## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Carlton	Samplin	<b>g Date:</b> 16-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-48n17w16-a6
Investigator(s): SMR	Section, T	ownship, Range: S. 10		<b>R.</b> 17W
Landform (hillslope, terrace, etc.): Mound		concave, convex, none)		Slope: 7.0 % / 4.0 °
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 38.7598	Long.: -	92 30.5971	Datum: NAD 83
Soil Map Unit Name: 533			NWI classification:	N/A
Are climatic/hydrologic conditions on the site to	voical for this time of year?	es • No O (If n	o, explain in Remarks	s.)
Are Vegetation, Soil, or Hydro		•	umstances" present?	Yes   No
Are Vegetation , Soil , or Hydro	logy naturally problematic?		in any answers in Ren	narks.)
Summary of Findings - Attach site			-	•
Hydrophytic Vegetation Present? Yes	No •			
Hydric Soil Present? Yes		e Sampled Area in a Wetland? Ye	s O No •	
Wetland Hydrology Present? Yes	No •	in a wedand:		
Remarks: (Explain alternative procedures her	e or in a separate report.)			
Hydrology  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required	; check all that apply)		ondary Indicators (minim Surface Soil Cracks (B6)	um of 2 required)
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)  Drift deposits (B3)	Oxidized Rhizospheres along Living	J ()	Saturation Visible on Aer	0 3 . ,
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled So		Stunted or Stressed Plan Geomorphic Position (D2	• •
Iron Deposits (B5)	Thin Muck Surface (C7)	` ′ _	Shallow Aquitard (D3)	<u>-)</u>
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface (B8)	U Ottier (Explain in Kemarks)		FAC-neutral Test (D5)	(- '/
Field Observations: Surface Water Present?  Yes No   No	Depth (inches): 0			
		_		
	Depth (inches): 0	Wetland Hydrology	y Present? Yes	No ●
(includes capillary fringe) Yes \( \bigvee \) No \( \bigvee \)	Depth (inches): 0			
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous in	spections), if available:		
Remarks:				
Remarks:				

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

vederation - ose scientific fiames of pr	Sampling Point: u-48n17w16-a6					
(8) -1 - 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species		
1 Populus tremuloides	40	✓	FACU	That are OBL, FACW, or FAC: (A)		
2. Acer rubrum	20	✓	FAC	Total Number of Daminout		
3	0			Total Number of Dominant Species Across All Strata: 4 (B)		
4						
5			-	Percent of dominant Species		
6.				That Are OBL, FACW, or FAC: 50.0% (A/B)		
7				Prevalence Index worksheet:		
		= Total Cove		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15		- rotar cove	•	0BL speci es x 1 =		
1	0					
2				· — —		
3			-	FAC speci es <u>20</u> x 3 = <u>60</u>		
4				FACU species $50 \times 4 = 200$		
5				UPL species $\frac{70}{}$ x 5 = $\frac{350}{}$		
6				Column Totals: <u>160</u> (A) <u>630</u> (B)		
*				Dravalance Index D/A 2.020		
7		= Total Cove		Prevalence Index = B/A = 3.938		
Herb Stratum (Plot size: 5		= Total Cove	r	Hydrophytic Vegetation Indicators:		
	70	<b>✓</b>	UPL	Rapid Test for Hydrophytic Vegetation		
• •		<b>✓</b>	OBL	☐ Dominance Test is > 50%		
2. Calamagrostis canadensis				Prevalence Index is ≤3.0 <sup>1</sup>		
3. Pteridium aquilinum			FACU	Morphological Adaptations <sup>1</sup> (Provide supporting		
4				data in Remarks or on a separate sheet)		
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
6				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				at breast height (DBH), regardless of height.		
2						
		= 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				greater than 3.20 ft (1111) tail		
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   No		
				Present? Yes V No V		
Remarks: (Include photo numbers here or on a separate s	sheet.)					

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

Soil Sampling Point: u-48n17w16-a6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)													
Depth (inches)	Caland	Matrix	%	Calar (m		ox Featu		1 2	- -		D		
0-14	Color (	2/2	100	Color (m	oist)	<u>%</u>	Type 1	Loc²	Texture Fine Sandy Loam		кеп	narks	
									-				
14-20	7.5YR	4/4	100			-			Fine Sandy Loam				
		-											
		-				-			N-				
		-											
		=Depletio	n. RM=Rec	luced Matrix, CS	S=Covered	d or Coate	d Sand G	ains <sup>2</sup> Loca	ation: PL=Pore Linin	ıg. M=Ma	atrix		
Hydric Soil I									Indicators for	r Proble	matic Hydri	ic Soils: 3	
Histosol (/	•			Polyval MLRA	lue Below	Surface (	S8) (LRR	R,			LRR K, L, MLF		
	pedon (A2)				,	ce (S9) (L	RR R. MI	RA 149B)	Coast Prair	rie Redox	x (A16) (LRR	K, L, R)	
Black Hist						ineral (F1)			5 cm Muck	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Sulfide (A4) Layers (A5)				-	latrix (F2)		,			(LRR K, L, M)		
	Below Dark S	Surface (A	11)		ed Matrix						ırface (S8) (L		
	k Surface (A1		,	Redox	Dark Surf	ace (F6)					(S9) (LRR K,		
	ck Mineral (S			Deplet	ed Dark S	urface (F7	<b>'</b> )				asses (F12) (I		
_	eyed Matrix (S			Redox	Depression	ons (F8)						(MLRA 149B)	
Sandy Red									Red Paren		) (MLRA 144A J. (F21)	A, 145, 149B)	
Stripped N	Matrix (S6)										Surface (TF12	2)	
☐ Dark Surfa	ace (S7) (LRF	R R, MLRA	149B)						Other (Exp			-)	
<sup>3</sup> Indicators of	hydrophytic	vegetatio	n and wetla	and hydrology m	nust be pr	esent, unl	ess distur	bed or probl			,		
Restrictive La				, ,,									
Type:	ayer (ii obs	ci vea j.											
Depth (incl	hes):								Hydric Soil Pres	sent?	$_{Yes}$ $\bigcirc$	No 💿	
Remarks:													
Nemarks.													