WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Aitkin	Sampling Date: 07-Sep-17								
Applicant/Owner: Enbridge	State: MN	Sampling Point: u-51n22w20-a3								
Investigator(s): SMR	Section, Township, Range: S.	20 T. 51N R. 22W								
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, non									
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.450 Long.:	-93 8.3320 Datum: NAD 83								
Soil Map Unit Name: 204B		NWI classification: N/A								
Are climatic/hydrologic conditions on the site typi	cal for this time of year? Yes No (I	f no, explain in Remarks.)								
Are Vegetation , Soil , or Hydrolog		rcumstances" present? Yes No								
Are Vegetation, Soil, or Hydrolog		•								
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc										
Hydrophytic Vegetation Present? Yes O		· ·								
Hydric Soil Present? Yes O	No ● Is the Sampled Area within a Wetland?	Yes ○ No •								
	No •	100 - 1.10 - 1								
Remarks: (Explain alternative procedures here of										
Hydrology Wetland Hydrology Indicators:		econdary Indicators (minimum of 2 required)								
Primary Indicators (minimum of one required; ch	neck 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) Water Marks (B1)	Marl Deposits (B15)	Dry Season Water Table (C2)								
Sediment Deposits (B2)	☐ Hydrogen Sulfide Odor (C1) ☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Crayfish Burrows (C8) ☐ 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 No •	Depth (inches):									
Water Table Present? Yes No •	Depth (inches):0	· · · · ·								
Saturation Present? Yes No •	Depth (inches): 0	ogy Present? Yes O No 🗨								
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections), if availab	le:								
Domarka										
Remarks:										

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: u-51n22w20-a3			
(0) -1 -20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4	0			
5				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:
		= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				OBL species 0 x 1 = 0
1	0			FACW species 0 x 2 = 0
2	0			FAC speciles
3	0			1
4				·
5	0			UPL speci es $\frac{0}{x}$ $5 = \frac{0}{x}$
6.				Column Total s: 100 (A) 400 (B)
7				Prevalence Index = B/A = 4.000
		= Total Cove		
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators:
1. Poa pratensis	30	✓	FACU	Rapid Test for Hydrophytic Vegetation
2. Phleum pratense		<u> </u>	FACU	Dominance Test is > 50%
		<u> </u>	FACU	Prevalence Index is ≤3.0 ¹
			FACU	Morphological Adaptations ¹ (Provide supporting
••			TACO	data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				1 Tudiestone of hydric sail and watland hydrology much
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9				Definitions of Vegetation Strata:
0	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
	100 =	= Total Cove	r	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)		_		
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 Cove	r	
				Hydrophytic
				Vegetation Present? Yes ○ No ●
				Present? 100 0 No 0
				<u>l</u>
Remarks: (Include photo numbers here or on a separate s	sheet.)			

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

Soil Sampling Point: u-51n22w20-a3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth		Matrix			Redox Feat			_	
(inches)	Color ((moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR	2/2	100					Silt Loam	
5-14	10YR	4/3	90	10YR 4/4	10	С	M	Silt Loam	
	-	-							
-	-								
	-		-						
	-		-						
	-								
¹ Type: C=Cond	centration. [D=Depletio	n. RM=Re	duced Matrix, CS=Cov	ered or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=M	latrix
Hydric Soil I	Indicators:							Indicators for Drobb	ematic Hydric Soils: 3
Histosol (A				Polyvalue Bo	elow Surface	(S8) (LRR I	₹.		
	pedon (A2)			MLRA 149B)		(/((LRR K, L, MLRA 149B)
Black Hist				☐ Thin Dark S	urface (S9) ((LRR R, MLF	RA 149B)		ox (A16) (LRR K, L, R)
	Sulfide (A4))		Loamy Mucl	ky Mineral (F	1) LRR K, L))		or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gley	ed Matrix (F2	2)		Dark Surface (S7)	
	Below Dark	Surface (A	11)	Depleted Ma	atrix (F3)				urface (S8) (LRR K, L)
	k Surface (A		•	Redox Dark	Surface (F6)			Thin Dark Surface	
	ıck Mineral (Depleted Da	rk Surface (F	7)			Masses (F12) (LRR K, L, R)
	eyed Matrix (Redox Depr	essions (F8)				nin Soils (F19) (MLRA 149B)
Sandy Red		` ,						Red Parent Materi	o) (MLRA 144A, 145, 149B)
	Matrix (S6)							Very Shallow Dark	
	ace (S7) (LR	R R, MLRA	149B)					Other (Explain in F	
						-11:-4	hl		Remarks)
			n and well	and hydrology must b	e present, ur	niess disturi	bea or probl	lematic.	
Restrictive La		served):							
Type: <u>ro</u>								Hydric Soil Present?	Yes ○ No •
Depth (incl	hes): <u>14</u>							Hydric Son Fresence	Yes ○ No •
Remarks:									