WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	St. Louis	Samplir	Sampling Date: 12-Sep-17		
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n20w27-b1		
Investigator(s): PJK		Section, To	ownship, Range: S. 27	T. 51N	R. 20W		
Landform (hillslope, terrace, etc.):	Lowland	Local relief (c	oncave, convex, none):	concave	Slope: 0.0 % / 0.0 °		
Subregion (LRR or MLRA): LRR K	Lat.:	46 52.4568	Long.: -92	51.8826	Datum: NAD 83		
Soil Map Unit Name: B107A		-	1	WI classification:	N/A		
Are Vegetation , Soil . Are Vegetation , Soil . Summary of Findings - At	, or Hydrology naturally	ntly disturbed? problematic? sampling p		any answers in Re	-		
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No Yes No		e Sampled Area n a Wetland? Yes	● _{No} ○			
Remarks: (Explain alternative pro-	• •	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)		Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Uther (Explain in Remarks)	FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes O No •	Depth (inches): 0	
Water Table Present? Yes O No 🖲	Depth (inches): 0	
Saturation Present? Yes O No •	Depth (inches): 0	ydrology Present? Yes 💿 No 🔾
	pring well, aerial photos, previous inspections), if a	vailable:
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plai	its			Sampling Point: w-51n20w27-b1
	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: 100.0% (A/B)
6	0			Descelares Tedan conclusions
7				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)	=	Total Cover		OBL species 30 x 1 = 30
1	0			FACW species $60 \times 2 = 120$
2	0			FAC species $10 \times 3 = 30$
3				
4	0			•
5	0			UPL species $\underbrace{0}_{x5} = \underbrace{0}_{x5}$
6	0			Column Totals: <u>100</u> (A) <u>180</u> (B)
7	0			Prevalence Index = B/A = 1.800
Herb Stratum (Plot size: <u>5</u>)	0 =	Total Cover		Hydrophytic Vegetation Indicators:
				Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea			FACW	✓ Dominance Test is > 50%
2. Scirpus atrovirens	15		OBL	V Prevalence Index is \leq 3.0 ¹
3. Scirpus cyperinus	<u>15</u> 10		OBL FAC	Morphological Adaptations ¹ (Provide supporting
4. Panicum capiliare				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 9				Definitions of Vegetation Strata:
10				Tree Maadu plante 2 in (7.0 cm) er mens in diemeter
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12	0			
	100 =	Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)		_		
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2	0			size, and woody plants less than 3.28 ft tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4				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

(inches)	Matrix		Redox Featur					
	Color (moist)	% Color (mo	ist) %	Type ¹ L	.oc² T	exture	Rem	arks
				. <u> </u>				
				· ·				
				·				
Type: C=Conce	entration. D=Depletion. F	RM=Reduced Matrix, CS:	Covered or Coate	d Sand Grains	² Location · Pl	=Pore Lining M=Ma	ıtrix	
Hydric Soil In						-		2
_					Ind	dicators for Proble	matic Hydric	Soils: ³
Histosol (A		MLRA 1	e Below Surface (\$ 49B)	58) (LRR R,		2 cm Muck (A10) (RR K, L, MLR	A 149B)
Histic Epipe		_	rk Surface (S9) (Ll	RR R. MIRA 14	9B)	Coast Prairie Redo	: (A16) (LRR K	, L, R)
Black Histic			/lucky Mineral (F1)			5 cm Mucky Peat o	r Peat (S3) (LF	RR K, L, R)
_ · ·	Sulfide (A4)		Gleyed Matrix (F2)	LKKK, L)		Dark Surface (S7)	(LRR K, L, M)	
Stratified L			d Matrix (F3)			Polyvalue Below Su	rface (S8) (LR	R K, L)
	Below Dark Surface (A11)					Thin Dark Surface	(S9) (LRR K, L	.)
Thick Dark	Surface (A12)	_	Dark Surface (F6)	、		Iron-Manganese M		
Sandy Muc	k Mineral (S1)		d Dark Surface (F7)		Piedmont Floodplai		
Sandy Gley	yed Matrix (S4)	Redox L	epressions (F8)			Mesic Spodic (TA6)		
Sandy Red	ox (S5)					Red Parent Materia		,
Stripped M	latrix (S6)					Very Shallow Dark)
Dark Surfa	ce (S7) (LRR R, MLRA 14	9B)				Other (Explain in R		
³ Indicators of	hydrophytic vegetation a	nd wotland hydrology m	ist ha prosont unl	oss disturbod o				
		ia wetiana nyarology ma	st be present, unit					
	yer (if observed):							
						ia Cail Duasant2	(A)	•
Туре:					пуа	ric Soil Present?	Yes 🖲	No 🔿
Type: Depth (inch	es):							
	es):							
Depth (inch Remarks:		ed utilities. Soils assu	ned hydric base	ed on vegetat	ion and hydro	bloav		
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