WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City	/County: Aitkin	Sampling Date: 25-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: w-51n24w27-b1
Investigator(s): PJK	9	Section, Township, Range: \$	T. 51N R. 26W
Landform (hillslope, terrace, etc.): Lowla	and Loc a	I relief (concave, convex, no	one): concave Slope: 0.0 % / 0.
Subregion (LRR or MLRA): LRR K	Lat.: 46 5.	2.3884 Long	: -93 22.0180 Datum: NAD 83
Soil Map Unit Name: 1982			NWI classification: PSSB
Are climatic/hydrologic conditions on the	site tunical for this time of year?	Yes ○ No ●	(If no, explain in Remarks.)
	lydrology		Circumstances" present? Yes No
			present.
_ , _ ,	lydrology L naturally proble	,	xplain any answers in Remarks.)
		pling point locations	s, transects, important features, etc
Hydrophytic Vegetation Present? Yes		Is the Sampled Area	
Hydric Soil Present? Yes		within a Wetland?	Yes ● No ○
Wetland Hydrology Present? Yes	No		
Hydrology Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one req	uired; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (E	39)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3) Water Marks (B1)	Marl Deposits (B15)	·-·	Dry Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Oxidized Rhizospheres a Presence of Reduced Iro		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in	• •	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Solls (GG)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remar	ks)	Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave Surface (B8)	Other (Explain in Nemai	K3)	FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes No	Depth (inches):		
		0	
	Depth (inches):	0 Wetland Hydro	ology Present? Yes No
Saturation Present? (includes capillary fringe) Yes No	Depth (inches):	0 Wetland Hydro	logy Present? 165 O NO O
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, pr	evious inspections), if availa	ble:
Remarks:			

VEGETATION - Use scientific names of plants

VEGETATION - USE Scientific fiames of pia	Sampling Point: w-51n24w27-b1			
Tree Stratum (Plot size: 30)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
	% Cover		Status	Number of Dominant Species
1. Fraxinus nigra		✓	FACW	That are OBL, FACW, or FAC:4(A)
2				Total Number of Dominant
3	0			Species Across All Strata: 4 (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)			-	0BL speci es 95 x 1 = 95
1. Salix petiolaris	5	✓	FACW	FACW species
2	0			FAC species x 2 =
3	0			<u> </u>
4				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6			-	Column Totals: 110 (A) 125 (B)
7				Prevalence Index = B/A = 1.136
		= Total Cove		
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
1. Carex lacustris	70	✓	OBL	, , , , , , , , , , , , , , , , , ,
2 Calamagrostis canadensis		~	OBL	✓ Dominance Test is > 50%
			FACW	✓ Prevalence Index is ≤3.0 ¹
				Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				1 To disabout of brodein soil and cookland brodes are const
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2				Configurate Management loss than Cir. BBH and
	100 =	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30		_		groater triain orzer it (m) tami
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	r	
				Hydrophytic
				Vegetation Yes • No •
				Present:
				<u> </u>
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-51n24w27-b1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth (inches)				Redox Features							
(inches)	Color (Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-5	10YR	2/1	100						Clay Loam		
5-12	10YR	4/2	90	10YR	4/6	10	C		Silty Clay Loam		
12-20	10YR	4/3	95	10YR	4/6	5	С	М	Clay Loam		
					-						
		-									
					-						
¹ Type: C=Cond	entration. D	=Depletio	n. RM=Rec	luced Matrix,	CS=Cover	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=M	latrix	
Hydric Soil I	ndicators:								Indicators for Proble	ematic Hydric Soils: 3	
Histosol (A	A1)					w Surface	(S8) (LRR	R,		(LRR K, L, MLRA 149B)	
Histic Epip	edon (A2)				A 149B)						
Black Histi	ic (A3)						(LRR R, ML		Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	Sulfide (A4)					Mineral (F) Matrix (F2	1) LRR K, L)	Dark Surface (S7)		
	Layers (A5)				eted Matri		2)		Polyvalue Below S	urface (S8) (LRR K, L)	
	Below Dark S		.11)			ırface (F6)			Thin Dark Surface	(S9) (LRR K, L)	
	Surface (A1					Surface (F			Iron-Manganese Masses (F12) (LRR K, L, R)		
	ck Mineral (S yed Matrix (S				x Depress		,			in Soils (F19) (MLRA 149B)	
Sandy Rec		34)) (MLRA 144A, 145, 149B)	
Stripped M									Red Parent Materi		
	ace (S7) (LRF	R R, MLRA	\ 149B)						Very Shallow Dark		
³ Indicators of				and hudrology	mount be a	nrocent	alooo diotuu	had ar proble	Other (Explain in F	Remarks)	
			iii aliu wella	and mydrology	must be p	present, ui	iless distui	bed of proble	erratic.		
Restrictive La	ayer (if obs	erved):									
Type:									Hydric Soil Present?	Yes ● No ○	
Depth (inch	les):										
Remarks:											