WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 01-Sep-17
Applicant/Owner: Enbridge		State: M	N Sampling Point: w-51n23w30-g1
Investigator(s): SMR		Section, Township, Range:	s. 30 t. 51N R. 23W
Landform (hillslope, terrace, etc.): Lo	owland	Local relief (concave, convex,	
Subregion (LRR or MLRA): LRR K	Lat.:	46 52.3376 Lon	g.: -93 17.7370
Soil Map Unit Name: 292			NWI classification: N/A
Are climatic/hydrologic conditions on t	the site typical for this time of y	ear? Yes No	(If no, explain in Remarks.)
			I Circumstances" present? Yes ● No ○
			explain any answers in Remarks.)
.	, , , .	,	ns, transects, important features, etc
Hydrophytic Vegetation Present?	Yes No		
Hydric Soil Present?	Yes No	Is the Sampled Area within a Wetland?	Yes ● No ○
Wetland Hydrology Present?	Yes No		
Hydrology			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one	required; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Lea	ves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B1:		Moss Trim Lines (B16)
Saturation (A3)	☐ Marl Deposits (B15		Dry Season Water Table (C2)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide (Crayfish Burrows (C8)
Drift deposits (B3)	Oxidized Rhizospho	eres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)		ction (C4)	✓ Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface	• •	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (` '	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (•	FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	No Depth (inches):	0	
Water Table Present? Yes	No Depth (inches):	5	rology Present? Yes No
Saturation Present? (includes capillary fringe) Yes	No O Depth (inches):	Wetland Hyd	rology Present? Yes No
Describe Recorded Data (stream gauç	ge, monitoring well, aerial photo	os, previous inspections), if ava	ilable:
Remarks:			
Normania.			

VEGETATION - Use scientific names of plants

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Tree Stratum (Plot size: 30)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
TICO OCIACATI	% Cover		Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				Prevalence Index worksheet:
7		= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15		- Total Covel		OBL species 80 x 1 = 80
1	0			FACW species 10 x 2 = 20
2				FAC species $10 \times 3 = 30$
3	0			· — —
4	0			1 .
5	0			
6	0			Column Totals: 100 (A) 130 (B)
7				Prevalence Index = B/A = <u>1.300</u>
Herb Stratum (Plot size: 5)	=	= Total Cover	•	Hydrophytic Vegetation Indicators:
	00		ODI	✓ Rapid Test for Hydrophytic Vegetation
1. Scirpus cyperinus		✓	OBL	✓ Dominance Test is > 50%
Eutrochlum purpureum Spiraea alba			FACW	✓ Prevalence Index is ≤3.0 ¹
<u>. </u>			FACW	☐ 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				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9 10				Too. Woods place 2 in (7.0 am) as many in diameter
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12				
		= Total Cover		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 6.25 ft (111) tall
1	0			Herb - All herbaceous (non-woody) plants, regardless of
2				size, and woody plants less than 3.28 ft fall.
3				Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	=	= Total Cover	•	
				Hydrophytic
				Vegetation V
				Present? Yes No O
Remarks: (Include photo numbers here or on a separate she	eet.)			

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

Soil Sampling Point: w-51n23w30-g1

Depth	.paon. (De	Matrix	ane depth	ccaea to		dox Featu		tile	absence of indicators.)	
(inches)	Color	(moist)	%	Color	(moist)	%	Type 1	Loc2	Texture	Remarks
0-13	10YR	4/3	100						Peat	
13-20	10YR	5/2	80	10YR	5/4	20	С	M	Silt Loam	
		-							-	
	-	-		p-			-		-	
	-	-								
				-						
-	-	-		p-			-			
¹ Type: C=Con	centration. [D=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coate	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=Ma	atrix
Hydric Soil	Indicators:								Indicators for Proble	ematic Hydric Soils: 3
Histosol ((A1)			Poly	value Belo	w Surface (S8) (LRR R	Ρ,		(LRR K, L, MLRA 149B)
✓ Histic Epi	pedon (A2)				RA 149B)					x (A16) (LRR K, L, R)
☐ Black His	tic (A3)			_		ace (S9) (L				or Peat (S3) (LRR K, L, R)
Hydroger	Sulfide (A4))				Mineral (F1)			Dark Surface (S7)	
Stratified	Layers (A5)					Matrix (F2)				urface (S8) (LRR K, L)
_	Below Dark		11)		leted Matri				Thin Dark Surface	
	k Surface (A			_	ox Dark Su		7)			lasses (F12) (LRR K, L, R)
	uck Mineral (ox Depress	Surface (F7	/)			in Soils (F19) (MLRA 149B)
_	eyed Matrix	(S4)		□ Red	ox Depress	51011S (F8)			Mesic Spodic (TA6)) (MLRA 144A, 145, 149B)
Sandy Re									Red Parent Materia	al (F21)
	Matrix (S6)								Very Shallow Dark	Surface (TF12)
☐ Dark Surf	face (S7) (LR	RR R, MLRA	A 149B)						Other (Explain in R	Remarks)
³ Indicators o	f hydrophyti	c vegetatio	n and wetla	nd hydrolog	y must be j	oresent, un	less disturb	ed or probl	lematic.	
Restrictive L	ayer (if ob	served):								
Type:										
Depth (inc	:hes):								Hydric Soil Present?	Yes 💿 No 🔾
Remarks:										
Nomano.										