WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: Carlton	Samplin	g Date: 15-Sep-17
Applicant/Owner: Enbridge		State: M	N Sampling Point:	u-48n17w8-b1
Investigator(s): SMR		Section, Township, Range:	s. 8 t. 48N	R. 17W
Landform (hillslope, terrace, etc.): Mo	und	Local relief (concave, convex,		Slope: 7.0 % / 4.0 °
Subregion (LRR or MLRA): LRR K	Lat.: ∠	46 39.4011 Lor	9.: -92 31.4963	Datum: NAD 83
Soil Map Unit Name: 355C			NWI classification:	 N/A
Are climatic/hydrologic conditions on th	e site typical for this time of ye	ear? Yes No	(If no, explain in Remarks	.)
Are Vegetation , Soil , o	r Hydrology 🔲 significantly	y disturbed? Are "Norma	I Circumstances" present?	Yes ● No ○
	r Hydrology 🔲 naturally pr		explain any answers in Ren	narks)
Summary of Findings - Attac		` '	•	•
Hydrophytic Vegetation Present?	es O No •			
Hydric Soil Present?	es O No 💿	Is the Sampled Area within a Wetland?	Yes ○ No ●	
Wetland Hydrology Present?	es O No 💿	widiiii a wedand:		
Remarks: (Explain alternative procedu	ires here or in a senarate renor	+ \		
Hydrology				
Wetland Hydrology Indicators:			Coopedary Indicators (minim	um of 2 required)
Primary Indicators (minimum of one re	equired: check all that apply)		Secondary Indicators (minim Surface Soil Cracks (B6)	um or 2 requirea)
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	dor (C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizosphe	res along Living Roots (C3)	Saturation Visible on Aer	ial Imagery (C9)
Drift deposits (B3)	Presence of Reduce		Stunted or Stressed Plan	• •
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)		tion in Tilled Soils (C6)	Geomorphic Position (D2	2)
Inundation Visible on Aerial Imagery (B	Thin Muck Surface	• •	☐ Shallow Aquitard (D3)☐ Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface (B	Utilei (Explain in Re	emarks)	FAC-neutral Test (D5)	(D4)
	-,			
Field Observations: Surface Water Present? Yes	No Depth (inches):	0		
Saturation Present?	No Depth (inches): _ No Depth (inches): _	Wetland Hyd	Irology Present? Yes	No ●
(includes capillary fringe) Describe Recorded Data (stream gauge			ilable:	
Remarks:				

VEGETATION - Use scientific names of plants

vederation - ose scientific fiames of pr	Sampling Point: u-48n17w8-b1			
(0)-1 - 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus strobus		✓	FACU	That are OBL, FACW, or FAC: (A)
2	0			T. I.N. J. CD. J. J.
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				
5				Percent of dominant Species
				That Are OBL, FACW, or FAC: 0.0% (A/B)
6				Prevalence Index worksheet:
7				
Sapling/Shrub Stratum (Plot size: 15)	=	= Total Cove	r	Total % Cover of: Multiply by:
1	0			0BL species 0 x 1 = 0
2				FACW species 0 x 2 = 0
				FAC species x 3 =
3			-	FACU species x 4 =480
4			-	UPL speci es $0 \times 5 = 0$
5				Column Totals: 120 (A) 480 (B)
6	-			
7	0			Prevalence Index = B/A =4.000_
Herb Stratum (Plot size: 5		= Total Cove	r	Hydrophytic Vegetation Indicators:
THEID STIGHT (FIRESTEE)		_		Rapid Test for Hydrophytic Vegetation
1. Lollum perenne		✓	FACU	Dominance Test is > 50%
2. Phleum pratense	25	✓	FACU	Prevalence Index is ≤3.0 ¹
3. Rudbeckia hirta	15		FACU	
4. Poa pratensis	30	✓	FACU	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				Problematic Hydrophytic Vegetation (Explain)
				¹ 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	0			at breast height (DBH), regardless of height.
2	0			Sapling/shrub - Woody plants less than 3 in. DBH and
(Diet einer 20	100=	= Total Cove	r	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)				
1				Herb - All herbaceous (non-woody) plants, regardless of
2				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 ○ No ●
Remarks: (Include photo numbers here or on a separate s	heet.)			

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

Soil Sampling Point: u-48n17w8-b1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type 1 Lo								
(inches)	Color (moist)		Color (moist)	% Type	Loc ²	Texture	Remarks	
			-					
1 Type: C=Con	centration D-Depletion	DM-Peduce	ad Matrix CS=Cover	ad or Coated Sand G	rains 21 ocat	tion: PL=Pore Lining. M=Ma	atriv	
		i. Kivi–Keduce	unatin, c3-cover	ed of coated Sand o	Tailis Locat			
Hydric Soil 1			Debession Deles	w Surface (S8) (LRR	D	Indicators for Proble	matic Hydric Soils: 3	
Histosol (•		MLRA 149B)	w Surrace (S8) (LRR	К,	2 cm Muck (A10) (I	LRR K, L, MLRA 149B)	
	pedon (A2)			ace (S9) (LRR R, ML	.RA 149B)	Coast Prairie Redox	(A16) (LRR K, L, R)	
Black Hist				Mineral (F1) LRR K, I		5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)	
	Sulfide (A4)		Loamy Gleyed		-7	Dark Surface (S7)	(LRR K, L, M)	
	Layers (A5)	1)	Depleted Matri			Polyvalue Below Su	ırface (S8) (LRR K, L)	
	Below Dark Surface (A1	1)	Redox Dark Su			Thin Dark Surface ((S9) (LRR K, L)	
	k Surface (A12)		☐ Depleted Dark			Iron-Manganese Ma	asses (F12) (LRR K, L, R)	
	uck Mineral (S1)		Redox Depress			Piedmont Floodplai	n Soils (F19) (MLRA 149B)	
	eyed Matrix (S4)			(. 5)		Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)	
Sandy Re						Red Parent Materia	l (F21)	
	Matrix (S6)					Very Shallow Dark	Surface (TF12)	
☐ Dark Surf	face (S7) (LRR R, MLRA	149B)				Other (Explain in R	emarks)	
³ Indicators o	f hydrophytic vegetatior	n and wetland	hydrology must be p	oresent, unless distu	bed or proble	ematic.		
Restrictive L	ayer (if observed):							
Type:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
Depth (inc	hes).					Hydric Soil Present?	Yes O No 💿	
Remarks:								
No digging of	n mainline, active bu	ried utilities	soils assumed no	n-hydric based or	vegetation	and hydrology.		