## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Sampli	Sampling Date: 08-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-51n21w23-a2	
Investigator(s): SMR	Section, T	ownship, Range: S. 23	<b>T.</b> 51N	<b>R.</b> 21W	
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	concave, convex, none):	concave	Slope: 0.0 % / 0.0 °	
Subregion (LRR or MLRA): LRR K	<b>it.:</b> 46 53.2958	<b>Long.:</b> _9	2 57.2246	Datum: NAD 83	
Soil Map Unit Name: B107A	-		NWI classification:	PSS/EMB	
	cantly disturbed? Illy problematic?	Are "Normal Circu (If needed, explain	», explain in Remark mstances" present? n any answers in Re <b>ansects, impo</b>	Yes  No	
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area in a Wetland? Yes	: • No ()		
Remarks: (Explain alternative procedures here or in a separate i	report.)				

## Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)				
Primary Indicators (minimum of one required;	check all that apply)					
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)				
High 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)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	<ul> <li>Oxidized Rhizospheres along Living Roots (C3)</li> </ul>	Saturation Visible on Aerial Imagery (C9)				
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)		Geomorphic Position (D2)				
Iron Deposits (B5)						
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Sparsely Vegetated Concave Surface (B8)	Uther (Explain in Remarks)	Microtopographic Relief (D4)				
		FAC-neutral Test (D5)				
Field Observations						
Field Observations:         Surface Water Present?         Yes         No	Depth (inches): 0					
Water Table Present? Yes O No •	Depth (inches): 0					
Saturation Present?		ydrology Present? Yes $ullet$ No $igloo$				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						
Remarks.						

## **VEGETATION - Use scientific names of plants**

VEGETATION - Use scientific names of plan	Sampling Point: w-51n21w23-a2					
Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover		Indicator Status	Dominance Test worksheet:		
				Number of Dominant Species		
1. Larix laricina	10		FACW	That are OBL, FACW, or FAC:6(A)		
2				Total Number of Dominant		
3	0			Species Across All Strata: 6 (B)		
4	0					
5				Percent of dominant Species		
6				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
	0			Prevalence Index worksheet:		
7						
Sapling/Shrub Stratum (Plot size: 15 )	10 =	Total Cover		Total % Cover of: Multiply by:		
1. Salix petiolaris	20	$\checkmark$	FACW	OBL species $40$ x 1 = $40$		
		$\checkmark$	FACW	FACW species x 2 =260		
			TACW	FAC species $0 \times 3 = 0$		
3				FACU species $0 \times 4 = 0$		
4						
5	0					
6	0			Column Totals: <u>170</u> (A) <u>300</u> (B)		
7	0			Prevalence Index = $B/A = 1.765$		
	60 =	Total Cover				
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation		
1. Calamagrostis canadensis	20	$\checkmark$	OBL	✓ Dominance Test is > 50%		
2. Phalaris arundinacea	60	$\checkmark$	FACW			
3. Carex lacustris	20	$\checkmark$	OBL	✓ Prevalence Index is $\leq$ 3.0 <sup>1</sup>		
4	0			Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
5						
				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
7				be present, unless disturbed or problematic.		
8	0					
9	0			Definitions of Vegetation Strata:		
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
11				at breast height (DBH), regardless of height.		
12						
	-	Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall		
Woody Vine Stratum (Plot size: 30 )						
1	0			Herb - All herbaceous (non-woody) plants, regardless of		
2	0			size, and woody plants less than 3.28 ft tall.		
3	0			Weady vine All weady vince greater than 2.28 ft in		
1	0			Woody vine - All woody vines greater than 3.28 ft in height.		
4	0 =	Total Cover				
				Hydrophytic		
				Vegetation		
				Present? Yes • No ·		
Remarks: (Include photo numbers here or on a separate she	et.)					

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

US Army Corps of Engineers

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth (inchos)	Matrix Redox Featur										
(inches)	Color (		<u>%</u>	Color (m	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR	2/1	100						Silt Loam		
5-20	10YR	5/2	85	10YR	5/4	15	C	M	Very Fine Sandy Loam		
			-			-			<u>.</u>		
		-				-					
		8		·							
				·							
<sup>1</sup> Type: C=Con	centration. D	=Depletio	on. RM=Red	Juced Matrix, CS	=Cover	ed or Coat	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=Matr	ix	
Hydric Soil 1											
Histosol (				Polyval	ue Belov	w Surface	(S8) (LRR I	<del>.</del>	Indicators for Problem		
	pedon (A2)			MLRA	149B)				2 cm Muck (A10) (LRR K, L, MLRA 149B)		
Black Hist				Thin Da	ark Surfa	ace (S9) (	LRR R, MLF	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)		
Hydrogen	n Sulfide (A4)				Loamy Mucky Mineral (F1) LRR K, L)		<ul> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> <li>Dark Surface (S7) (LRR K, L, M)</li> </ul>				
Stratified	Layers (A5)					Matrix (F2	)		Polyvalue Below Surface (S8) (LRR K, L)		
Depleted	Below Dark S	Surface (A	.11)	✓ Deplete					Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Dar	rk Surface (A	12)				rface (F6)					
	uck Mineral (S				Depleted Dark Surface (F7)     Redox Depressions (F8)		Piedmont Floodplain Soils (F19) (MLRA 149B)				
	eyed Matrix (	S4)			Depress	SIONS (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy Re									Red Parent Material (F21)		
	Matrix (S6)								Very Shallow Dark Su	urface (TF12)	
	face (S7) (LR								Other (Explain in Ren	narks)	
<sup>3</sup> Indicators o	f hydrophytic	vegetatio	on and wetla	and hydrology m	ust be p	present, ur	nless disturl	bed or proble	ematic.		
Restrictive L	ayer (if obs	erved):									
Туре:										$\sim$	
Depth (inc	hes):								Hydric Soil Present?	Yes $\bullet$ No $\bigcirc$	
Remarks:											