WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Sampling Date: 14-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-50n19w21-e1
Investigator(s): SMR	Section, T	ownship, Range: S. 21	T. 50N	R. 19W
Landform (hillslope, terrace, etc.): Mound	Local relief (c	oncave, convex, none):	convex	Slope: <u>12.2</u> % / <u>7.0</u> °
Subregion (LRR or MLRA): LRR K	46 48.6103	Long.: -92	2 45.6194	Datum: NAD 83
Soil Map Unit Name: F175A	-	I	WI classification:	N/A
	tly disturbed? problematic? sampling p	Are "Normal Circur (If needed, explain oint locations, tra	any answers in Re	-
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo		e Sampled Area n a Wetland? Yes	○ _{No} ●	
Remarks: (Explain alternative procedures here or in a separate repo	ort.)			

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)		
Primary Indicators (minimum of one required	: check all that apply)	Secondary Indicators (Infinitian of 2 required)		
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)		Saturation Visible on Aerial Imagery (C9)		
Drift deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)			
	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 •		drology Present? Yes 🔿 No 🖲		
Saturation Present? (includes capillary fringe) Yes O No O	Depth (inches):0	drology Present? Yes 🔾 No 🖲		
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previous inspections), if available	ailable:		
Remarks:				

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plan	nts			Sampling Point: u-50n19w21-e1
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% 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				Prevalence Index worksheet:
		Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species x 1 =
1	0			FACW species $0 \times 2 = 0$
2	0			FAC species $0 \times 3 = 0$
3	0			FACU species $90 \times 4 = 360$
4	0			UPL species $10 \times 5 = 50$
5	-			
6				Column Totals: <u>100</u> (A) <u>410</u> (B)
7				Prevalence Index = $B/A = 4.100$
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
	40	\checkmark	FACU	Rapid Test for Hydrophytic Vegetation
1. Tanacetum vulgare 2. Bromus rubens	10		UPL	Dominance Test is > 50%
			FACU	Prevalence Index is \leq 3.0 ¹
3. Monarda fistulosa 4. Phleum pratense	20		FACU	Morphological Adaptations ¹ (Provide supporting
5				data in Remarks or on a separate sheet) 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	0			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: <u>30</u>)	100 =	Total Cover		greater than 3.28 ft (1m) tall.
	0			Herb - All herbaceous (non-woody) plants, regardless of
1 2	0			size, and woody plants less than 3.28 ft tall.
23				
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

Depth		atrix			dox Featu			absence of indicators.)	
(inches)	Color (m		%	Color (moist)	<u>00x reatt</u> %	Type ¹	Loc ²	Texture	Remarks
0-13	10YR		00			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Sandy Clay Loam	
0-13		4/3	00						
								·	
Type: C=Cor	ncentration. D=D	Depletion.	RM=Redu	ced Matrix, CS=Covere	ed or Coate	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=Mat	rix
Hydric Soil	Indicators:							Indicators for Problem	natic Hydric Saile (³
Histosol				Polyvalue Belov	w Surface	(S8) (I RR R			
	ipedon (A2)			MLRA 149B)	Jundee		1		RR K, L, MLRA 149B)
Black His				Thin Dark Surfa	ace (S9) (I	LRR R, MLR	A 149B)	Coast Prairie Redox	(A16) (LRR K, L, R)
				Loamy Mucky N				5 cm Mucky Peat or	Peat (S3) (LRR K, L, R)
	n Sulfide (A4)			Loamy Gleyed				Dark Surface (S7) (I	LRR K, L, M)
	Layers (A5))		Polyvalue Below Sur	face (S8) (LRR K, L)
Depleted	Below Dark Sur	face (A11)		Depleted Matrix				Thin Dark Surface (S	
Thick Da	rk Surface (A12)			Redox Dark Su					sses (F12) (LRR K, L, R)
Sandy M	uck Mineral (S1)			Depleted Dark	Surface (F	7)			
	eyed Matrix (S4)			Redox Depress	ions (F8)				Soils (F19) (MLRA 149B)
_	edox (S5)	/							(MLRA 144A, 145, 149B)
								Red Parent Material	(F21)
	Matrix (S6)							Very Shallow Dark S	Surface (TF12)
Dark Sur	face (S7) (LRR F	R, MLRA 14	19B)					Other (Explain in Re	marks)
³ Indicators o	of hydrophytic ve	edetation a	nd wetlan	d hydrology must be p	resent. un	less disturb	ed or proble	ematic.	
				3 33 1			· · ·		
	Layer (if observ	vea):							
Type: <u>r</u>	ock							Hydric Soil Present?	Yes 🔿 No 🖲
Depth (ind	ches): <u>13</u>							Hydric Soll Present?	Yes 🔾 🛛 No 🖲
Remarks:									
Cinding.									