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:	w-50n19w21-a3
Investigator(s): SMR		Section, To	ownship, Ran	ge: S. 21	т. 5	50N	R. 19W
Landform (hillslope, terrace, etc.): Lowland		Local relief (co	oncave, conve	ex, none):	concave		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.:	46 48.2297	I	L ong.: -92	2 44.9593		Datum: NAD 83
Soil Map Unit Name: F170A		p			NWI classifi	cation:	PFO4/6B
Are climatic/hydrologic conditions on the site typical for th Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology Summary of Findings - Attach site map sh	significant naturally	tly disturbed? problematic?	(If need	mal Circui ed, explair	o, explain in mstances" p n any answe ansects,	eresent? ers in Rem	Yes • No O harks.)
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo			Sampled Are a Wetland?	ea Yes	• • No O		
Remarks: (Explain alternative procedures here or in a sep	parate repo	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)	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 No	Depth (inches): 14							
Water Table Present? Yes No	Depth (inches): 0	drology Present? Yes 💿 No 🔿						
Saturation Present? (includes capillary fringe) Yes • No	Depth (inches): 0	drology Present? Yes $ullet$ No $igcup$						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Remarks:								

VEGETATION - Use scientific names of plants

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	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:3(A)
2				Total Number of Dominant
3	0			Species Across All Strata: <u>3</u> (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)	=	Total Cover		Total % Cover of: Multiply by:
	0			OBL species <u>100</u> x 1 = <u>100</u>
1				FACW species $0 \times 2 = 0$
2				FAC species $0 \mathbf{x} 3 = 0$
3				FACU species $0 \times 4 = 0$
4				UPL species $0 \times 5 = 0$
5				Column Totals:100 (A)100 (B)
6				
7				Prevalence Index = $B/A = 1.000$
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
	40	\checkmark	OBL	Rapid Test for Hydrophytic Vegetation
		\checkmark	OBL	\checkmark Dominance Test is > 50%
		✓	OBL	V Prevalence Index is \leq 3.0 ¹
0:				Morphological Adaptations ¹ (Provide supporting
4				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				Definitions of Vegetation Strata:
9				-
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				at breast height (DDF), regardless of height.
12				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)			
Remarks. (Include photo numbers here of on a separate she	euj			

* Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

US Army Corps of Engineers

Profile Desc	ription: (De	scribe to	the depth	needed to document	the indic	ator or co	nfirm the a	absence of indicators.)	
Depth		Matrix			dox Featu			-	
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-24	10YR	2/1	100					Mucky Peat	
		p						-	
		p						-	
a-		-							
a									
		-		. <u> </u>					
	contration D	-Doplatia	n PM-Pod	Icod Matrix CS-Covord	od or Coate	od Sand Cra	uins 21.000	ation: PL=Pore Lining. M=	
		-Depietio						-	
Hydric Soil								Indicators for Prob	lematic Hydric Soils : 3
Histosol (Polyvalue Belov MLRA 149B)	w Surface ((S8) (LRR R	,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
	ipedon (A2)			Thin Dark Surfa	aco (SO) (I		A 140P)	Coast Prairie Rec	lox (A16) (LRR K, L, R)
Black His							A 149D)		or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)			Loamy Mucky M				Dark Surface (S7	
Stratified	Layers (A5)			Loamy Gleyed)			Surface (S8) (LRR K, L)
Depleted	Below Dark S	Surface (A	11)	Depleted Matrix					e (S9) (LRR K, L)
Thick Dar	rk Surface (A	12)		Redox Dark Su				_	Masses (F12) (LRR K, L, R)
Sandy Mu	uck Mineral (S	51)		Depleted Dark		7)			lain Soils (F19) (MLRA 149B)
	eyed Matrix (Redox Depress	ions (F8)				
Sandy Re									6) (MLRA 144A, 145, 149B)
	Matrix (S6)							Red Parent Mate	
	face (S7) (LR		149B)						k Surface (TF12)
								Other (Explain in	Remarks)
³ Indicators o	of hydrophytic	vegetatio	n and wetla	nd hydrology must be p	present, un	less disturb	ed or proble	ematic.	
Restrictive L	.ayer (if obs	erved):							
Type:									
Depth (inc	thes).							Hydric Soil Present?	Yes 🔍 No 🔾
Remarks:									