

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: L3R City/County: Clearwater Sampling Date: 2016-07-01
 Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-149n38w23-aa1
 Investigator(s): DPT, ZCW Section, Township, Range: S23, T149N, R38W
 Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CL Slope (%): 0-2%
 Subregion (LRR or MLRA): _____ Latitude: 47.7027580049... Longitude: -95.47684038... Datum: NAD83
 Soil Map Unit Name: 38C2 NWI Classification: PEMC
 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>	Is the Sampled Area within a Wetland? If yes, optional Wetland Site ID: <u>w-149n38w23-aa</u>
Hydric Soil Present?	<u>Yes</u>	
Wetland Hydrology Present?	<u>Yes</u>	
Remarks: (Explain alternative procedures here or in a separate report.) No digging, existing field road, potential buried utilities.		

HYDROLOGY

Wetland Hydrology Indicators:	<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	
<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 checked="" 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 checked="" 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 checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?	<u>Yes</u>
Surface Water Present?	<u>No</u>	Depth (inches)	_____
Water Table Present?	_____	Depth (inches)	_____
Saturation Present?	<u>Yes</u>	Depth (inches)	<u>0</u>
(includes capillary fringe)			

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

Remarks:
No digging, could not confirm/deny water table. Saturation observed at surface.

VEGETATION - Use scientific names of plants.

Sampling Point: w-149n38...

	Absolute % Cover	Dominant Species?	Indicator Status		
Tree Stratum (Plot Size: <u>30</u>)					
1. <u>Fraxinus pennsylvanica</u>	<u>60.00</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75</u> (A/B)	
2. <u>Ulmus americana</u>	<u>10.00</u>	<u>No</u>	<u>FAC</u>		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>70</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: OBL species <u>0.00</u> x 1 <u>0</u> FACW species <u>100.00</u> x 2 <u>200</u> FACU species <u>10.00</u> x 3 <u>40</u> UPL species <u>0.00</u> x 4 <u>0</u> Column Totals <u>180</u> (A) <u>450</u> (B) Prevalence Index = B/A = <u>2.5</u>	
Sapling/Shrub Stratum (Plot Size: <u>15</u>)					
1. <u>Tilia americana</u>	<u>10.00</u>	<u>Yes</u>	<u>FACU</u>		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>10</u> = Total Cover				Hydrophytic Vegetation Indicators: _____ 1 - Rapid Test for Hydrophytic Vegetation <u>yes</u> 2 - Dominance Test is > 50% <u>yes</u> 3 - Prevalence Index is ≤ 3.0 ¹ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Herb Stratum (Plot Size: <u>5</u>)					
1. <u>Phalaris arundinacea</u>	<u>70.00</u>	<u>Yes</u>	<u>FACW</u>		
2. <u>Impatiens capensis</u>	<u>20.00</u>	<u>Yes</u>	<u>FACW</u>		
3. <u>Poa palustris</u>	<u>10.00</u>	<u>No</u>	<u>FACW</u>		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
<u>100</u> = Total Cover				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaecous (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.	
Woody Vine Stratum (Plot Size: <u>30</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
<u>0</u> = Total Cover				Hydrophytic Vegetation Present? <u>Yes</u>	
Remarks: (include photo numbers here or on a separate sheet.)					

Site Photograph 1

Sampling Point: w-149n38w23-aa1



Latitude: 47.7027580468428

Cowardin Classification: PFO

Longitude: -95.4768403061623

Circular 39: 7

Direction: east

Eggers & Reed: Hardwood Swamp/Coniferous Swamp

Remarks:

Empty rectangular box for remarks.

Site Photograph 2

Sampling Point: w-149n38w23-aa1



Latitude: 47.7027580468428

Cowardin Classification: PFO

Longitude: -95.4768403061623

Circular 39: 7

Direction: west

Eggers & Reed: Hardwood Swamp/Coniferous Swamp

Remarks: