WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Cour	ity: Aitkin	Sampling Da	ate: 22-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-51n25w33-c1
Investigator(s): DPT/SMR	Section	n, Township, Range: S.		R. 25W
Landform (hillslope, terrace, etc.): Lowland		ef (concave, convex, none		ope:0.0 % /0.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.710	00 Long.:	-93 31.6405	Datum: NAD 83
Soil Map Unit Name: 292			NWI classification: N/A	
Are climatic/hydrologic conditions on the sit	e typical for this time of year?	Yes ○ No ● (If	no, explain in Remarks.)	
Are Vegetation , Soil , or Hyd	. –	•	, ,	res ● No ○
Are Vegetation , Soil , , or Hyo			lain any answers in Remark	re l
Summary of Findings - Attach s	· · ·	. , .	•	•
Hydrophytic Vegetation Present? Yes	No O			
Hydric Soil Present? Yes		s the Sampled Area vithin a Wetland?	′es ● No ○	
Wetland Hydrology Present? Yes	No O			
Remarks: (Explain alternative procedures	nere or in a separate report.)			
Hydrology				
Wetland Hydrology Indicators:		Se	condary Indicators (minimum o	of 2 required)
Primary Indicators (minimum of one requir	ed; check all that apply)		Surface Soil Cracks (B6)	JI Z Teguii eu)
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)	L	Dry Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	L	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres along L		Saturation Visible on Aerial II	
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)	Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller		Stunted or Stressed Plants (I Geomorphic Position (D2)	01)
Iron Deposits (B5)	Thin Muck Surface (C7)	d Solis (C6) <u>▼</u>	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief (D4)	
☐ Sparsely Vegetated Concave Surface (B8)	United (Explain in Remarks)	✓	FAC-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes No	Depth (inches):0			
Water Table Present? Yes O No	Depth (inches):0			
Saturation Present? (includes capillary fringe) Yes No		Wetland Hydrolo	gy Present? Yes	No O
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previou	s inspections), if availabl	e:	
Remarks:				

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-51n25w33-c1			
(8) -1 - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	0			Species Across All Strata: 2 (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 60 x 1 = 60
1				FACW species 0 x 2 = 0
2	0			FAC species 20 x 3 = 60
3				
4				FACU species 20 x 4 = 80
5				UPL speci es $0 \times 5 = 0$
6				Column Totals: 100 (A) 200 (B)
7				Prevalence Index = B/A = 2.000
		= Total Cove		
Herb Stratum (Plot size: 5)		. 5.01 60461		Hydrophytic Vegetation Indicators:
1Scirpus cyperinus	60	✓	OBL	Rapid Test for Hydrophytic Vegetation
2. Phleum pratense			FACU	✓ Dominance Test is > 50%
		<u>~</u>	FAC	V Prevalence Index is ≤3.0 ¹
•			FACU	☐ Morphological Adaptations ¹ (Provide supporting
4. Poa pratensis			FACU	data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				17.45.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
9				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				Conling/obrub Woody plants loss than 2 in DRH and
	100 =	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)				grand man clast (m., cam)
1				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 Present? Yes No No
				Present? 103 0 110 0
Remarks: (Include photo numbers here or on a separate s	sheet.)			

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

Soil Sampling Point: w-51n25w33-c1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth (inches)	_		Redox Features								
				Color (moist)	%_	Type 1	Loc²	Texture	Remarks	
0-3	10YR	2/1	100						Loam		
3-16	10YR	4/2	90	10YR	4/6	_ 10	C		Silt Loam		
16-20	10YR	4/2	90	10YR	4/6	10	C	M	Sandy 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	atrix	
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)	(5.5)				x (A16) (LRR K, L, R)	
Black Histi	ic (A3)						(LRR R, ML		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	Sulfide (A4)					Minerai (F Matrix (F2	1) LRR K, L)	Dark Surface (S7) (LRR K, L, M)		
	Layers (A5)				ny Gleyed eted Matri		(1)		Polyvalue Below Surface (S8) (LRR K, L)		
	Below Dark S		.11)			rface (F6)			☐ Thin Dark Surface (S9) (LRR K, L)		
	Surface (A1					Surface (F			Iron-Manganese Masses (F12) (LRR K, L, R)		
	ck Mineral (S				x Depress		,		Piedmont Floodplain Soils (F19) (MLRA 149B)		
Sandy Gle	yed Matrix (\$	54)			•				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Stripped N									Red Parent Material (F21)		
	ace (S7) (LRF	R R. MLRA	A 149B)								
									Other (Explain in R	demarks)	
³ Indicators of			n and wetta	ana nyarology	must be p	oresent, ui	niess aistur	bea or proble	ematic.		
Restrictive La	ayer (if obs	erved):									
Type:									Hydric Soil Present?	Yes ● No ○	
Depth (inch	nes):								,	163 © 110 ©	
Remarks:											
											ļ