WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	Aitkin			Sampling Date: 01-Sep-17	
Applicant/Owner: Enbridge			State:	MN	Sampling P	oint:	w-51n23w29-b3
Investigator(s): DPT		Section, To	wnship, Ran	ge: S. 2	9 т. 5	1 N	R. 23W
Landform (hillslope, terrace, etc.): Lowland		Local relief (co	oncave, conve	ex, none)	: concave		Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K	Lat.:	46 52.4420	I	ong.:	93 17.1771		Datum: NAD 83
Soil Map Unit Name: 204C					NWI classific	ation:	N/A
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology Summary of Findings - Attach site map size	naturally	tly disturbed? problematic? sampling p	(If need	ed, expla	umstances" pr in any answer ransects,	s in Rem	-
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: (Explain alternative procedures here or in a set	anarato ren	within	Sampled Are a Wetland?	ea Ye	es 🔍 No 🔿		
	eparate rept	, <i>,</i>					

Hydrology

Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)					
Primary Indicators (minimum of one required;	Surface Soil Cracks (B6)						
Surface Water (A1)	Water-Stained Leaves (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 Odor (C1)	Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)					
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Geomorphic Position (D2)						
Iron Deposits (B5)	Shallow Aquitard (D3)						
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	FAC-neutral Test (D5)					
Field Observations:							
Surface Water Present? Yes No	Depth (inches): <u>6</u>						
Water Table Present? Yes No	Depth (inches): 0						
Saturation Present? Yes • No ·	Wetland Hy Depth (inches): 0	rdrology Present? Yes 🖲 No 🔾					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

VEGETATION - Use scientific names of plants

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Tree Stratum (Plot size: 30)	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
1. Fraxinus nigra	60	\checkmark	FACW	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)	
2. Acer rubrum	20	\checkmark	FAC		
3				Total Number of Dominant	
4				Species Across All Strata:	
				Percent of dominant Species	
5	0			That Are OBL, FACW, or FAC:100.0%(A/B)	
6 7.	0			Prevalence Index worksheet:	
1					
Sapling/Shrub Stratum (Plot size: 15)	80 =	Total Cover		Total % Cover of: Multiply by: OBL species 10 × 1 = 10	
1. Acer rubrum	10	\checkmark	FAC		
2	0			FACW species 110 x 2 = 220	
3	0			FAC species $30 \times 3 = 90$	
4	0			FACU species $0 \times 4 = 0$	
 5				UPL species x 5 =0	
6				Column Totals: 150 (A) 320 (B)	
-	0				
7		Tatal Cause		Prevalence Index = B/A =2.133	
Herb Stratum (Plot size: 5)	=	• Total Cover		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation	
1. Carex Intumescens	20	\checkmark	FACW	✓ Dominance Test is > 50%	
2. Onoclea sensibilis	20	\checkmark	FACW	V Prevalence Index is \leq 30 ¹	
3. Calamagrostis canadensis	10		OBL		
4. Impatiens capensis	10		FACW	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)	
6	0				
7	0			¹ Indicators of hydric soil and wetland hydrology must	
8	0			be present, unless disturbed or problematic.	
9	0			Definitions of Vegetation Strata:	
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter	
11				at breast height (DBH), regardless of height.	
12					
12	-	Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and	
Woody Vine Stratum (Plot size: 30)				greater than 3.28 ft (1m) 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 Cover			
				Hydrophytic	
				Vegetation Present? Yes O No O	
Romanica: (Includo aboto numboro boro or on a consusto ebo	at)				
Remarks: (Include photo numbers here or on a separate shee	et.)				

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

US Army Corps of Engineers

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)													
Depth <u>Matrix</u> (inches) Color (moist) %							Touturo						
0-4	10YR		 100	Color (moist)	%	Type ¹	Loc ²	Texture Muck	Remarks			
		2/1											
4-9	10YR	3/1	90	10YR	4/4	10	C		Silty Clay Loam				
9-20	10YR	4/2	90	10YR	4/6	10	C	M	Silt Loam				
		-											
-						-							
E		<u>.</u>											
¹ Type: C=Con	centration. D	=Depletic	on. RM=Rec	luced Matrix,	CS=Cover	ed or Coat	ted Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=Ma	trix			
Hydric Soil 1	Indicators:								Indicators for Proble	matic Hydric Soils : ³			
🗌 Histosol (A1)					w Surface	(S8) (LRR F	R ,	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
Histic Epi	pedon (A2)				A 149B)	(60)			Coast Prairie Redox (A16) (LRR K, L, R)				
Black Hist							(LRR R, MLF		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	Sulfide (A4)					Matrix (F2	1) LRR K, L)		Dark Surface (S7) (LRR K, L, M)			
_	Layers (A5)		44)		eted Matr		-)		Polyvalue Below Surface (S8) (LRR K, L)				
	Below Dark S k Surface (A		(11)			urface (F6)			Thin Dark Surface (S9) (LRR K, L)				
						Surface (F			Iron-Manganese Masses (F12) (LRR K, L, R)				
	uck Mineral (S eyed Matrix (S				x Depres				Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy Re		54)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	Matrix (S6)								Red Parent Material (F21)				
	Dark Surface (S7) (LRR R, MLRA 149B)				 Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 								
³ Indicators o	f bydronbytic	vegetatio	n and weth	and hydrology	must ha	nrosont u	nlass distur	and or probl		511(01K3)			
				and nyurology	indst be								
Restrictive L	ayer (if obs	ervea):											
Type: Depth (inc	hos								Hydric Soil Present?	Yes 🔍 No 🔾			
• •	iles).												
Remarks:													