WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Sampli	ampling Date: 11-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-51n20w21-c1	
Investigator(s): PJK	Section, T	ownship, Range: S. 2	τ. 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 52.9421	Long.: -	92 52.6596	Datum: NAD 83	
Soil Map Unit Name: B127B			NWI classification:	N/A	
	gnificantly disturbed? aturally problematic? wing sampling p	(If needed, expla	imstances" present? in any answers in Re r ansects, impo	emarks.)	
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area n a Wetland? Ye	s 🖲 No 🔿		
Remarks: (Explain alternative procedures here or in a separ	ate 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)	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	vdrology Present? Yes 🖲 No 🔾				
Saturation Present? Yes O No •	Wetland H	ydrology 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 sciencific names of plan	Sampling Point: w-51n20w21-c1			
	Absolute		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:1 (B)
4				
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:
1	0			OBL speciles <u>10</u> x 1 = <u>10</u>
				FACW species 105 x 2 =210
2				FAC species x 3 =
3	_			FACU species $0 \times 4 = 0$
4				UPL species x 5 =0
5 6				Column Totals:(A)(B)
				·
7		Total Cover		Prevalence Index = $B/A = 1.913$
Herb Stratum (Plot size: 5)		Total Cover		Hydrophytic Vegetation Indicators:
1. Phalaris arundinacea	100	\checkmark	FACW	Rapid Test for Hydrophytic Vegetation
2. Scirpus cyperinus	10		OBL	✓ Dominance Test is > 50%
3. Onoclea sensibilis			FACW	✓ Prevalence Index is \leq 3.0 ¹
4				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				 Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7				¹ 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				
		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	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.)			

*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	•		Redox Features							
(inches)	Color (<u>%</u>	Color (<u>%</u>	Type 1		Texture	Remarks		
0-6	10YR	3/2	90	10YR	3/6	10	C	M	Silt Loam			
6-14	10YR	4/2	80	10YR	4/6	20	C		Silt Loam			
14-20	10YR	4/1	80	10YR	4/6	20	C	М	Silt Loam			
	-		-		a-	-						
							-					
		-			-							
				·								
				·								
				·								
B												
¹ Type: C=Con	centration. D	=Depletic	on. RM=Red	duced Matrix,	CS=Cover	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=I	Matrix		
Hydric Soil	Indicators:								Indicators for Prob	lematic Hydric Soils : ³		
Histosol (value Belo A 149B)	w Surface	(S8) (LRR I	R ,		2 cm Muck (A10) (LRR K, L, MLRA 149B)		
	pedon (A2)			_		ace (S9) ((LRR R, MLF	2A 149R)	Coast Prairie Redox (A16) (LRR K, L, R)			
Black Hist							1) LRR K, L)		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	n Sulfide (A4) Layers (A5)					Matrix (F2			Dark Surface (S7) (LRR K, L, M)			
	Below Dark S	Surface (A	(11)		eted Matri				Polyvalue Below Surface (S8) (LRR K, L)			
	k Surface (A		(11)	Redo	ox Dark Su	rface (F6)			Thin Dark Surface (S9) (LRR K, L)			
	uck Mineral (S	•		Depl	eted Dark	Surface (F	7)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	• eyed Matrix (Redo	ox Depress	sions (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Re	dox (S5)								 Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) 			
Stripped	Matrix (S6)								Very Shallow Dark Surface (TF12)			
Dark Surf	face (S7) (LR	R R, MLRA	A 149B)						Other (Explain in Remarks)			
³ Indicators o	f hydrophytic	vegetatio	on and wetl	and hydrology	must be	oresent, ur	nless disturl	oed or probl	ematic.			
Restrictive L	aver (if obs	erved):										
Туре:	<i>·</i> · ·											
Depth (inc	hes):								Hydric Soil Present?	Yes $ullet$ No $igcap$		
Remarks:												