

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

Project/Site: SPP City/County: Clearwater Sampling Date: 5/30/2014  
 Applicant/Owner: Enbridge State: MN Sampling Point: CLC5077x1W  
 Investigator(s): EAB/RAJ Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.) Depression Local relief (concave, convex, none) CC  
 Slope (%): 0 - 2% Lat.: 47.090879 Long.: -95.266474 Datum: \_\_\_\_\_  
 Soil Map Unit Name: 40C 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>Y</u> Indicators of wetland hydrology present? <u>Y</u>	<b>Is the sampled area within a wetland?</b> <u>Y</u>  If yes, optional wetland site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) The wetland is a wet black ash forest located in a small basin amidst 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 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 <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 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>8</u> Saturation present? Yes <input checked="" type="checkbox"/> Depth (inches): <u>8</u> (includes capillary fringe)	<b>Indicators of wetland hydrology present?</b> <u>Y</u>
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Water table and saturation were observed 8 inches below the surface. There was an impermeable layer at 10 inches; water flowed into the soil sample pit from above this impermeable layer.	

**VEGETATION** - Use scientific names of plants

Sampling Point:

CLC5077x1W

Tree Stratum					Plot Size ( 30 ft )		Absolute % Cover	Dominant Species	Indicator Status
1	<i>Fraxinus nigra</i>						60	Y	FACW
2									
3									
4									
5									
6									
7									
8									
9									
10									
						<u>60</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	<i>Carex tuckermanii</i>						15	Y	OBL
2	<i>Ranunculus abortivus</i>						1	N	FAC
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
						<u>16</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	12	30
Sapling/Shrub Stratum	0	0
Herb Stratum	3	8
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: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

OBL species	<u>15</u>	x 1 =	<u>15</u>
FACW species	<u>60</u>	x 2 =	<u>120</u>
FAC species	<u>1</u>	x 3 =	<u>3</u>
FACU species	<u>0</u>	x 4 =	<u>0</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column totals	<u>76</u>	(A)	<u>138</u>
			(B)
Prevalence Index = B/A =			<u>1.82</u>

**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?** Y

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

The wetland is very open. Black ash constitutes the canopy layer and Tuckerman's sedge is the only other species present in abundance.

