WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	St. Louis			Sampling Date: 14-Sep-17	
Applicant/Owner: Enbridge		State:	MN	Sampling	Point:	w-50n19w16-a1	
Investigator(s): SMR	Section,	Township, Rang	je: S.	16 т. 5	50N	R. 19W	
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, conve	x, none): concave		Slope: 0.0 % / 0.0	
Subregion (LRR or MLRA): LRR K	Lat.: 46 48.6272	L	ong.:	-92 45.6416		Datum: NAD 83	
Soil Map Unit Name: F175A	-		-	NWI classifi	ication:	PFOB	
	nificantly disturbed? turally problematic? ving sampling	(If neede	ed, expl	cumstances" p ain any answe transects ,	ers in Ren	-	
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		ne Sampled Are nin a Wetland?	a Y	es 💿 No 🔾	I		
Remarks: (Explain alternative procedures here or in a separa	ite report.)						

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)						
Primary Indicators (minimum of one required; of	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) Other (Explain in Remarks)	Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)		✓ FAC-neutral Test (D5)						
Field Observations:								
Surface Water Present? Yes $oldsymbol{igstar}$ No $igstar$	Depth (inches): 3							
Water Table Present? Yes No	Depth (inches):0	Irology Present? Yes 🖲 No 🖯						
Saturation Present? Yes No	Depth (inches): 0	Irology Present? Yes 🔍 No 🔾						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
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	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: <u>100.0%</u> (A/B)	
6 7	0			Prevalence Index worksheet:	
		= Total Cover		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15)				OBL species 100 x 1 = 100	
1	0			FACW species $0 \times 2 = 0$	
2	0			FAC species $0 \times 3 = 0$	
3				FACU species $0 \times 4 = 0$	
4	-			UPL species $0 \times 5 = 0$	
5					
6	-				
7				Prevalence Index = $B/A = 1.000$	
Herb Stratum (Plot size: 5)	0 =	= Total Cover		Hydrophytic Vegetation Indicators:	
1. Scirpus cyperinus	70	\checkmark	OBL	✓ Rapid Test for Hydrophytic Vegetation	
2. Typha x glauca	30		OBL	✓ Dominance Test is > 50%	
3				✓ 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	0			Definitions of Vegetation Strata:	
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter	
11	0			at breast height (DBH), regardless of height.	
12	0			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	
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 Desci	ription: (De	scribe to	the depth	needed to do	cumen	t the indi	cator or co	onfirm the a	absence of indicators.)				
Depth <u>Matrix</u>			Redox Features										
(inches)		(moist)	<u>%</u>	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks			
0-3	10YR	2/1	100						Muck				
3-20	10YR	4/1	80	10YR	4/4	20	C	M	Sandy Clay Loam				
	-					-							
¹ Type: C=Con	centration [)=Depletic	n RM=Red	uced Matrix CS	=Cover	ed or Coat	ed Sand Gr	ains 21 oca	ation: PL=Pore Lining. M=	 Matrix			
Hydric Soil 1		Depictic	m. Rim=Red		-0000				3				
Histosol (Debuga	ua Dala	u Curfaga	(S8) (LRR I	r	Indicators for Prot	plematic Hydric Soils : ³			
				MLRA 2		w surrace	(58) (LRR I	≺ ,	2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Black Hist	pedon (A2)			🗌 Thin Da	Thin Dark Surface (S9) (LRR R, MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)				
	n Sulfide (A4)			_			1) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	Layers (A5)	,			-	Matrix (F2			Dark Surface (S7) (LRR K, L, M)				
_	Below Dark	Surfaco (A	11)	✓ Deplete			,		Polyvalue Below Surface (S8) (LRR K, L)				
	k Surface (A		(11)	Redox Dark Surface (F6)					Thin Dark Surface (S9) (LRR K, L)				
						Surface (F			Iron-Manganese Masses (F12) (LRR K, L, R)				
	uck Mineral (sions (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)				
	Sandy Gleyed Matrix (S4) Redux Depressions (r8) Sandy Redux (S5)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)						
									Red Parent Material (F21)				
	Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)					Very Shallow Dark Surface (TF12)							
									Other (Explain in	n Remarks)			
³ Indicators o	f hydrophytic	c vegetatic	on and wetla	nd hydrology m	ust be	present, ur	nless distur	bed or proble	ematic.				
Restrictive L	ayer (if obs	served):											
Type:										_			
Depth (inc	hes):								Hydric Soil Present?	Yes 💿 No 🔾			
Remarks:													