WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22			City/County:	Aitkin		Samplin	Date: 30-Aug-17
Applicant/Owner: Enbridge				State: MN	l Sar	npling Point:	w-51n24w26-a1
Investigator(s): DPT			Section, To	ownship, Range:	S. 26	T. 51N	R. 24W
Landform (hillslope, terrace, etc.): Lowland			oncave, convex, n		 icave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRF		Lat.:	46 52.3851	Long	-93 21.	3815	Datum: NAD 83
Soil Map Unit Name: 546					NWI	classification:	PSSB
Are climatic/hydrologic condition	s on the site ty	pical for this time of ye	ear? Yes	s O No 💿	── (If no, exp	lain in Remarks	s.)
Are Vegetation \Box , Soil \Box	, or Hydrol		ly disturbed?			nces" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrol		roblematic?			answers in Rer	marke \
Summary of Findings -		·		,			•
Hydrophytic Vegetation Present	? Yes ●	No O			-		
Hydric Soil Present?	Yes	No O		Sampled Area n a Wetland?	Yes	No O	
Wetland Hydrology Present?	Yes	No O	WILLIN	II A WCUAIIG:			
Remarks: (Explain alternative	procedures here		rt.)				
Hydrology							
Wetland Hydrology Indicators:					Socondary	Indicators (minim	num of 2 required)
Primary Indicators (minimum o	f one required;	check all that apply)				e Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leav	ves (B9)	<u> </u>		ge Patterns (B10)	
✓ High Water Table (A2)		Aquatic Fauna (B13	3)		Moss T	rim Lines (B16)	
Saturation (A3)		Marl Deposits (B15				ason Water Table	e (C2)
Water Marks (B1)		Hydrogen Sulfide C				h Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizosphe		Roots (C3)	=	tion Visible on Ae	3 3 . ,
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)		Presence of Reduce	, ,	(0/)		d or Stressed Plar orphic Position (D:	, ,
Iron Deposits (B5)		Thin Muck Surface		S (C6)		v Aquitard (D3)	2)
Inundation Visible on Aerial Ima	igery (B7)	Other (Explain in R	• •			pographic Relief	(D4)
Sparsely Vegetated Concave Su	rface (B8)	Other (Explain in N	erriarks)			eutral Test (D5)	•
Field Observations:							
	. ● No ○	Depth (inches):	4				
Water Table Present? Yes	. ● No ○	Depth (inches):	0				
Saturation Present? (includes capillary fringe) Yes	No ○	Depth (inches):	0	Wetland Hydr	ology Pres	ent? Yes	● No ○
Describe Recorded Data (stream	n gauge, monito	oring well, aerial photo	os, previous ins	pections), if avail	lable:		
Remarks:							

VEGETATION - Use scientific names of plants

(5)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:3 (A)
2	0			
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Species Across Air Strata.
5				Percent of dominant Species
				That Are OBL, FACW, or FAC:100.0% (A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 :	= Total Cove	r	Total % Cover of: Multiply by:
	10		FACW	0BL speci es <u>100</u> x 1 = <u>100</u>
••		~	TACW	FACW species
2				FAC speci es
3				FACU species x 4 =0
4				UPL species $\frac{0}{\sqrt{2}} \times 5 = \frac{0}{\sqrt{2}}$
5				
6	0			Column Totals: <u>110</u> (A) <u>120</u> (B)
7	0			Prevalence Index = B/A =1.091_
(D)	10	= Total Cove	r	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation
1 Carex lacustris	_50_	✓	OBL	
2. Scirpus cyperinus	35	✓	OBL	
3. Typha x glauca			OBL	У Prevalence Index is ≤3.0 ¹
4. Calamagrostis canadensis	-10		OBL	Morphological Adaptations ¹ (Provide supporting
5		П		data in Remarks or on a separate sheet)
				☐ 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				Definitions of vegetation strata.
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	0			at breast height (DBH), regardless of height.
12				Capling/abruh Waady plants less than 2 in DRII and
		= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				groater than 0.20 it (111) tami
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 Cove	,	
				Hydrophytic
				Vegetation
				Present? Yes Vo V
Remarks: (Include photo numbers here or on a separate she	et.)			

Sampling Point: w-51n24w26-a1

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

Soil Sampling Point: w-51n24w26-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)													
Depth <u>Matrix</u>			Redox Features					_					
(inches)	Color	(moist)	<u>%</u>	Color (moist)	%_	Type	Loc ²	Texture	Remarks			
0-4	10YR	2/1	100						Muck				
4-20	10YR	3/1	90	10YR	3/6	10	С	М	Sandy Clay Loam				
		-	-		-		-	-					
	-	-		-					-				
					-								
	-				-								
		-											
¹ Type: C=Cond	centration. I	D=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coate	ed Sand G	rains ² Loca	ation: PL=Pore Lining. M=M	atrix			
Hydric Soil I	ndicators:								Indicators for Proble	ematic Hydric Soils: 3			
Histosol (A	A1)					w Surface	(S8) (LRR	R,		(LRR K, L, MLRA 149B)			
Histic Epip	pedon (A2)			_	A 149B)								
☐ Black Histi	ic (A3)			☐ Thin	Dark Surfa	ace (S9) (I	LRR R, ML	RA 149B)		Coast Prairie Redox (A16) (LRR K, L, R)			
Hydrogen	Sulfide (A4)		Loamy Mucky Mineral (F1) LRR K, L)					5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
Stratified I	Layers (A5)			Loan	ny Gleyed	Matrix (F2))		Dark Surface (S7) (LRR K, L, M)				
Depleted I	Below Dark	Surface (A	11)		eted Matri				Polyvalue Below Surface (S8) (LRR K, L)				
☐ Thick Dark	k Surface (A	112)		✓ Redo	ox Dark Su	rface (F6)			Thin Dark Surface (S9) (LRR K, L)				
Sandy Mu	ck Mineral ((S1)		Depleted Dark Surface (F7)					☐ Iron-Manganese Masses (F12) (LRR K, L, R)				
	yed Matrix			Redox Depressions (F8)					Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy Red									✓ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)✓ Red Parent Material (F21)				
Stripped M									Very Shallow Dark Surface (TF12)				
	ace (S7) (LF	RR R, MLRA	149B)						Other (Explain in Remarks)				
										Remarks)			
³ Indicators of	nyaropnyti	c vegetatio	n and wetia	na nyarology	must be p	oresent, un	iless aistur	bea or probl	ematic.				
Restrictive La	ayer (if ob	served):											
Type:													
Depth (inch	nes):								Hydric Soil Present?	Yes ● No ○			
Remarks:													