WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/Cour	nty: Carlton	Sampling	Date: 15-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-48n17w8-a1
Investigator(s): SMR	Section	on, Township, Range: S	. 8 T. 48N	R. 17W
Landform (hillslope, terrace, etc.): Hillside		ef (concave, convex, no		Slope: 14.0 % / 8.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 39.595	50 Long.:	-92 31.9817	Datum: NAD 83
Soil Map Unit Name: 533			NWI classification:	 N/A
Are climatic/hydrologic conditions on the sit	e typical for this time of year?	Yes No (– If no, explain in Remarks	.)
Are Vegetation \square , Soil \square , or Hyo		•	ircumstances" present?	Yes No
Are Vegetation, Soil, or Hyd	,		•	
Summary of Findings - Attach s		,	plain any answers in Ren L transects. impor	•
Hydrophytic Vegetation Present? Yes	<u> </u>		,po.	
Hydric Soil Present? Yes) No (•)	s the Sampled Area	Yes ○ No ●	
Yes (within a Wetland?	res O NO O	
Remarks: (Explain alternative procedures				
Hydrology				
Wetland Hydrology Indicators:			Secondary Indicators (minim	um of 2 required)
Primary Indicators (minimum of one requir			Surface Soil Cracks (B6)	
Surface Water (A1) High Water Table (A2)	✓ Water-Stained Leaves (B9)✓ Aquatic Fauna (B13)		Drainage Patterns (B10)Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry Season Water Table	(C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	(02)
Sediment Deposits (B2)	Oxidized Rhizospheres along I	Livina Roots (C3)	Saturation Visible on Aer	ial Imagery (C9)
☐ Drift deposits (B3)	Presence of Reduced Iron (C4	_	Stunted or Stressed Plan	0 3
☐ Algal Mat or Crust (B4)	Recent Iron Reduction in Tille		Geomorphic Position (D2)
Iron Deposits (B5)	☐ Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface (B8)			FAC-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes No				
Water Table Present? Yes No	Depth (inches):0		logy Present? Yes	No •
Saturation Present? (includes capillary fringe) Yes No	Depth (inches): 0	Wetland Hydro	logy Present? Tes	NO S
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previou	us inspections), if availa	ble:	
5				
Remarks:				

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pla	Sampling Point: u-48n17w8-a1			
(0)-4 20	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover		Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:1(A)
2				Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
6	0			That Are Obe, FACW, OF FAC.
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		= Total Cover		Total % Cover of: Multiply by:
	0			0BL speci es x 1 =0
1				FACW species x 2 =40
2				FAC speci es x 3 =0
3				FACU species80x 4 =320
4				UPL speci es x 5 =0
5				Column Totals: 100 (A) 360 (B)
6	-			
7				Prevalence Index = B/A = 3.600
Herb Stratum (Plot size: 5		= Total Cover		Hydrophytic Vegetation Indicators:
	20	✓	FACW	Rapid Test for Hydrophytic Vegetation
0. 8		▼	FACU	☐ Dominance Test is > 50%
			FACU	☐ Prevalence Index is ≤3.0 ¹
3. Trifolium repens	20	✓		$oxedsymbol{\square}$ Morphological Adaptations 1 (Provide supporting
4. Phleum pratense			FACU	data in Remarks or on a separate sheet)
5. Lotus corniculatus			FACU	☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6. Taraxacum officinale			FACU	¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Definitions of Vegetation Strata.
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11				at breast height (DBH), regardless of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30	100 =	= Total Cover		greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1	0			size, and woody plants less than 3.28 ft tall.
3	0			Woody vine - All woody vines greater than 3.28 ft in height.
4		- Total Cover		neight.
		= Total Cover		
				Hydrophytic
				Vegetation
				Present? Yes V No V
Remarks: (Include photo numbers here or on a separate she	eet.)			

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

Soil Sampling Point: u-48n17w8-a1

	Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth	Matrix		Red	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
							-	
							-	
		_	-	-				
				-				
1 - 0 0						21		
		RIVI=Reduc	ed Matrix, CS=Covere	ed or Coate	a Sana Grai	ns ² Locai	tion: PL=Pore Lining. M=M	atrix
Hydric Soil							Indicators for Proble	matic Hydric Soils: 3
Histosol ((A1)		Polyvalue Belov	v Surface (S8) (LRR R,		2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epi	ipedon (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					ırface (S8) (LRR K, L)
Depleted	Below Dark Surface (A11)	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	40D)					Very Shallow Dark	
							Other (Explain in R	emarks)
³ Indicators o	f hydrophytic vegetation a	and wetland	hydrology must be p	resent, unl	ess disturbe	d or proble	ematic.	
Restrictive L	.ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil Present?	Yes 🔾 No 💿
Remarks:								
No digging o	n mainline, active buri	ed utilities	. Soils assumed no	n-hydric l	based on v	egetation	and hydrology.	