## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		Cit	ty/County:	Aitkin		Samplin	<b>g Date:</b> 29-Aug-17
Applicant/Owner: Enbridge				State: MN	San	npling Point:	u-51n24w31-a3
Investigator(s): SMR			Section, To	wnship, Range:	<b>s.</b> 36	<b>T.</b> 51N	<b>R.</b> 25W
Landform (hillslope, terrace, etc.):	Лound	Lo	•	ncave, convex, n		vex	Slope: 5.2 % / 3.0 °
Subregion (LRR or MLRA): LRR K		<b>Lat.:</b> 46	51.5816	Long	-93 27.0	D561	Datum: NAD 83
Soil Map Unit Name: 292					NWI	classification:	N/A
Are climatic/hydrologic conditions on	the site tyr	oical for this time of year	r? Yes	○ No ●	(If no, exp	lain in Remarks	s.)
. ,	, or Hydrolo	,			. , .	ices" present?	Yes   No
	, or Hydrolo					answers in Rer	narke \
Summary of Findings - Atta	•	· .					•
Hydrophytic Vegetation Present?	Yes O	No •					
Hydric Soil Present?	$_{Yes}$ $\bigcirc$	No •		Sampled Area a Wetland?	Yes 🔾	No 💿	
Wetland Hydrology Present?	$_{Yes}$ $\bigcirc$	No •	***************************************	a wcuana:			
Remarks: (Explain alternative proce	dures here	or in a senarate report.)	1				
Hydrology							
Wetland Hydrology Indicators:					Socondary	Indicators (minim	um of 2 required)
Primary Indicators (minimum of one	required;	check all that apply)			$\overline{}$	Soil Cracks (B6)	uni or 2 required)
Surface Water (A1)		Water-Stained Leaves	s (B9)			ge Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)			Moss T	rim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)			_	ason Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odo				h Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospheres		Roots (C3)		ion Visible on Ae	0 3
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)		Presence of Reduced  Recent Iron Reduction	, ,	(0/)		d or Stressed Plar rphic Position (D2	• •
Iron Deposits (B5)		Thin Muck Surface (C		(C6)		Aquitard (D3)	<u>-</u> )
Inundation Visible on Aerial Imagery	(B7)	Other (Explain in Rem	•			pographic Relief	(D4)
☐ Sparsely Vegetated Concave Surface	(B8)	Other (Explain in Ken	idi K3)			utral Test (D5)	
Field Observations:							
Surface Water Present? Yes	No 💿	Depth (inches):	0				
Water Table Present? Yes	No 💿	Depth (inches):	0				
Saturation Present? (includes capillary fringe) Yes	No •	Depth (inches):	0	Wetland Hydr	ology Prese	ent? Yes	) No ●
Describe Recorded Data (stream gau	ge, monito	ring well, aerial photos,	previous insp	pections), if avail	able:		
Remarks:							

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

VEGETATION - Ose scientific fiames of plants				Sampling Point: u-51n24w31-a3		
(5)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species		
1 Acer saccharum		✓	FACU	That are OBL, FACW, or FAC: 0 (A)		
2. Tilia americana	10		FACU			
3	0			Total Number of Dominant Species Across All Strata: 3 (B)		
4				Species ricross rin strata.		
5				Percent of dominant Species		
				That Are OBL, FACW, or FAC: 0.0% (A/B)		
6				Prevalence Index worksheet:		
7						
Sapling/Shrub Stratum (Plot size: 15 )	=	= Total Cove	er	Total % Cover of: Multiply by:		
1 Acer saccharum	15	<b>✓</b>	FACU	0BL speci es x 1 =0		
2				FACW species 0 x 2 = 0		
				FAC speci es x 3 =0		
3				FACU species 180 x 4 = 720		
4				UPL speci es 15 x 5 = 75		
5				Column Totals: 195 (A) 795 (B)		
6	=			Column Total's. 175 (A) 775		
7	0			Prevalence Index = B/A =4.077		
Herb Stratum (Plot size: 5)	15=	= Total Cove	r	Hydrophytic Vegetation Indicators:		
Herb Stratum (1 lot size)				Rapid Test for Hydrophytic Vegetation		
1 Pteridium aquilinum		✓	FACU	Dominance Test is > 50%		
2. Aralia nudicaulis	15		FACU	Prevalence Index is ≤3.0 ¹		
3. Eurybia macrophylla	15		UPL			
4				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6				Problematic Hydrophytic Vegetation (Explain)		
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
7		H		be present, unless disturbed or problematic.		
8				Definitions of Vegetation Strata:		
9				a community of a constraint of a constraint		
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
11				at breast height (DBH), regardless of height.		
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and		
No. 1 of an included and a control of the control o	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	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 Cove	r			
				Hydrophytic		
				Vegetation Present?  Yes ○ No ●		
				Present? Yes V NO V		
Remarks: (Include photo numbers here or on a separate she	eet.)					

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

Soil Sampling Point: u-51n24w31-a3

(inches)	Matri		Redox Features	_	
	Color (moist	) %	Color (moist) % Type 1 Loc2	Texture	Remarks
0-3	10YR 2/2	2 100		Silt Loam	
3-15	10YR 4/3	3 100		Silt Loam	
15-20	10YR 5/3	3 100		Silt Loam	
				-	
Type: C=Con/	centration. D=Depl	etion. RM=Red	uced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup> Loca	ation: PL=Pore Lining. M=Ma	ıtrix
Hydric Soil I			•		
Histosol (/			Polyvalue Below Surface (S8) (LRR R,		matic Hydric Soils: 3
= `	pedon (A2)		MLRA 149B)		LRR K, L, MLRA 149B)
Black Hist			☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)		(A16) (LRR K, L, R)
	Sulfide (A4)		Loamy Mucky Mineral (F1) LRR K, L)		r Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed Matrix (F2)	Dark Surface (S7)	
	Below Dark Surface	· (A11)	Depleted Matrix (F3)		rface (S8) (LRR K, L)
_	k Surface (A12)	((())	Redox Dark Surface (F6)	Thin Dark Surface	
	ck Mineral (S1)		Depleted Dark Surface (F7)		asses (F12) (LRR K, L, R)
	eyed Matrix (S4)		Redox Depressions (F8)		n Soils (F19) (MLRA 149B)
Sandy Red					(MLRA 144A, 145, 149B)
	Matrix (S6)			Red Parent Materia	
	ace (S7) (LRR R, M	Ι <b>Ρ</b> Δ 149R)		Very Shallow Dark	
				Other (Explain in R	emarks)
<sup>3</sup> Indicators of	hydrophytic vegeta	ation and wetla	nd hydrology must be present, unless disturbed or problem	ematic.	
Restrictive L	ayer (if observed	):			
resultable L					
Type:				Hydric Soil Present?	Yes 🔾 No 💿
	nes):			Tryanc Son Fresche	
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