WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Applicant/Owner: Enbridge State: Minnesota Sampling Point: U-50n26w18-k1 Investigator(s): ZCW, MGH Section, Township, Range: \$18, T50N, R26W Local Relief (concave, convex, none): VL Slope (%): 0-2% Subregion (LRR or MLRA): Latitude: 46.8196107214 Longitude: -93.67747594 Datum: NAD83 Solid Map Unit Name: 282C Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): No 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? No _ within a Wetland? No _ lf yes, optional Wetland Site ID: Hydrophytic Vegetation Present? No _ within a Wetland? No _ lf yes, optional Wetland Site ID: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required): check all that apply) _ sufface Soil Cracks (86) Surface Water (A1) _ Water-Stained Leaves (89) _ Drainage Patterns (E10) High Water Table (A2) _ Aqualic Found (813) _ Most Time Intensity (816) Sufface Mater (A1) _ High Water Table (A2) _ Aqualic Found (813) _ Most Time Intensity (816) Sufface Mater (A1) _ High Water Table (A2) _ Aqualic Found (813) _ Most Time Intensity (816) Sufface Mater (A1) _ High Water Table (A2) _ Aqualic Found (813) _ Most Time Intensity (816) _ Dry-Season Water Table (C2) Dry-Season Water Table (C2) _ Crayfish Burrows (C3) _ Saturation Visible on Aerial Imagery (C3) _ Shallow Aqualitar (D2) _ Into Deposits (83) _ Presence of Reduced from (C4) _ Stutted/Stressed Plants (D1) _ Into Mack Surface (C7) _ Shallow Aqualitar (D2) _ Into Deposits (B3) _ Into Mack Surface (C7) _ Shallow Aqualitar (D3) _ Into Deposits (B3) _ Into Deposits (B3) _ FAC-Neutral Test (D5)					
Landform (hillslope, terrace, etc.): Shoulder Local Relief (concave, convex, none): VL Slope (%): 0-2% Subregion (LRR or MLRA): Latitude: 46.8196107214 Longitude: 93.67747594 Datum: NAD83 Soil Map Unit Name: 928C 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? No_ Is the Sampled Area within a Wetland? No_ within a Wetland? No_ within a Wetland? No_ within a Wetland? No_ If yes, optional Wetland Site ID: Hydric (Explain alternative procedures here or in a separate report.) Climatic conditions are "wet" based on the results of a WETS analysis. HYDROLOGY Wetland Hydrology Indicators: Surface Soil Cracks (86) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (86) Surface Water (A1) Water Table (A2) Aquatic Fauna (813) Moss Trim Lines (816) Surface Water (A1) Moss Trim Lines (816) Saturation (A3) Marl Deposits (815) Dry-Season Water Table (C2) Weter Marks (81) Hydrogen Sulfide Odor (C1) Cray(fish Burrows (C8) Suturation Visible on Aerial Imagery (C9) Drift Deposits (82) Algal Mat or Crust (84) Recent fron Reduction in Tilled Soils (C6) Geomorphic Position (D2) In nundation Visible on Aerial Imagery (87) Other (Explain in Remarks) Microtopographic Relief (D4) Spassely Vegetated Concave Surface (88)					
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Field Observations:					
Surface Water Present? No Depth (inches)					
Water Table Present? <u>No</u> Depth (inches)					
Saturation Present? No Depth (inches) Wetland Hydrology Present? No					
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30	% Cover	Species?	Status	Number of Dominant Species
1. Tilia americana	35.00	Yes	FACU	That Are OBL, FACW, or FAC: 0 (A)
2. Acer saccharum	20.00	Yes	UPL	Total Number of Dominant
3. Quercus rubra	10.00	No	FACU	Species Across All Strata: 5 (B)
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0 (A/B)
6.				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
7	65	= Total Cover		OBL species 0.00 x 1 0
Capling/Chrish Ctratum /Diot Circ. 15	03	- Total Cover		
Sapling/Shrub Stratum (Plot Size: 15 1. Corylus cornuta	5.00	Yes	UPL	
	3.00	163	OFL	
2				UPL species <u>25.00</u> x 4 <u>125</u>
3				Column Totals <u>130</u> (A) <u>545</u> (B)
4				Prevalence Index = B/A = <u>4.1923076</u>
5	-			Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50%
	5	= Total Cover		<u>no</u> 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations 1 (Provide
1. Poa pratensis	40.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
2. Trifolium repens	20.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6.		-		
				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
7				height (DBH), regardless of height.
8		-		Continue/Charak Manda along the analysis DDU and accept the
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.		- <u></u>		woody plants less than 3.20 it tall.
	60	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30				
1.				
2				Hydrophytic
2		-		Vegetation
3		-		Present?
4				
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet.)			

Sampling Point: u-50n26w... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** Loc² (inches) Color (moist) Color (moist) % Type¹ Texture Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil³: Hydric Soil Indicators: Polyvalue Below Surface (S8) (LRR R, MLRA Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, M) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Maganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (explain in remarks) Restrictive Layer (if observed): Hydric Soil Present? No Depth (inches): Remarks: Sample point taken along existing forest road. No soil pit taken.

Site Photograph 1 Sampling Point: u-50n26w18-k1



May 7
tion:

Site Photograph 2 Sampling Point: u-50n26w18-k1



	文学 电型 风机	
Latitude:	46.8195923231978	Cowardin Classification:
Longitude:	-93.6775190290936	Circular 39:
Direction: Nor	theast	Eggers & Reed:
Remarks:		
Upland		