45	Y	FACU			
2	10	N	FACU			
3	5	N	FAC			
4	5	N	FACU			
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
	<u>65</u>	= Total Cover				
Woody Vine Stratum				Plot Size (30 ft)		
	Absolute % Cover	Dominant Species	Indicator Status			
1						
2						
3						
4						
5						
	<u>0</u>	= Total Cover				

50/20 Thresholds		
	20%	50%
Tree Stratum	15	38
Sapling/Shrub Stratum	0	0
Herb Stratum	13	33
Woody Vine Stratum	0	0

Dominance Test Worksheet		
Number of Dominant Species that are OBL, FACW, or FAC:	<u>2</u>	(A)
Total Number of Dominant Species Across all Strata:	<u>3</u>	(B)
Percent of Dominant Species that are OBL, FACW, or FAC:	<u>66.67%</u>	(A/B)

Prevalence Index Worksheet		
Total % Cover of:		
OBL species	<u>0</u> x 1 =	<u>0</u>
FACW species	<u>0</u> x 2 =	<u>0</u>
FAC species	<u>80</u> x 3 =	<u>240</u>
FACU species	<u>60</u> x 4 =	<u>240</u>
UPL species	<u>0</u> x 5 =	<u>0</u>
Column totals	<u>140</u> (A)	<u>480</u> (B)
Prevalence Index = B/A =	<u>3.43</u>	

Hydrophytic Vegetation Indicators:		
<input type="checkbox"/>	Rapid test for hydrophytic vegetation	
<input checked="" type="checkbox"/>	Dominance test is >50%	
<input 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>

Remarks: (Include photo numbers here or on a separate sheet)
 The upland point is dominated by balsam fir, with sparse ground cover of mostly Canada mayflower.

