WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Applicant/Owner: Enbridge
Local relief (concave, convex, none): concave Subpegion (LRR or MLRA): LRR K Lat: 46 52.3859 NWI classification: N/A Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation
Local relief (concave, convex, none): concave Slope:0_0
Soil Map Unit Name: 546 NWI classification: N/A
Soil Map Unit Name: 546 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No \ Are Vegetation , Soil , or Hydrology 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? Yes No \ Is the Sampled Area within a Wetland? Yes No \ No
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Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Wetland Hydrology Present? Yes No No Is the Sampled Area within a Wetland? WETS analysis shows precip is below normal. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Soil Cracks (Bo) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Surfacing Water Marks (B1) Marl Deposits (B15) Dry Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation (Visible on Aerial Imagery (C9) Sediment Deposits (B2) Oxidized Rhizospheres along Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Hydrophytic Vegetation Present? Yes No No hydrology Present? Yes No
Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present? WETS analysis shows precip is below normal. Hydrology Wetland Hydrology Wetland Hydrology Wetland Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Mari Deposits (B15) Mari Deposits (B15) Mari Deposits (B16) Sediment Deposits (B2) Oxidized Rhizospheres along Living Roots (C3) Drift deposits (B3) Presence of Reduced Iron (C4) Is the Sampled Area within a Wetland? Yes No No No No No Secondary Indicators (minimum of 2 required) Secondary Indicators (minimum of 2 required) Secondary Indicators (minimum of 2 required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3)
Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in a separate report.) WETS analysis shows precip is below normal. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of 2 required) Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres along Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
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☐ Drift deposits (B3) ☐ Presence of Reduced Iron (C4) ☐ Stunted or Stressed Plants (D1)
☐ Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Geomorphic Position (D2) ☐ Iron Deposits (B5) ☐ Thin Muck Surface (C7) ☐ Shallow Aquitard (D3)
This work surface (07)
☐ Inundation visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Microtopographic Relief (D4) ☐ Sparsely Vegetated Concave Surface (B8) ☐ FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes No Depth (inches): 4
Water Table Present? Yes No Depth (inches): 0
Saturation Present? Ves No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
besonder butta (stream gauge, monitoring wen, acriai proces, previous inspections), ii available.
Remarks:

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCING Harnes of pla	Sampling Point: w-51n24w25-e1			
(0) - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	0			Species Across All Strata:
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:
6	0			That Are ODE, TACW, OF FAC.
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove	r	Total % Cover of:
1 Alnus incana	70	✓	FACW	
2	0	П		FACW species
3				FAC species x 3 =0
4				FACU species0 x 4 =0
5				UPL speci es $0 \times 5 = 0$
6				Column Total s: 140 (A) 210 (B)
7				Prevalence Index = B/A = 1.500
		= Total Cove		
Herb Stratum (Plot size: 5		- Total Gove		Hydrophytic Vegetation Indicators:
1 Carex laslocarpa	70	✓	OBL	Rapid Test for Hydrophytic Vegetation
2				✓ Dominance Test is > 50%
3				Prevalence Index is ≤3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting
5				data in Remarks or on a separate sheet)
6				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				_
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
l1				at breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30	=	= Total Cove	·	greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0	П		size, and woody plants less than 3.28 ft tall.
3		\Box		
4	0	П		Woody vine - All woody vines greater than 3.28 ft in height.
4		= Total Cove		Thoight.
		- Total Cove		
				Hydrophytic
				Vegetation V
				Present? Yes No
Remarks: (Include photo numbers here or on a separate sh	eet.)			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-51n24w25-e1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth Matrix				lox Features						
(inches)	Color (moist)	<u> </u>	Color (moist)	<u>%</u> <u>Type</u> ¹	Loc2	Texture	Remarks			
0-20	10YR 3/3	100				Peat				
	-		-							
						-				
¹ Type: C=Cond	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Covere	d or Coated Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=Ma	atrix			
Hydric Soil I	ndicators:					Indicators for Proble	matic Hydric Soils: 3			
✓ Histosol (A	A1)		Polyvalue Below	v Surface (S8) (LRR F			LRR K, L, MLRA 149B)			
Histic Epip	edon (A2)		MLRA 149B)	(00) (100 0 1110			(A16) (LRR K, L, R)			
Black Histi				ice (S9) (LRR R, MLR	A 149B)		r Peat (S3) (LRR K, L, R)			
	Sulfide (A4)			Mineral (F1) LRR K, L)		Dark Surface (S7)				
	Layers (A5)		Loamy Gleyed N			Polyvalue Below Surface (S8) (LRR K, L)				
	Below Dark Surface (A	11)	☐ Depleted Matrix☐ Redox Dark Sur			☐ Thin Dark Surface (S9) (LRR K, L)				
	Surface (A12)					☐ Iron-Manganese Masses (F12) (LRR K, L, R)				
	ck Mineral (S1)	☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8)				Piedmont Floodplai	n Soils (F19) (MLRA 149B)			
	yed Matrix (S4)		☐ Redox Depressi	ons (10)		Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)			
Sandy Red						Red Parent Materia	l (F21)			
Stripped Matrix (S6)				Very Shallow Dark Surface (TF12)						
☐ Dark Surfa	ace (S7) (LRR R, MLRA	(149B)				Other (Explain in R	emarks)			
³ Indicators of	hydrophytic vegetatio	n and wetlan	d hydrology must be p	resent, unless disturb	ed or proble	ematic.				
Restrictive La	ayer (if observed):									
Type:										
Depth (inch	nes):					Hydric Soil Present?	Yes ● No ○			
Remarks:										
Kemarks.										