## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin	Sampling Date: 22-Aug-17
Applicant/Owner: Enbridge	Sta	te: MN Sampling Point: u-51n26w33-a3
Investigator(s): SMR/RWS	Section, Township, R	Range: S. 33 T. 51N R. 26W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, co	
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 51.8347	Long.: -93 38.4640 Datum: NAD 83
Soil Map Unit Name: 506		NWI classification: PSSB
Are climatic/hydrologic conditions on the site	typical for this time of year?	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydro		Normal Circumstances" present? Yes  No  No
Are Vegetation, Soil, or Hydro		eeded, explain any answers in Remarks.)
	•	rations, transects, important features, etc
Hydrophytic Vegetation Present? Yes	No •	, , , , , , , , , , , , , , , , , , , ,
Hydric Soil Present? Yes	No. (•) Is the Sampled	
Wetland Hydrology Present?	No ● within a Wetlan	d? 165 UNU C
Remarks: (Explain alternative procedures he		
Hydrology		
Wetland Hydrology Indicators:		Consider the Hartest Assistance of December 1
Primary Indicators (minimum of one required	to check all that anniv)	Secondary Indicators (minimum of 2 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)	
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)☐ Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	U Other (Explain in Remarks)	☐ Microtopographic Relief (D4) ☐ FAC-neutral Test (D5)
opened, regulate contact contact (50)		The head at less (55)
Field Observations: Surface Water Present?  Yes No   No	Depth (inches): 0	
	Wotlan	nd Hydrology Present? Yes $\bigcirc$ No $lacktriangle$
Saturation Present? (includes capillary fringe)  Yes No   No		
Describe Recorded Data (stream gauge, moni	itoring well, aerial photos, previous inspections),	if available:
Remarks:		

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

VEGETATION - Use scientific fiames of pia	Sampling Point: u-51n26w33-a3			
(2)	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: (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 2 (B)
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				0BL species 0 x 1 = 0
1 Corylus cornuta		<b>✓</b>	FACU	FACW species 0 x 2 = 0
2	0			· · · · · · · · · · · · · · · · · · ·
3	0			'
4				FACU species $\frac{130}{2}$ x 4 = $\frac{520}{2}$
5			-	UPL speci es $0 \times 5 = 0$
6				Column Totals: 130 (A) 520 (B)
7				Prevalence Index = B/A = 4.000
		= Total Cove		
Herb Stratum (Plot size: 5 )				Hydrophytic Vegetation Indicators:
1. Pteridium aquilinum	90	<b>✓</b>	FACU	Rapid Test for Hydrophytic Vegetation
2 Solidago canadensis			FACU	☐ Dominance Test is > 50%
3				Prevalence Index is ≤3.0 ¹
				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				Definitions of Vegetation Strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
(5)	100 =	= Total Cove	r	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30				· , ,
1				Herb - All herbaceous (non-woody) plants, regardless of
2				size, and woody plants less than 3.28 ft tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	= Total Cove	r	
				Hydrophytic
				Vegetation
Domarke: (Include photo numbers have as an a consultable	aget \			
Remarks: (Include photo numbers here or on a separate sh	eet.)			

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

Soil Sampling Point: u-51n26w33-a3

Profile Descri	ption: (Des	scribe to	the depth	needed to d	locument	the indi	cator or co	onfirm the a	absence of indicators.)		
Depth (inches)			Redox Features								
(inches)	Color (		%	Color (	moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR	2/1	100						Loam		
5-15	10YR	3/4	100		B				Loamy Sand		
15-20	10YR	4/3	95	10YR	4/6	5	С	M	Sand		
			-	-		-					
				-	-						
					-						
					-						
		-									
1 Type: C=Cond	entration D	=Depletic	n RM=Rec	luced Matrix (	CS=Covere	ed or Coat	ed Sand Gr	ains 2l oca	tion: PL=Pore Lining. M=M	latrix	
Hydric Soil I		D op.ot.o		idood mating			ou ounu or		<del>-</del>		
Histosol (A				Poly	/alue Belo	w Surface	(S8) (LRR I	₹.		ematic Hydric Soils: 3	
Histic Epip	•				4 149B)		,, ( <u>-</u> 1313 1			(LRR K, L, MLRA 149B)	
Black Histi				Thin	Dark Surfa	ace (S9) (	(LRR R, MLF	RA 149B)		ox (A16) (LRR K, L, R)	
	Sulfide (A4)						1) LRR K, L		<ul><li>☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li><li>☐ Dark Surface (S7) (LRR K, L, M)</li></ul>		
Stratified L	ayers (A5)					Matrix (F2	2)			urface (S8) (LRR K, L)	
Depleted E	Below Dark S	Surface (A	.11)		eted Matri				Thin Dark Surface		
Thick Dark	Surface (A1	12)		_		rface (F6)				Masses (F12) (LRR K, L, R)	
Sandy Mud	ck Mineral (S	51)				Surface (F	-7)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
	yed Matrix (S	S4)		☐ Read	x Depress	sions (F8)				) (MLRA 144A, 145, 149B)	
Sandy Rec									Red Parent Materi	al (F21)	
Stripped M									Very Shallow Dark	Surface (TF12)	
☐ Dark Surfa	ice (S7) (LRF	R R, MLRA	A 149B)						Other (Explain in I	Remarks)	
<sup>3</sup> Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology	must be p	oresent, ui	nless disturl	ed or proble	ematic.		
Restrictive La	yer (if obs	erved):									
Туре:											
Depth (inch	nes):								Hydric Soil Present?	Yes ○ No •	
Remarks:									ı		