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 Point: u-51n23w30-a1
Investigator(s): DPT	Section, Township, Range: S	T. 51N R. 23W
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, no	
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.3506 Long.	: -93 18.5080 Datum: NAD 83
Soil Map Unit Name: 870C		NWI classification: N/A
Are climatic/hydrologic conditions on the site ty	pical for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrol		Circumstances" present? Yes ● No ○
Are Vegetation , Soil , or Hydrol		xplain any answers in Remarks.)
	e map showing sampling point locations	• •
Hydrophytic Vegetation Present? Yes	No •	
Hydric Soil Present? Yes	No Is the Sampled Area within a Wetland?	Yes ○ No •
Wetland Hydrology Present? Yes	No •	
Remarks: (Explain alternative procedures her	e or in a separate report.)	
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required)		Secondary Indicators (minimum of 2 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) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9) 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 No •	Depth (inches):0	
Water Table Present? Yes No •	Depth (inches):0	
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0 Wetland Hydro	ology Present? Yes O No 🗨
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspections), if availa	able:
Remarks:		
Remarks.		

VEGETATION - Use scientific names of plants

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(2)	Absolute		dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species? Si	atus	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:1 (B)
4	0			
5	0			Percent of dominant Species That Are OBL_FACW_or_FAC: 0.0% (A/B)
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
Carlling (Charle Charles) (Plot size: 15	0 =	Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				0BL speci es0 x 1 =0
1				FACW species
2				FAC species x 3 =0
3		<u> </u>		FACU species 90 x 4 = 360
4				UPL species $\frac{20}{100} \times 5 = \frac{100}{100}$
5		<u> </u>		'
6				Column Totals: <u>110</u> (A) <u>460</u> (B)
7				Prevalence Index = B/A = 4.182
Herb Stratum (Plot size: 5)		= Total Cover		Hydrophytic Vegetation Indicators:
			• • • •	Rapid Test for Hydrophytic Vegetation
1 Pteridium aquilinum			ACU	☐ Dominance Test is > 50%
2. Rubus Idaeus			ACU	Prevalence Index is ≤3.0 ¹
3. Fragaria vesca			IPL	Morphological Adaptations ¹ (Provide supporting
4		H -		data in Remarks or on a separate sheet)
5		H -		Problematic Hydrophytic Vegetation ¹ (Explain)
6				
7		님 -		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9		<u> </u>		Definitions of Vegetation Strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
l1				at breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30	110=	= Total Cover		greater than 3.28 ft (1m) tall
	0			Horb. All borboscous (non-woods) plants, regardless of
1		<u> </u>		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				
3	0	H -		Woody vine - All woody vines greater than 3.28 ft in
4				height.
	=	= Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes V NO V
Remarks: (Include photo numbers here or on a separate she	eet.)			

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

Soil Sampling Point: u-51n23w30-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth							_			
(inches)	Color ((moist)	%	Color (m	ioist)	%	Type ¹	Loc2	<u>Texture</u> Remarks	
0-4	10YR	2/1	100						Loam	
4-20	10YR	4/3	95	10YR	4/4	5	С	M	Silt Loam	
R-										
									-	
			-							
	-									
				-						
			-							
				. ——-		- ——				
						- ——				
¹ Type: C=Cond	centration. D)=Depletio	n. RM=Red	duced Matrix, C:	S=Cover	ed or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=Matrix	
Hydric Soil I									<u> </u>	
Histosol (Polyva	ilue Belo	w Surface ((S8) (LRR I	₹.	Indicators for Problematic Hydric Soils	
	pedon (A2)			MLRA			(00) (2	•1	2 cm Muck (A10) (LRR K, L, MLRA 149B	
Black Hist				Thin D	ark Surf	ace (S9) (L	LRR R, MLF	RA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)	
	Sulfide (A4)	ı		Loamy	Mucky I	Mineral (F1)) LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L	, R)
_ ` `	Layers (A5)			Loamy	Gleyed	Matrix (F2))		Dark Surface (S7) (LRR K, L, M)	
	Below Dark S	Surface (A	11)	Deplet	ed Matri	x (F3)			Polyvalue Below Surface (S8) (LRR K, L)	1
	k Surface (A		,	Redox	Dark Su	ırface (F6)			Thin Dark Surface (S9) (LRR K, L)	D)
	ick Mineral (S			Deplet	ed Dark	Surface (F7	7)		☐ Iron-Manganese Masses (F12) (LRR K, L	
	eyed Matrix (Redox	Depress	sions (F8)			Piedmont Floodplain Soils (F19) (MLRA 1	
Sandy Red		,							✓ Mesic Spodic (TA6) (MLRA 144A, 145, 1✓ Red Parent Material (F21)	498)
	Matrix (S6)								☐ Very Shallow Dark Surface (TF12)	
	ace (S7) (LR	R R, MLRA	149B)						Other (Explain in Remarks)	
31500000000000	f budranbutia	vozatatia	n and wat	and hudralague	aust ba s	nrocent un	Joog dietur	and or probl		
			n and well	and hydrology n	nust be p	Jieseni, un	iess disturi	bed of proble	lematic.	
Restrictive La	ayer (if obs	erved):								
Type:									Hydric Soil Present? Yes No	5
Depth (incl	hes):								Hydric Soil Present? Yes \(\text{No G}	<i>y</i>
Remarks:										