WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 29-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n24w31-a5
Investigator(s): SMR		Section, Township, Range:	S. 36 T. 51N R. 25W
Landform (hillslope, terrace, etc.): MC	ound	Local relief (concave, convex, r	
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.5058 Long	J.: -93 27.4024
Soil Map Unit Name: 292			NWI classification: N/A
Are climatic/hydrologic conditions on the	he 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.)
.		,	s, transects, important features, etc
Hydrophytic Vegetation Present?	Yes No 💿		· · · · · · · · · · · · · · · · · · ·
	Yes O No 💿	Is the Sampled Area within a Wetland?	Yes ○ No ●
-	Yes ○ No •	Within a Wenand:	103 - 110 -
Remarks: (Explain alternative proced		+)	
Hydrology			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one r	required; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leav	ves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13	3)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)		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) Algal Mat or Crust (B4)	Presence of Reduce	ed Iron (C4) tion in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface	` ,	Shallow Aguitard (D3)
Inundation Visible on Aerial Imagery (B		• ,	Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave Surface (E		emarks)	FAC-neutral Test (D5)
Field Observations:			
	No Depth (inches):	0	
Water Table Present? Yes	No Depth (inches):	0	
	No Depth (inches):	Wetland Hydi	rology Present? Yes O No 💿
Describe Recorded Data (stream gauge	e, monitoring well, aerial photo	os, previous inspections), if avai	able:
Remarks:			

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: u-51n24w31-a5			
(8) -1 - 20	Absolute	Dominant English	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				Species Across All Strata:1(B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
6	0			That Are OBE, TAGW, OF TAG.
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		Total Cove		
1	0			
2				FACW species 10 x 2 = 20
3				FAC species $0 \times 3 = 0$
4				FACU species $90 \times 4 = 360$
5				UPL species $0 \times 5 = 0$
6.				Column Total s: 100 (A) 380 (B)
7				Prevalence Index = B/A =3.800_
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators:
		_		Rapid Test for Hydrophytic Vegetation
1 <i>Poa pratensis</i>	60	~	FACU	Dominance Test is > 50%
2. Tanacetum vulgare	10		FACU	Prevalence Index is ≤3.0 ¹
3. Phalaris arundinacea	10		FACW	Morphological Adaptations ¹ (Provide supporting
4. Taraxacum officinale	10		FACU	data in Remarks or on a separate sheet)
5. Trifolium pratense	10		FACU	☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
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				Conling/shruth Woody plants loss than 2 in DDLL and
(Diet size, 20	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)	0			Llark All barks assure (range upod h) plants regardless of
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2	0			Size, and weedy plante less than 6.25 it tail.
3				Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
		Total Cove	•	
				Hydrophytic
				Vegetation
				Present? Yes V No V
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: u-51n24w31-a5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix			Redox Features						
(inches)	Color (ı			Color (moist)	<u>%</u> Type ¹	Loc ²	Texture	Remarks	
0-3	10YR	2/2	100				Silt Loam		
3-14	10YR	4/3	100				Silt Loam		
14-20	10YR	4/4	100				Silt Loam		
			-						
-			-		-				
					-				
		-	-	-	-				
-					-				
1 Turner C. Come		Donletie	n DM Doo	Lucad Matrix CC Covers	d or Cooted Cond Co		tion. DL Doro Lining M. M.	atriu	
• •		=Depletio	n. RIVI=Rec	luced Matrix, CS=Covere	d or Coated Sand Gr	ains ²Loca	tion: PL=Pore Lining. M=M		
Hydric Soil I Histosol (A				Dobarding Del	V Surface (S8) (LRR	n	Indicators for Proble	ematic Hydric Soils: 3	
				MLRA 149B)	Surface (S8) (LRR	к,	2 cm Muck (A10) ((LRR K, L, MLRA 149B)	
Histic Epip Black Histi				Thin Dark Surfa	ce (S9) (LRR R, ML	RA 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)	
	Sulfide (A4)			Loamy Mucky N	lineral (F1) LRR K, L)		or Peat (S3) (LRR K, L, R)	
	Layers (A5)			Loamy Gleyed I	Matrix (F2)		☐ Dark Surface (S7)		
	Below Dark S	Surface (A	11)	Depleted Matrix	(F3)			urface (S8) (LRR K, L)	
	k Surface (A1		,	Redox Dark Sur	face (F6)		☐ Thin Dark Surface		
	ck Mineral (S			Depleted Dark	Surface (F7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R) ☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
	yed Matrix (S			Redox Depressi	ons (F8)) (MLRA 144A, 145, 149B)	
Sandy Red	dox (S5)						Red Parent Materia		
Stripped N	Matrix (S6)						Very Shallow Dark		
☐ Dark Surfa	ace (S7) (LRF	R R, MLRA	149B)				Other (Explain in F		
³ Indicators of	hvdrophytic	vegetatio	n and wetla	and hydrology must be p	resent, unless distur	bed or proble		•	
Restrictive La				, , , , , , , , , , , , , , , , , , , 	·				
Type:	ayer (ii obs	ci vea j.							
Depth (inch	nes).						Hydric Soil Present?	Yes O No 🗨	
Remarks:	103)								
Remarks:									