

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

Project/Site: I3\_mainline City/County: Clearwater Sampling Date: 2017-06-19  
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-146n36w7-e2  
 Investigator(s): SMR, TDT Section, Township, Range: S7, T146N, R36W  
 Landform (hillslope, terrace, etc.): Rise Local Relief (concave, convex, none): VV Slope (%): 3-7%  
 Subregion (LRR or MLRA): \_\_\_\_\_ Latitude: 47.476964495189 Longitude: -95.29657272... Datum: NAD83  
 Soil Map Unit Name: 40C NWI Classification: N/A  
 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>No</u>	<b>Is the Sampled Area</b>
Hydric Soil Present?	<u>No</u>	<b>within a Wetland?</b> <span style="float:right;"><u>No</u></span>
Wetland Hydrology Present?	<u>No</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  UPLAND		

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	<b>Secondary Indicators (minimum of two required)</b>
<b>Primary Indicators (minimum of one is required; check all that apply)</b>	
<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>	
Surface Water Present? <u>No</u> Depth (inches) _____	<b>Wetland Hydrology Present?</b> <u>No</u>
Water Table Present? <u>No</u> Depth (inches) _____	
Saturation Present? <u>No</u> Depth (inches) _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:  
UPLAND

**VEGETATION** - Use scientific names of plants.

Sampling Point: u-146n36w7-e2

	Absolute % Cover	Dominant Species?	Indicator Status		
<b>Tree Stratum</b> (Plot Size: <u>30</u> )				<b>Dominance Test worksheet:</b>	
1. <u>Acer saccharum</u>	<u>40.00</u>	<u>Yes</u>	<u>UPL</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)	
2. <u>Quercus rubra</u>	<u>20.00</u>	<u>Yes</u>	<u>FACU</u>	Total Number of Dominant Species Across All Strata: <u>5</u> (B)	
3. <u>Tilia americana</u>	<u>10.00</u>	<u>No</u>	<u>FACU</u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20</u> (A/B)	
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>	
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>70</u> = Total Cover					<b>Total % Cover of:</b>
<b>Sapling/Shrub Stratum</b> (Plot Size: <u>15</u> )					<b>Multiply by:</b>
1. <u>Acer saccharum</u>	<u>15.00</u>	<u>Yes</u>	<u>UPL</u>		OBL species <u>0.00</u> x 1 <u>0</u>
2. _____	_____	_____	_____	FACW species <u>0.00</u> x 2 <u>0</u>	
3. _____	_____	_____	_____	FACU species <u>80.00</u> x 3 <u>320</u>	
4. _____	_____	_____	_____	UPL species <u>85.00</u> x 4 <u>425</u>	
5. _____	_____	_____	_____	Column Totals <u>185</u> (A) <u>805</u> (B)	
6. _____	_____	_____	_____	Prevalence Index = B/A = <u>4.3513513...</u>	
7. _____	_____	_____	_____	<b>Hydrophytic Vegetation Indicators:</b>	
<u>15</u> = Total Cover				_____ 1 - Rapid Test for Hydrophytic Vegetation	
<b>Herb Stratum</b> (Plot Size: <u>5</u> )				no _____ 2 - Dominance Test is > 50%	
1. <u>Maianthemum stellatum</u>	<u>35.00</u>	<u>Yes</u>	<u>FACU</u>	no _____ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>	
2. <u>Carex woodii</u>	<u>30.00</u>	<u>Yes</u>	_____	_____ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
3. <u>Thalictrum dasycarpum</u>	<u>20.00</u>	<u>Yes</u>	<u>FAC</u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
4. <u>Pteridium aquilinum</u>	<u>10.00</u>	<u>No</u>	<u>FACU</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
5. <u>Eurybia macrophylla</u>	<u>5.00</u>	<u>No</u>	<u>FACU</u>	<b>Definitions of Vegetation Strata:</b>	
6. _____	_____	_____	_____	<b>Tree</b> - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.	
7. _____	_____	_____	_____	<b>Sapling/Shrub</b> - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
8. _____	_____	_____	_____	<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
9. _____	_____	_____	_____	<b>Woody vines</b> - All woody vines greater than 3.28 ft in height.	
10. _____	_____	_____	_____	<b>Hydrophytic Vegetation Present?</b> <u>No</u>	
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
<u>100</u> = Total Cover					
<b>Woody Vine Stratum</b> (Plot Size: <u>30</u> )					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
<u>0</u> = Total Cover					

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

