## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Samplir	Sampling Date: 09-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-51n21w24-b4	
Investigator(s): PJK	Section, 1	Township, Range: S. 19	<b>T.</b> 51N	<b>R.</b> 20W	
Landform (hillslope, terrace, etc.): Mound	Local relief (	concave, convex, none):	convex	Slope: <u>1.7</u> % / <u>1.0</u>	
Subregion (LRR or MLRA): LRR K	<b>at.:</b> 46 52.8997	<b>Long.:</b> _92	2 55.4455	Datum: NAD 83	
Soil Map Unit Name: B103A	-		WI classification:	N/A	
	icantly disturbed? ally problematic? n <b>g sampling p</b>		any answers in Re	-	
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area in a Wetland? Yes	○ <sub>No</sub>		
Remarks: (Explain alternative procedures here or in a separate	report.)				

## Hydrology

Wetland Hydrology Indicat	tors:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minim	um 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 Aeri	al Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Conca	ave Surface (B8)		FAC-neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes 🔾 🛛 No 🖲	Depth (inches): 0	
Water Table Present?	Yes 🔾 No 🖲	Depth (inches): 0	Ivdrology Present? Yes $\bigcirc$ No $ullet$
Saturation Present? (includes capillary fringe)	Yes 🔿 No 🖲	Wetland H	lydrology Present? Yes 🔾 No 🖲
Describe Recorded Data (s	tream gauge, monite	pring well, aerial photos, previous inspections), if a	available:
Remarks:			

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

vegeration - use scientific names of plai	its			Sampling Point: u-51n21w24-b4
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	% 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				Percent of dominant Species
5				That Are OBL, FACW, or FAC:0.0% (A/B)
6 7	0			Prevalence Index worksheet:
		Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species         0         x 1 =         0
1	0			FACW species $5 \times 2 = 10$
2	0			FAC species x 3 =
3	0			FACU species $70 \times 4 = 280$
4	0			UPL species $0 \times 5 = 0$
5	-			
6				Column Totals: (A) (B)
7				Prevalence Index = $B/A = 3.722$
Herb Stratum (Plot size: 5)	0 =	Total Cover		Hydrophytic Vegetation Indicators:
	10		FAC	Rapid Test for Hydrophytic Vegetation
1. Cornus canadensis 2. Pteridium aquilinum		$\checkmark$	FACU	Dominance Test is > 50%
			FAC	<b>Prevalence Index is <math>\leq</math> 3.0</b> <sup>1</sup>
3. Panicum capiliare 4. Solidago gigantea			FACW	Morphological Adaptations <sup>1</sup> (Provide supporting
5				data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
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: <u>30</u> )	90 =	Total Cover		greater than 3.28 ft (1m) tall.
	0			Herb - All herbaceous (non-woody) plants, regardless of
1	0			size, and woody plants less than 3.28 ft tall.
23	0			
4	0			Woody vine - All woody vines greater than 3.28 ft in height.
т	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 Desci	ription: (De	scribe to	the depth	n needed to d	ocumen	t the indi	cator or co	onfirm the	e absence of indicators.)
Depth		Matrix			Re	dox Feat			
(inches)	Color (	moist)	%	Color (	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-5	10YR	3/2	95	10YR	3/6	5	С	М	Silty Clay Loam
5-15	10YR	4/3	80	10YR	4/6	20	С	М	Sandy Loam
15-20	10YR	4/2	70	10YR	4/6	30	C	M	Silty Clay Loam
<sup>1</sup> Type: C=Con	centration. D	=Depletic	on. RM=Red	duced Matrix, 0	CS=Cover	ed or Coat	ed Sand Gr	ains <sup>2</sup> Loca	cation: PL=Pore Lining. M=Matrix
Black Hist         Hydroger         Stratified         Depleted         Thick Dar         Sandy Mu         Sandy Re         Stripped         Dark Surf	A1) pedon (A2) tic (A3) a Sulfide (A4) Layers (A5) Below Dark S k Surface (A ack Mineral (S eyed Matrix ( dox (S5) Matrix (S6) face (S7) (LR	Surface (A 12) S1) [S4) R R, MLRA	4 149B)	MLŘA Thin Loam Loam Deple Redo Deple	A 149B) Dark Surf ny Mucky ny Gleyed eted Matr x Dark Su eted Dark x Depres:	<sup>T</sup> ace (S9) ( Mineral (F <sup>-</sup> Matrix (F2 ix (F3) urface (F6) Surface (F sions (F8)	7)	RA 149B) )	Indicators for Problematic Hydric Soils :       3         2 cm Muck (A10) (LRR K, L, MLRA 149B)         Coast Prairie Redox (A16) (LRR K, L, R)         5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Dark Surface (S7) (LRR K, L, M)         Polyvalue Below Surface (S8) (LRR K, L)         Thin Dark Surface (S9) (LRR K, L)         Iron-Manganese Masses (F12) (LRR K, L, R)         Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Red Parent Material (F21)         Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)
Restrictive L				<u>_</u>		<u></u>			
Туре:									Hydric Soil Present? Yes   No
Depth (inc Remarks:	hes):								