## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Cou	unty: Carlton	Sampling	g Date: 15-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-48n17w7-a1
Investigator(s): DPT	Secti	ion, Township, Range: S	. 7 <b>T.</b> 48N	<b>R.</b> 17W
Landform (hillslope, terrace, etc.): Should		lief (concave, convex, no		Slope: 8.7 % / 5.0 °
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 39.56	Long.	-92 32.116	Datum: NAD 83
Soil Map Unit Name: 274			NWI classification:	 N/A
Are climatic/hydrologic conditions on the si	te typical for this time of year?	Yes ● No ○	– If no, explain in Remarks	.)
	drology $\square$ significantly disturb	·	Circumstances" present?	Yes   No
	drology  aturally problema		cplain any answers in Ren	narks.)
Summary of Findings - Attach		,	-	•
Hydrophytic Vegetation Present? Yes	O No ●			
Hydric Soil Present? Yes	○ No ●	Is the Sampled Area within a Wetland?	Yes ○ No •	
Wetland Hydrology Present? Yes	○ No ●	widini a Wedana:		
Remarks: (Explain alternative procedures	here or in a senarate report )			
Hydrology				
Wetland Hydrology Indicators:			Saandary Indicators (minim	of 2 required)
Primary Indicators (minimum of one requi	red check all that apply)	-	Secondary Indicators (minimoderication)  Surface Soil Cracks (B6)	um of 2 requirea)
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)	Oxidized Rhizospheres along		Saturation Visible on Aer	0 3
Drift deposits (B3)	Presence of Reduced Iron (C		Stunted or Stressed Plan	• •
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)	Recent Iron Reduction in Till	ed Soils (C6)	Geomorphic Position (D2	2)
Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)		<ul><li>Shallow Aquitard (D3)</li><li>Microtopographic Relief</li></ul>	(D4)
Sparsely Vegetated Concave Surface (B8)	U Other (Explain in Remarks)		FAC-neutral Test (D5)	(04)
Field Observations: Surface Water Present?  Yes No	Depth (inches): 0			
Water Table Present? Yes No		<del></del>		
Saturation Present? (includes capillary fringe)  Yes No		Wetland Hydro	logy Present? Yes	No ●
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previo	ous inspections), if availa	ble:	
Remarks:				
Remarks:				

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

VEGETATION - OSE SCIENCIFIC Harries of pic	Sampling Point: u-48n17w7-a1			
(0) (1) (2)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:1 (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 4 (B)
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 25.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				0BL speci es 0 x 1 = 0
1	0			FACW species 20 x 2 = 40
2	0			FAC species x 3 =
3				<u> </u>
4				
5	0			UPL speci es $\frac{20}{}$ x 5 = $\frac{100}{}$
6				Column Total s: 100 (A) 380 (B)
7				Prevalence Index = B/A = 3.800
		= Total Cove		
Herb Stratum (Plot size: 5				Hydrophytic Vegetation Indicators:  Rapid Test for Hydrophytic Vegetation
1. Trifolium pratense	20	<b>✓</b>	FACU	
2. Lotus corniculatus		<b>✓</b>	FACU	Dominance Test is > 50%
3. Bromus Inermis	20	<b>✓</b>	UPL	☐ Prevalence Index is ≤3.0 ¹
4 Tanacetum vulgare	10		FACU	Morphological Adaptations <sup>1</sup> (Provide supporting
F. Doe protonole	10		FACU	data in Remarks or on a separate sheet)
O Dhalada amundhaasa		<b>✓</b>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
0.			TACV	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 )	100 =	= Total Cove	r	greater than 3.28 ft (1m) tall
	0			Llash All hashacassa (non usash) planta sasasilaaa af
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				Size, and woody planto loss than o.zo it tail.
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	0 =	= Total Cove	r	
				Hydrophytic Vegetation
				Present? Yes No •
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-48n17w7-a1

Depth	Matrix	ibsence of indicators.)	nce of indicators.)				
(inches)	Color (moist)	%	Color (moist)	dox Features%Type_1	Loc2	Texture	Remarks
			(,				
			-			-	
					-		
1 - 0 0							
		n. RM=Reduc	ed Matrix, CS=Cover	ed or Coated Sand Gr	ains <sup>2</sup> Loca	tion: PL=Pore Lining. M=Ma	
Hydric Soil 1						Indicators for Proble	ematic Hydric Soils: 3
Histosol (	(A1)			w Surface (S8) (LRR F	2,	2 cm Muck (A10) (	LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		MLRA 149B)	(00) (100 0 1415	A 4 40D)		x (A16) (LRR K, L, R)
Black Hist	tic (A3)			ace (S9) (LRR R, MLF			r Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		_	Mineral (F1) LRR K, L)		Dark Surface (S7)	
Stratified	Layers (A5)		Loamy Gleyed				urface (S8) (LRR K, L)
Depleted	Below Dark Surface (A1	11)	Depleted Matri			Thin Dark Surface	
☐ Thick Dar	k Surface (A12)		Redox Dark Su				asses (F12) (LRR K, L, R)
Sandy Mu	uck Mineral (S1)		Depleted Dark				in Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depress	sions (F8)			
Sandy Re							(MLRA 144A, 145, 149B)
	Matrix (S6)					Red Parent Materia	
	face (S7) (LRR R, MLRA	149R)				☐ Very Shallow Dark	
						Other (Explain in R	emarks)
<sup>3</sup> Indicators o	f hydrophytic vegetation	n and wetland	I hydrology must be p	oresent, unless disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):						
Type:							
Depth (inc	:hes):					Hydric Soil Present?	Yes O No 💿
Remarks:	,						
No digging, p	ootential buried utiliti	ies. Soils as	sumed non-hydric	based on vegetation	on and hyd	rology.	
ı							