WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 24-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: w-51n26w36-a1
Investigator(s): DPT/SMR		Section, Township, Range:	S. 36 T. 51N R. 26W
Landform (hillslope, terrace, etc.):	owland	Local relief (concave, convex, r	
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.7405 Long	Datum: NAD 83
Soil Map Unit Name: 292			NWI classification: N/A
Are climatic/hydrologic conditions on	the site typical for this time of ye	ear? Yes O No 💿	(If no, explain in Remarks.)
., _	, ,		Circumstances" present? Yes No
			explain any answers in Remarks.)
- , - ,	, ,, – ,,	,	is, transects, important features, etc
Hydrophytic Vegetation Present?	Yes No		· ·
Hydric Soil Present?	Yes ● No ○	Is the Sampled Area within a Wetland?	Yes ● No ○
Wetland Hydrology Present?	Yes ● No ○	Within a Wedding.	
Remarks: (Explain alternative proce	dures here or in a separate repor	rt.)	
Hydrology			
Wetland Hydrology Indicators:			Consider the Indicators (selection of 2 required)
Primary Indicators (minimum of one	required: check all that apply)		Secondary Indicators (minimum of 2 required) Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leav	ves (B9)	Drainage Patterns (B10)
☐ High Water Table (A2)	Aquatic Fauna (B13	, ,	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15	5)	Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide C		Crayfish Burrows (C8)
Sediment Deposits (B2)		eres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduc	• •	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Iron Deposits (B5)		tion in Tilled Soils (C6)	✓ Geomorphic Position (D2) ☐ Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery	(B7) Thin Muck Surface Other (Evolute in B	• ,	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface	United (Explain in it	етагку	FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	No Depth (inches):	0	
Water Table Present? Yes	No Depth (inches):		
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):		rology Present? Yes No
Describe Recorded Data (stream gauge	ge, monitoring well, aerial photo	os, previous inspections), if avai	lable:
Remarks:			

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-51n26w36-a1			
(Dist. 20)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:5 (A)
2				Total Number of Dominant
3	0			Species Across All Strata:5(B)
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)		- 10001 0010	-	0BL speci es 70 x 1 = 70
1 _ Alnus incana	10	✓	FACW	FACW species 45 x 2 = 90
2. Salix petiolaris	5	✓	FACW	
3	0		-	FAC species x 3 =
4				FACU species $0 \times 4 = 0$
5			-	UPL speci es $0 \times 5 = 0$
6				Column Totals: <u>115</u> (A) <u>160</u> (B)
			-	Dravalance Index D/A 1 201
7		= Total Cove		Prevalence Index = B/A = 1.391
Herb Stratum (Plot size: 5	15=	= Total Cove	r	Hydrophytic Vegetation Indicators:
	20	✓	OBL	Rapid Test for Hydrophytic Vegetation
2 2 1 ""		✓	FACW	✓ Dominance Test is > 50%
		✓		✓ Prevalence Index is ≤3.0 ¹
3. Calamagrostis canadensis			OBL	Morphological Adaptations ¹ (Provide supporting
4. Scirpus cyperinus			OBL	data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2		$\overline{\Box}$		
	-	= 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			-	greater than 3.26 it (1111) tall
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				height.
То		= Total Cove		
		- rotar cove	•	
				Hydrophytic
				Vegetation
				Present? Yes Vo V
Remarks: (Include photo numbers here or on a separate s	heet.)			

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

Soil Sampling Point: w-51n26w36-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth <u>Matrix</u>		Redox Features									
(inches)	Color (moist)	%	Color (moist)	%_	Type 1	Loc2	Texture	Remarks	
0-6	10YR	2/1	100						Muck		
6-9	10YR	3/1	100						Silty Clay Loam		
9-20	10YR	4/2	80	10YR	4/6	20	С	M	Sandy Loam		
					-						
		-	-		p-	-		-			
		-									
		-			-	-					
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix,	CS=Covere	ed or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=N	Matrix	
Hydric Soil I	ndicators:								Indicators for Probl	ematic Hydric Soils: 3	
Histosol (A	A1)					w Surface ((S8) (LRR I	₹,		(LRR K, L, MLRA 149B)	
Histic Epip	edon (A2)				A 149B)					ox (A16) (LRR K, L, R)	
☐ Black Histi	ic (A3)					ace (S9) (l				or Peat (S3) (LRR K, L, R)	
Hydrogen	Sulfide (A4)					Mineral (F1)			
Stratified L	Layers (A5)					Matrix (F2)			☐ Dark Surface (S7) (LRR K, L, M) ☐ Polyvalue Below Surface (S8) (LRR K, L)		
Depleted E	Below Dark S	Surface (A	11)		eted Matri						
☐ Thick Dark	k Surface (A1	12)			x Dark Su				☐ Thin Dark Surface (S9) (LRR K, L) ☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy Mud	ck Mineral (S	S1)				Surface (F	7)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Gle	yed Matrix (S4)		☐ Redo	x Depress	ions (F8)				6) (MLRA 144A, 145, 149B)	
Sandy Red	dox (S5)								Red Parent Materi		
Stripped M									Very Shallow Dark		
☐ Dark Surfa	ace (S7) (LRF	R R, MLRA	149B)						Other (Explain in		
³ Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology	must be p	resent, un	less distur	oed or proble			
Restrictive La	ayer (if obs	erved):									
Type:											
Depth (inch	nes):								Hydric Soil Present?	Yes No	
Remarks:									1		
1											