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-51n25w35-e4
Investigator(s): DPT		Section, Township, Range:	S. 35 T. 51N R. 25W
Landform (hillslope, terrace, etc.): Mo	ound	Local relief (concave, convex, r	
Subregion (LRR or MLRA): LRR K	Lat.:	46 51.6004 Long	J.: -93 28.8533 Datum: NAD 83
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 O No •		
Hydric Soil Present?	Yes ○ No •	Is the Sampled Area within a Wetland?	Yes ○ No •
Wetland Hydrology Present?	Yes O No 💿	Within a Wodana.	
Remarks: (Explain alternative proced	lures here or in a separate repor	t.)	
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		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 Aquitard (D3)
Inundation Visible on Aerial Imagery (E		• •	Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave Surface (E		emarks)	FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	No Depth (inches):	0	
Water Table Present? Yes	No Depth (inches):	0	
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):		ology Present? Yes O No 💿
Describe Recorded Data (stream gaug	e, monitoring well, aerial photo	s, previous inspections), if avai	able:
Remarks:			

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of p	Sampling Point: u-51n25w35-e4			
(Dlat size) 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover		Status	Number of Dominant Species
1 Betula papyrifera		✓	FACU	That are OBL, FACW, or FAC:1 (A)
2. Ables balsamea	-	✓	FAC	Total Number of Dominant
3				Species Across All Strata:4(B)
4				
5	0			Percent of dominant Species That Are OBL, FACW, or FAC:25.0% (A/B)
6	0			That Are OBE, TACW, OF TAC.
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	15=	= Total Cove	r	Total % Cover of: Multiply by: OBL speci es 0 x 1 = 0
1. Populus tremuloides	80	✓	FACU	
2		Ä		FACW species 0 x 2 = 0
3		Ī		FAC speciles 10 x 3 = 30
4				FACU speci es95 x 4 =380
5				UPL species $\phantom{00000000000000000000000000000000000$
6				Column Totals: <u>165</u> (A) <u>710</u> (B)
7				
1		- Total Covo		Prevalence Index = B/A = 4.303
Herb Stratum (Plot size: 5	80=	= Total Cove	•	Hydrophytic Vegetation Indicators:
1 Eurybia macrophylla	60	✓	UPL	Rapid Test for Hydrophytic Vegetation
0.01.11			FACU	☐ Dominance Test is > 50%
			TACO	Prevalence Index is ≤3.0 ¹
3				Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				1 Indicators of hydric soil and wetland hydrology must
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Definitions of Vegetation Strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2	0			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30	=	= Total Cove	r	greater than 3.28 ft (1m) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2				size, and woody plants less than 3.28 ft tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
т.	0 =	= Total Cove		
			-	
				Hydrophytic Vegetation Present? Yes No No
Remarks: (Include photo numbers here or on a separate	sheet.)			<u> </u>
	,			

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

Soil Sampling Point: u-51n25w35-e4

Profile Descr	iption: (Des	scribe to	the depth	needed to documen	nt the indic	cator or co	onfirm the	absence of indicators.)			
Depth		Matrix			edox Featu			_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks		
0-5	10YR	2/1	100					Loam			
5-17	10YR	4/3	100					Silt Loam			
17-20	10YR	4/2	95	10YR 4/6			M	Silty Clay Loam			
	-	-				-	-				
		-									
		-									
¹ Type: C=Con	centration. D	=Depletio	n. RM=Red	luced Matrix, CS=Cove	red or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=Ma	atrix		
Hydric Soil	Indicators:							Indicators for Proble	matic Hydric Soils: 3		
Histosol (A1)			Polyvalue Bel	ow Surface	(S8) (LRR I	₹,		LRR K, L, MLRA 149B)		
Histic Epi	pedon (A2)			MLRA 149B)					(A16) (LRR K, L, R)		
Black His	tic (A3)			☐ Thin Dark Sur					r Peat (S3) (LRR K, L, R)		
	Sulfide (A4)			Loamy Mucky)	Dark Surface (S7) (LRR K, L, M)			
	Layers (A5)			Loamy Gleyed)			ırface (S8) (LRR K, L)		
	Below Dark S		.11)	Depleted Mat				Thin Dark Surface			
	k Surface (A1			Redox Dark S	, ,	7)			asses (F12) (LRR K, L, R)		
	ıck Mineral (S			Depleted Dark		7)		Piedmont Floodplain Soils (F19) (MLRA 149B)			
	eyed Matrix (S4)		☐ Redox Depres	SSIULIS (FO)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Re								Red Parent Material (F21)			
	Matrix (S6)							Very Shallow Dark Surface (TF12)			
☐ Dark Surf	ace (S7) (LRF	R R, MLRA	A 149B)					Other (Explain in R	emarks)		
³ Indicators o	f hydrophytic	vegetatio	n and wetla	and hydrology must be	present, un	ıless disturl	oed or probl	lematic.			
Restrictive L	ayer (if obs	erved):									
Type:											
Depth (inc	hes):							Hydric Soil Present?	Yes O No 💿		
Remarks:											
Remarks.											