WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County:	Carlton	Sampli	ng Date: 15-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-48n17w8-a1
Investigator(s): SMR	Section, 1	ownship, Range: S. 8	T. 48N	R. 17W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none):	concave	Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K	Lat.: 46 39.5879	Long.: -92	2 31.9503	Datum: NAD 83
Soil Map Unit Name: 533			WI classification:	PSS1B
Are Vegetation , Soil , or Hydrology natu Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No	urally problematic? ing sampling p	• • •	any answers in Re ansects, impo	-
Hydric Soil Present?Yes Yes Yes No 		e Sampled Area in a Wetland? Yes	● _{No} ○	
Remarks: (Explain alternative procedures here or in a separat No digging on mainline, active buried utilities.	e report.)			

Hydrology

Wetland Hydrology Indicators:							
1 51	ateration in a line to a sect A	Secondary Indicators (minimum of 2 required)					
Primary Indicators (minimum of one requ		Surface Soil Cracks (B6)					
Surface Water (A1)	Water-Stained Leaves (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 Odor (C1)	Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)					
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	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:							
	Depth (inches): 3						
Water Table Present? Yes • No	Depth (inches): 0	vdroloav Present? Yes 💿 No 🖯					
Saturation Present? Yes • No (includes capillary fringe)	Depth (inches): 0	ydrology Present? Yes 🔍 No 🔾					
Describe Recorded Data (stream gauge, i	monitoring well, aerial photos, previous inspections), if a	vailable:					
Remarks:							

VEGETATION - Use scientific names of plants

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	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	0			Species Across All Strata: <u>2</u> (B)
4	0			
5	0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
6	0			
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	=	Total Cover		Total % Cover of: Multiply by:
	0			OBL species x 1 =90
1				FACW species 10 x 2 =20
2				FAC species $0 \times 3 = 0$
3				FACU species $0 \times 4 = 0$
4				UPL species x 5 =
5				Column Totals:100 (A)110 (B)
6				
7				Prevalence Index = B/A = <u>1.100</u>
Herb Stratum (Plot size: 5)	=	Total Cover		Hydrophytic Vegetation Indicators:
	60	\checkmark	OBL	Rapid Test for Hydrophytic Vegetation
		✓	OBL	✓ Dominance Test is > 50%
	10		FACW	✓ Prevalence Index is ≤3.0 1
			OBL	Morphological Adaptations ¹ (Provide supporting
				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				
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
2	0			size, and woody plants less than 3.28 ft tall.
3	0			
л	0			Woody vine - All woody vines greater than 3.28 ft in height.
4	0 =	Total Cover		
				Hydrophytic
				Vegetation Present? Yes • No ·
				Fresent:
Remarks: (Include photo numbers here or on a separate she	et.)			

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

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	ription: (Describe to t	he depth ne				nfirm the a	bsence of indicators.)	
Depth (inches)	Matrix			lox Featur			-	Demostra
(inclies)	Color (moist)		Color (moist)		Type ¹	Loc ²	Texture	Remarks
							-	·
				·				
		·						
¹ Type: C=Cor	ncentration. D=Depletion	. RM=Reduce	d Matrix, CS=Covere	ed or Coate	d Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=N	latrix
Hydric Soil	Indicators:						Indiantors for Drobl	ematic Hydric Soils : ³
Histosol			Polyvalue Belov	v Surface (9	58) (I RR R		_	
_	ipedon (A2)		MLRA 149B)				2 cm Muck (A10)	(LRR K, L, MLRA 149B)
			Thin Dark Surfa	ace (S9) (L	RR R, MLR	A 149B)	Coast Prairie Redo	ox (A16) (LRR K, L, R)
Black His			Loamy Mucky N				5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Gleyed I				Dark Surface (S7)	(LRR K, L, M)
_	Layers (A5)						Polyvalue Below S	urface (S8) (LRR K, L)
Depleted	Below Dark Surface (A1	1)	Depleted Matrix				Thin Dark Surface	
Thick Da	rk Surface (A12)		Redox Dark Su					Aasses (F12) (LRR K, L, R)
Sandy M	uck Mineral (S1)		Depleted Dark	Surface (F7)			
	eyed Matrix (S4)		Redox Depress	ions (F8)				ain Soils (F19) (MLRA 149B)
	edox (S5)							5) (MLRA 144A, 145, 149B)
							Red Parent Materi	
	Matrix (S6)						Very Shallow Dark	Surface (TF12)
Dark Sur	face (S7) (LRR R, MLRA	149B)					🗹 Other (Explain in I	Remarks)
³ Indicators of	of hydrophytic vegetation	and wetland	hydrology must be p	resent, unle	ess disturbe	ed or proble	ematic.	
	.ayer (if observed):							
Туре:							Hydric Soil Present?	Yes 🔍 No 🔾
Depth (ind	ches):						Hydric Soll Present?	Yes 🔍 No 🔾
Remarks:								
	n mainlina, aatiwa hu	riad utilitiaa	collo occurred by	dria basad		ation and	hudrology	
No algging a	n mainline, active bu	neu utilities.	solis assumed ny	unc based	i on vegei	ation and	nyarology.	