WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin Sampling Date: 30-Aug-17	_
Applicant/Owner: Enbridge	State: MN Sampling Point: AI025a51W	
Investigator(s): DPT	Section, Township, Range: S. 31 T. 51N R. 26W	
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none): concave Slope: 0.0 % /	0.0
Subregion (LRR or MLRA): LRR K Lat.:	46 52.1916 Long.: -93 40.8318 Datum: NAD 83	
Soil Map Unit Name: 625	NWI classification: N/A	
Are climatic/hydrologic conditions on the site typical for this time of y	year? Yes No (If no, explain in Remarks.)	
	tly disturbed? Are "Normal Circumstances" present? Yes No No	
	problematic? (If needed, explain any answers in Remarks.)	
-, -,	sampling point locations, transects, important features, et	tc
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes ● No ○	Is the Sampled Area within a Wetland? Yes NO	
Wetland Hydrology Present? Yes ● No ○	Within a Wedding.	
Remarks: (Explain alternative procedures here or in a separate repo	nrt 1	
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		
High Water Table (A2) Aquatic Fauna (B1	Moss Trim Lines (B16)	
Saturation (A3) Marl Deposits (B15		
Water Marks (B1) Hydrogen Sulfide (
	neres along Living Roots (C3) Saturation Visible on Aerial Imagery (C9)	
☐ Drift deposits (B3) ☐ Presence of Reduction Recent Iron Recent Iron Reduction Recent Iron Recent Iron Recent Iron Reduction Recent Iron Reduction Recent Iron Reduction Recent Iron Recent Iron Reduction Recent Iron Recent Iron Reduction Recent Iron Reduction Recent Iron Reduction Recent Iron Recent Iron Recent Iron Reduction Recent Iron R		
☐ Iron Deposits (B5) ☐ Thin Muck Surface ☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in F		
Sparsely Vegetated Concave Surface (B8)	FAC-neutral Test (D5)	
Field Observations:		
Surface Water Present? Yes No Depth (inches):	0	
Water Table Present? Yes No Depth (inches):	15	
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	Wetland Hydrology Present? Yes ● No ○	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:	
Remarks:		

VEGETATION - Use scientific names of plants

vegeration - use scientific names of plan	Sampling Point: Al025a51W						
(Diet size, 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30)	% Cover	_ Species:	Status	Number of Dominant Species			
1				That are OBL, FACW, or FAC:3 (A)			
2				Total Number of Dominant			
3				Species Across All Strata:3(B)			
4				Dercent of deminent Charles			
5				Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)			
6							
7				Prevalence Index worksheet:			
_Sapling/Shrub Stratum (Plot size: 15)	=	= Total Cover	•	Total % Cover of: Multiply by:			
1 Salix petiolaris	50	✓	FACW	0BL speci es 100 x 1 = 100			
2. Alnus Incana	30	✓	FACW	FACW species <u>85</u> x 2 = <u>170</u>			
3				FAC speci es0 x 3 =0			
4	-			FACU species $0 \times 4 = 0$			
5				UPL speci es $0 \times 5 = 0$			
6				Column Totals: <u>185</u> (A) <u>270</u> (B)			
7				Prevalence Index = B/A = 1.459			
		= Total Cover					
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation			
1 Calamagrostis canadensis	100	✓	OBL	✓ Dominance Test is > 50%			
2. Solidago gigantea	5		FACW	✓ Prevalence Index is ≤3.0 ¹			
3	0			l			
4	0			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
5				Problematic Hydrophytic Vegetation ¹ (Explain)			
6	0						
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
8							
9	0			Definitions of Vegetation Strata:			
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter			
11				at breast height (DBH), regardless of height.			
12				Sapling/shrub - Woody plants less than 3 in. DBH and			
(Dist size, 20	105 =	= Total Cover	-	greater than 3.28 ft (1m) tall			
Woody Vine Stratum (Plot size: 30)	0			Literatura Allikaria arangan (arangan ak Najarata arangan laran at			
1	0			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
2				0.25, a.i.a. 1000, pia.i.e 1000 tilaii 0.20 it taiii			
3				Woody vine - All woody vines greater than 3.28 ft in			
4				height.			
	=	= Total Cover					
				Hydrophytic			
				Vegetation Present? Yes ● No ○			
				Present:			
Domarka (Include photo numbers have as an a consistent at	ot \						
Remarks: (Include photo numbers here or on a separate she	ec.)						

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

Soil Sampling Point: Al025a51W

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth			Redox Features					-			
(inches)	Color (ı		%	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks	<u> </u>
0-4	10YR	2/1	100						Loam		
4-15	10YR	3/1	90	10YR	3/6	10	C	M	Sandy Clay Loam		
15-20	10YR	4/2	90	10YR	4/6	10	С	М	Loamy Sand		
			-				-				
		-	-		-				-		
			-								
			-	-				-			
						-					
¹ Type: C=Cond	entration. D	=Depletio	n. RM=Rec	luced Matrix,	CS=Covere	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=M	atrix	
Hydric Soil I	ndicators:								Indicators for Proble	ematic Hydric Soi	ls: ³
Histosol (A	A1)			Poly	value Belov	w Surface	(S8) (LRR	₹,		(LRR K, L, MLRA 14	
Histic Epip	edon (A2)				A 149B)	(==)					
Black Histi	ic (A3)						(LRR R, MLI		☐ Coast Prairie Redox (A16) (LRR K, L, R) ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	Sulfide (A4)				ny Mucky I ny Gleyed		1) LRR K, L)	Dark Surface (S7)		
	Layers (A5)				ny Gieyed eted Matri:		.)		Polyvalue Below S	urface (S8) (LRR K,	L)
	Below Dark S		.11)		ox Dark Su				Thin Dark Surface	(S9) (LRR K, L)	
	Surface (A1						7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)		
Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8)					Piedmont Floodplain Soils (F19) (MLRA 149B)						
		04)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
☐ Sandy Redox (S5) ☐ Stripped Matrix (S6)					Red Parent Material (F21)						
Dark Surface (S7) (LRR R, MLRA 149B)						✓ Very Shallow Dark Surface (TF12)✓ Other (Explain in Remarks)					
³ Indicators of				and hydrology	must bo r	rocont ur	aloce dietur	had ar prable		Remarks)	
			ni and well	ina nyarology	must be p	nesent, ui	iless distai	bed of proble	ematic.		
Restrictive La	ayer (If obse	erved):									
Type: Depth (inch									Hydric Soil Present?	Yes No	\bigcirc
	les):								-		
Remarks:											