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	Sampli	ng Point:	w-48n17w16-a3
Investigator(s): SMR			Section, To	ownship, Range:	S. 16 1	г. 48N	R. 17W
Landform (hillslope, terrace, etc.):	Lowland	L	•	oncave, convex, n		e	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K			6 38.7702	Long	-92 30.598	5	Datum: NAD 83
Soil Map Unit Name: 533						sification:	
	the site tu		3 Yes	s • No O	— (If no, explain	-	
Are climatic/hydrologic conditions of \square , Soil \square	-				Circumstances		.) Yes ● No ○
	, or Hydrold					•	
Are Vegetation, Soil	, or Hydrold				explain any ans		•
Summary of Findings - At			impling po	oint location	s, transect	ts, impor	tant features, etc
Hydrophytic Vegetation Present?	Yes	No O	Is the	Sampled Area		~	
Hydric Soil Present?	Yes	No O		n a Wetland?	Yes No	0	
Wetland Hydrology Present?	Yes 💿	No O					
Remarks: (Explain alternative pro	cedures here	or in a separate report	:.)				
No digging potential buried utilitie	S.						
Hydrology							
Wetland Hydrology Indicators:					Secondary India	cators (minimu	um of 2 required)
Primary Indicators (minimum of o	ne required:	check all that apply)				il Cracks (B6)	an or 2 reganes,
Surface Water (A1)	110 104	Water-Stained Leave	(BO)			atterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)	, ,		_	Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				Water Table	(03)
Water Marks (B1)							(62)
l —		Hydrogen Sulfide Od		- : (00)	Crayfish Bu		(00)
Sediment Deposits (B2)		Oxidized Rhizospher		Roots (C3)			al Imagery (C9)
Drift deposits (B3)		Presence of Reduced				Stressed Plan	, ,
Algal Mat or Crust (B4)		Recent Iron Reduction		s (C6)		c Position (D2)
Iron Deposits (B5)		Thin Muck Surface (•		Shallow Aq		
Inundation Visible on Aerial Image	•	Other (Explain in Re	marks)		_	raphic Relief ([D4)
Sparsely Vegetated Concave Surfa	ce (B8)				✓ FAC-neutra	I Test (D5)	
Field Observations:							
Surface Water Present? Yes	O No ●	Depth (inches):	0				
Water Table Present? Yes	No ●	Depth (inches):	0			_	_
Saturation Present? (includes capillary frings) Yes		Depth (inches):	0	Wetland Hydr	ology Present?	Yes 🤄	No 🔾
(Includes capillally Intrige)				., , , , , ,			
Describe Recorded Data (stream g	auge, monito	ring well, aerial photos	, previous ins	pections), if avail	able:		
Remarks:							

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-48n17w16-a3			
(0)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC:6 (A)
2				Total Number of Dominant
3	0			Species Across All Strata:6(B)
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)		- Total Core		0BL speci es60 x 1 =60
1 _ Salix interior	10	✓	FACW	FACW species 70 x 2 = 140
2. Salix bebbiana	20	✓	FACW	
3	0			FAC species $0 \times 3 = 0$
4				FACU species $0 \times 4 = 0$
5				UPL speci es $0 \times 5 = 0$
6				Column Totals: <u>130</u> (A) <u>200</u> (B)
-				Dravalance Index P/A 1 530
7		= Total Cove		Prevalence Index = B/A = 1.538
Herb Stratum (Plot size: 5	30 =	- TOLAT COVE	1	Hydrophytic Vegetation Indicators:
A Colomo amonto com ademoto	30	✓	OBL	Rapid Test for Hydrophytic Vegetation
O. Objection to account the same		✓	FACW	✓ Dominance Test is > 50%
		✓		✓ Prevalence Index is ≤3.0 ¹
3. Solidago gigantea			FACW	Morphological Adaptations ¹ (Provide supporting
4. Scirpus atrovirens		✓	OBL	data in Remarks or on a separate sheet)
5. Scirpus cyperinus			OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7	0			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		$\overline{\Box}$		
	-	= Total Cove	-	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 5.25 it (iiii) 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	•	
				Hydrophytic
				Vegetation Present? Yes No
				Present? Yes No V
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: w-48n17w16-a3

Depth	Matrix			dox Features		-	
(inches)	Color (moist)	<u> </u>	olor (moist)		Loc2	Texture	Remarks
						-	
		-	-				
		-					
1 Type: C=Con	centration D-Denletion	RM-Reduced Ma	atrix CS=Covere	ed or Coated Sand Gra	ins 21 oca	ation: PL=Pore Lining. M=Ma	atriy
Hydric Soil		Tivi – Reddeed Wie	311 IX, 00 - 00 VOI 0	or or oddied odna ord			
				C ((CO) (I DD D		Indicators for Proble	ematic Hydric Soils:
Histosol (•		MLRA 149B)	v Surface (S8) (LRR R		2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		,	ace (S9) (LRR R, MLR	A 149R)	Coast Prairie Redox	x (A16) (LRR K, L, R)
Black His				Mineral (F1) LRR K, L)		5 cm Mucky Peat of	r Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed I			☐ Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)					Polyvalue Below Su	ırface (S8) (LRR K, L)
_	Below Dark Surface (A11)		Depleted Matrix			Thin Dark Surface	(S9) (LRR K, L)
Thick Dar	k Surface (A12)		Redox Dark Sur				asses (F12) (LRR K, L, R)
Sandy Mu	ıck Mineral (S1)		Depleted Dark				in Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)		Redox Depress	ions (F8)) (MLRA 144A, 145, 149B)
Sandy Re	dox (S5)					Red Parent Materia	
Stripped	Matrix (S6)					Very Shallow Dark	
☐ Dark Surf	ace (S7) (LRR R, MLRA 14	19B)				Other (Explain in R	
							emarks)
Indicators o	f hydrophytic vegetation a	ind wetland hydr	ology must be p	resent, unless disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):						
Type:							
Depth (inc	hes):					Hydric Soil Present?	Yes ● No ○
Remarks:							
	n mainlina aativa hurid	ad utilities soil	a accumed by	dria basad on vagat	tation and	hudrologu	
ivo digging o	n mainline, active burie	ea utilities. soii	s assumed ny	unc based on veger	tation and	nyarology.	