## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

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Project/Site: RSA 22		City/County:	Aitkin	Sampli	Sampling Date: 30-Aug-17	
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n26w31-n1	
Investigator(s): DPT		Section, To	wnship, Range: S. 31	<b>T.</b> 51N	<b>R.</b> 26W	
Landform (hillslope, terrace, etc.): Lowland	I	Local relief (co	ncave, convex, none):	concave	Slope: 0.0 % / 0.0 °	
Subregion (LRR or MLRA): LRR K	Lat.: 4	6 52.2049	<b>Long.:</b> -9:	3 40.9352	Datum: NAD 83	
Soil Map Unit Name: 625				NWI classification:	PSS/EM5B	
Are Vegetation , Soil , or Hyd	57 — 71			n any answers in Re ansects, impo		
Hydrophytic Vegetation Present?       Yes         Hydric Soil Present?       Yes         Wetland Hydrology Present?       Yes	) No ()		Sampled Area a Wetland? Yes	● No ○		
Remarks: (Explain alternative procedures I WETS analysis shows precipitation below n	ere or in a separate report	-	es.			

## Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)		
Primary Indicators (minimum of one required;	check all that apply)	Surface Soil Cracks (B6)		
Surface Water (A1)	Drainage Patterns (B10)			
✓ High Water Table (A2)	Water-Stained Leaves (B9) 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)	Geomorphic Position (D2)			
Iron Deposits (B5)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)		✓ FAC-neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes $ullet$ No $ightarrow$	Depth (inches): 5			
Water Table Present? Yes  No	Depth (inches): 0	drology Present? Yes $ullet$ No $igodoldsymbol{ imes}$		
Saturation Present? Yes  No	Depth (inches): 0	drology Present? Yes $ullet$ No $igloodow$		
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspections), if ava	ailable:		
Remarks:				

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

VEGETATION - USE SCIENTIFIC names of plants Sampling Point: w-51n26w31-n1				
	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% 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:(B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )	=	Total Cover		Total % Cover of: Multiply by:
	0			OBL species x 1 =
1				FACW species50 x 2 =100
2				FAC species $0 \times 3 = 0$
3				FACU species $0 \times 4 = 0$
4				UPL species $0 \times 5 = 0$
5				Column Totals:100 (A)150 (B)
6				
7				Prevalence Index = $B/A = 1.500$
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
	50	$\checkmark$	FACW	Rapid Test for Hydrophytic Vegetation
		$\checkmark$	OBL	$\checkmark$ Dominance Test is > 50%
			OBL	<b>V</b> Prevalence Index is $\leq$ 3.0 <sup>1</sup>
				Morphological Adaptations <sup>1</sup> (Provide supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				<sup>1</sup> 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 )	100 =	Total Cover		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			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cover		
				Hydrophytic
				Vegetation Present? Yes • No ·
Remarks: (Include photo numbers here or on a separate she	et )			
Remarks. (Include photo numbers here of on a separate she	euj			

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

US Army Corps of Engineers

Depth	Matrix	iic acpui li		dox Featu			absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	<u>uox reatu</u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
				-	-			
		·						
	······································							
	· · · · · · · · ·				-	-		
		·						
Type: C=Con	centration. D=Depletion	. RM=Redu	ced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ains <sup>2</sup> Loca	tion: PL=Pore Lining. M=M	atrix
Hydric Soil								
_					(0) (100 0		Indicators for Proble	ematic Hydric Soils : <sup>3</sup>
Histosol (	. ,		Polyvalue Belo MLRA 149B)	w Surrace (	58) (LRR R		2 cm Muck (A10) (	(LRR K, L, MLRA 149B)
	pedon (A2)		Thin Dark Surf	ace (S9) (I	RR R MIR	A 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)
Black His			Loamy Mucky				5 cm Mucky Peat c	or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed				Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)						Polyvalue Below Su	urface (S8) (LRR K, L)
Depleted	Below Dark Surface (A1	1)	Depleted Matri				Thin Dark Surface	
Thick Dar	rk Surface (A12)		Redox Dark Su				_	lasses (F12) (LRR K, L, R)
🗌 Sandy Mu	uck Mineral (S1)		Depleted Dark		7)			in Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)		Redox Depress	sions (F8)				
Sandy Re								) (MLRA 144A, 145, 149B)
	Matrix (S6)						Red Parent Materia	
	face (S7) (LRR R, MLRA	149B)					Very Shallow Dark	
							Other (Explain in R	Remarks)
<sup>3</sup> Indicators o	f hydrophytic vegetation	and wetlan	d hydrology must be p	present, un	less disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):							
Туре:								
Depth (inc	has).						Hydric Soil Present?	Yes 🔍 No 🔾
Remarks:								
No digging, p	potential buried utilitie	s. Soils as	sumed hydric base	d on vege	etation and	d hydrolog	y.	