## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Cou	<b>nty:</b> Aitkin	Sampling Date: 01-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: w-51n24w25-f1
Investigator(s): DPT	Section	on, Township, Range: S.	25 <b>T.</b> 51N <b>R.</b> 24W
Landform (hillslope, terrace, etc.): Lowla		ief (concave, convex, none	
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 52.35	27 <b>Long.:</b>	-93 19.2596 <b>Datum:</b> NAD 83
Soil Map Unit Name: 546			NWI classification: N/A
Are climatic/hydrologic conditions on the s	ite typical for this time of year?	Yes   No   (If	no, explain in Remarks.)
	ydrology significantly disturb	•	cumstances" present? Yes • No ·
Are Vegetation, Soil, or H	ydrology  naturally problemat		ain any answers in Remarks.)
<b>.</b>		` , .	transects, important features, etc
Hydrophytic Vegetation Present? Yes	● No ○		
Hydric Soil Present? Yes		Is the Sampled Area within a Wetland?	es   No
Wetland Hydrology Present? Yes	No	Willing Wedung.	
Hydrology  Wetland Hydrology Indicators:		See	condary Indicators (minimum of 2 required)
Primary Indicators (minimum of one requ	uired; check all that apply)		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	_	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron (C		Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Iron Deposits (B5)	Recent Iron Reduction in Tille Thin Muck Surface (C7)	ed Solls (C6)	Shallow Aguitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Uther (explain in Remains)	<b>✓</b>	FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes O No	Depth (inches): 0		
Water Table Present? Yes • No	Depth (inches): 2		
Saturation Present? (includes capillary fringe) Yes • No	Depth (inches): 0	Wetland Hydrolog	gy Present? Yes  No
Describe Recorded Data (stream gauge, r	nonitoring well, aerial photos, previou	us inspections), if available	):
Remarks:			

## **VEGETATION - Use scientific names of plants**

vederation - ose scientific fiames of pr	Sampling Point: W-51n24w25-f1			
(Dist. :: 20	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:
2	0			Total Number of Dominant
3	0			Species Across All Strata:5(B)
4	0			
5				Percent of dominant Species
6				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		- Iotai core		0BL speci es 120 x 1 = 120
1 _ Ledum groenlandicum	50	<b>✓</b>	OBL	FACW species 0 x 2 = 0
2. Chamaedaphne calyculata	20	<b>✓</b>	OBL	
3		$\overline{\Box}$		FAC speciles x 3 =0
4		$\Box$		FACU species $0 \times 4 = 0$
5		$\overline{\Box}$		UPL species $0 \times 5 = 0$
		$\overline{\Box}$		Column Total s: 120 (A) 120 (B)
6				
7				Prevalence Index = B/A = 1.000
Herb Stratum (Plot size: 5	=	Total Cove	r	Hydrophytic Vegetation Indicators:
	4.0		0.01	✓ Rapid Test for Hydrophytic Vegetation
1. Carex trisperma		<b>✓</b>	OBL	✓ Dominance Test is > 50%
2. Carex laslocarpa		<b>✓</b>	OBL	✓ Prevalence Index is ≤3.0 ¹
3. Calamagrostis canadensis	10	<b>✓</b>	OBL	Morphological Adaptations <sup>1</sup> (Provide supporting
4	0			data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
0		П		
				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
1				at breast height (DDF1), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30	50 =	Total Cove	r	greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
		Total Cove	r	
				Hydrophytic
				Vegetation   Yes • No •
				<u> </u>
Remarks: (Include photo numbers here or on a separate s	sneet.)			

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-51n24w25-f1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth				<del>_</del>						
(inches)	Color (moist)		Color (moist)	<u>%</u> <u>Type</u> <sup>1</sup>	Loc²	Texture	Remarks			
0-24	10YR 2/2	100				Peat				
-										
						<del></del>				
<sup>1</sup> Type: C=Cond	centration. D=Depletio	n. RM=Redu	ced Matrix, CS=Covere	d or Coated Sand Gr	ains <sup>2</sup> Loca	tion: PL=Pore Lining. M=Ma	atrix			
Hydric Soil I	ndicators:					Indicators for Proble	matic Hydric Soils: 3			
Histosol (A			Polyvalue Below	V Surface (S8) (LRR F	1					
Histic Epip			MLRA 149B)	. , ,			LRR K, L, MLRA 149B)			
Black Histi			Thin Dark Surfa	ce (S9) (LRR R, MLF	A 149B)		(A16) (LRR K, L, R)			
	Sulfide (A4)			lineral (F1) LRR K, L)			r Peat (S3) (LRR K, L, R)			
Stratified I	Layers (A5)		Loamy Gleyed N	Matrix (F2)		Dark Surface (S7)				
Depleted I	Below Dark Surface (A	11)	Depleted Matrix			Thin Dark Surface	urface (S8) (LRR K, L)			
☐ Thick Dark	Surface (A12)		Redox Dark Sur				asses (F12) (LRR K, L, R)			
Sandy Mu	ck Mineral (S1)		Depleted Dark S				n Soils (F19) (MLRA 149B)			
Sandy Gle	yed Matrix (S4)		Redox Depressi	ons (F8)			(MLRA 144A, 145, 149B)			
Sandy Red	dox (S5)					Red Parent Materia				
Stripped M	Matrix (S6)					Very Shallow Dark				
☐ Dark Surfa	ace (S7) (LRR R, MLRA	149B)				Other (Explain in R				
3 Indicators of	hydrophytic vegetatio	n and wetlar	nd hydrology must be p	racant unlace dicturk	ed or proble		emarksy			
		ii and wetiai	ia nyarology mast be p	reserit, uriless disturt	ed of proble	induc.				
	ayer (if observed):									
Type:						Hydric Soil Present?	Yes ● No ○			
Depth (inch	nes):					Tryunc Son Tresent.	Tes C NO C			
Remarks:										