WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Aitkin Sampling			pling Date: 30-Aug-17	
Applicant/Owner: Enbridge			State:	MN	Sampling Point	w-51n25w35-e3
Investigator(s): SMR		Section, To	ownship, Ran	ge: S. 34	T. 51N	R. 25W
Landform (hillslope, terrace, etc.): Lowland		Local relief (c	oncave, conve	ex, none):	concave	Slope: <u>0.0</u> % / <u>0.0</u>
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.5645		Long.: -93	3 29.2569	Datum: NAD 83
Soil Map Unit Name: 292		-			WI classificatio	n: PFO2/SSBg
	aturally	tly disturbed? problematic? sampling p	(If need	ed, explair	nstances" presen any answers in ansects, imp	Remarks.)
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo			e Sampled Are n a Wetland?	ea Yes	● No ○	
Remarks: (Explain alternative procedures here or in a separ WETS analysis shows precip is below normal.	rate repo	ort.)				

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)					
Primary Indicators (minimum of one required;	Surface Soil Cracks (B6)						
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)					
✓ High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3)	Marl Deposits (B15)	Dry Season Water Table (C2)					
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)					
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)					
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	U Other (Explain in Remarks)	FAC-neutral Test (D5)					
Field Observations:							
Surface Water Present? Yes No	Depth (inches): 5						
Water Table Present? Yes No	Depth (inches): 0	drology Present? Yes 🖲 No 🔿					
Saturation Present? Yes No	Depth (inches): 0	drology Present? Yes 🔍 No 🔾					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

VEGETATION - Use scientific names of plants

vederation - use sciencing names of plan	Sampling Point: w-51n25w35-e3			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	0			Species Across All Strata:3(B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6				
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cove	r	Total % Cover of: Multiply by:
A Patula numila	60		OBL	OBL species <u>170</u> x 1 = <u>170</u>
			OBL	FACW species $0 \times 2 = 0$
				FAC species x 3 =
3	_			FACU species $0 \times 4 = 0$
4				UPL species x 5 =
5				Column Totals: 170 (A) 170 (B)
6				
7				Prevalence Index = B/A = <u>1.000</u>
Herb Stratum (Plot size: 5)	80 =	Total Cove	r	Hydrophytic Vegetation Indicators:
1 Carex lacustris	90	\checkmark	OBL	Rapid Test for Hydrophytic Vegetation
1. Carex lacustris 2.				✓ Dominance Test is > 50%
				\checkmark Prevalence Index is \leq 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 Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				at breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	90 =	Total Cove	r	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			We achieve All was cheving a prostory them 2,00 ft in
а	0			Woody vine - All woody vines greater than 3.28 ft in height.
т	0 =	Total Cove		
				Hydrophytic
				Vegetation Present? Yes • No ·
				Present? 103 C 110 C
Remarks: (Include photo numbers here or on a separate she	et.)			

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

US Army Corps of Engineers

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth Matrix				lox Featu						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-12	10YR	4/4	100					Peat		
12-20	10YR	3/2	100					Peaty Muck		
-	-		-		-	-				
						·				
				·						
		-			-					
-					-					
		=Depletio	on. RM=Red	luced Matrix, CS=Covere	d or Coate	d Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=M		
Hydric Soil 1								Indicators for Proble	ematic Hydric Soils: ³	
Histosol (Polyvalue Belov MLRA 149B)	v Surface (S8) (LRR R	,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)	
	pedon (A2)			Thin Dark Surfa	ce (S9) (I	RRR MIR	A 149B)	Coast Prairie Redo	ox (A16) (LRR K, L, R)	
Black Hist				Loamy Mucky N				5 cm Mucky Peat of	or Peat (S3) (LRR K, L, R)	
) Sulfide (A4) Layers (A5)			Loamy Gleyed I				Dark Surface (S7)	(LRR K, L, M)	
_	Below Dark S	Surfaco (A	11)	Depleted Matrix (F3)				Polyvalue Below Surface (S8) (LRR K, L)		
	k Surface (A)	Redox Dark Sur				Thin Dark Surface		
	ick Mineral (S			Depleted Dark		7)			lasses (F12) (LRR K, L, R)	
	eyed Matrix (Redox Depressi	ons (F8)				in Soils (F19) (MLRA 149B)	
Sandy Re		54)) (MLRA 144A, 145, 149B)	
	Matrix (S6)							Red Parent Materia	. ,	
	ace (S7) (LRI	R R, MLRA	A 149B)					Very Shallow Dark		
				and hydrology must be p	rocont un	ana diaturb	ad as proble	Other (Explain in F	(emarks)	
				and hydrology must be p	resent, un	iess uistui b				
Restrictive L	ayer (if obs	erved):								
Туре:								Hydric Soil Present?	Yes 🔍 No 🔾	
Depth (inc	hes):									
Remarks:										