

**WETLAND DETERMINATION DATA FORM - North Central and Northeast Region**

Project/Site: SPP City/County: Carlton Sampling Date: 2015-06-12  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: CRC5110b1U  
 Investigator(s): ACM/KRG Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): \_\_\_\_\_ rise \_\_\_\_\_ Local Relief (concave, convex, none): \_\_\_\_\_ Conve... \_\_\_\_\_ Slope (%): 3-7  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 46.5850077895... Longitude: -92.63324637... Datum: Minnesota State ...  
 Soil Map Unit Name: 1073 NWI Classification: \_\_\_\_\_

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): \_\_\_\_\_ Yes \_\_\_\_\_  
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks)

**SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	<u>Yes</u>	<b>Is the Sampled Area within a Wetland?</b>	<u>No</u>
Hydric Soil Present?	<u>No</u>		
Wetland Hydrology Present?	<u>No</u>		
Remarks: (Explain alternative procedures here or in a separate report.) The upland area is located on a rise between two hardwood swamps. The vegetation is dominated by black ash; however, the understory is composed ...			

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted/Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> Marl Deposits (B15)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b>	<u>No</u>
Surface Water Present?	<u>No</u> Depth (inches) _____		
Water Table Present?	<u>No</u> Depth (inches) _____		
Saturation Present? (includes capillary fringe)	<u>No</u> Depth (inches) _____		

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: CRC5110b...

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot Size: <u>30</u> )				<b>Dominance Test worksheet:</b> 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>66.6666666666...</u> (A/B)
1. <u>Fraxinus nigra</u>	<u>50.00</u>	<u>Yes</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
50 _____ = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: <span style="float:right"><b>Multiply by:</b></span> OBL species <u>0.00</u> x 1 <u>0</u> FACW species <u>90.00</u> x 2 <u>180</u> FACU species <u>47.00</u> x 3 <u>320</u> UPL species <u>25.00</u> x 4 <u>125</u> Column Totals <u>242</u> (A) <u>766</u> (B) Prevalence Index = B/A = <u>3.165289</u>
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15</u> )				
1. <u>Fraxinus nigra</u>	<u>40.00</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Cornus racemosa</u>	<u>25.00</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Viburnum rafinesquianum</u>	<u>5.00</u>	<u>No</u>	_____	
4. <u>Viburnum lentago</u>	<u>5.00</u>	<u>No</u>	<u>FAC</u>	
5. <u>Amelanchier humilis</u>	<u>2.00</u>	<u>No</u>	_____	
77 _____ = Total Cover				
<b>Herb Stratum</b> (Plot Size: <u>5</u> )				<b>Hydrophytic Vegetation Indicators:</b> _____ 1 - Rapid Test for Hydrophytic Vegetation <u>yes</u> 2 - Dominance Test is > 50% <u>no</u> 3 - Prevalence Index is ≤ 3.0 <sup>1</sup> _____ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Carex gracillima</u>	<u>35.00</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Asarum canadense</u>	<u>15.00</u>	<u>No</u>	<u>UPL</u>	
3. <u>Milium effusum</u>	<u>15.00</u>	<u>No</u>	<u>FACU</u>	
4. <u>Luzula acuminata</u>	<u>15.00</u>	<u>No</u>	<u>FACU</u>	
5. <u>Rhamnus cathartica</u>	<u>10.00</u>	<u>No</u>	<u>FAC</u>	
6. <u>Carex peckii</u>	<u>10.00</u>	<u>No</u>	_____	
7. <u>Eurybia macrophylla</u>	<u>10.00</u>	<u>No</u>	<u>UPL</u>	
8. <u>Osmorhiza claytonii</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
9. <u>Cornus racemosa</u>	<u>5.00</u>	<u>No</u>	<u>FAC</u>	
10. <u>Aralia nudicaulis</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
11. <u>Thalictrum dioicum</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	
12. <u>Lactuca biennis</u>	<u>2.00</u>	<u>No</u>	<u>FAC</u>	
132 _____ = Total Cover				
<b>Woody Vine Stratum</b> (Plot Size: _____)				<b>Definitions of Vegetation Strata:</b> <b>Tree</b> - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height. <b>Sapling/Shrub</b> - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. <b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> - All woody vines greater than 3.28 ft in height.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
0 _____ = Total Cover				
<b>Remarks:</b> (include photo numbers here or on a separate sheet.)				<b>Hydrophytic Vegetation Present?</b> _____
The upland canopy is dominated by black ash with an understory composed of mixed shrubs and herbaceous species. The site passes the Dominance Test because black ash was domi...				

