WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin Sampling Date: 30-Aug-17
Applicant/Owner: Enbridge	State: MN Sampling Point: w-51n24w26-a2
Investigator(s): DPT	Section, Township, Range: S. 26 T. 51N R. 24W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none): concave Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K Lat.:	46 52.3963 Long.: -93 21.3505 Datum: NAD 83
Soil Map Unit Name: 546	NWI classification: PSSB
Are climatic/hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain in Remarks.)
	y disturbed? Are "Normal Circumstances" present? Yes • No ·
	roblematic? (If needed, explain any answers in Remarks.)
	ampling point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	Walling Todalia.
Remarks: (Explain alternative procedures here or in a separate repo	1.)
Hydrology	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)	Surface Soil Cracks (B6)
✓ Surface Water (A1) Water-Stained Leav	
High Water Table (A2)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15	
Water Marks (B1) Hydrogen Sulfide (
	eres along Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (P1)
	ed Iron (C4) Stunted or Stressed Plants (D1) tion in Tilled Soils (C6) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Thin Muck Surface	
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in R	
Sparsely Vegetated Concave Surface (B8)	FAC-neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	8
Water Table Present? Yes No Depth (inches):	
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	Wetland Hydrology Present? Yes No O
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:
Remarks:	

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific fiames of pia	Sampling Point: w-51n24w26-a2			
(Dist. size. 20	Absolute	Dominant Species?	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 Deminent
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4				
5				Percent of dominant Species
6		$\overline{\Box}$		That Are OBL, FACW, or FAC: 100.0% (A/B)
7		$\overline{\Box}$		Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15		- Total Cove	•	0BL species 90 x 1 = 90
1 Salix petiolaris	50	✓	FACW	
2. Salix bebbiana	10	$\overline{\Box}$	FACW	FACW species60 x 2 =120
3	-	$\overline{\Box}$		FAC speci es
4		\Box		FACU species $0 \times 4 = 0$
5		\Box		UPL species $0 \times 5 = 0$
		\Box	-	Column Totals: 150 (A) 210 (B)
6				
7				Prevalence Index = B/A = 1.400
Herb Stratum (Plot size: 5	60=	= Total Cove	r	Hydrophytic Vegetation Indicators:
	00		OBL	Rapid Test for Hydrophytic Vegetation
1. Carex lacustris		~	OBL	✓ Dominance Test is > 50%
2				✓ Prevalence Index is ≤3.0 ¹
3				Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				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.				
Z.,	_	Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30	70	- Total 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	0			N/andraine Allegandraine and the first Confidence
4	0	$\overline{\Box}$		Woody vine - All woody vines greater than 3.28 ft in height.
4		- Total Cava		neight.
	=	= Total Cove	г	
				History
				Hydrophytic Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate sh	eet.)			
	-			

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

Soil Sampling Point: w-51n24w26-a2

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 (%	Color (moist)	%_	Type ¹	Loc ²	Texture	Rer	marks	
0-6	10YR	2/1	100						Muck			
6-20	10YR	3/1	90	10YR	4/4	10	C	_ M	Sandy Clay Loam			
									-			
		-	-	-	-				-	-		
		-			-							
					-							
		-	-	•	_	-	-					
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix												
Hydric Soil I									Indicators for Prob	lematic Hydr	ic Soils: 3	
Histosol (A					value Belov A 149B)	w Surface	(S8) (LRR I	₹,	2 cm Muck (A10			
Histic Epip					•	ace (S9) ((LRR R, MLI	RA 149R)	Coast Prairie Red	dox (A16) (LRR	K, L, R)	
Black Histi							1) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4)					Matrix (F2		,	☐ Dark Surface (S7) (LRR K, L, M)			
	Layers (A5)	Curfoos (A	11\		eted Matri		.)		Polyvalue Below	Surface (S8) (L	RR K, L)	
	Below Dark S k Surface (A1		11)		ox Dark Su				Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (S					Surface (F	7)		Iron-Manganese Masses (F12) (LRR K, L, R)			
	yed Matrix (S				x Depress					Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Rec		34)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
									Red Parent Material (F21)			
☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR R, MLRA 149B)						✓ Very Shallow Dark Surface (TF12)✓ Other (Explain in Remarks)						
										Remarks)		
³ Indicators of	hydrophytic	vegetatio	n and wetta	and hydrology	must be p	oresent, ur	niess disturi	bed or proble	ematic.			
Restrictive La	ayer (if obs	erved):										
Type:									Hydric Soil Present?	Yes ⊙	No O	
Depth (inch	nes):								nyuric Soil Present?	Yes 💌	NO U	
Remarks:												