## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	St. Louis		Sampling	Date: 11-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling	Point:	w-51n20w21-e2
Investigator(s): PJK		Section, To	ownship, Range: S.	21 <b>T.</b>	51N	<b>R.</b> 20W
Landform (hillslope, terrace, etc.): Lowland		Local relief (c	oncave, convex, none	): concave		Slope: <u>0.0</u> % / <u>0.0</u> °
Subregion (LRR or MLRA): LRR K	Lat.:	46 52.8730	Long.:	-92 52.3229		Datum: NAD 83
Soil Map Unit Name: B143B		p-	<u>p</u>	NWI classi	fication: N	/A
	urally	tly disturbed? problematic? sampling p	Are "Normal Ciro (If needed, expl oint locations,	ain any answ	ers in Rema	-
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo			e Sampled Area n a Wetland? Y	es 🔍 No 🤇	)	
<b>Remarks: (Explain alternative procedures here or in a separa</b> No digging near road. Potential utilities.	ite repo	ort.)				

## Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required;	check all that apply)	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 O	Depth (inches): 0	
Water Table Present? Yes O No 🖲	Depth (inches):0	ydrology Present? Yes 💿 No 🔾
Saturation Present? Yes O No O	Wetland Hy Depth (inches): 0	ydrology Present? Yes 🔍 No 🔾
Describe Recorded Data (stream gauge, monito	pring well, aerial photos, previous inspections), if a	vailable:
Remarks:		

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

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	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				Species Across All Strata:(B)			
4	0						
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)			
6	0						
7	0			Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: 15 )	0 =	Total Cover		Total % Cover of: Multiply by:			
	0			<b>OBL speciles</b> <u>105</u> <b>x 1 =</b> <u>105</u>			
1				FACW species $0 \times 2 = 0$			
2				FAC species 10 x 3 =30			
3				FACU species $0 \times 4 = 0$			
4				UPL species $0 \times 5 = 0$			
5				Column Totals:(A)(B)			
6							
7				Prevalence Index = $B/A = 1.174$			
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:			
	40	$\checkmark$	OBL	Rapid Test for Hydrophytic Vegetation			
		$\checkmark$	OBL	$\checkmark$ Dominance Test is > 50%			
	20		OBL	<b>V</b> Prevalence Index is $\leq$ 3.0 <sup>1</sup>			
			FAC	Morphological Adaptations <sup>1</sup> (Provide supporting			
E. Turke u aleure			OBL	data in Remarks or on a separate sheet)			
• <u> </u>				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				Definitions of Vegetation Strata:			
9				-			
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
11				at breast height (DBH), regardless of height.			
12				Sapling/shrub - Woody plants less than 3 in. DBH and			
Woody Vine Stratum (Plot size: 30 )	115 =	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	0			height.			
	0 =	Total Cover					
				Hydrophytic			
				Vegetation Present? Yes • No ·			
Remarks: (Include photo numbers here or on a separate she	et )						
Remarks. (Include photo numbers here of on a separate she	enj						

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

US Army Corps of Engineers

Depth (inches)	Matrix		Redox Featu			absence of indicators.)	
(incries)	1	% Color (moi		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
						p 1	
	······						
	· · · ·						
<sup>1</sup> Type: C=Con	centration. D=Depletion. RM	=Reduced Matrix, CS=	Covered or Coate	ed Sand Grai	ns <sup>2</sup> Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil 1	Indicators:					Indicators for Proble	ematic Hydric Soils : <sup>3</sup>
🗌 Histosol (	(A1)		e Below Surface	(S8) (LRR R,			(LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)	MLRA 14				_	x (A16) (LRR K, L, R)
Black Hist	tic (A3)	_	k Surface (S9) (		149B)		
	n Sulfide (A4)	🗌 Loamy N	lucky Mineral (F1	I) LRR K, L)			or Peat (S3) (LRR K, L, R)
	Layers (A5)	🗌 Loamy G	leyed Matrix (F2)	)		Dark Surface (S7)	
	Below Dark Surface (A11)	Depleted	Matrix (F3)				urface (S8) (LRR K, L)
	rk Surface (A12)	Redox D	ark Surface (F6)			Thin Dark Surface	
	uck Mineral (S1)	Depleted	Dark Surface (F	7)			lasses (F12) (LRR K, L, R)
_			epressions (F8)				in Soils (F19) (MLRA 149B)
	eyed Matrix (S4)						) (MLRA 144A, 145, 149B)
Sandy Re						Red Parent Materia	al (F21)
	Matrix (S6)					Very Shallow Dark	Surface (TF12)
Dark Surf	face (S7) (LRR R, MLRA 149B	)				V Other (Explain in R	Remarks)
<sup>3</sup> Indicators of	f hydrophytic vegetation and	wetland hydrology mu	st be present, un	nless disturbe	d or probl	ematic.	
Doctrictivo I							
Restrictive L	ayer (if observed):						
Туре:						Hydric Soil Present?	
						Hydric Soil Present?	Yes 🔍 No 🔾
Туре:						Hydric Soil Present?	Yes 🔍 No 🔾
Type: Depth (inc Remarks:	:hes):	s. Soils assumed hyd	dric based on v	vegetation.		Hydric Soil Present?	Yes • No O
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Type: Depth (inc Remarks:	:hes):	s. Soils assumed hy	dric based on v	vegetation.		Hydric Soil Present?	Yes • No O
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