## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Co	unty: Aitkin	Sampling	<b>Date:</b> 24-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-51n26w36-a1
Investigator(s): DPT/SMR	Sec	tion, Township, Range: S	. 36 <b>T.</b> 51N	<b>R.</b> 26W
Landform (hillslope, terrace, etc.): Mound	Local re	elief (concave, convex, no	ne): convex	Slope: 5.2 % / 3.0 °
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 51.7	482 <b>Long.</b> :	-93 34.8472	Datum: NAD 83
Soil Map Unit Name: 292			NWI classification:	J/A
Are climatic/hydrologic conditions on the s	ite typical for this time of year?	Yes ○ No ● (		<u> </u>
	ydrology	bed? Are "Normal C	ircumstances" present?	Yes ● No ○
Are Vegetation, Soil, or H	ydrology		plain any answers in Rem	arks.)
Summary of Findings - Attach		,	•	•
Hydrophytic Vegetation Present? Yes				
Hydric Soil Present? Yes		Is the Sampled Area within a Wetland?	Yes ○ No •	
Wetland Hydrology Present? Yes	○ No •			
Remarks: (Explain alternative procedure	s here or in a separate report.)			
Hydrology				
Wetland Hydrology Indicators:			Secondary Indicators (minimu	m of 2 required)
Primary Indicators (minimum of one requ	ired; check all that apply)		Surface Soil Cracks (B6)	III Of Z rogali 33,
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)	ļ	Dry Season Water Table (	C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	/2=>
Sediment Deposits (B2)  Drift deposits (B3)	Oxidized Rhizospheres along	-	Saturation Visible on Aeria	0 3
Algal Mat or Crust (B4)	Presence of Reduced Iron ( Recent Iron Reduction in Ti	·	<ul><li>Stunted or Stressed Plants</li><li>Geomorphic Position (D2)</li></ul>	S (D1)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aguitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	ĺ	Microtopographic Relief ([	04)
Sparsely Vegetated Concave Surface (B8)	outer (Explain in Remarks)		FAC-neutral Test (D5)	
Field Observations:	_			
Surface Water Present? Yes O No	Depth (inches):0	<u> </u>		
Water Table Present? Yes O No	Depth (inches): 0			
Saturation Present? (includes capillary fringe) Yes O No	Depth (inches): 0	Wetland Hydro	logy Present? Yes	No •
Describe Recorded Data (stream gauge, n	nonitoring well, aerial photos, previ	ous inspections), if availa	ble:	
Remarks:				
ivernal ks.				

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

(0)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species		
1. Populus tremuloides	20	✓	FACU	That are OBL, FACW, or FAC: (A)		
2	0			THIN I GO I I I		
3				Total Number of Dominant Species Across All Strata: 4 (B)		
4				()		
5		H		Percent of dominant Species		
6				That Are OBL, FACW, or FAC: 0.0% (A/B)		
7				Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15 )	=	= Total Cove	r	Total % Cover of: Multiply by:		
1_Corylus cornuta	30	<b>✓</b>	FACU	0BL speci es <u>10</u> x 1 = <u>10</u>		
2				FACW species		
3				FAC speci es <u>0</u> x 3 = <u>0</u>		
				FACU speciles x 4 =		
4				UPL speci es $0 \times 5 = 0$		
5				Column Totals: <u>150</u> (A) <u>570</u> (B)		
6						
7	0			Prevalence Index = B/A = 3.800		
Herb Stratum (Plot size: 5)	30=	= Total Cove	r	Hydrophytic Vegetation Indicators:		
				Rapid Test for Hydrophytic Vegetation		
1. Pteridium aquilinum	70	<b>✓</b>	FACU	Dominance Test is > 50%		
2. Calamagrostis canadensis	10		OBL	Prevalence Index is ≤3.0 ¹		
3. Solidago canadensis	20	<b>✓</b>	FACU	Morphological Adaptations <sup>1</sup> (Provide supporting		
4	0			data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6	0					
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
8.				be present, unless disturbed or problematic.		
9				Definitions of Vegetation Strata:		
10		П		Tara Mandanta Cin (7.0 an) an area in the costs		
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter 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 Cove	r	greater than 3.28 ft (1m) tall		
1	0			Herb - All herbaceous (non-woody) plants, regardless of		
	0			size, and woody plants less than 3.28 ft tall.		
2	0	П				
3	0			Woody vine - All woody vines greater than 3.28 ft in height.		
4						
	=	= Total Cove	r			
				Hydrophytic Vegetation		
				Present? Yes No •		
Remarks: (Include photo numbers here or on a separate she	ot \					
Remarks: (Include photo numbers here of on a separate she	et.)					

Sampling Point: u-51n26w36-a1

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

Soil Sampling Point: u-51n26w36-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth		Matrix			Re	dox Featu			_	
(inches)	Color (	moist)	%_	Color	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR	2/2	100						Sandy Loam	
5-15	10YR	4/3	100						Loamy Sand	
15-20	10YR	4/3	90	10YR	4/6	10	С	M	Sandy Clay Loam	
		-		-						
		-		-			-			
		-								
		-		-		-	-			
1 Type: C=Cond	centration. D	=Depletio	n. RM=Re	duced Matrix.	CS=Cover	ed or Coate	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=Ma	trix
Hydric Soil I										
Histosol (A				□ Poly	nyahua Bala	w Surface	(SQ) (I DD I	0	Indicators for Probler	
	pedon (A2)				RA 149B)	W Surface	(30) (ERRI	ν,		.RR K, L, MLRA 149B)
Black Hist				Thir	n Dark Surf	ace (S9) (	LRR R, MLF	RA 149B)	Coast Prairie Redox	
	Sulfide (A4)			Loa	my Mucky	Mineral (F1	) LRR K, L	)		Peat (S3) (LRR K, L, R)
	Layers (A5)			Loa	my Gleyed	Matrix (F2)	)		Dark Surface (S7) (	
	Below Dark S	Surface (A	11)	☐ Dep	leted Matri	ix (F3)				rface (S8) (LRR K, L)
	k Surface (A1		,	Red	ox Dark Su	ırface (F6)			Thin Dark Surface (	
	ıck Mineral (S			☐ Dep	leted Dark	Surface (F	7)			isses (F12) (LRR K, L, R)
	eyed Matrix (S			Red	ox Depress	sions (F8)				1 Soils (F19) (MLRA 149B)
Sandy Red		.,								(MLRA 144A, 145, 149B)
	Matrix (S6)								Red Parent Material	
	ace (S7) (LRF	R. MIRA	(149B)						☐ Very Shallow Dark S	
									Other (Explain in Re	emarks)
<sup>3</sup> Indicators of	f hydrophytic	vegetatio	n and wet	and hydrolog	y must be p	present, un	ıless disturl	bed or probl	ematic.	
Restrictive La	ayer (if obs	erved):								
Type:										
Depth (incl	hes):								Hydric Soil Present?	Yes ○ No •
Remarks:									1	