

WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: I3_mainline City/County: Carlton Sampling Date: 2017-06-07

Applicant/Owner: Enbridge State: Minnesota Sampling Point: w-48n17w24-a1

Investigator(s): SMR, TDT Section, Township, Range: S24, T48N, R17W

Landform (hillslope, terrace, etc.): Depression Local Relief (concave, convex, none): CL Slope (%): 8-15%

Subregion (LRR or MLRA): _____ Latitude: 46.6256550327... Longitude: -92.43176202... Datum: NAD83

Soil Map Unit Name: 975E NWI Classification: N/A

Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): No

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?	
Hydric Soil Present?	<u>Yes</u>		<u>Yes</u>
Wetland Hydrology Present?	<u>Yes</u>		If yes, optional Wetland Site ID: <u>w-48n17w24-a</u>
Remarks: (Explain alternative procedures here or in a separate report.) <u>WETS analysis shows antecedent precipitation below normal. Lake fringe - open water composes 1/3 of the site.</u>			

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>yes</u> Surface Water (A1)	_____ Surface Soil Cracks (B6)
_____ High Water Table (A2)	_____ Drainage Patterns (B10)
<u>yes</u> Saturation (A3)	_____ Moss Trim Lines (B16)
_____ Water Marks (B1)	_____ Dry-Season Water Table (C2)
_____ Sediment Deposits (B2)	_____ Crayfish Burrows (C8)
_____ Drift Deposits (B3)	_____ Saturation Visible on Aerial Imagery (C9)
_____ Algal Mat or Crust (B4)	_____ Stunted/Stressed Plants (D1)
_____ Iron Deposits (B5)	<u>YES</u> Geomorphic Position (D2)
_____ Inundation Visible on Aerial Imagery (B7)	_____ Shallow Aquitard (D3)
_____ Sparsely Vegetated Concave Surface (B8)	_____ Microtopographic Relief (D4)
	<u>YES</u> FAC-Neutral Test (D5)

Field Observations:		Wetland Hydrology Present?	<u>Yes</u>
Surface Water Present?	<u>Yes</u> Depth (inches) <u>5</u>		
Water Table Present?	<u>Yes</u> Depth (inches) <u>0</u>		
Saturation Present? (includes capillary fringe)	<u>Yes</u> Depth (inches) <u>0</u>		

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

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: w-48n17w24-a1

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot Size: <u>30</u>)				Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	Total % Cover of: _____ Multiply by:
6. _____	_____	_____	_____	OBL species <u>60.00</u> x 1 <u>60</u>
7. _____	_____	_____	_____	FACW species <u>10.00</u> x 2 <u>20</u>
	<u>0</u> = Total Cover			FACU species <u>0.00</u> x 3 <u>0</u>
Sapling/Shrub Stratum (Plot Size: <u>15</u>)				UPL species <u>0.00</u> x 4 <u>0</u>
1. _____	_____	_____	_____	Column Totals <u>70</u> (A) <u>80</u> (B)
2. _____	_____	_____	_____	Prevalence Index = B/A = <u>1.1428571...</u>
3. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:
4. _____	_____	_____	_____	_____ 1 - Rapid Test for Hydrophytic Vegetation
5. _____	_____	_____	_____	yes _____ 2 - Dominance Test is > 50%
6. _____	_____	_____	_____	yes _____ 3 - Prevalence Index is ≤ 3.0 ¹
7. _____	_____	_____	_____	_____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	<u>0</u> = Total Cover			Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot Size: <u>5</u>)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <i>Carex stricta</i>	<u>40.00</u>	<u>Yes</u>	<u>OBL</u>	Definitions of Vegetation Strata:
2. <i>Iris versicolor</i>	<u>20.00</u>	<u>Yes</u>	<u>OBL</u>	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
3. <i>Calamagrostis canadensis</i>	<u>10.00</u>	<u>No</u>	<u>FACW</u>	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
4. _____	_____	_____	_____	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
5. _____	_____	_____	_____	Woody vines - All woody vines greater than 3.28 ft in height.
6. _____	_____	_____	_____	Hydrophytic Vegetation Present? <u>Yes</u>
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>70</u> = Total Cover			
Woody Vine Stratum (Plot Size: <u>30</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Remarks: (include photo numbers here or on a separate sheet.)				

