WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Co	ounty: Aitkin	Sampling Date: 29-Aug-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point: w-51n25w35-c	1
Investigator(s): SMR	Sec	tion, Township, Range: S	35 T. 51N R. 25W	
Landform (hillslope, terrace, etc.): Lowlan	nd Local r	elief (concave, convex, no	ne): concave Slope: 0.0 % /	0.0
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.5	5482 Long. :	-93 28.8687 Datum: NAD 83	3
Soil Map Unit Name: 292			NWI classification: N/A	
Are climatic/hydrologic conditions on the s	ite typical for this time of year?	Yes ○ No ● (If no, explain in Remarks.)	
. ,	ydrology significantly distu	`	ircumstances" present? Yes No	
	ydrology		plain any answers in Remarks.)	
	, , , , , , , , , , , , , , , , , , , ,	,	, transects, important features, e	etc
Hydrophytic Vegetation Present? Yes	• No O		· · ·	
Hydric Soil Present? Yes	No	Is the Sampled Area within a Wetland?	Yes No	
Wetland Hydrology Present? Yes	● No ○	Willillia Welland:	100 - 110 -	
Remarks: (Explain alternative procedures				
Hydrology				
Wetland Hydrology Indicators:			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Primary Indicators (minimum of one regu	ired check all that apply)	<u>.:</u>	Secondary Indicators (minimum of 2 required) Surface Soil Cracks (B6)	ļ
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 alor		Saturation Visible on Aerial Imagery (C9)	
Drift deposits (B3)	Presence of Reduced Iron	` `	Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in T	illed Soils (C6)	Geomorphic Position (D2)	
Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)		Shallow Aquitard (D3) Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		✓ FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes No	Depth (inches):	0		
Water Table Present? Yes No		0		
Saturation Present?		Wetland Hydro	logy Present? Yes No	
(includes capillary fringe) Describe Recorded Data (stream gauge, n			ole:	
		•		
Domarks				
Remarks:				

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pic	Sampling Point: w-51n25w35-c1			
(0) 20	Absolute	Dominant	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:
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				0BL speci es 60 x 1 = 60
1	0			FACW species 20 x 2 = 40
2	0			
3				<u> </u>
4				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6.				Column Totals: <u>80</u> (A) <u>100</u> (B)
7				Prevalence Index = B/A = 1,250
		= Total Cove		
Herb Stratum (Plot size: 5		. 5.01 5046		Hydrophytic Vegetation Indicators:
1 Carex lacustris	60	✓	OBL	Rapid Test for Hydrophytic Vegetation
0.00.1.1		✓	FACW	✓ Dominance Test is > 50%
			OBL	✓ Prevalence Index is ≤3.0 ¹
			OBL	☐ Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
l1				at breast height (DBH), regardless of height.
12		$\overline{\Box}$		Configuration to Management less than 0 in PRII and
	-	= Total Cove	•	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)				groater than 6.25 it (iiii) taii
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 Cove		
				Hydrophytic
				Vegetation Present? Yes No
				Present? Yes No O
Remarks: (Include photo numbers here or on a separate sh	neet.)			

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

Soil Sampling Point: w-51n25w35-c1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix Redox Features			_						
(inches)	Color	(moist)	%	Color (moist)	%_	Type 1	Loc ²	Texture	Remarks
0-4	10YR	2/2	100						Sandy Loam	
4-14	10YR	4/2	80	10YR	4/4	20	С	M	Sandy Loam	
		-			-					
		-		-			-	-		
	-	-				-	-			
		-								
1 Type: C=Cond	centration [)=Denletio	n RM=Red	uced Matrix (CS=Cover	ed or Coate	ed Sand G	rains 21 oca	ation: PL=Pore Lining. M=M	latrix
Hydric Soil I		•	II. KWI–KCG	deca man ix,	33-00VCI	cu or court	ca sana oi	diris Locc		
Histosol (A				Dolo	raluo Dolo	w Surface ((88) (1 DD	D		ematic Hydric Soils: 3
	pedon (A2)				alue Belo A 149B)	w Surrace ((38) (LKK	κ,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Black Histi				Thin	Dark Surfa	ace (S9) (I	LRR R, ML	RA 149B)	Coast Prairie Redo	ox (A16) (LRR K, L, R)
	Sulfide (A4)	`				Mineral (F1				or Peat (S3) (LRR K, L, R)
_ ,	Layers (A5))				Matrix (F2)			Dark Surface (S7)	
	Below Dark	Surface (A	11)		eted Matri					urface (S8) (LRR K, L)
	k Surface (A		11)			rface (F6)			Thin Dark Surface	
	ck Mineral (☐ Depl	eted Dark	Surface (F	7)			Masses (F12) (LRR K, L, R)
	eyed Matrix				x Depress					ain Soils (F19) (MLRA 149B)
Sandy Red		(34)								b) (MLRA 144A, 145, 149B)
Stripped N									Red Parent Materi	
	ace (S7) (LR	PR MIRA	149R)							
									Other (Explain in I	Remarks)
³ Indicators of	hydrophyti	c vegetatio	n and wetla	nd hydrology	must be p	resent, un	lless distur	bed or probl	ematic.	
Restrictive La	ayer (if ob	served):								
Type: Ro	ock									
Depth (inch	hes): <u>14</u>								Hydric Soil Present?	Yes No
Remarks:										
1										
I										