WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/C	County: Aitkin	Sampling	Date: 02-Sep-17
Applicant/Owner: Enbridge			State: M	Sampling Point:	w-51n23w28-d1
Investigator(s): SMR		Se	ction, Township, Range:	s. 28 t. 51N	R. 23W
Landform (hillslope, terrace, etc.): Lowland		relief (concave, convex, ı		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRF	? K	Lat.: 46 52.4	4370 Lon	-93 15.4061	Datum: NAD 83
Soil Map Unit Name: 544				NWI classification:	PFO/4SSBq
Are climatic/hydrologic condition	ns on the site tv	mical for this time of year?	Yes ● No ○	(If no, explain in Remarks.)	
Are Vegetation, Soil	or Hydrol			Circumstances" present?	Yes No
Are Vegetation , Soil	, or Hydrol			•	
Summary of Findings -	- , ,	· ·	,	explain any answers in Remaiss, transects, import	•
Hydrophytic Vegetation Present		No O		, ,	,
Hydric Soil Present?	Yes ●	No O	Is the Sampled Area	Yes No	
Wetland Hydrology Present?	Yes	No O	within a Wetland?	103 0 140 0	
Remarks: (Explain alternative					
Hydrology					
Wetland Hydrology Indicators:				Secondary Indicators (minimu	m of 2 required)
Primary Indicators (minimum o	of one required;			Surface Soil Cracks (B6)	
✓ Surface Water (A1) ✓ High Water Table (A2)		Water-Stained Leaves (B9))	Drainage Patterns (B10)	
Saturation (A3)		Aquatic Fauna (B13) Marl Deposits (B15)		Moss Trim Lines (B16)Dry Season Water Table ((2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1	1)	Crayfish Burrows (C8)	02)
Sediment Deposits (B2)		Oxidized Rhizospheres alor		Saturation Visible on Aeria	al Imagery (C9)
Drift deposits (B3)		Presence of Reduced Iron		Stunted or Stressed Plants	s (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction in T	Filled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	· · · · · (D7)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	•
Inundation Visible on Aerial Im Sparsely Vegetated Concave Su		Other (Explain in Remarks))	✓ Microtopographic Relief (I✓ FAC-neutral Test (D5)	04)
Sparsery regulated consults as				FAC-licuital Test (Do)	
Field Observations:	s • No O	Depth (inches):	A		
	s • No •				
				rology Present? Yes •	No O
(includes capillary fringe) Yes	No O		0		
Describe Recorded Data (strear	n gauge, monito	oring well, aerial photos, prev	vious inspections), if avai	lable:	
Remarks:					

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	Sampling Point: w-51n23w28-d1					
(0) -1 - 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:3 (A)		
2	0			Total Number of Daminant		
3	0			Total Number of Dominant Species Across All Strata: 3 (B)		
4						
5				Percent of dominant Species		
6		\Box		That Are OBL, FACW, or FAC: 100.0% (A/B)		
				Prevalence Index worksheet:		
7						
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove	r	Total % Cover of: Multiply by:		
1	0			0BL speci es 100 x 1 = 100		
2				FACW species		
				FAC species x 3 =		
3				FACU species x 4 =0		
4				UPL speci es $0 \times 5 = 0$		
5				Col umn Total s: 100 (A) 100 (B)		
6				Cordina locals. 100 (A) 100 (5)		
7				Prevalence Index = B/A = 1.000		
Herb Stratum (Plot size: 5)	0 =	= Total Cove	r	Hydrophytic Vegetation Indicators:		
nerb Stratum (1 lot 3126)	-			Rapid Test for Hydrophytic Vegetation		
1. Scirpus cyperinus	40	✓	OBL	✓ Dominance Test is > 50%		
2. Carex lacustris	30	✓	OBL			
3. Calamagrostis canadensis	30	✓	OBL	У Prevalence Index is ≤3.0 ¹		
4				Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)		
5				1 —		
				☐ 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	0			Definitions of Vegetation Strata.		
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1	0			at breast height (DBH), regardless of height.		
12				Capling/abruh Wasdy plants loss than 2 in DDI and		
	100 =			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 6.26 it (iiii) 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.		
т.	0 =	= Total Cove		l		
		- I Otal Cove	!			
				Understate		
				Hydrophytic Vegetation		
				Present? Yes No		
Remarks: (Include photo numbers here or on a separate s	heet.)					
	,					

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

Soil Sampling Point: w-51n23w28-d1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			dox Featu			_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-24	10YR2/2	100					Peat	
			-					
							-	
			-					
				-				
1 Type: C=Cond	centration. D=Depletic	n. RM=Redu	iced Matrix. CS=Covere	ed or Coate	d Sand Gra	ins ² Loca	ation: PL=Pore Lining, M=Ma	etrix
	1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: 3							
Histosol (Polyvalue Belov	w Surface (9	S9) (I DD D			matic Hydric Soils: 3
	pedon (A2)		MLRA 149B)	v Surface (30) (LKK K	,		LRR K, L, MLRA 149B)
Black Hist			☐ Thin Dark Surfa	ace (S9) (L	RR R, MLR	A 149B)		(A16) (LRR K, L, R)
	Sulfide (A4)		Loamy Mucky N	Mineral (F1)	LRR K, L)			r Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed	Matrix (F2)			Dark Surface (S7)	
	Below Dark Surface (A	(11)	Depleted Matrix	(F3)				ırface (S8) (LRR K, L)
	k Surface (A12)	111)	Redox Dark Su	rface (F6)			Thin Dark Surface	
	ck Mineral (S1)		Depleted Dark	Surface (F7)			asses (F12) (LRR K, L, R)
	eyed Matrix (S4)		Redox Depress	ions (F8)				n Soils (F19) (MLRA 149B)
Sandy Red								(MLRA 144A, 145, 149B)
	Matrix (S6)						Red Parent Materia	
	ace (S7) (LRR R, MLRA	A 149B)					Very Shallow Dark	
							Other (Explain in R	emarks)
Indicators of	hydrophytic vegetation	on and wetla	nd hydrology must be p	resent, unl	ess disturb	ed or proble	ematic.	
Restrictive La	ayer (if observed):							
Type:								
Depth (incl	hes):						Hydric Soil Present?	Yes ● No ○
Remarks:								
Ī								