WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/	County: Aitkin	Sampl	ling Date: 22-Aug-17
Applicant/Owner: Enbridge			State: M	N Sampling Point:	u-51n25w33-b1
Investigator(s): DPT/SMR		S	Section, Township, Range:	s. 33 t. 51N	R. 25W
Landform (hillslope, terrace, etc.):	Mound		l relief (concave, convex,		Slope: 3.5 % / 2.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 46 51	1.7000 Lon	g.: -93 31.6208	Datum: NAD 83
Soil Map Unit Name: 292				NWI classification	: N/A
Are climatic/hydrologic conditions o	n the site ty	pical for this time of year?	Yes ○ No •	— (If no, explain in Remar	rks.)
Are Vegetation \square , Soil \square	, or Hydrolo			l Circumstances" present	· ,
Are Vegetation, Soil	, or Hydrold			explain any answers in R	
Summary of Findings - At			,		•
Hydrophytic Vegetation Present?	Yes O	No •		-	
Hydric Soil Present?	Yes	No O	Is the Sampled Area within a Wetland?	Yes ○ No •	
Wetland Hydrology Present?	Yes \bigcirc	No •	***************************************		
Remarks: (Explain alternative prod	edures here	or in a separate report.)			
Hydrology					
Wetland Hydrology Indicators:				_Secondary Indicators (min	imum of 2 required)
Primary Indicators (minimum of or	ne required;	check all that apply)		Surface Soil Cracks (B	
Surface Water (A1)		Water-Stained Leaves (B	39)	Drainage Patterns (B1	
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)		Dry Season Water Tak	
Water Marks (B1)		Hydrogen Sulfide Odor (Crayfish Burrows (C8)	
Sediment Deposits (B2) Drift deposits (B3)		Oxidized Rhizospheres al		Stunted or Stressed D	0 3
Algal Mat or Crust (B4)		Presence of Reduced Iro Recent Iron Reduction in	• •	Stunted or Stressed P Geomorphic Position (` ,
Iron Deposits (B5)		Thin Muck Surface (C7)	1 Tilled Solis (Co)	Shallow Aquitard (D3)	
☐ Inundation Visible on Aerial Imager	y (B7)	Other (Explain in Remark	kel	Microtopographic Relie	
Sparsely Vegetated Concave Surfac	e (B8)	отнег (Ехріант ін тестіан	NO ₂	FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present? Yes	No 💿	Depth (inches):	0		
Water Table Present? Yes	No 💿	Depth (inches):	0		0 0
Saturation Present? (includes capillary fringe) Yes	No 💿	Depth (inches):	Wetland Hyd	rology Present? Yes	○ No ●
Describe Recorded Data (stream ga	iuge, monito	ring well, aerial photos, pro	evious inspections), if ava	ilable:	
Remarks:					

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pic	Sampling Point: u-51n25w33-b1			
(0) 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:(A)
2	0			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: 0.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				0BL speci es x 1 = 0
1	0			FACW species x 2 =0
2	0			
3				FAC speciles $\underline{5}$ x 3 = $\underline{15}$
4				FACU species $95 \times 4 = 380$
5				UPL speci es $0 \times 5 = 0$
6.				Column Totals: 100 (A) 395 (B)
7				Provolence Index P/A 2.050
		= Total Cove		Prevalence Index = B/A = 3.950
Herb Stratum (Plot size: 5		- Total Cove	ı	Hydrophytic Vegetation Indicators:
	30	✓	FACU	Rapid Test for Hydrophytic Vegetation
		✓	FACU	Dominance Test is > 50%
				☐ Prevalence Index is \leq 3.0 ¹
3. Ranunculus repens		✓	FAC	Morphological Adaptations ¹ (Provide supporting
4. Trifolium pratense			FACU	data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2		$\overline{\Box}$		
	· ·	= 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 3.20 ft (fiff) 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.
	0 =	= Total Cove		
				Hydrophytic
				Vegetation Present? Yes No No
				Present? Yes ○ No ●
Remarks: (Include photo numbers here or on a separate sl	neet.)			

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

Soil Sampling Point: u-51n25w33-b1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)													
Depth		Matrix				dox Featu			_				
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc2	Texture		Rer	marks	
0-9	10YR	3/3	100						Sandy Loam				
9-20	10YR	5/1	90	10YR	4/6	10	С	M	Sandy Clay Loam				
			-										
									-				
	-												
			_										
			-		-								
			-			-	-						
¹ Type: C=Cond	entration. D	=Depletio	n. RM=Red	duced Matrix,	CS=Cover	ed or Coate	ed Sand Gr	rains ² Loca	ation: PL=Pore Lining.	M=Ma	atrix		
Hydric Soil I									_			is Saile : 3	
Histosol (A				Poly	value Belo	w Surface ((S8) (LRR	R.	Indicators for F				
Histic Epip	•				RA 149B)	_ 3000 1	() (EIGH	,	2 cm Muck (
Black Histi				Thir	Dark Surf	ace (S9) (I	LRR R, ML	RA 149B)	Coast Prairie				
	Sulfide (A4)			Loa	my Mucky	Mineral (F1) LRR K, L)	5 cm Mucky				
	_ayers (A5)			Loa	my Gleyed	Matrix (F2))		Dark Surface				
	Below Dark S	Surface (A	11)	✓ Dep	leted Matri	x (F3)			Polyvalue Be				
	Surface (A			Red	ox Dark Su	ırface (F6)			Thin Dark Su				
	ck Mineral (S			Dep	leted Dark	Surface (F	7)		☐ Iron-Mangan				
	yed Matrix (Red	ox Depress	sions (F8)						(MLRA 149B)	
Sandy Red									_			A, 145, 149B)	
Stripped M									Red Parent Material (F21)				
	Dark Surface (S7) (LRR R, MLRA 149B)					✓ Very Shallow Dark Surface (TF12)✓ Other (Explain in Remarks)							
³ Indicators of				and budgalage	, manuat ba	aracant un	loog digtur	had ar prabl		III III K	emarks)		
			n and well	and nydrolog	y must be p	present, un	iless distur	bed of probl	ematic.				
Restrictive La	yer (if obs	erved):											
Type:									Hydric Soil Prese	n+7	Yes	No O	
Depth (inch	nes):								nyuric Soil Prese	ntr	Yes 💌	NO U	
Remarks:													
I													
I													
I													