WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County:	Aitkin	Samplin	Sampling Date: 28-Aug-17	
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-51n24w31-a2	
Investigator(s): SMR		Section, T	ownship, Range: S. 31	T. 51N	R. 24W	
Landform (hillslope, terrace, etc.):	Lowland	Local relief (c	oncave, convex, none):	concave	Slope: 0.0 % / 0.0	
Subregion (LRR or MLRA): LRR K	Lat.:	46 52.0943	Long.: -9	3 25.2738	Datum: NAD 83	
Soil Map Unit Name: 124		-	<u></u> _	NWI classification:	N/A	
Are Vegetation , Soil . Are Vegetation , Soil . Summary of Findings - At Hydrophytic Vegetation Present?	, or Hydrology 🗌 naturally	itly disturbed? problematic? sampling p	(If needed, explain	nstances" present? n any answers in Re ansects, impo	-	
Hydric Soil Present? Wetland Hydrology Present?	Yes ● No ○ Yes ● No ○		e Sampled Area n a Wetland? Yes	• • No O		
Remarks: (Explain alternative pro WETS analysis shows precip is be		2	soils assumed hydric ba	sed on vegetation.		

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 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)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes O No 🖲	Depth (inches): 0			
Water Table Present? Yes O No 🖲	Depth (inches):0	rdrology Present? Yes 🖲 No 🖯		
Saturation Present? Yes O No O	Depth (inches):0	ydrology Present? Yes 🔍 No 🔾		
	ring well, aerial photos, previous inspections), if av	vailable:		
Remarks:				

VEGETATION - Use scientific names of plants

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	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	0			Species Across All Strata: (B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6				
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cover		Total % Cover of: Multiply by:
	0			OBL species <u>100</u> x 1 = <u>100</u>
1				FACW species $0 \times 2 = 0$
2				FAC species $0 \times 3 = 0$
3	_			FACU species x 4 =
4	-			UPL species x 5 =
5				Column Totals: <u>100</u> (A) <u>100</u> (B)
6				
7				Prevalence Index = $B/A = 1.000$
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
	00		0.01	Rapid Test for Hydrophytic Vegetation
1. Calamagrostis canadensis			OBL	✓ Dominance Test is > 50%
2. Typha x glauca			OBL	\checkmark Prevalence Index is \leq 3.0 1
3. Carex lacustris			OBL	Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				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				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	100 =	Total Cover		greater than 3.28 ft (1m) tall
	0			Llorb All borbassaus (non-woods) planta regardlass of
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2	0			
3	0			Woody vine - All woody vines greater than 3.28 ft in
4	-			height.
		Total Cover		
				Hadaa da dha
				Hydrophytic Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate she	et.)			

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

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Depth	Matrix	e deptil he		dox Featu			absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	<u>uox reatu</u> %	Type ¹	Loc ²	Texture	Remarks
		-	-	-	-	-		
	· ·							
Type: C=Con	centration. D=Depletion.	RM=Reduce	d Matrix, CS=Covere	ed or Coate	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=Ma	atrix
Hydric Soil I	ndicators:						Indicators for Proble	matic Hydric Soils : ³
Histosol (A1)		Polyvalue Belov	w Surface ((S8) (LRR R	2,		LRR K, L, MLRA 149B)
🗌 Histic Epi	edon (A2)		MLRA 149B)				_	
Black Hist			Thin Dark Surfa	ace (S9) (I	_rr r, mlr	A 149B)	_	(A16) (LRR K, L, R)
	Sulfide (A4)		Loamy Mucky I	Mineral (F1) LRR K, L)			r Peat (S3) (LRR K, L, R)
	Layers (A5)		Loamy Gleyed	Matrix (F2)			Dark Surface (S7)	
	Below Dark Surface (A11)		Depleted Matri	x (F3)				Irface (S8) (LRR K, L)
	k Surface (A12)		Redox Dark Su				Thin Dark Surface	(S9) (LRR K, L)
_			Depleted Dark		7)		Iron-Manganese M	asses (F12) (LRR K, L, R)
	ck Mineral (S1)		Redox Depress		,		Piedmont Floodplai	n Soils (F19) (MLRA 149B)
	yed Matrix (S4)						Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re							Red Parent Materia	I (F21)
	Aatrix (S6)						Very Shallow Dark	Surface (TF12)
Dark Surf	ace (S7) (LRR R, MLRA 14	19B)					✓ Other (Explain in R	emarks)
³ Indicators of	hydrophytic vegetation a	nd wetland	hydrology must be p	present, un	less disturb	ed or proble	ematic.	
	ayer (if observed):							
	ayer (if observed):							
Туре:							Hydric Soil Present?	Yes 💿 No 🔿
Depth (incl	nes):						nyane bon riesene:	
Remarks:								
lo digging po	tential buried utilities.	soils assu	med hydric based	l on veget	tation.			
55 51			,	5				