WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/Co	ounty: Aitkin	Samplin	g Date: 30-Aug-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n24w27-e1
Investigator(s): DPT		Sec	tion, Township, Range:	s. 27 t. 51N	R. 24W
Landform (hillslope, terrace, e	tc.): Lowland	Local re	elief (concave, convex, n	one): concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K	Lat.: 46 52.4	221 Long	-93 21.4698	Datum: NAD 83
Soil Map Unit Name: 928C				NWI classification:	 N/A
Are climatic/hydrologic condi	tions on the site ty	oical for this time of year?	Yes ○ No ●	— - (If no, explain in Remarks	.)
Are Vegetation, Soil	, or Hydrold			Circumstances" present?	Yes No
Are Vegetation, Soil	, or Hydrold	· · · · · ·		explain any answers in Ren	aarke \
Summary of Findings			,		•
Hydrophytic Vegetation Preso	ent? Yes	No O		<u> </u>	
Hydric Soil Present?	Yes 💿	No O	Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present?	Yes	No O	Within a Houana.		
Remarks: (Explain alternati		or in a separate report.)			
Hydrology					
Wetland Hydrology Indicator	rs:			Secondary Indicators (minim	um of 2 required)
Primary Indicators (minimur	n of one required;	check all that apply)		Surface Soil Cracks (B6)	
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)		Dry Season Water Table	(C2)
		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	ial Imagany (CO)
Drift deposits (B3)		Oxidized Rhizospheres along Presence of Reduced Iron (Saturation Visible on Aer Stunted or Stressed Plan	
Algal Mat or Crust (B4)		Recent Iron Reduction in Til	•	Geomorphic Position (D2	, ,
Iron Deposits (B5)		Thin Muck Surface (C7)	lieu Jolis (GG)	Shallow Aquitard (D3)	,
Inundation Visible on Aerial	Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief	(D4)
Sparsely Vegetated Concave	Surface (B8)			FAC-neutral Test (D5)	
Field Observations:					
	Yes ● No ○	Depth (inches): 6)		
Water Table Present?	Yes No	Depth (inches):0			
Saturation Present? (includes capillary fringe)	Yes • No O	Depth (inches): 0		ology Present? Yes	No O
Describe Recorded Data (stre	eam gauge, monito	oring well, aerial photos, previo	ous inspections), if avail	able:	
Remarks:					

VEGETATION - Use scientific names of plants

(5)	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:3(A)
2				
3				Total Number of Dominant Species Across All Strata: 3 (B)
4				Species Across Air Strata
			-	Percent of dominant Species
5				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	= Total Cove	r	Total % Cover of: Multiply by:
	0			0BL speci es60
1				FACW species <u>40</u> x 2 = <u>80</u>
2				FAC speciles x 3 =0
3	0			FACU species 0 x 4 = 0
4	0			l ·
5	0			
6	0			Column Totals: 100 (A) 140 (B)
7				Prevalence Index = B/A =1.400_
		= Total Cove		
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators:
1 Phalaris arundinacea	40	✓	FACW	✓ Rapid Test for Hydrophytic Vegetation
C. Colomographic compdensis	40	✓	OBL	✓ Dominance Test is > 50%
		✓	OBL	✓ Prevalence Index is ≤3.0 ¹
·			UBL	$oxedsymbol{oxed}$ Morphological Adaptations 1 (Provide supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
9				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12				
12.,		 = Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	100 -	- Total Covel		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.
-	0			
3	0			Woody vine - All woody vines greater than 3.28 ft in
4				height.
	=	= Total Cove	r	
				Hydrophytic
				Vegetation Present? Yes No
Remarks: (Include photo numbers here or on a separate she	eet.)			

Sampling Point: w-51n24w27-e1

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

Soil Sampling Point: w-51n24w27-e1

Depth	Matrix			dox Features		-	
(inches)	Color (moist)	<u> </u>	olor (moist)		Loc ²	Texture	Remarks
			-	-			
		-	-				
1							
Type: C=Con	centration. D=Depletion.	RM=Reduced Ma	atrix, CS=Covere	ed or Coated Sand Gra	iins ² Loca	ntion: PL=Pore Lining. M=Ma	atrix
Hydric Soil	Indicators:					Indicators for Proble	matic Hydric Soils: 3
Histosol ((A1)			v Surface (S8) (LRR R	,		LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		MLRA 149B)				(A16) (LRR K, L, R)
Black Hist	tic (A3)			ace (S9) (LRR R, MLR	A 149B)		
Hydroger	Sulfide (A4)		Loamy Mucky N	Mineral (F1) LRR K, L)			r Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed	Matrix (F2)		Dark Surface (S7)	
	Below Dark Surface (A11	, \Box	Depleted Matrix	∢ (F3)			ırface (S8) (LRR K, L)
	k Surface (A12)	´	Redox Dark Sui	rface (F6)		Thin Dark Surface	
			Depleted Dark			Iron-Manganese M	asses (F12) (LRR K, L, R)
	uck Mineral (S1)		Redox Depress			Piedmont Floodplai	n Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depress	10113 (1 0)		Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re	dox (S5)					Red Parent Materia	I (F21)
Stripped	Matrix (S6)					Very Shallow Dark	Surface (TF12)
☐ Dark Surf	ace (S7) (LRR R, MLRA 1	49B)				✓ Other (Explain in R	
3 Indicators o	f hydrophytic vegetation	and wotland hydr	ology must be n	rocont unloce dicturb	od or proble	· •	ornario)
		and wettand nyui	ology must be p	ilesetti, utiless disturbi	ed of proble	ematic.	
Restrictive L	ayer (if observed):						
Type:							
Depth (inc	hes):					Hydric Soil Present?	Yes ● No ○
Remarks:						1	
		. Calla assum	ممط واساما		مامسامينما امم		
ivo algging,	potential buried utiliti	es. Soils assum	ied nydric bas	ed on vegetation ar	na nyarolo	ogy.	