WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/Co	ounty: Carlton	Sampli	ng Date: 15-Sep-17
Applicant/Owner: Enbridge			State: MN	Sampling Point:	w-48n17w8-b3
Investigator(s): SMR		Sec	tion, Township, Range:	s. 8 t. 48N	R. 17W
Landform (hillslope, terrace, o	etc.): Lowland		elief (concave, convex, n		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA):	LRR K	Lat.: 46 39.3	3344 Long	-92 31.4082	Datum: NAD 83
Soil Map Unit Name: 355C				NWI classification:	N/A
Are climatic/hydrologic condi	itions on the site ty	pical for this time of year?	Yes ● No ○	— (If no, explain in Remark	s.)
Are Vegetation, Soil			rbed? Are "Normal	Circumstances" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrolo	ogy naturally problema	atic? (If needed,	explain any answers in Re	marks.)
_ ,		map showing sampl	,	•	•
Hydrophytic Vegetation Pres	sent? Yes •	No O			
Hydric Soil Present?	Yes ●	No O	Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present?	Yes •	No O	Within a Fredama.		
Remarks: (Explain alternati	ive procedures here	or in a separate report.)			
Hydrology					
Wetland Hydrology Indicato	ors;			Secondary Indicators (minin	our of 2 required)
Primary Indicators (minimus		check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)	111 01 01.0 104	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	e (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C1))	Crayfish Burrows (C8)	3 (02)
Sediment Deposits (B2)		Oxidized Rhizospheres alon		Saturation Visible on Ae	erial Imagery (C9)
Drift deposits (B3)		Presence of Reduced Iron (Stunted or Stressed Pla	• • •
☐ Algal Mat or Crust (B4)		Recent Iron Reduction in Ti		Geomorphic Position (D	• •
☐ 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	e Surface (B8)			✓ FAC-neutral Test (D5)	
Field Observations:					
	Yes O No 💿	Depth (inches): ()		
	Yes ● No ○	Depth (inches):1			
Saturation Present?	Yes No	Depth (inches): 2	Wetland Hydi	rology Present? Yes	● No ○
(includes capillally fringe)				اعاما.	
Describe Recorded Data (Sir	eam gauge, monic	oring well, aerial photos, previ	ious inspections), ii avai	iable:	
Remarks:					

VEGETATION - Use scientific names of plants

VEGETATION - USE Scientific fiamles of pia	ants			Sampling Point: w-48n17w8-b3		
(2)	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:4 (A)		
2	0			T		
3				Total Number of Dominant Species Across All Strata: 4 (B)		
4				Species rioress riii ettata.		
5				Percent of dominant Species		
				That Are OBL, FACW, or FAC:100.0% (A/B)		
6						
7				Prevalence Index worksheet:		
Sapling/Shrub Stratum (Plot size: 15)	=	= Total Cove	r	Total % Cover of:		
1 Alnus incana	60	✓	FACW			
2. Salix petiolaris	20	<u></u>	FACW	FACW species <u>110</u> x 2 = <u>220</u>		
3	-			FAC speci es x 3 = 60		
				FACU species x 4 =0		
4				UPL species $0 \times 5 = 0$		
5				Column Totals: 140 (A) 290 (B)		
6				Column local S. 140 (A) 270 (-7		
7				Prevalence Index = B/A = 2.071		
Herb Stratum (Plot size: 5	80 = Total Cover		r	Hydrophytic Vegetation Indicators:		
	10		OBL	Rapid Test for Hydrophytic Vegetation		
1. Calamagrostis canadensis			OBL	✓ Dominance Test is > 50%		
2. Phalaris arundinacea	30	✓	FACW	Prevalence Index is ≤3.0 ¹		
3. Equisetum arvense		✓	FAC	Morphological Adaptations ¹ (Provide supporting		
4	0			data in Remarks or on a separate sheet)		
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)		
6						
7				¹ Indicators of hydric soil and wetland hydrology must		
		Ē		be present, unless disturbed or problematic.		
8				Definitions of Vegetation Strata:		
9						
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1	0			at breast height (DBH), regardless of height.		
2	0			Sapling/shrub - Woody plants less than 3 in. DBH and		
Woody Vine Stratum (Plot size: 30)	60=	= Total Cove	r	greater than 3.28 ft (1m) tall		
1	0			Herb - All herbaceous (non-woody) plants, regardless of		
				size, and woody plants less than 3.28 ft tall.		
2						
3				Woody vine - All woody vines greater than 3.28 ft in		
4				height.		
	0 =	= Total Cove	r			
				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: w-48n17w8-b3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth		Matrix				dox Featu			_		
(inches)	Color (moist)	%	Color (m	oist)	%	Type ¹	Loc2	Texture	Remarks	
0-6	10YR	2/1	100						Muck		
6-20	10YR	4/2	90	10YR	4/6	10	С	М	Sandy Loam		
									-		
									-		
	-	-	-				-				
		-									
			-								
			-								
1 Tumo. C. Com		Donlotio	n DM Doo	Lucad Matrix, CC	Cover	and or Coot	ad Cand Cr	roine 21 oos	ation. DL Doro Lining M M	atrix	
		=Depletio	n. Rivi=Red	luced Matrix, CS	=cover	ed or Coate	eu Sanu Gr	airis -Loca	ation: PL=Pore Lining. M=M		
Hydric Soil				□ 5 · · ·			(00) (1 == =	5	Indicators for Proble	ematic Hydric Soils: 3	
Histosol (Polyval MLRA 1		w Surface	(S8) (LRR I	₹,	2 cm Muck (A10)	(LRR K, L, MLRA 149B)	
	pedon (A2)				,	ace (S9) (LRR R. MLF	RA 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)	
Black His						Mineral (F1			5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	Sulfide (A4)				-	Matrix (F2)		,	Dark Surface (S7) (LRR K, L, M)		
	Layers (A5)			✓ Deplete			,		Polyvalue Below Surface (S8) (LRR K, L)		
	Below Dark S		11)			urface (F6)			☐ Thin Dark Surface (S9) (LRR K, L)		
	rk Surface (A					Surface (F	7)		☐ Iron-Manganese M	lasses (F12) (LRR K, L, R)	
	uck Mineral (S					sions (F8)	• •		Piedmont Floodpla	in Soils (F19) (MLRA 149B)	
	eyed Matrix (S4)		Redox	Боргоз.	310113 (1 0)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
Sandy Re									Red Parent Material (F21)		
	Stripped Matrix (S6)						☐ Very Shallow Dark Surface (TF12)				
☐ Dark Surf	face (S7) (LRI	R R, MLRA	(149B)						Other (Explain in F	Remarks)	
³ Indicators o	f hydrophytic	vegetatio	n and wetla	and hydrology m	ust be	present, un	less disturl	bed or probl	ematic.		
Restrictive L											
Type:	.uyc. (055	c. rea j.									
Depth (inc	hos).								Hydric Soil Present?	Yes No	
•	es)										
Remarks:											