WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22			City/County:	Carlton		Sampling	Date: 16-Sep-17
Applicant/Owner: Enbridge				State: MN	Sampl	ing Point:	u-48n17w16-e1
Investigator(s): SMR			Section, To	wnship, Range:	s. 16	T. 48N	R. 17W
Landform (hillslope, terrace, etc.):	Mound	l	•	oncave, convex, n		x	Slope: 8.7 % / 5.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 4	6 38.7370	Long	-92 30.10	75	Datum: NAD 83
Soil Map Unit Name: 337					-	ssification:	
Are climatic/hydrologic conditions o	n the site tv	nical for this time of ve	ar? Ye:	s • No O	— (If no, explain	n in Remarks	1
Are Vegetation \Box , Soil \Box	or Hydrolo,				Circumstance		Yes No
Are Vegetation, Soil	, or Hydrold	· –	•		explain any an	•	
Summary of Findings - At	•			` '			•
Hydrophytic Vegetation Present?		No •			•	, <u>.</u>	•
Hydric Soil Present?		No •		Sampled Area	Yes O No	. (•)	
Wetland Hydrology Present?		No •	Within	n a Wetland?	100 - 110	,	
Remarks: (Explain alternative prod			+)				
Hydrology							
Wetland Hydrology Indicators:					Secondary Ind	icators (minim	um of 2 required)
Primary Indicators (minimum of or	ie <u>required;</u>	check all that apply)				oil Cracks (B6)	ani oi z reguireu,
Surface Water (A1)		Water-Stained Leave	es (B9)			Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13))			Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				n Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Oc			_	urrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizospher		Roots (C3)			al Imagery (C9)
☐ Drift deposits (B3) ☐ Algal Mat or Crust (B4)		Presence of Reduced		10.13		Stressed Plan	• •
Iron Deposits (B5)		Recent Iron Reduction		s (C6)		nic Position (D2 quitard (D3))
☐ Inundation Visible on Aerial Imager	y (B7)	☐ Thin Muck Surface (☐ Other (Explain in Re	•			graphic Relief (D4)
Sparsely Vegetated Concave Surface		☐ Other (Explain in Re	marks)			al Test (D5)	•
Field Observations:							
Surface Water Present? Yes	No 💿	Depth (inches):	0				
Water Table Present? Yes	No 💿	Depth (inches):	0				
Saturation Present? (includes capillary fringe) Yes		Depth (inches):	0	Wetland Hydr	ology Present	? Yes	No 💿
Describe Recorded Data (stream ga	uge, monito	ring well, aerial photos	s, previous ins	pections), if avail	able:		
Remarks:							

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCING Harnes of pla	Sampling Point: u-48n17w16-e1			
(Dist. size. 20	Absolute		dicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	_species: _St	atus	Number of Dominant Species
1		Ц -		That are OBL, FACW, or FAC:0(A)
2		<u> </u>		Total Number of Dominant
3				Species Across All Strata:3(B)
4		Ц –		Percent of dominant Species
5				That Are OBL, FACW, or FAC: 0.0% (A/B)
6		<u> </u>		
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		= Total Cover		Total % Cover of: Multiply by:
1	0			0BL species 0 x 1 = 0
2				FACW species 0 x 2 = 0
3				FAC speciles <u>0</u> x 3 = <u>0</u>
4				FACU speciles 100 x 4 = 400
5				UPL speci es $0 \times 5 = 0$
6				Column Totals: 100 (A) 400 (B)
7				Prevalence Index = B/A = 4.000
		Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation
1. Plantago major			ACU	Dominance Test is > 50%
2. Taraxacum officinale			ACU	Prevalence Index is ≤3.0 ¹
3. Lotus corniculatus			ACU	Morphological Adaptations ¹ (Provide supporting
4. Poa pratensis		<u> </u>	ACU	data in Remarks or on a separate sheet)
5		H -		☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7		H -		be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9		H -		_
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				at breast height (BBH), regardless of height.
12		□ □ − = Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30		- Total Covel		greater than 3.28 ft (1m) tall
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 Cover		
				Undershid
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate sh	eet.)			

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

Soil Sampling Point: u-48n17w16-e1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Rec	dox Featu				
(inches)	Color (moist)	<u></u> %	Color (moist)	%	Type 1	Loc ²	Texture	Remarks
							-	
							-	
							-	
				-				
¹ Type: C=Con	centration. D=Depletior	n. RM=Reduce	ed Matrix, CS=Covere	ed or Coate	d Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=M	atrix
Hydric Soil 1	indicators:						Indicators for Droble	ematic Hydric Soils: 3
Histosol (Polyvalue Belov	v Surface (S8) (I RR P			
· — ·	pedon (A2)		MLRA 149B)	v Surface (JO) (LIKIK IK,			(LRR K, L, MLRA 149B)
			☐ Thin Dark Surfa	ace (S9) (L	RR R, MLRA	A 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)
Black Hist			Loamy Mucky N			,	5 cm Mucky Peat of	or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed		LIKIK IK, L)		Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)						Polyvalue Below S	urface (S8) (LRR K, L)
	Below Dark Surface (A1	1)	Depleted Matrix				Thin Dark Surface	
Thick Dar	k Surface (A12)		Redox Dark Su					lasses (F12) (LRR K, L, R)
Sandy Mu	ıck Mineral (S1)		Depleted Dark)			in Soils (F19) (MLRA 149B)
Sandy Gle	eyed Matrix (S4)		Redox Depress	ions (F8)) (MLRA 144A, 145, 149B)
Sandy Re								
	Matrix (S6)						Red Parent Materia	
	ace (S7) (LRR R, MLRA	1/OD)					Very Shallow Dark	
							Other (Explain in F	Remarks)
³ Indicators of	f hydrophytic vegetation	and wetland	hydrology must be p	resent, unl	ess disturbe	ed or proble	ematic.	
Restrictive I	ayer (if observed):							
Type:	., c. (c.zcc. ccz).							
	1						Hydric Soil Present?	Yes O No 💿
Depth (inc	nes):						, , , , , , , , , , , , , , , , , , , ,	100 0 110 0
Remarks:								
No digaina po	otential buried utilitie	s. soils assu	ımed non-hydric b	ased on v	egetation	and hydro	oloav.	
33 31			, , , , , , , , , , , , , , , , , , ,		3	,	33	