WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 21-Aug-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-51n26w32-a2
Investigator(s): DPT/SMR		Section, Township, Range:	S. 32 T. 51N R. 26W
Landform (hillslope, terrace, etc.): Mou	ind I	Local relief (concave, convex, r	
Subregion (LRR or MLRA): LRR K	Lat.: 4	6 51.8948 Long	-93 40.1199 Datum: NAD 83
Soil Map Unit Name: 928C			NWI classification: N/A
Are climatic/hydrologic conditions on the	site typical for this time of ye	ar? Yes O No 💿	(If no, explain in Remarks.)
			Circumstances" present? Yes No
	Hydrology naturally pr		explain any answers in Remarks.)
_ , _ ,		,	s, transects, important features, etc
	s ○ No ●		,
Hydric Soil Present? Ye	s O No •	Is the Sampled Area within a Wetland?	Yes ○ No ●
	s ○ No ●	within a wedana.	100
Remarks: (Explain alternative procedu		F.)	
Hydrology			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one re	quired; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leav	es (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)
Water Marks (B1)	Hydrogen Sulfide O		Crayfish Burrows (C8)
Sediment Deposits (B2)		res along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3) Algal Mat or Crust (B4)	Presence of Reduce	d Iron (C4) ion in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface	• •	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		• •	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8		and Kaj	FAC-neutral Test (D5)
Field Observations:			
	No Depth (inches):	0	
Water Table Present? Yes O	No Depth (inches):	0	
	Depth (inches):	Wetland Hydi	ology Present? Yes O No 🖲
Describe Recorded Data (stream gauge,	monitoring well, aerial photos	s, previous inspections), if avai	able:
Remarks:			

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	Sampling Point: u-51n26w32-a2			
(0) - 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:1(A)
2				Total Number of Dominant
3	0			Species Across All Strata:3 (B)
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		- 1000 0010	-	0BL speci es x 1 =
1 . Rubus idaeus	10	✓	FACU	FACW species 30 x 2 = 60
2	0			
3			-	FAC speciles $0 \times 3 = 0$
4				FACU species
5				UPL speci es $0 \times 5 = 0$
6.				Column Totals: 100 (A) 340 (B)
			-	Dravalance Index D/A 2.400
7		- Total Carra		Prevalence Index = B/A = 3.400
Herb Stratum (Plot size: 5)	10=	= Total Cove		Hydrophytic Vegetation Indicators:
4 8 4 1 1 11	60	✓	FACU	Rapid Test for Hydrophytic Vegetation
0.01.1		∨		☐ Dominance Test is > 50%
			FACW	☐ Prevalence Index is \leq 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			1
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
l1				at breast height (DBH), regardless of height.
12		\Box		
	_	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)			-	greater than 3.26 it (1111) 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			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
Tie	0 =	= Total Cove		
		- 1000 0010	-	
				Hydrophytic
				Vegetation
				Present? Yes ○ No ●
Remarks: (Include photo numbers here or on a separate s	heet.)			

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

Soil Sampling Point: u-51n26w32-a2

	ription: (Des	scribe to	the depth	needed to document	the indicate	or or con	firm the a	absence of indicators.)	
Depth (inches)		Matrix			lox Feature			·	
	Color (Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-5	10YR	3/3	100					Sandy Loam	
5-16	10YR	4/3	100					Sandy Loam	
16-24	10YR	4/2	100					Sandy Loam	
			-			-			
				-				*	
				-					
		-							
¹ Type: C=Cor	centration. D	=Depletio	n. RM=Red	uced Matrix, CS=Covere	ed or Coated S	Sand Grair	ns ² Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil								Indicators for Proble	ematic Hydric Soils: 3
Histosol ((A1)			Polyvalue Belov	v Surface (S8)) (LRR R,			(LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)			MLRA 149B)	(CO) (LDE	. D. MI DA	1.40D)		x (A16) (LRR K, L, R)
Black His				Thin Dark Surfa			1496)		or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)			Loamy Mucky I		RR K, L)		Dark Surface (S7)	
	Layers (A5)			Loamy Gleyed Depleted Matri				Polyvalue Below Si	urface (S8) (LRR K, L)
	Below Dark S		.11)	Redox Dark Su				Thin Dark Surface	(S9) (LRR K, L)
	rk Surface (A1			Depleted Dark				☐ Iron-Manganese M	lasses (F12) (LRR K, L, R)
	uck Mineral (S			Redox Depress				Piedmont Floodpla	in Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depress	10113 (1 0)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
☐ Sandy Re								Red Parent Materia	al (F21)
	Matrix (S6)							Very Shallow Dark	Surface (TF12)
	face (S7) (LRF							Other (Explain in R	Remarks)
³ Indicators o	f hydrophytic	vegetatio	n and wetla	nd hydrology must be p	resent, unles	s disturbe	d or proble	ematic.	
Restrictive L	ayer (if obs	erved):							
Type:									
Depth (inc	ches):							Hydric Soil Present?	Yes O No 🗨
Remarks:									
romano.									