WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22			City/County:	Carlton		Samplin	g Date: 15-Sep-17
Applicant/Owner: Enbridge				State: MN	Si	ampling Point:	w-48n17w7-a1
Investigator(s): DPT			Section, To	ownship, Range:	s. 7	T. 48N	R. 17W
Landform (hillslope, terrace, etc.):	owland.			oncave, convex, n		oncave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K		Lat.: 4	16 39.5636	Long	— 92 3: -92	2.0110	Datum: NAD 83
Soil Map Unit Name: 274					NW	I classification:	N/A
Are climatic/hydrologic conditions on	the site tyr	sical for this time of ve	ar? Ye	s • No O	— (If no. ex	oplain in Remarks	:)
	or Hydrolo		y disturbed?		• •	ances" present?	Yes No
	-	_	•			•	
Are Vegetation, Soil	or Hydrolo				-	ny answers in Ren	•
Hydrophytic Vegetation Present?		No O		onit location	s, cian	sects, illipoi	tant reatures, etc
		No O	Is the	Sampled Area	G		
Hydric Soil Present?		No O	within	n a Wetland?	Yes 🖲	No 🔾	
Wetland Hydrology Present?							
Remarks: (Explain alternative proce Road ditch. No digging, potential b		-	τ.)				
110dd ditain 110 digging, p-11	ui.ou						
Hydrology							
Wetland Hydrology Indicators:					Secondar	y Indicators (minim	um of 2 required)
Primary Indicators (minimum of one	required:	check all that apply)				ace Soil Cracks (B6)	uni or 2 required)
Surface Water (A1)		Water-Stained Leav	res (B9)			nage Patterns (B10)	
☐ High Water Table (A2)		Aquatic Fauna (B13	, ,		_	Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)			Dry S	Season Water Table	(C2)
☐ Water Marks (B1)		Hydrogen Sulfide O	dor (C1)		Cray	fish Burrows (C8)	
Sediment Deposits (B2)		Oxidized Rhizosphe		Roots (C3)	Satur	ration Visible on Aer	rial Imagery (C9)
☐ Drift deposits (B3)		Presence of Reduce	ed Iron (C4)		Stun	ted or Stressed Plar	nts (D1)
☐ Algal Mat or Crust (B4)		Recent Iron Reduct	ion in Tilled Soil	s (C6)	✓ Geor	norphic Position (D2	2)
Iron Deposits (B5)		Thin Muck Surface	(C7)		Shall	ow Aquitard (D3)	
Inundation Visible on Aerial Imagery	(B7)	Other (Explain in Re	emarks)		Micro	otopographic Relief	(D4)
Sparsely Vegetated Concave Surface	(B8)				✓ FAC-	neutral Test (D5)	
Field Observations:							
Surface Water Present? Yes	No 💿	Depth (inches):	0				
Water Table Present? Yes	No 💿	Depth (inches):	0			_	
Saturation Present? (includes capillary fringe) Yes	No •	Depth (inches):	0	Wetland Hydr	ology Pre	esent? Yes	No O
Describe Recorded Data (stream gau	ige, monito	ring well, aerial photos	s, previous ins	pections), if avail	able:		
Deconice recorded Data (et. cam gae	.go,o	g, aona. po.o.	5, p. 61.6466	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a.z		
Remarks:							

VEGETATION - Use scientific names of plants

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(Dist. size. 20	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:3 (A)
2	0			Total Number of Deminent
3	0			Total Number of Dominant Species Across All Strata: 3 (B)
4				
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 Cove	ı	0BL species x 1 =0_
1 Salix petiolaris	5	✓	FACW	
2. Alnus Incana	5	<u></u>	FACW	FACW species 110 x 2 = 220
3	-			FAC speci es
4				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6.				Column Totals: 110 (A) 220 (B)
7				Prevalence Index = B/A = 2.000
Herb Stratum (Plot size: 5	10=	= Total Cove	r	Hydrophytic Vegetation Indicators:
	100		EA CVA/	Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea		✓	FACW	✓ Dominance Test is > 50%
2				✓ Prevalence Index is ≤3.0 ¹
3				Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2.				
Z.,		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30		- Iotai 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			N/andraine Allegandraine and the first Confidence
4	0			Woody vine - All woody vines greater than 3.28 ft in height.
4		- Total Cava		neight.
	=	= Total Cove	Г	
				History
				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-48n17w7-a1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (inches)	Matrix			dox Features	1				
(inches)	Color (moist)		Color (moist)	% Type	1 Loc2	Texture	Remarks		
			-						
			-			-			
¹ Type: C=Con	centration. D=Depletion	n. RM=Reduce	d Matrix, CS=Cover	ed or Coated Sand (tion: PL=Pore Lining. M=Ma	ıtrix		
	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³								
Histosol (Polyvalue Belo	w Surface (S8) (LRR	? R.				
	pedon (A2)		MLRA 149B)		,		LRR K, L, MLRA 149B)		
Black Hist			☐ Thin Dark Surf	ace (S9) (LRR R, M	LRA 149B)		(A16) (LRR K, L, R)		
	Sulfide (A4)		Loamy Mucky	Mineral (F1) LRR K,	L)		r Peat (S3) (LRR K, L, R)		
	Layers (A5)		Loamy Gleyed	Matrix (F2)		Dark Surface (S7)			
	Below Dark Surface (A1	1)	Depleted Matri	x (F3)			rface (S8) (LRR K, L)		
	k Surface (A12)	,	Redox Dark Su	rface (F6)		Thin Dark Surface (
	ick Mineral (S1)		□ Depleted Dark	Surface (F7)			asses (F12) (LRR K, L, R)		
	eyed Matrix (S4)		Redox Depress	sions (F8)			n Soils (F19) (MLRA 149B)		
Sandy Re							(MLRA 144A, 145, 149B)		
	Matrix (S6)					Red Parent Materia	, ,		
	ace (S7) (LRR R, MLRA	149B)				Very Shallow Dark			
						✓ Other (Explain in Re	emarks)		
Indicators o	f hydrophytic vegetation	and wetland	hydrology must be p	oresent, unless distu	irbed or proble	ematic.			
Restrictive L	ayer (if observed):								
Type:									
Depth (inc	hes):					Hydric Soil Present?	Yes ● No ○		
Remarks:									
No diaaina, r	otential buried utilitie	es. Soils ass	sumed hydric base	ed on vegetation	and hydrolog	1V.			
35 3, 1			, , , , , , , , , , , , , , , , , , ,		J	,,			