WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Ci	ty/County:	Aitkin		Samplin	Date: 06-Sep-17
Applicant/Owner: Enbridge				State: MN	ı S	ampling Point:	w-51n23w23-e1
Investigator(s): SMR			Section, To	wnship, Range:	s. 23	T. 51N	R. 23W
Landform (hillslope, terrace, etc.):	Lowland	Lo		ncave, convex, n	-	oncave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 46	53.1096	Long	-93 1	2.8071	Datum: NAD 83
Soil Map Unit Name: 204B					NW	/I classification:	N/A
Are climatic/hydrologic conditions of	on the site ty	pical for this time of year	r? Yes	. ● No ○	(If no, e	xplain in Remarks	s.)
Are Vegetation , Soil	, or Hydrol	ogy Significantly of	disturbed?	Are "Normal	Circumst	tances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrol	ogy naturally prol	blematic?	(If needed, e	explain a	ny answers in Rer	marks.)
Summary of Findings - At		·			-	-	•
Hydrophytic Vegetation Present?	Yes	No O					
Hydric Soil Present?	Yes	No O		Sampled Area a Wetland?	Yes 🤄	No O	
Wetland Hydrology Present?	Yes	No O		u			
Hydrology							
Wetland Hydrology Indicators:					Secondar	ry Indicators (minim	um of 2 required)
Primary Indicators (minimum of o	ne required;	check all that apply)			$\overline{}$	ace Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves	s (B9)			nage Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)				s Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				Season Water Table	e (C2)
Water Marks (B1) Sediment Denosits (B2)		Hydrogen Sulfide Odd		(00)		rfish Burrows (C8)	
Sediment Deposits (B2) Drift deposits (B3)		Oxidized Rhizosphere Presence of Reduced		Roots (C3)	_	ration Visible on Ae Ited or Stressed Plar	
Algal Mat or Crust (B4)		Recent Iron Reduction		(04)		morphic Position (D:	• •
Iron Deposits (B5)		Thin Muck Surface (C		(60)		low Aquitard (D3)	2)
☐ Inundation Visible on Aerial Image	ry (B7)	Other (Explain in Rem	•		_	otopographic Relief	(D4)
Sparsely Vegetated Concave Surface	ce (B8)				✓ FAC-	-neutral Test (D5)	
Field Observations:							
Surface Water Present? Yes		Depth (inches):	0				
Water Table Present? Yes	No O	Depth (inches):	4			esent? Yes	● No ○
Saturation Present? (includes capillary fringe) Yes	No O	Depth (inches):	0	Wetland Hydr	ology Pro	esent? res	
Describe Recorded Data (stream g	auge, monito	ring well, aerial photos,	previous insp	pections), if avail	lable:		
Remarks:							

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCIFIC Harries of pic	Sampling Point: w-51n23w23-e1							
(0) 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:				
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species				
1	0			That are OBL, FACW, or FAC: (A)				
2	0			Total Number of Deminant				
3	0			Total Number of Dominant Species Across All Strata: 2 (B)				
4	0							
5				Percent of dominant Species				
6		$\overline{\Box}$		That Are OBL, FACW, or FAC: 100.0% (A/B)				
7				Prevalence Index worksheet:				
		= Total Cove		Total % Cover of: Multiply by:				
Sapling/Shrub Stratum (Plot size: 15		- Total Core		0BL speci es80x 1 =80				
1	0			FACW species 20 x 2 = 40				
2								
3				FAC speci es x 3 =0				
4				FACU species $0 \times 4 = 0$				
5				UPL speci es $0 \times 5 = 0$				
6.				Column Totals: 100 (A) 120 (B)				
7				Prevalence Index = B/A = 1.200				
		= Total Cove						
Herb Stratum (Plot size: 5		- 10tal COVE		Hydrophytic Vegetation Indicators:				
1 Calamagrostis canadensis	80	✓	OBL	Rapid Test for Hydrophytic Vegetation				
		V	FACW	✓ Dominance Test is > 50%				
			TACV	✓ 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 To disable of body and so the desired and body at the state of the s				
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
8	0							
9	0			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.				
2				Conling/obrub Woody plants loss than 2 in DRH and				
	100 = Total Cover			Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall				
Woody Vine Stratum (Plot size: 30)				greater than 6.25 it (i.i.) taili				
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	r					
				Hydrophytic				
				Vegetation Yes • No •				
				Tradent.				
				<u> </u>				
Remarks: (Include photo numbers here or on a separate sh	ieet.)							

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

Soil Sampling Point: w-51n23w23-e1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)													
Depth (inches)			Redox Features					- <u>.</u> .					
(inches)	Color (%	Color ((moist)	%_	Type ¹	Loc ²	<u>Texture</u>	Rer	marks		
0-9	10YR	2/1	100						Muck				
9-20	10YR	5/1	70	10YR	5/4	30	C	M	Sandy Clay Loam				
					-								
-		-	-	-	-				-	-			
		-	-	-		_							
			-		-	-							
			-			-	-						
• • • • • • • • • • • • • • • • • • • •		=Depletio	n. RM=Rec	luced Matrix,	CS=Cover	ed or Coat	ted Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=	Matrix			
Hydric Soil I									Indicators for Prol	olematic Hydr	ric Soils: 3		
Histosol (/	•				value Belo A 149B)	w Surface	(S8) (LRR	R,	2 cm Muck (A10				
Histic Epip				_	•	(02) and	(LRR R, ML	DA 1/10R)	Coast Prairie Re	dox (A16) (LRR	K, L, R)		
Black Hist							1) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	Sulfide (A4)					Matrix (F2)	Dark Surface (S7) (LRR K, L, M)				
	Layers (A5)		44)		leted Matri		-/		Polyvalue Below	LRR K, L)			
	Below Dark S		.11)			ırface (F6)			Thin Dark Surface (S9) (LRR K, L)				
	k Surface (A1			_		Surface (F			Iron-Manganese Masses (F12) (LRR K, L, R)				
	ck Mineral (S				ox Depress		,		☐ Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy Gle	eyed Matrix (S	54)			•				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Stripped N									Red Parent Material (F21)				
	ace (S7) (LRF	OR MIRA	149R)						☐ Very Shallow Dark Surface (TF12)				
									Uther (Explain in Remarks)				
³ Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology	must be	present, ui	nless distur	bed or proble	ematic.				
Restrictive La	ayer (if obs	erved):											
Type:													
Depth (inch	hes):								Hydric Soil Present?	Yes 💿	No O		
Remarks:													