## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/Co	unty: Aitkin	Samplin	<b>19 Date:</b> 23-Aug-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	u-51n26w34-a1
Investigator(s): PJK		Sect	tion, Township, Range:	<b>s.</b> 34 <b>t.</b> 51N	<b>R.</b> 26W
Landform (hillslope, terrace,	etc.): Knob	Local re	elief (concave, convex, n	one): undulating	Slope: 7.0 % / 4.0 °
Subregion (LRR or MLRA):	LRR K	<b>Lat.:</b> 46 51.8	191 <b>Long</b>	-93 37.2079	Datum: NAD 83
Soil Map Unit Name: 204B				NWI classification:	PSSB
Are climatic/hydrologic cond	itions on the site tv	sical for this time of year?	Yes ○ No ●	— (If no, explain in Remark	
Are Vegetation , Soil				Circumstances" present?	yes ● No ○
				•	
Are Vegetation, Soil	_ , ,		,	explain any answers in Re	•
		map showing sampli	ng point location	is, transects, impo	rtant reatures, etc
Hydrophytic Vegetation Pres		No •	Is the Sampled Area		
Hydric Soil Present?	Yes O	No •	within a Wetland?	Yes O No 🗨	
Wetland Hydrology Present	y Yes O	No •			
WETS analysis shows preci					
Hydrology  Wetland Hydrology Indicator		about all that are by		Secondary Indicators (minin	
Primary Indicators (minimu	im of one required;			Surface Soil Cracks (B6)	
Surface Water (A1) High Water Table (A2)		Water-Stained Leaves (B9) Aquatic Fauna (B13)		☐ Drainage Patterns (B10) ☐ Moss Trim Lines (B16)	)
Saturation (A3)		Marl Deposits (B15)		Dry Season Water Table	- (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	3 (02)
Sediment Deposits (B2)		Oxidized Rhizospheres along		Saturation Visible on Ae	rial Imagery (C9)
Drift deposits (B3)		Presence of Reduced Iron (		Stunted or Stressed Pla	0 3
☐ Algal Mat or Crust (B4)		Recent Iron Reduction in Til	lled Soils (C6)	Geomorphic Position (D	2)
Iron Deposits (B5)		☐ Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aeria		Other (Explain in Remarks)		Microtopographic Relief	(D4)
Sparsely Vegetated Concav	e Surface (B8)			FAC-neutral Test (D5)	
Field Observations:					
Surface Water Present?	Yes O No •	Depth (inches): 0			
Water Table Present?	Yes ○ No ●	Depth (inches):0			
Saturation Present? (includes capillary fringe)	Yes O No •	Depth (inches): 0		rology Present? Yes	○ No
Describe Recorded Data (st	ream gauge, monito	ring well, aerial photos, previo	ous inspections), if avail	able:	
Remarks:					

## **VEGETATION - Use scientific names of plants**

vegeration - ose scientific fiames of pla	Sampling Point: u-51n26w34-a1			
(0) (1) (2)	Absolute		ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species? S	tatus	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant
3	0	Ш_		Species Across All Strata:
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
6				That are OBL, FACW, OF FAC:
7				Prevalence Index worksheet:
		Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				0BL speci es 0 x 1 = 0
1				FACW species 20 x 2 = 40
2				FAC speciles x 3 =
3	0			FACU species $\frac{75}{}$ x 4 = $\frac{300}{}$
4	0			l ·
5	0			1
6	0			Column Totals: 95 (A) 340 (B)
7	0			Prevalence Index = B/A = 3.579
		Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation
1 Pteridium aquilinum	70	<b>✓</b>	FACU	
2. Cirsium arvense	5		FACU	Dominance Test is > 50%
3. Bromus ciliatus	10		FACW	Prevalence Index is ≤3.0 ¹
4. Helianthus giganteus			FACW	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				Problematic Hydrophytic Vegetation (Explain)
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
9		_		
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				at bleast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 )	95 =	= Total Cover		greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1	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 height.
4				neight.
	=	= Total Cover		
				Historykatio
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate sh	eet.)			
• • • • • • • • • • • • • • • • • • • •	-			

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-51n26w34-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth			Redox Features									
(inches)	Color (		%	Color (	moist)	_ %_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remai	rks	
0-5	10YR	2/2	100						Loam			
5-20	10YR	4/3	95	10YR	4/6	5	C	M	Loamy Sand			
									-			
										•		
-												
				-	-							
1												
• •		=Depletio	n. RM=Red	luced Matrix,	CS=Cover	ed or Coat	ted Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=			
Hydric Soil I								_	Indicators for Prol	olematic Hydric S	Soils: 3	
Histosol (	•				value Belo A 149B)	w Surface	(S8) (LRR	К,	2 cm Muck (A10	) (LRR K, L, MLRA	149B)	
	pedon (A2)			☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)				RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)			
Black Hist				Loamy Mucky Mineral (F1) LRR K, L)					5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4) Layers (A5)			Loamy Gleyed Matrix (F2)				,	Dark Surface (S7) (LRR K, L, M)			
	Below Dark S	Surface (A	11)	Depleted Matrix (F3)					Polyvalue Below Surface (S8) (LRR K, L)			
	k Surface (A'		11)	Redox Dark Surface (F6)					☐ Thin Dark Surface (S9) (LRR K, L)			
	ck Mineral (S					Surface (F			☐ Iron-Manganese Masses (F12) (LRR K, L, R)			
	eyed Matrix (			Red	ox Depress	sions (F8)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Red		01)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Stripped N									Red Parent Material (F21)			
	ace (S7) (LRI	R R, MLRA	149B)						<ul><li>✓ Very Shallow Dark Surface (TF12)</li><li>✓ Other (Explain in Remarks)</li></ul>			
							. I P I			n Remarks)		
<sup>3</sup> Indicators of			n and weti	ana nyarology	must be	present, ui	niess distur	bed or proble	ematic.			
Restrictive La	ayer (if obs	erved):										
Type:									Hydric Soil Present?	Yes O	No 💿	
Depth (inch	hes):								Tryunc Son Fresent:	res U	<b>V</b> U	
Remarks:												