## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis		Samp	ling Date: 14-Sep-17
Applicant/Owner: Enbridge		State: M	N	Sampling Point:	w-50n19w17-e3
Investigator(s): DPT	Section, T	ownship, Range:	<b>S.</b> 17	<b>T.</b> 50N	<b>R.</b> 19W
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	oncave, convex, i	none):	concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 49.1495	Lon		46.4994	Datum: NAD 83
Soil Map Unit Name: F137B	<u>н</u>		N	WI classification	• N/A
	ificantly disturbed? urally problematic?	(If needed,	l Circum explain	explain in Rema stances" present any answers in F I <b>NSECTS, İMP</b>	Yes ● No ○ Remarks.)
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area n a Wetland?	Yes	● No ○	
Remarks: (Explain alternative procedures here or in a separat	e report.)				

## Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)					
Primary Indicators (minimum of one required;	Surface Soil Cracks (B6)						
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)	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)					
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)					
Iron Deposits (B5)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	Uther (Explain in Remarks)	✓ FAC-neutral Test (D5)					
Field Observations:							
Surface Water Present? Yes $ullet$ No $ightarrow$	Depth (inches):4						
Water Table Present? Yes   No	Depth (inches): 0	drology Present? Yes $ullet$ No $igodoldsymbol{ extsf{No}}$					
Saturation Present? Yes  No	Depth (inches): 0	drology Present? Yes • No 🔾					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

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

VEGETATION - Use scientific names of plants				Sampling Point: w-50n19w17-e3			
Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
<u></u>				Number of Dominant Species That are OBL, FACW, or FAC:5(A)			
2	0			Total Number of Dominant			
3				Species Across All Strata:5(B)			
4				Percent of dominant Species			
5 6				That Are OBL, FACW, or FAC:100.0% (A/B)			
7				Prevalence Index worksheet:			
		Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15 )		_	FACIAL	OBL species <u>80</u> x 1 = <u>80</u>			
1. Alnus Incana 2. Salix petiolaris	<u>40</u> 20		FACW FACW	FACW species 90 x 2 =180			
2. Salix penolaris 3. Betula nigra			FACW	FAC species $0 \times 3 = 0$			
4				FACU species $0 \times 4 = 0$			
5				UPL species $0 \times 5 = 0$			
6			n	Column Totals: <u>170</u> (A) <u>260</u> (B)			
7				Prevalence Index = $B/A = 1.529$			
Herb Stratum (Plot size: 5)	70 =	- Total Cover		Hydrophytic Vegetation Indicators:			
1. Onoclea sensibilis	20	$\checkmark$	FACW	<ul> <li>Rapid Test for Hydrophytic Vegetation</li> <li>Dominance Test is &gt; 50%</li> </ul>			
2. Calamagrostis canadensis	20	$\checkmark$	OBL	<b>v</b> Dominance Test is $> 50\%$ <b>v</b> Prevalence Index is $\leq 3.0^{1}$			
3. Scirpus cyperinus	40		OBL	<ul> <li>Prevalence index is \$3.0</li> <li>Morphological Adaptations <sup>1</sup> (Provide supporting</li> </ul>			
4. Typha x glauca			OBL	data in Remarks or on a separate sheet)			
5. Glycerla striata			OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
6				$^{1}$ Indicators of hydric soil and wetland hydrology must			
7 8				be present, unless disturbed or problematic.			
9				Definitions of Vegetation Strata:			
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter			
11				at breast height (DBH), regardless of height.			
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and			
Woody Vine Stratum (Plot size: 30 )		Total Cover		greater than 3.28 ft (1m) tall.			
1	0			Herb - All herbaceous (non-woody) plants, regardless of			
2	0			size, and woody plants less than 3.28 ft tall.			
3	0			Woody vine - All woody vines greater than 3.28 ft in			
4		= Total Cover		height.			
		- 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	Matrix	,		dox Features		-	
(inches)	Color (moist)	%	Color (moist)	<b>% Type</b> <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20	10YR 2/1	100				Muck	
				·			
				·			
						·	
<sup>1</sup> Type: C=Con	centration. D=Depletio	n. RM=Reduc	ced Matrix, CS=Covere	ed or Coated Sand Gra	ins <sup>2</sup> Loca	ation: PL=Pore Lining. M=Mat	rix
Hydric Soil	Indicators:					Ta diasta a fa Dashia	3
Histosol (				w Surface (S8) (LRR R		Indicators for Problem	natic Hydric Soils :
_			MLRA 149B)	V SUITALE (SO) (LKK K		2 cm Muck (A10) (Ll	RR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surfa	ace (S9) (LRR R, MLR	A 149B)	Coast Prairie Redox	(A16) (LRR K, L, R)
Black Hist			_	Mineral (F1) LRR K, L)	,	5 cm Mucky Peat or	Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed			Dark Surface (S7) (L	.RR K, L, M)
	Layers (A5)					Polyvalue Below Sur	face (S8) (LRR K, L)
Depleted	Below Dark Surface (A	11)	Depleted Matrix			Thin Dark Surface (S	
L Thick Dar	k Surface (A12)		Redox Dark Su	. ,			sses (F12) (LRR K, L, R)
🗌 Sandy Mu	uck Mineral (S1)		Depleted Dark				Soils (F19) (MLRA 149B)
Sandy Gle	eyed Matrix (S4)		Redox Depress	ions (F8)			(MLRA 144A, 145, 149B)
Sandy Re							
	Matrix (S6)					Red Parent Material	
	face (S7) (LRR R, MLRA	149B)				Very Shallow Dark S	
						Other (Explain in Re	marks)
<sup>3</sup> Indicators o	f hydrophytic vegetatio	n and wetlan	d hydrology must be p	present, unless disturb	ed or proble	ematic.	
<b>Restrictive</b> L	ayer (if observed):						
Type:							
Depth (inc						Hydric Soil Present?	Yes 🔍 No 🔾
	mes):					-	
Remarks:							