WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	St. Louis	Sampli	Sampling Date: 14-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-50n19w21-e2	
Investigator(s): DPT	Section, To	ownship, Range: S. 2	τ. 50N	R. 19W	
Landform (hillslope, terrace, etc.): Lowland	Local relief (c	oncave, convex, none):	concave	Slope: <u>0.0</u> % / <u>0.0</u> °	
Subregion (LRR or MLRA): LRR K	Lat.: 46 48.5890	Long.: -9	92 45.6310	Datum: NAD 83	
Soil Map Unit Name: F135A	-		NWI classification:	PFOB	
	nificantly disturbed? urally problematic?	Are "Normal Circu (If needed, explai	o, explain in Remark Imstances" present? in any answers in Re r ansects, impo	Yes No	
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 separat	te report.)				

Hydrology

Wetland Hydrology Indica	tors:			Secondary Indicators (minimum of 2 required)		
Primary Indicators (minim		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)	\Box Crayfish Burrows (C8)		
Sediment Deposits (B2)						
Drift deposits (B3)			Oxidized Rhizospheres along Living Root	S (C3) Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)			Presence of Reduced Iron (C4)			
Iron Deposits (B5)			Recent Iron Reduction in Tilled Soils (C6	,		
Inundation Visible on Aer	lal Imagani	(דמ)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
	5 5	• •	Other (Explain in Remarks)	 Microtopographic Relief (D4) ✓ FAC-neutral Test (D5) 		
Sparsely Vegetated Conc	ave surrace	(68)		FAC-neutral Test (D5)		
Field Observations:	$_{\rm Yes}$ \bigcirc	No 🖲				
Surface Water Present?		~	Depth (inches): 0			
Water Table Present?	Yes 🖲	No 🔿	Depth (inches): 2	Wetland Hydrology Present? Yes $ullet$ No $igodoldsymbol{ imes}$		
Saturation Present? (includes capillary fringe)	Yes 🖲	No \bigcirc	Depth (inches): 0	Wetland Hydrology 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:
	70		EACIA	OBL speci es <u>50</u> x 1 = <u>50</u>
			FACW	FACW species70 x 2 =140
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: <u>120</u> (A) <u>190</u> (B)
6				
7				Prevalence Index = $B/A = 1.583$
Herb Stratum (Plot size: 5)	70 =	Total Cover		Hydrophytic Vegetation Indicators:
	30	\checkmark	OBL	Rapid Test for Hydrophytic Vegetation
		\checkmark	OBL	✓ Dominance Test is > 50%
				✓ Prevalence Index is ≤3.0 1
3				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
11				at breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	50 =	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		, and the second s
				Hydrophytic
				Vegetation Present? Yes • No ·
Pomarka (Include abote numbers bere er en a conarate she	ot)			
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.

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Profile Descr	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth		Matrix			dox Featu	res		-	
(inches)	Color (r	noist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-24	10YR	2/2	100					Peat	
									·
-						-			
				·					
-									
1 Type: C=Con		-Doplatio		ucod Matrix CS-Covor	d or Coato	d Sand Cra		ation: PL=Pore Lining. M=	
		Depletion	I. KIVI=Keu		eu or coate				
Hydric Soil I								Indicators for Prob	lematic Hydric Soils: ³
Histosol (Polyvalue Belov MLRA 149B)	v Surface (S8) (LRR R		2 cm Muck (A10)) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)				(0) (1		A 140D)		lox (A16) (LRR K, L, R)
Black Hist	tic (A3)			Thin Dark Surfa				_	t or Peat (S3) (LRR K, L, R)
Hydrogen	n Sulfide (A4)			Loamy Mucky M		LRR K, L)		Dark Surface (S7	
Stratified	Layers (A5)			Loamy Gleyed					Surface (S8) (LRR K, L)
Depleted	Below Dark S	urface (A'	11)	Depleted Matrix					e (S9) (LRR K, L)
Thick Dar	rk Surface (A1	2)		Redox Dark Su					Masses (F12) (LRR K, L, R)
Sandy Mu	uck Mineral (S	1)		Depleted Dark	Surface (F7)			
	eyed Matrix (S			Redox Depress	ions (F8)				lain Soils (F19) (MLRA 149B)
Sandy Re		,							6) (MLRA 144A, 145, 149B)
	Matrix (S6)							Red Parent Mate	
	face (S7) (LRR		149B)						k Surface (TF12)
								Other (Explain in	Remarks)
³ Indicators of	f hydrophytic	vegetatio	n and wetla	and hydrology must be p	resent, unl	ess disturb	ed or proble	ematic.	
Restrictive L	ayer (if obse	erved):							
Type:									
Depth (inc	hes).							Hydric Soil Present?	Yes 🔍 No 🔾
Remarks:									