WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	St. Louis	Samplii	Sampling Date: 13-Sep-17	
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-50n20w2-a1	
Investigator(s): PJK		Section, T	ownship, Range: S. 2	T. 50N	R. 20W	
Landform (hillslope, terrace, etc.):	Mound	Local relief (c	oncave, convex, none):	convex	Slope: 1.7 % / 1.0°	
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.1261	Long.: -92	2 50.808	Datum: NAD 83	
Soil Map Unit Name: B127B		-		NWI classification:	N/A	
Are climatic/hydrologic conditions of Are Vegetation , Soil Are Vegetation , Soil Summary of Findings - At	, or Hydrology 🗌 significan , or Hydrology 🗌 naturally	tly disturbed? problematic?	Are "Normal Circur (If needed, explain	, explain in Remark nstances" present? n any answers in Re ansects, impo	Yes No	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ○ No ● Yes ○ No ● Yes ○ No ●		e Sampled Area n a Wetland? Yes	○ _{No} ●		
Remarks: (Explain alternative pro No digging on pipeline, active bur		ort.)				

Hydrology

Wetland Hydrology Indicato	ors:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimu	m 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 Aeria	l Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concav	e Surface (B8)		FAC-neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes 🔾 🛛 No 🖲	Depth (inches): 0	
Water Table Present?	Yes 🔿 No 🖲	Depth (inches):0	drology Present? Yes 🔿 No 🖲
Saturation Present? (includes capillary fringe)	Yes O No O	Wetland Hy Depth (inches): 0	drology Present? Yes 🔾 No 🖲
Describe Recorded Data (str	ream gauge, monito	ring well, aerial photos, previous inspections), if av	ailable:
Remarks:			

VEGETATION - Use scientific names of plants

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	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:25.0% (A/B)			
6							
7	0			Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cover		Total % Cover of: Multiply by:			
1	0			0BL species <u>0</u> x 1 = <u>0</u>			
2	0			FACW species 25 x 2 = 50			
3	-			FAC species $10 \times 3 = 30$			
4	_			FACU species $50 \times 4 = 200$			
5	-			UPL species25_ x 5 =125			
6				Column Totals: <u>110</u> (A) <u>405</u> (B)			
7				Prevalence Index = $B/A = 3.682$			
		Total Cover					
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators:			
1. Solidago gigantea	25	\checkmark	FACW	Rapid Test for Hydrophytic Vegetation			
2. Trifolium pratense	20	\checkmark	FACU	Dominance Test is > 50%			
3. Fragaria vesca	25	\checkmark	UPL	Prevalence Index is ≤3.0 ¹			
4. Phieum pratense	20	\checkmark	FACU	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
5. Panicum capillare	10		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
6. Taraxacum officinale	10		FACU				
7	0			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			
_Woody Vine Stratum (Plot size: 30)				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

Depth	ription: (Describe to the Matrix	ueptii neeue		dox Featu			absence of mulcators.)	
(inches)	Color (moist)	% C	olor (moist)	%	Type ¹	Loc ²	Texture	Remarks
							,	
							,	
							,	
Type: C=Con	centration. D=Depletion. R	M=Reduced Ma	atrix, CS=Cover	ed or Coate	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil	Indicators:						Indicators for Proble	ematic Hydric Soils : ³
Histosol ((A1)		Polyvalue Belo	w Surface ((S8) (LRR F	2,	_	(LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)	_	MLRA 149B)					x (A16) (LRR K, L, R)
Black Hist	tic (A3)		Thin Dark Surf	ace (S9) (I	LRR R, MLR	A 149B)		
	n Sulfide (A4)		Loamy Mucky	Mineral (F1) LRR K, L)			or Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed	Matrix (F2))		Dark Surface (S7)	
_	Below Dark Surface (A11)		Depleted Matr	ix (F3)				urface (S8) (LRR K, L)
	rk Surface (A12)		Redox Dark Su	urface (F6)			Thin Dark Surface	
	uck Mineral (S1)		Depleted Dark	Surface (F	7)			lasses (F12) (LRR K, L, R)
			Redox Depres					in Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		•	. ,) (MLRA 144A, 145, 149B)
Sandy Re							Red Parent Materia	al (F21)
	Matrix (S6)						Very Shallow Dark	Surface (TF12)
Dark Surf	face (S7) (LRR R, MLRA 149	9B)					Other (Explain in F	Remarks)
³ Indicators o	f hydrophytic vegetation ar	d wetland hydr	ology must be	present, un	less disturb	ed or proble	ematic.	
	ayer (if observed):							
	ayer (il observed):							
Туре:							Hydric Soil Present?	Yes 🔿 No 🖲
Depth (inc	:hes):		-				injune bon riebene.	
Remarks:								
lo digging o	n pipeline, active buried	utilities. soils	s assumed no	n-hydric b	ased on v	regetation	and hydrology.	
55 5				5		5	5 55	