

**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: SPP City/County: Carlton Sampling Date: 5/29/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: CRC5039b6U  
 Investigator(s): BJC/DGL Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Rise Local relief (concave, convex, none): VL  
 Slope (%): 0 - 2% Lat.: 46.586874 Long.: -92.907173 Datum: \_\_\_\_\_  
 Soil Map Unit Name: V166 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>	<b>Is the sampled area within a wetland?</b> <u>    N    </u> If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The sample point is located on an upland area within a large wetland complex. The canopy is dominated by red pine.	

**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)	<b>Indicators of wetland hydrology present?</b> <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:

CRC5039b6U

Tree Stratum				Plot Size ( 30 ft )		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Pinus resinosa</i>		70	Y	FACU			
2								
3								
4								
5								
6								
7								
8								
9								
10								
			70	= Total Cover				

  

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

  

Herb Stratum				Plot Size ( 5 ft )		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Thalictrum dioicum</i>		30	Y	FACU			
2	<i>Ranunculus hispidus</i>		25	Y	FAC			
3	<i>Fragaria virginiana</i>		20	Y	FACU			
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
			75	= 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	14	35
Sapling/Shrub Stratum	3	8
Herb Stratum	15	38
Woody Vine Stratum	0	0

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**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 5 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 40.00% (A/B)

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**Prevalence Index Worksheet**

Total % Cover of:

OBL species	0	x 1 =	<u>0</u>
FACW species	15	x 2 =	<u>30</u>
FAC species	25	x 3 =	<u>75</u>
FACU species	120	x 4 =	<u>480</u>
UPL species	0	x 5 =	<u>0</u>
Column totals	<u>160</u>	(A)	<u>585</u>
			(B)
Prevalence Index = B/A =	<u>3.66</u>		

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**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

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**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.

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**Hydrophytic vegetation present?** N

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

