## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Co	ounty: Aitkin	Sampling Date: 31-Aug	<b>j</b> -17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n24v	/25-e1
Investigator(s): PJK	Sec	tion, Township, Range: S.	25 <b>T.</b> 51N <b>R.</b> 2	24W
Landform (hillslope, terrace, etc.): Moun	d Local re	elief (concave, convex, non	e): convex Slope: 53.1	<b>% /</b> 28.0 °
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 52.3	3561 <b>Long.:</b>	-93 19.4431 <b>Datum:</b>	
Soil Map Unit Name: 870C			NWI classification: N/A	
Are climatic/hydrologic conditions on the	site typical for this time of year?	Yes ○ No ● (I	no, explain in Remarks.)	
	lydrology	•	, .	lo 🔾
	lydrology		cambanices present.	
Summary of Findings - Attach		, , ,	lain any answers in Remarks.) transects. important featur	res. etc
Hydrophytic Vegetation Present? Yes		mg pome rocaciono,	transcess, important reacti	
Hydric Soil Present? Yes		Is the Sampled Area	Yes ○ No •	
Van		within a Wetland?	res Uno U	
Wetland Hydrology Present? Yes  Remarks: (Explain alternative procedure				
U-dualogy.				
Hydrology Wetland Hydrology Indicators				
Wetland Hydrology Indicators:  Primary Indicators (minimum of one requirements)	uirod, chack all that apply)	<u>_S</u>	econdary Indicators (minimum of 2 required)	
Surface Water (A1)	Water-Stained Leaves (B9)		Surface Soil Cracks (B6)  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 alon	ng Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)	
Drift deposits (B3)	Presence of Reduced Iron (		Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in T	illed Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	☐ Thin Muck Surface (C7)	L	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)	U Other (Explain in Remarks)	_	Microtopographic Relief (D4)  FAC-neutral Test (D5)	
Sparsely regulated contains surface (50)		_	TAC-neutral rest (D3)	
Field Observations: Surface Water Present? Yes No	Depth (inches):			
		) Wetland Hydrol	ogy Present? Yes O No 🗨	
Saturation Present? (includes capillary fringe) Yes O	Depth (inches):(		<b>9,1100011</b>	
Describe Recorded Data (stream gauge, r	monitoring well, aerial photos, previ	ious inspections), if availab	e:	
Remarks:				
. To man to				

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

vederation - ose scientific fiames of pic	Sampling Point: u-51n24w25-e1			
(District 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover		Status	Number of Dominant Species
1. Acer rubrum	5	✓	FAC	That are OBL, FACW, or FAC:1 (A)
2	0			Total Number of Deminent
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4				
5		П		Percent of dominant Species
6		$\overline{\Box}$		That Are OBL, FACW, or FAC: 50.0% (A/B)
7		$\overline{\Box}$		Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )		- rotal cove	•	0BL species x 1 =
1	0			
2		$\overline{\Box}$		FACW species 10 x 2 = 20
3		$\overline{\Box}$		FAC speci es <u>5</u> x 3 = <u>15</u>
4		$\overline{\Box}$		FACU species $90 \times 4 = 360$
5		$\Box$		UPL species $0 \times 5 = 0$
6.		$\Box$	-	Column Totals: 105 (A) 395 (B)
-		$\overline{\sqcap}$		
7				Prevalence Index = B/A = 3.762
Herb Stratum (Plot size: 5	=	= Total Cove	Г	Hydrophytic Vegetation Indicators:
	00		FACU	Rapid Test for Hydrophytic Vegetation
1. Pteridium aquilinum		<b>~</b>		☐ Dominance Test is > 50%
2. Phalaris arundinacea			FACW	Prevalence Index is ≤3.0 <sup>1</sup>
3				Morphological Adaptations <sup>1</sup> (Provide supporting
4				data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6	0			
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
9				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
12		H		
12	-	= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 )	100	- rotal cove	•	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				Mondaying All woody vines greater than 2.20 ft in
4	0			Woody vine - All woody vines greater than 3.28 ft in height.
4		= Total Cove		l noight.
		- Total Cove	1	
				Hydrophytic
				Vogetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate sl	neet.)			
•				

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

Soil Sampling Point: u-51n24w25-e1

Depth		Matrix		Redox Features		
(inches)	Color (r	noist)	%	Color (moist) % Type 1 Loc2	<u>Texture</u>	Remarks
0-6	10YR	2/2	100		Very Fine Sandy Loam	
6-20	10YR	4/3	100		Very Fine Sandy Loam	
<del></del> .						
			-			
,						
Type: C=Conc	entration D	=Denletio	n RM=Redi	uced Matrix, CS=Covered or Coated Sand Grains 2Lo	ocation: PL =Pore Lining M=Ma	trix
		- Беріспо	II. KWI–KCUC	accumulativity, cos-covered of codited sund civility		
Hydric Soil II Histosol (A				Polyvalue Below Surface (S8) (LRR R,		matic Hydric Soils: $^3$
Histic Epip				MLRA 149B)		LRR K, L, MLRA 149B)
Black Histi				☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)		(A16) (LRR K, L, R)
	Sulfide (A4)			Loamy Mucky Mineral (F1) LRR K, L)		Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gleyed Matrix (F2)	Dark Surface (S7)	
	Layers (A5) Below Dark Si	urfaco (A	11)	Depleted Matrix (F3)		rface (S8) (LRR K, L)
_	Surface (A1:		11)	Redox Dark Surface (F6)	Thin Dark Surface (	
				Depleted Dark Surface (F7)		asses (F12) (LRR K, L, R)
	ck Mineral (S			Redox Depressions (F8)	Piedmont Floodplain	n Soils (F19) (MLRA 149B)
Sandy Red	yed Matrix (S	94)		, , ,		(MLRA 144A, 145, 149B)
					Red Parent Materia	
Stripped M	natrix (56) ace (S7) (LRR	D MIDA	1.40D)			
☐ Dark Suria					Other (Explain in Re	emarks)
		vegetatio	n and wetla	nd hydrology must be present, unless disturbed or pro	oblematic.	
	hydrophytic					
<sup>3</sup> Indicators of		erved):				
<sup>3</sup> Indicators of		erved):			_	
<sup>3</sup> Indicators of <b>Restrictive La</b> Type:	ayer (if obse	erved):			Hydric Soil Present?	Yes ○ No ●
<sup>3</sup> Indicators of <b>Restrictive La</b> Type: Depth (inch	ayer (if obse	erved):			Hydric Soil Present?	Yes ○ No •
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