WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		c	City/County:	Aitkin		Samplin	g Date: 31-Aug-17
Applicant/Owner: Enbridge				State: MN	Sam	pling Point:	w-51n24w25-d1
Investigator(s): DPT			Section, To	wnship, Range:	s. 25	T. 51N	R. 24W
Landform (hillslope, terrace, etc.)	: Lowland	L	•	ncave, convex, n		cave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR	Κ	Lat.: 4	6 52.3887	Long	 93 19.5 -نا	5608	Datum: NAD 83
Soil Map Unit Name: 546					NWI	classification:	N/A
Are climatic/hydrologic condition	s on the site ty	pical for this time of yea	ar? Yes	s ○ No ●	— (If no, expl	ain in Remarks	s.)
Are Vegetation \Box , Soil \Box	, or Hydrol					ces" present?	Yes No
Are Vegetation , Soil	, or Hydrol	ogy naturally pro	oblematic?			answers in Ren	narks.)
Summary of Findings - A		· ·					•
Hydrophytic Vegetation Present?	Yes •	No O					
Hydric Soil Present?	Yes 💿	No O		Sampled Area a Wetland?	Yes 💿 I	No O	
Wetland Hydrology Present?	Yes 💿	No O	•				
Remarks: (Explain alternative p	rocedures here	or in a separate report	.)				
Hydrology							
Wetland Hydrology Indicators:					Secondary I	ndicators (minim	um of 2 required)
Primary Indicators (minimum of	one required;	check all that apply)				Soil Cracks (B6)	uill ti z reguirea)
Surface Water (A1)		Water-Stained Leave	es (B9)			je Patterns (B10)	
✓ High Water Table (A2)		Aquatic Fauna (B13)				rim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				son Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Od				n Burrows (C8)	
Sediment Deposits (B2) Drift deposits (B3)		Oxidized Rhizosphere		Roots (C3)		ion Visible on Aer	0 3
Algal Mat or Crust (B4)		Presence of Reduced Recent Iron Reduction		(04)		l or Stressed Plar rphic Position (D2	
Iron Deposits (B5)		Thin Muck Surface (0		s (Co)		Aquitard (D3)	<u>-)</u>
☐ Inundation Visible on Aerial Image	gery (B7)	Other (Explain in Rei	•			pographic Relief	(D4)
Sparsely Vegetated Concave Sur	face (B8)	Other (Explain in Net	marksy			utral Test (D5)	
Field Observations:							
Surface Water Present? Yes	● No ○	Depth (inches):	10				
Water Table Present? Yes	● No ○	Depth (inches): _	0				
Saturation Present? (includes capillary fringe) Yes	● No ○	Depth (inches):	0	Wetland Hydr	ology Prese	ent? Yes	No O
Describe Recorded Data (stream	gauge, monito	oring well, aerial photos,	, previous ins	pections), if avail	able:		
Remarks:							

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-51n24w25-d1						
(0)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30	% Cover	_species:	Status	Number of Dominant Species			
1				That are OBL, FACW, or FAC:4(A)			
2				Total Number of Dominant			
3				Species Across All Strata: 4 (B)			
4							
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
6	0			That Are Obl., FACW, OF FAC.			
7	0			Prevalence Index worksheet:			
Sapling/Shrub Stratum (Plot size: 15)	=	0 = Total Cover		Total % Cover of: Multiply by: OBL species 100 x 1 = 100			
1 _ Acer rubrum	5	✓	FAC				
2. Alnus incana		✓	FACW	FACW species <u>5</u> x 2 = <u>10</u>			
3	=			FAC speciles <u>5</u> x 3 = <u>15</u>			
		П		FACU species $0 \times 4 = 0$			
4				UPL speci es x 5 =0			
5			-	Column Total s: 110 (A) 125 (B)			
6							
7				Prevalence Index = B/A = 1.136			
Herb Stratum (Plot size: 5	10 =	= Total Cove	r	Hydrophytic Vegetation Indicators:			
			0.01	Rapid Test for Hydrophytic Vegetation			
1. Glyceria canadensis		V	OBL	✓ Dominance Test is > 50%			
2. Scirpus cyperinus			OBL	Prevalence Index is ≤3.0 ¹			
3. Typha x glauca	10		OBL	Morphological Adaptations ¹ (Provide supporting			
4	0			data in Remarks or on a separate sheet)			
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)			
6							
7				¹ Indicators of hydric soil and wetland hydrology must			
8				be present, unless disturbed or problematic.			
9				Definitions of Vegetation Strata:			
0		П		Tree Mesharists O's (7.0 see) are seen in the sector			
				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
1				at breast neight (DBH), regardless of neight.			
۷				Sapling/shrub - Woody plants less than 3 in. DBH and			
Woody Vine Stratum (Plot size: 30)	=	= Total Cove	r	greater than 3.28 ft (1m) tall			
1	0			Herb - All herbaceous (non-woody) plants, regardless of			
	0	\Box		size, and woody plants less than 3.28 ft tall.			
3			-	Woody vine - All woody vines greater than 3.28 ft in			
4				height.			
	=	= Total Cove	r				
				Hydrophytic Vegetation			
				Present? Yes No			
Remarks: (Include photo numbers here or on a separate s	hoot \						
Remarks: (Include photo numbers here or on a separate s	neet.)						

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

Soil Sampling Point: w-51n24w25-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	10YR 2/1	100					Peat		
				-			-		
							-		
				-					
1 Type: C=Con	centration. D=Depletic	n. RM=Redu	ced Matrix. CS=Covere	ed or Coate	d Sand Gra	ins ² Loca	ation: PL=Pore Lining, M=Ma	ıtrix	
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	n Surface (9	SQ) (I DD D			matic Hydric Soils: 3	
	pedon (A2)		MLRA 149B)	w 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	x (F3)				rface (S8) (LRR K, L)	
	k Surface (A12)	111)	Redox Dark Su	rface (F6)			Thin Dark Surface (
	ick 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 Re								(MLRA 144A, 145, 149B)	
	Matrix (S6)						Red Parent Materia		
	ace (S7) (LRR R, MLRA	\ 149R)					☐ Very Shallow Dark		
							Other (Explain in R	emarks)	
³ Indicators of	f hydrophytic vegetation	n and wetlar	nd hydrology must be p	resent, unl	ess disturb	ed or proble	ematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (inc	hes):						Hydric Soil Present?	Yes ● No ○	
Remarks:							1		