

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP City/County: Clearwater Sampling Date: 2016-07-21

Applicant/Owner: Enbridge State: Minnesota Sampling Point: u-144n36w24-ab1

Investigator(s): ZCW Section, Township, Range: S 24, T 144N, R 36W

Landform (hillslope, terrace, etc.): Shoulder Local Relief (concave, convex, none): VL Slope (%): 3-7%

Subregion (LRR or MLRA): _____ Latitude: 47.2826041281... Longitude: -95.18592942... Datum: NAD83

Soil Map Unit Name: 267B 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>	Is the Sampled Area within a Wetland?	
Hydric Soil Present?	<u>No</u>		<u>No</u>
Wetland Hydrology Present?	<u>No</u>		If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)			

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 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)	

Field Observations:		Wetland Hydrology Present?	<u>No</u>
Surface Water Present?	<u>No</u>	Depth (inches)	_____
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:

VEGETATION - Use scientific names of plants.

Sampling Point: u-144n36...

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot Size: <u>30</u>)				Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species
2. _____	_____	_____	_____	That Are OBL, FACW, or FAC: <u>0</u> (A)
3. _____	_____	_____	_____	Total Number of Dominant
4. _____	_____	_____	_____	Species Across All Strata: <u>1</u> (B)
5. _____	_____	_____	_____	Percent of Dominant Species
6. _____	_____	_____	_____	That Are OBL, FACW, or FAC: <u>0</u> (A/B)
7. _____	_____	_____	_____	Prevalence Index worksheet:
	<u>0</u> = Total Cover			Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot Size: <u>15</u>)				OBL species <u>0.00</u> x 1 <u>0</u>
1. _____	_____	_____	_____	FACW species <u>0.00</u> x 2 <u>0</u>
2. _____	_____	_____	_____	FACU species <u>90.00</u> x 3 <u>360</u>
3. _____	_____	_____	_____	UPL species <u>0.00</u> x 4 <u>0</u>
4. _____	_____	_____	_____	Column Totals <u>95</u> (A) <u>375</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.9473684...</u>
6. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:
7. _____	_____	_____	_____	_____ 1 - Rapid Test for Hydrophytic Vegetation
	<u>0</u> = Total Cover			no _____ 2 - Dominance Test is > 50%
Herb Stratum (Plot Size: <u>5</u>)				no _____ 3 - Prevalence Index is ≤ 3.0 ¹
1. Phleum pratense	55.00	Yes	FACU	_____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Trifolium repens	15.00	No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Poa pratensis	10.00	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Solidago canadensis	10.00	No	FACU	Definitions of Vegetation Strata:
5. Plantago major	5.00	No	FAC	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
6. _____	_____	_____	_____	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
7. _____	_____	_____	_____	Herb - All herbaecous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
8. _____	_____	_____	_____	Woody vines - All woody vines greater than 3.28 ft in height.
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>95</u> = Total Cover			
Woody Vine Stratum (Plot Size: _____)				Hydrophytic Vegetation Present? <u>No</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Remarks: (include photo numbers here or on a separate sheet.)				

Site Photograph 1

Sampling Point: u-144n36w24-ab1



Latitude: 47.2826043377139

Cowardin Classification: _____

Longitude: -95.1859291736923

Circular 39: _____

Direction: East

Eggers & Reed: _____

Remarks:

Site Photograph 2

Sampling Point: u-144n36w24-ab1



Latitude: 47.282604589171

Cowardin Classification: _____

Longitude: -95.1859291736923

Circular 39: _____

Direction: West

Eggers & Reed: _____

Remarks: