## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Aitkin	Sampling Date: 22-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: u-50n20w2-e1
Investigator(s): DPT		Section, Township, Range:	S. 2 T. 50N R. 20W
Landform (hillslope, terrace, etc.): Sh	noulder slope	Local relief (concave, convex, n	
Subregion (LRR or MLRA): LRR K	Lat.: 1	46 51.1368 <b>Long</b>	
Soil Map Unit Name: B124A			NWI classification: N/A
Are climatic/hydrologic conditions on t	he site typical for this time of ye	ear? Yes   No	(If no, explain in Remarks.)
			Circumstances" present? Yes  No
	or Hydrology		explain any answers in Remarks.)
		,	s, transects, important features, etc
Hydrophytic Vegetation Present?	Yes O No •		
Hydric Soil Present?	Yes O No 💿	Is the Sampled Area within a Wetland?	Yes ○ No •
Wetland Hydrology Present?	Yes O No 💿	Within a Wedana:	
Remarks: (Explain alternative proced	lures here or in a senarate repor	t.)	
Hydrology			
Wetland Hydrology Indicators:			Cday, Indicators (minimum of 2 required)
Primary Indicators (minimum of one	required: check all that apply)		Secondary Indicators (minimum of 2 required)  Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leav	ves (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 O		Crayfish Burrows (C8)
Sediment Deposits (B2)		res along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	☐ Presence of Reduce		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Iron Deposits (B5)		tion in Tilled Soils (C6)	Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (	Thin Muck Surface  B7) Other (Evaluin in B)	• •	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (I	U Other (Explain in Re	emarks)	FAC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	No Depth (inches):	0	
Water Table Present? Yes	No Depth (inches):		
Saturation Present? (includes capillary fringe)	No Depth (inches):	Wetland Hydi	ology Present? Yes O No 💿
Describe Recorded Data (stream gaug		s, previous inspections), if avail	able:
Remarks:			

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

vegeration - ose scientific fiames of pr	ancs			Sampling Point: u-50n20w2-e1
/Dist. 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:0(A)
2				Total Number of Dominant
3	0			Species Across All Strata: 4 (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:
Sapling/Shrub Stratum (Plot size: 15 )	0 =	= Total Cove	r	Total % Cover of: Multiply by:
	0			0BL speci es x 1 =
1				FACW species
2				FAC speciles x 3 =0
3				FACU species 80 x 4 = 320
4				UPL speci es 10 x 5 = 50
5			-	Column Totals: 100 (A) 390 (B)
6			-	
7				Prevalence Index = B/A = 3.900
Herb Stratum (Plot size: 5		= Total Cove	r	Hydrophytic Vegetation Indicators:
4. Donous to some to	10		LIDI	Rapid Test for Hydrophytic Vegetation
1. Bromus inermis			UPL	☐ Dominance Test is > 50%
2. Trifollum pratense		<b>✓</b>	FACU	Prevalence Index is ≤3.0 <sup>1</sup>
3. Trifolium repens		<b>✓</b>	FACU	Morphological Adaptations <sup>1</sup> (Provide supporting
4. Taraxacum officinale		<b>✓</b>	FACU	data in Remarks or on a separate sheet)
5. Phleum pratense			FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6. Phalaris arundinacea			FACW	1
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			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				Capling/abruh Woody plants loss than 2 in DPH and
Woody Vine Stratum (Plot size: 30 )	100 =	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
	0			Harb All barbassaus (non woods) plants, regardless of
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				Size, and week, plante less than elec it tam
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
		= Total Cove	r	
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate s	heet.)			
	•			

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

Soil Sampling Point: u-50n20w2-e1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Rec	lox Featu					
(inches)	Color (moist)	%	Color (moist)	%	Type 1	Loc <sup>2</sup>	Texture	Remarks	
				-					
		-	-						
1 - 0 0					10 10	21 1			
		. RIVI=Reduc	ed Matrix, CS=Covere	d or Coate	d Sand Grai	ns <sup>2</sup> Locat	tion: PL=Pore Lining. M=Ma	atrix	
Hydric Soil							<b>Indicators for Proble</b>	matic Hydric Soils: 3	
Histosol (	(A1)		Polyvalue Belov	v Surface (S	S8) (LRR R,		2 cm Muck (A10) (	LRR K, L, MLRA 149B)	
Histic Epi	pedon (A2)		MLRA 149B)	(00) (1		4.400)		(A16) (LRR K, L, R)	
☐ Black His	tic (A3)		Thin Dark Surfa			(149B)		r Peat (S3) (LRR K, L, R)	
Hydroger	n Sulfide (A4)		Loamy Mucky N		LRR K, L)		Dark Surface (S7)		
Stratified	Layers (A5)		Loamy Gleyed					urface (S8) (LRR K, L)	
Depleted	Below Dark Surface (A11	1)	Depleted Matrix				Thin Dark Surface		
☐ Thick Dar	rk Surface (A12)		Redox Dark Su	, ,				asses (F12) (LRR K, L, R)	
Sandy Mu	uck Mineral (S1)		Depleted Dark	Surface (F7	)				
	eyed Matrix (S4)		Redox Depress	ions (F8)			_	n Soils (F19) (MLRA 149B)	
Sandy Re								(MLRA 144A, 145, 149B)	
	Matrix (S6)						Red Parent Materia		
	face (S7) (LRR R, MLRA 1	140D)					Very Shallow Dark		
							Other (Explain in R	emarks)	
<sup>3</sup> Indicators o	f hydrophytic vegetation	and wetland	hydrology must be p	resent, unl	ess disturbe	d or proble	matic.		
Restrictive L	.ayer (if observed):								
Type:									
Depth (inc	ches):						Hydric Soil Present?	Yes O No 💿	
Remarks:									
No digging, p	ootential buried utilitie	s. Soils as	sumed non-hydric	based on	vegetatio	n and hydi	rology.		
							03		
							03		
							G.		
							<u>.</u>		
							<u>.</u>		