## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis			Sampling Date: 14-Sep-17		
Applicant/Owner: Enbridge			State:	MN	Sampling	Point:	w-50n19w17-b2
Investigator(s): SMR		Section, To	ownship, Ran	ge: S.	17 <b>т.</b>	50N	<b>R.</b> 19W
Landform (hillslope, terrace, etc.): Lowland		Local relief (co	oncave, conve	ex, none	): concave		Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K	Lat.:	46 48.9476	I	Long.:	-92 46.0877		Datum: NAD 83
Soil Map Unit Name: F141D		-		-	NWI classi	fication:	N/A
	naturally	tly disturbed? problematic? sampling p	(If need	ed, expl	cumstances" ain any answ <b>transects</b>	ers in Rer	-
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo			e Sampled Are n a Wetland?	ea y	'es 🔍 No 🤇	)	
Remarks: (Explain alternative procedures here or in a sepa	arate repo	ort.)					

## Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)						
Primary Indicators (minimum of one required; of	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)	Thin Muck Surface (C7)	Shallow Aquitard (D3)						
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 O No 🖲	Depth (inches): 0							
Water Table Present? Yes O No O	Depth (inches): 0	rdrology Present? Yes 🖲 No 🖯						
Saturation Present? Yes O No O	Wetland Hy Depth (inches): 0	rdrology 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 plan	Sampling Point: w-50n19w17-b2			
- (Distring, 20 )	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% Cover		Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6	0			
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )		Total Cover		Total % Cover of: Multiply by:
1	0			<b>OBL species</b> $60 \times 1 = 60$
2	0			FACW species $40$ x 2 = $80$
3	-			FAC species $0 \times 3 = 0$
4				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6				Column Totals: <u>100</u> (A) <u>140</u> (B)
7				Prevalence Index = $B/A = 1.400$
		Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)				<ul> <li>Rapid Test for Hydrophytic Vegetation</li> </ul>
1. Scirpus cyperinus	40	$\checkmark$	OBL	<ul> <li>✓ Implify rest is &gt; 50%</li> </ul>
2. Symphyotrichum novae-angliae	10		FACW	✓ Prevalence Index is $≤ 3.0^{1}$
3. Phalaris arundinacea	30		FACW	Morphological Adaptations $^1$ (Provide supporting
4. Scirpus atrovirens	20		OBL	data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6	0			
7	0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0			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 )	100 =	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			Weedervine All weedervines greater than 2.20 ft in
Δ	0			Woody vine - All woody vines greater than 3.28 ft in height.
Tu	0 =	Total Cover		5
				Hydrophytic
				Vegetation Present? Yes • No O
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 Featı					
(inches)			%	Color (moist) % Type <sup>1</sup>					Texture	Remarks	
0-4	10YR	2/2	100						Sandy Clay Loam		
4-9	10YR	3/1	85	10YR	3/4	15	С	М	Sandy Clay Loam		
9-13		3/3	90	10YR	4/3	10	C	M	Sandy Loam		
13-20		4/2	90	10YR	4/3	10	С	M	Sandy Clay Loam		
	8				-						
			-			-					
				·							
				<u> </u>		·					
							_				
u				·							
1 Turney C., Corn		Doplatic	DM Doc	hused Metrix		d or Coat	ad Cand Ci		tion, DL Doro Lining M M		
		=Depietic	JII. KIVI=Rec	uced Matrix,	CS=COVere	ed of Coat	eu sanu Gi	ains -Loca	ation: PL=Pore Lining. M=Ma		
Hydric Soil I				Poly	value Relov	N Surface	(S8) (LRR	2		matic Hydric Soils : <sup>3</sup>	
	pedon (A2)				A 149B)	N Surface	(50) (ERR	Χ,	2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	lack Histic (A3)				RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)					
	Sulfide (A4)			Loan	ny Mucky I	Mineral (F1	1) LRR K, L	)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	Layers (A5)			Loan	Loamy Gleyed Matrix (F2)				Dark Surface (S7) (LRR K, L, M)		
Depleted	Below Dark S	Surface (A	(11)		eted Matri				<ul> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> </ul>		
Thick Dar	k Surface (A	12)			ox Dark Su						
Sandy Mu	ick Mineral (S	51)			eted Dark		7)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Gle	eyed Matrix (	Daday Depressions (F0)					Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Sandy Re	dox (S5)								Red Parent Material (F21)		
Stripped I	Stripped Matrix (S6)					Very Shallow Dark Surface (TF12)					
Dark Surf	Dark Surface (S7) (LRR R, MLRA 149B)						Other (Explain in Remarks)				
<sup>3</sup> Indicators of	f hydrophytic	vegetatio	on and wetla	and hydrology	must be p	present, ur	nless distur	bed or proble	ematic.		
Restrictive L	ayer (if obs	erved):									
Type:		-									
Depth (inc	hes):								Hydric Soil Present?	Yes $ullet$ No $igcap$	
Remarks:											
Romanio											