## 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-51n24w25-f1							
Investigator(s): SMR	Section, Township, Range: S. 25	5 <b>T.</b> 51N <b>R.</b> 24W							
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, none)								
Subregion (LRR or MLRA): LRR K	Lat.: 46 52.3545 Long.: -0	93 19.2827 <b>Datum:</b> NAD 83							
Soil Map Unit Name: 870C		NWI classification: N/A							
Are climatic/hydrologic conditions on the site typical for t	his time of year? Yes  No (If n	o, explain in Remarks.)							
Are Vegetation , Soil , or Hydrology	•	ımstances" present? Yes  No							
Are Vegetation , Soil , or Hydrology		•							
Are Vegetation , Soil , or Hydrology anaturally 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 No									
Hydric Soil Present? Yes No •	Is the Sampled Area within a Wetland? Ye	s O No 🗨							
Wetland Hydrology Present? Yes No •	Widin a Weddid:								
Remarks: (Explain alternative procedures here or in a se	eparate report.)								
Hydrology									
Wetland Hydrology Indicators:		ondary Indicators (minimum of 2 required)							
Primary Indicators (minimum of one required; check all  Surface Water (A1)		Surface Soil Cracks (B6)							
	` '	Drainage Patterns (B10) Moss Trim Lines (B16)							
		Dry Season Water Table (C2)							
		Crayfish Burrows (C8)							
		Saturation Visible on Aerial Imagery (C9)							
	ence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)							
	` ,	Geomorphic Position (D2)							
		Shallow Aquitard (D3)							
	(Explain in Remarks)	Microtopographic Relief (D4)							
Sparsely Vegetated Concave Surface (B8)		FAC-neutral Test (D5)							
Field Observations: Surface Water Present? Yes No De									
Currage trater research	pth (inches):0								
	pth (inches):0 Wetland Hydrology	v Present? Yes ○ No ●							
Saturation Present? (includes capillary fringe)  Yes No   De	pth (inches): 0	y Present:							
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspections), if available:								
Remarks:									

## **VEGETATION - Use scientific names of plants**

VEGETATION - USE Scientific fiames of pia	Sampling Point: u-51n24w25-f1			
(0) (1) (2)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC: (A)
2	0			Total Number of Deminant
3	0			Total Number of Dominant Species Across All Strata: 1 (B)
4	0			
5				Percent of dominant Species
6		$\overline{\Box}$		That Are OBL, FACW, or FAC: 0.0% (A/B)
7		$\overline{\Box}$		Prevalence Index worksheet:
		= Total Cove	-	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15		- Total Core	•	0BL speci es x 1 =
1	0			FACW species 10 x 2 = 20
2				
3				FAC species $0 \times 3 = 0$
4				FACU speciles $90 \times 4 = 360$
5				UPL speci es $0 \times 5 = 0$
6				Column Totals: 100 (A) 380 (B)
7				Prevalence Index = B/A = 3.800
		= Total Cove		
Herb Stratum (Plot size: 5		- 10tal COVE	•	Hydrophytic Vegetation Indicators:
1. Pteridium aquilinum	70	<b>✓</b>	FACU	Rapid Test for Hydrophytic Vegetation
			FACW	☐ Dominance Test is > 50%
			FACU	Prevalence Index is ≤3.0 ¹
			FACU	☐ Morphological Adaptations <sup>1</sup> (Provide supporting
4. Phleum pratense			FACU	data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				17. 4
7				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2				Sanling/ahruh Waady plants loss than 2 in DPH and
	100 =	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and 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   Yes ○ No ●
Parameter (Tardada ala :				1
Remarks: (Include photo numbers here or on a separate sh	neet.)			

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-51n24w25-f1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth		Matrix			Redox Feati			_	
(inches)	Color (	moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks
0-4	10YR	3/2	100					Silt Loam	
4-20	10YR	5/3	90	10YR 5/4	10	С	M	Silt Loam	
			-				-		
		-	-				-		
	-		-					-	
	-								
	-		-				-		
<sup>1</sup> Type: C=Con	centration. [	=Depletio	n. RM=Red	duced Matrix, CS=Cov	ered or Coat	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=N	latrix
Hydric Soil I		•							
Histosol (				Polyvalue Be	low Surface	(S8) (I RR F	2		ematic Hydric Soils: 3
	pedon (A2)			MLRA 149B)		(00) (2	•1		(LRR K, L, MLRA 149B)
Black Hist				Thin Dark Su	urface (S9) (	LRR R, MLF	RA 149B)		ox (A16) (LRR K, L, R)
	Sulfide (A4)			Loamy Muck	y Mineral (F1	1) LRR K, L)	)		or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gleye	ed Matrix (F2	)		Dark Surface (S7)	
	Below Dark	Surface (A	11)	Depleted Ma	trix (F3)				furface (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 Depre	essions (F8)				nin Soils (F19) (MLRA 149B)
Sandy Re		,							o) (MLRA 144A, 145, 149B)
	Matrix (S6)							Red Parent Materi  Very Shallow Dark	
	ace (S7) (LR	R R, MLRA	149B)					Other (Explain in I	
							!		Remarks)
			n and wett	and hydrology must b	e present, ur	ness disturi	bea or probl	lematic.	
Restrictive L	ayer (if obs	erved):							
Type:								Hydric Soil Present?	Yes ○ No •
Depth (incl	hes):							nyuric Son Present?	Yes Uno S
Remarks:									