WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County	y: Carlton	Sampling	Date: 15-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-48n17w8-a3
Investigator(s): DPT	Section,	, Township, Range: S. 8	T. 48N	R. 17W
Landform (hillslope, terrace, etc.): Mound		(concave, convex, none)		Slope: 5.2 % / 3.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 39.4335	Long.: -	92 31.5862	Datum: NAD 83
Soil Map Unit Name: 355C			NWI classification:	N/A
Are climatic/hydrologic conditions on the site	typical for this time of year?	Yes No (If I	- no, explain in Remarks	.)
Are Vegetation, Soil, or Hydi		-	umstances" present?	Yes ● No ○
Are Vegetation , Soil , or Hydi	ology		in any answers in Ren	narks.)
Summary of Findings - Attach si		, , ,	-	•
Hydrophytic Vegetation Present? Yes	No •			
Hydric Soil Present? Yes	NO S wit	the Sampled Area thin a Wetland?	es O No 💿	
Wetland Hydrology Present? Yes	No •	••••		
No digging, buried utilities.				
Hydrology Wetland Hydrology Indicators:		Sec	ondary Indicators (minimu	um of 2 required)
Primary Indicators (minimum of one require			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	(C3)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	(02)
Sediment Deposits (B2)	Oxidized Rhizospheres along Liv	ing Roots (C3)	Saturation Visible on Aer	ial Imagery (C9)
☐ Drift deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plan	
☐ Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled S	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:				
Surface Water Present? Yes No				
Water Table Present? Yes No	Depth (inches):0		v Present? Yes) No ●
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0	Wetland Hydrolog	y Present? Yes	NO S
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previous	inspections), if available	:	
Remarks:				

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENCING Hames of pla	Sampling Point: u-48n17w8-a3			
(Olas : 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	_species:	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:0(A)
2				Total Number of Dominant
3				Species Across All Strata:
4	0			
5	0			Percent of dominant Species That Are OBL_FACW_or_FAC: 0.0% (A/B)
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	=	= Total Cove	r	Total % Cover of: Multiply by:
1 Pinus strobus	10	✓	FACU	0BL speci es 10 x 1 = 10
2 Populus tremuloides		V	FACU	FACW species x 2 =
				FAC speci es x 3 = 0
3				FACU species x 4 =
4				UPL species $0 \times 5 = 0$
5				Column Totals: 115 (A) 430 (B)
6				
7				Prevalence Index = B/A = 3.739
Herb Stratum (Plot size: 5	15=	= Total Cove	ŗ	Hydrophytic Vegetation Indicators:
	30	✓	FACU	Rapid Test for Hydrophytic Vegetation
• •		✓		☐ Dominance Test is > 50%
2. Phleum pratense			FACU	Prevalence Index is ≤3.0 ¹
3. Calamagrostis canadensis		✓	OBL	Morphological Adaptations ¹ (Provide supporting
4. Rubus idaeus			FACU	data in Remarks or on a separate sheet)
5. <u>Poa pratensis</u>			FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
6				1
7				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	0			at breast height (DBH), regardless of height.
2				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)	100=	= Total Cove	r	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 height.
4				neight.
		= Total Cove	Г	
				Hydrophytic Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate sh	eet)			
Remarks. (Include photo humbers here of on a separate sh	eet.)			

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

Soil Sampling Point: u-48n17w8-a3

Depth	Matrix			dox Features		-	
(inches)	Color (moist)	<u> </u>	olor (moist)	<u>% Type</u> 1	Loc2	Texture	Remarks
						-	
			-				
Tuno: C Con	econtration D Donlation	DM Podusod M	atrix CS Covers	od or Coated Sand Cra	ins 21 oco	ation: PL=Pore Lining. M=Ma	striv
		KIVI=Reduced IVI	atrix, C3=C0Vere	ed of Coated Saild Gra	IIIS -LUCA		
Hydric Soil 1		_	1	0 ((00) (100 0		Indicators for Proble	matic Hydric Soils: 3
Histosol (L	Polyvalue Belov MLRA 149B)	w Surface (S8) (LRR R	•	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		,	ace (S9) (LRR R, MLR	A 149B)	Coast Prairie Redox	(A16) (LRR K, L, R)
Black Hist				Mineral (F1) LRR K, L)	,	5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed I			Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)	<u> </u>	Depleted Matrix				rface (S8) (LRR K, L)
	Below Dark Surface (A11)	,	Redox Dark Sui			Thin Dark Surface	(S9) (LRR K, L)
	k Surface (A12)		Depleted Dark			☐ Iron-Manganese M	asses (F12) (LRR K, L, R)
	uck Mineral (S1)		Redox Depress			Piedmont Floodplai	n Soils (F19) (MLRA 149B)
	eyed Matrix (S4)	_	, riodox Bop. oos	.0.13 (1.0)		Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)
Sandy Re						Red Parent Materia	l (F21)
	Matrix (S6)	>				Very Shallow Dark	Surface (TF12)
☐ Dark Surf	face (S7) (LRR R, MLRA 14	19B)				Other (Explain in R	emarks)
³ Indicators o	f hydrophytic vegetation a	and wetland hyd	rology must be p	resent, unless disturb	ed or proble	ematic.	
Restrictive L	ayer (if observed):						
Type:	, , ,						
Depth (inc	:hes):					Hydric Soil Present?	Yes O No 💿
Remarks:			-				
No digging,	buried utilities. Soils a	ssumed non-h	nydric based or	n vegetation and hy	drology.		