WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22			City/County:	Carlton		Samplin	g Date: 18-Sep-17
Applicant/Owner: Enbridge				State: MN	√ San	npling Point:	w-48n17w15-c1
Investigator(s): SMR			Section, To	ownship, Range:	s. 15	T. 48N	R. 17W
Landform (hillslope, terrace, etc.):	Lowland	l		oncave, convex, n		cave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR		Lat.: /	16 38.1236	Long	-92 28.4	4477	Datum: NAD 83
Soil Map Unit Name: 355E					-	classification:	N/A
Are climatic/hydrologic conditions	an the site ty	=:==! for this time of vo	Ye	s • No O		lain in Remarks	
Are Vegetation . , Soil .	on the site ty , or Hydrol		y disturbed?			iain in Kemarks ices" present?	Yes No
	•		•			-	
Are Vegetation, Soil	, or Hydrol			•	-	answers in Rer	•
Summary of Findings - A			ampling p	oint location	is, transc	ects, impoi	tant reatures, etc
Hydrophytic Vegetation Present?	Yes	No O	Ts the	Sampled Area			
Hydric Soil Present?	Yes •	No O		n a Wetland?	Yes 💿	No O	
Wetland Hydrology Present?	Yes 💿	No O					
Remarks: (Explain alternative pr	ocedures here	or in a separate report	t.)				
No digging on mainline. potential	buried utilitie	es.					
Hydrology							
Wetland Hydrology Indicators:					Secondary I	ndicators (minim	um of 2 required)
Primary Indicators (minimum of o	ne required;	check all that apply)				Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leav	res (B9)		Drainag	ge Patterns (B10)	
☐ High Water Table (A2)		Aquatic Fauna (B13	, ,			rim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				ason Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide O				n Burrows (C8)	, ,
Sediment Deposits (B2)		Oxidized Rhizosphe		Roots (C3)		ion Visible on Aeı	rial Imagery (C9)
Drift deposits (B3)		Presence of Reduce		,,,,		d or Stressed Plan	
Algal Mat or Crust (B4)		Recent Iron Reduct		s (C6)		rphic Position (D2	, ,
☐ Iron Deposits (B5)		Thin Muck Surface		- ()	Shallow	/ Aquitard (D3)	•
Inundation Visible on Aerial Image	ery (B7)	Other (Explain in Re	•			pographic Relief	(D4)
Sparsely Vegetated Concave Surfa	•	United (Explain in Re	emarks)			utral Test (D5)	(- ')
_ , , ,	. ,					(,	
Field Observations:) (a)						
Surface Water Present? Yes		Depth (inches):	0				
Water Table Present? Yes	○ No ●	Depth (inches):	0	Matle and Dead	ualamı Duasa	ent? Yes	No O
Saturation Present? (includes capillary fringe) Yes	○ No ●	Depth (inches):	0	Wetland Hydi	rology Prese	ent? Tes 🤇	
Describe Recorded Data (stream of	gauge, monito	oring well, aerial photos	s, previous ins	pections), if avai	lable:		
	, ,		•				
Remarks:							

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pla	Sampling Point: w-48n17w15-c1			
(District 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:3(A)
2	0			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: 100.0% (A/B)
6				That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		= Total Cove		Total % Cover of: Multiply by:
1 Salix petiolaris	20	✓	FACW	0BL speci es 30 x 1 = 30
2				FACW species 90 x 2 = 180
3				FAC speciles x 3 =
4				FACU species0 x 4 =0
5				UPL species $0 \times 5 = 0$
6		\Box		Column Total s: 120 (A) 210 (B)
		\Box		
7		- Total Cava		Prevalence Index = B/A = 1.750
Herb Stratum (Plot size: 5	=	= Total Cove		Hydrophytic Vegetation Indicators:
1 Phalaris arundinacea	70	✓	FACW	Rapid Test for Hydrophytic Vegetation
0.01		<u>~</u>	OBL	✓ Dominance Test is > 50%
			OBL	✓ Prevalence Index is ≤3.0 ¹
3				☐ Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				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
l1	0			at breast height (DBH), regardless of height.
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	100 =	= Total Cove	•	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
1	0			height.
T.,	0 =	= Total Cove		3
		- rotal core		
				Hydrophytic
				Present? Yes No ○
Domayler (Tuelindo mbeto mumbove boye ov on a consuste ch	\			
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: w-48n17w15-c1

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	
No digging o	n mainline, active burie	ea utilities. soii	s assumed ny	unc based on veger	tation and	nyarology.	