WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin	Sampling Date: 25-Aug-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: w-51n24w27-c1
Investigator(s): PJK	Section, Township, Range: S. 3	4 T. 51N R. 26W
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, convex, none)	: concave Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.3711 Long.: -	93 21.9487 Datum: NAD 83
Soil Map Unit Name: 1982		NWI classification: PSSB
	this time of year? Yes No (If r	no, explain in Remarks.)
Are climatic/hydrologic conditions on the site typical for Are Vegetation . , Soil . , or Hydrology .	,	,
		F. C. C. C.
Are Vegetation, Soil, or Hydrology	• • •	in any answers in Remarks.)
Summary of Findings - Attach site map	showing sampling point locations, t	ransects, important features, etc
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area	-
Hydric Soil Present? Yes No	within a Wetland?	es No
Wetland Hydrology Present? Yes No		
Remarks: (Explain alternative procedures here or in a	separate report.)	
Hydrology		
Wetland Hydrology Indicators:		ondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check a Surface Water (A1)		Surface Soil Cracks (B6) Drainage Patterns (B10)
	` ′	Moss Trim Lines (B16)
	rl Deposits (B15)	Dry Season Water Table (C2)
		Crayfish Burrows (C8)
Sediment Deposits (B2)	dized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	sence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	cent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
	n Muck Surface (C7)	Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Ot ☐ Sparsely Vegetated Concave Surface (B8)	ici (Explairi iii Kerilarka)	Microtopographic Relief (D4) FAC-neutral Test (D5)
Sparsely vegetated concave surface (Bo)		FAC-neutral Test (D5)
Field Observations:		
	epth (inches):0	
	epth (inches): 0	y Present? Yes No
Saturation Present? (includes capillary fringe) Yes No •	epth (inches): 0 Wetland Hydrolog	y Present? Tes 🕒 NO 🖰
Describe Recorded Data (stream gauge, monitoring we	I, aerial photos, previous inspections), if available	:
Domarks		
Remarks:		

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pla	Sampling Point: w-51n24w27-c1						
(0)-4 20	Absolute		ndicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30)	% Cover	Species? S	tatus	Number of Dominant Species			
1		<u> </u>		That are OBL, FACW, or FAC:1(A)			
2		Ц -		Total Number of Dominant			
3	0	Ш_		Species Across All Strata:1(B)			
4	0						
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)			
6	0			That Are OBE, FACW, OF FAC.			
7	0			Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: 15)		= Total Cover		Total % Cover of: Multiply by:			
1	0			0BL speci es x 1 =0			
2				FACW species 100 x 2 = 200			
3		i i		FAC speciles x 3 =0			
4	_			FACU species $0 \times 4 = 0$			
5		<u> </u>		UPL species $0 \times 5 = 0$			
6.				Column Totals: 100 (A) 200 (B)			
				Dravalance Index D/A 2 000			
7		Total Cover		Prevalence Index = B/A =			
Herb Stratum (Plot size: 5		- Total Cover		Hydrophytic Vegetation Indicators:			
1 Phalaris arundinacea	100	✓	FACW	Rapid Test for Hydrophytic Vegetation			
2			7.077	✓ Dominance Test is > 50%			
3				✓ Prevalence Index is \leq 3.0 ¹			
		<u> </u>		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		H -		be present, unless disturbed or problematic.			
8				Definitions of Vegetation Strata:			
9		님 -		Jenning of regeration of dual.			
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter			
11		Ш -		at breast height (DBH), regardless of height.			
12		Ш _		Sapling/shrub - Woody plants less than 3 in. DBH and			
Woody Vine Stratum (Plot size: 30)	=	= 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			Was day in Allows day in a great sall as 0.00 ft in			
4	0			Woody vine - All woody vines greater than 3.28 ft in height.			
4		Total Cover		Tiolgrit.			
		- Total Cover					
				Hydrophytic			
				Vegetation			
				Present? Yes W No			
Remarks: (Include photo numbers here or on a separate she	eet.)						

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

Soil Sampling Point: w-51n24w27-c1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth (inches)	Calas (Matrix	0/	Calas (dox Feat		1 2		D	and a	
0-5	Color (moist) 3/2	% 95	Color (moist) 3/6	_ <u>%</u>	_ <u>Type</u>	Loc² PL	Texture Silt Loam	Rem	narks	
5-20	10YR	4/2	- 80	10YR	4/6		_ <u>C</u>	PL	Silty Clay Loam			
		-										
		-			-							
		-	-			-		-				
		-	-			-						
		-			-		_					
1 Type: C=Cond	centration. D	=Depletio	n. RM=Rec	luced Matrix.	CS=Cover	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=M	atrix		
Hydric Soil I		-1		1							e Seile . 3	
Histosol (Polv	alue Belo	w Surface	(S8) (LRR I	₹,	Indicators for Proble			
	pedon (A2)			MLR	A 149B)		()	•	2 cm Muck (A10)			
☐ Black Hist							(LRR R, MLF		Coast Prairie Redo			
Hydrogen	Sulfide (A4)						1) LRR K, L)	Dark Surface (S7)		KK N, L, K)	
Stratified	Layers (A5)					Matrix (F2	2)				RR K. I.)	
Depleted	Below Dark S	Surface (A	11)		eted Matri				☐ Polyvalue Below Surface (S8) (LRR K, L) ☐ Thin Dark Surface (S9) (LRR K, L)			
Thick Dar	k Surface (A	12)				ırface (F6)			☐ Iron-Manganese M			
_	ck Mineral (S			_		Surface (F	-7)		Piedmont Floodpla			
_	eyed Matrix (S4)		☐ Redo	x Depress	sions (F8)			Mesic Spodic (TA6			
Sandy Red									Red Parent Materia	al (F21)		
	Matrix (S6)								Very Shallow Dark	Surface (TF12	2)	
☐ Dark Surfa	ace (S7) (LRI	R R, MLRA	(149B)						Other (Explain in F	Remarks)		
³ Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology	must be p	present, ui	nless disturl	oed or probl	lematic.			
Restrictive La	ayer (if obs	erved):										
Type:												
Depth (incl	hes):								Hydric Soil Present?	Yes 💿	No O	
Remarks:												