WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Sampli	Sampling Date: 12-Sep-17			
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-51n20w27-g2			
Investigator(s): PJK	Section, T	ownship, Range: S. 27	T. 51N	R. 20W			
Landform (hillslope, terrace, etc.): Lowland	Local relief (d	concave, convex, none):	concave	Slope: 0.0 % / 0.0 °			
Subregion (LRR or MLRA): LRR K	at.: 46 52.938	Long.: -9	2 51.4540	Datum: NAD 83			
I Map Unit Name: B107A NWI classification: PEM B							
	icantly disturbed? ally problematic? ng sampling p	(If needed, explai	mstances" present? n any answers in Re ansects, impc	emarks.)			
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○		e Sampled Area in a Wetland? Ye	s 🖲 No 🔿				
Remarks: (Explain alternative procedures here or in a separate	report.)						

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)		Crayfish Burrows (C8)		
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)			
Drift deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	☐ Stunted or Stressed Plants (D1) ✓ Geomorphic Position (D2)		
Iron Deposits (B5)				
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
	Uther (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)		
Field Observations: Surface Water Present? Yes No				
	Depth (inches): 0			
Water Table Present? Yes O No 🖲	Depth (inches): 0			
Saturation Present? Yes No •	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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(Plot size: 20)	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover		Status	Number of Dominant Species
1. Quercus bicolor	80		FACW	That are OBL, FACW, or FAC: (A)
2. Populus tremuloides	-	\checkmark	FACU	Total Number of Dominant
3	0			Species Across All Strata:5_ (B)
4	-			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	100 =	Total Cover		Total % Cover of: Multiply by:
	5		FACW	OBL species x 1 =0
				FACW species 165 x 2 =330
2				FAC species $0 \times 3 = 0$
3	_			FACU species20 x 4 =80
4	-			UPL species $0 \times 5 = 0$
5				Column Totals: 205 (A) 430 (B)
6	-			
7				Prevalence Index = $B/A = 2.098$
Herb Stratum (Plot size: 5)	5 =	Total Cover		Hydrophytic Vegetation Indicators:
	70	\checkmark	FACW	Rapid Test for Hydrophytic Vegetation
		\checkmark	OBL	✓ Dominance Test is > 50%
				\checkmark Prevalence Index is \leq 3.0 1
3. Carex Intumescens			FACW	Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Demitions 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	-			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
	0			Herb - All herbaceous (non-woody) plants, regardless of
1	0		. <u> </u>	size, and woody plants less than 3.28 ft tall.
2	0			
3	0			Woody vine - All woody vines greater than 3.28 ft in height.
4		Total Covor		neight.
	=	 Total Cover 		
				Hydrophytic
				Vegetation
				Present? Yes Vo V
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 Descr	iption: (De	scribe to	the depth	needed to d	ocumen	t the indi	cator or c	onfirm the a	absence of indicators.)			
Depth <u>Matrix</u>		Redox Features										
(inches)	Color (Color (I	noist)	%	Type ¹	Loc ²	Texture	Remarks		
0-4	10YR	2/1	100					·	Loam			
4-12	10YR	3/2	95	10YR	3/6	5	C	M	Silt Loam			
12-20	10YR	4/2	80	10YR	4/6	20	С	Μ	Silt Loam			
	67 		50°					-				
B		u										
P		u			-							
								·				
1												
		=Depletic	on. RM=Rec	luced Matrix, C	S=Cover	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=Mat	rix		
Hydric Soil I				_					Indicators for Problem	natic Hydric Soils: ³		
Histosol (alue Belo (149B)	w Surface	(S8) (LRR	R,	2 cm Muck (A10) (LF	RR K, L, MLRA 149B)		
_	pedon (A2)					(02) (ace	(LRR R, ML	DA 1/08)	Coast Prairie Redox (A16) (LRR K, L, R)			
Black Hist				_					5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
_ · ·	Sulfide (A4)				Loamy Mucky Mineral (F1) LRR K, L)		Dark Surface (S7) (LRR K, L, M)					
	Layers (A5)	Curfood (A	11)	_	eted Matr		.,		Polyvalue Below Sur	face (S8) (LRR K, L)		
	Below Dark S k Surface (A		(11)		Redox Dark Surface (F6)				Thin Dark Surface (S	59) (LRR K, L)		
	ick Mineral (S				Depleted Dark Surface (F7)					sses (F12) (LRR K, L, R)		
	eyed Matrix (sions (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Ge		34)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
_	Matrix (S6)								Red Parent Material			
_	ace (S7) (LR	R R. MLRA	A 149B)						Very Shallow Dark S			
									Other (Explain in Rei	marks)		
Indicators of	f hydrophytic	vegetatio	on and wetla	and hydrology	must be	present, ur	nless distur	bed or proble	ematic.			
Restrictive L	ayer (if obs	erved):										
Туре:									Hydric Soil Present?	Yes \bullet No \bigcirc		
Depth (inc	hes):								Hyuric Soll Present?	Yes S No C		
Remarks:												