WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Main L3R ESC		City/County:	Carlton	Sampli	Sampling Date: 19-Sep-17	
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-48n16w29-yy1		
Investigator(s): DPT		Section, T	ownship, Range: S. 29	T. 48N	R. 16W	
Landform (hillslope, terrace, etc.): Shoulder slope	Local relief (c	oncave, convex, none):	convex	Slope: 5.2 % / 3.0 °	
Subregion (LRR or MLRA): LR	RK Lat.:	46 36.5599	Long.: -92	2 23.1732	Datum: NAD 83	
Soil Map Unit Name: 188		-		WI classification:	N/A	
Are Vegetation, Soil Summary of Findings -	Attach site map showing	problematic? sampling p		any answers in Re ansects, impo		
Hydrophytic Vegetation Present Hydric Soil Present?		Is the	- Complet Area	○ _{No} ●		
	procedures here or in a separate rep	ort.)				
No digging, potential buried ut	ilities, road shoulder.					

Hydrology

Wetland Hydrology Indicators:				
1 57	Secondary Indicators (minimum of 2 required)			
Primary Indicators (minimum of one required;	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:				
Surface Water Present? Yes O No O	Depth (inches): 0			
Water Table Present? Yes O No O	Depth (inches):0	drology Present? Yes 🔿 No 🖲		
Saturation Present? (includes capillary fringe) Yes O No •	Depth (inches): 0	drology Present? Yes 🔾 No 🖲		
Describe Recorded Data (stream gauge, monito	pring well, aerial photos, previous inspections), if ava	illable:		
Remarks:				

VEGETATION - Use scientific names of plants

VEGETATION - Use sciencific names of plan	115			Sampling Point: u-48n16w29-yy1
	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>3</u> (B)
4				Demont of dominant Species
5				Percent of dominant Species That Are OBL, FACW, or FAC:0.0%(A/B)
6				
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cover		Total % Cover of: Multiply by:
1	0			0BL species <u>0</u> x 1 = <u>0</u>
2	0			FACW species $0 \times 2 = 0$
3	-			FAC species $0 \times 3 = 0$
4	_			FACU species <u>90</u> x 4 = <u>360</u>
5	-			UPL speci es 10 x 5 = 50
6				Column Totals: <u>100</u> (A) <u>410</u> (B)
7	-			Prevalence Index = $B/A = 4.100$
		Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5)				Rapid Test for Hydrophytic Vegetation
1. Trifolium pratense	30	\checkmark	FACU	Dominance Test is > 50%
2. Taraxacum officinale	20		FACU	Prevalence Index is $\leq 3.0^{1}$
3. Trifolium repens	10		FACU	Morphological Adaptations 1 (Provide supporting
4. Plantago major	10		FACU	data in Remarks or on a separate sheet)
5. Tanacetum vulgare	20		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
6. Bromus Inermis	10		UPL	
7	0			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
9	0			Definitions of Vegetation Strata:
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
11	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: <u>30</u>)	100 =	Total Cover		greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1	0			size, and woody plants less than 3.28 ft tall.
2 3	0			
3	0			Woody vine - All woody vines greater than 3.28 ft in height.
4	-	Total Cover		noight.
				Hydrophytic
				Vegetation Present? Yes O No 🔍
Remarks: (Include photo numbers here or on a separate she	et)			
	cuy			

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

US Army Corps of Engineers

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix			dox Featu			·	
(incres)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-								
				-				
¹ Type: C=Con	centration. D=Depletion. R	M=Reduced I	Matrix, CS=Covere	ed or Coate	d Sand Gra	ins ² Loca	ition: PL=Pore Lining. M=M	atrix
Hydric Soil	•							
Histosol (Г	Polyvalue Belov	N Surfaco (C0) (I DD D		Indicators for Proble	ematic Hydric Soils : ³
	pedon (A2)	L	MLRA 149B)			1	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Black Hist			Thin Dark Surfa	ace (S9) (L	.RR R, MLR	A 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)
_		Г	Loamy Mucky I				5 cm Mucky Peat of	or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)	Γ	Loamy Gleyed				Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)		Depleted Matri				Polyvalue Below S	urface (S8) (LRR K, L)
	Below Dark Surface (A11)	Г	Redox Dark Su				Thin Dark Surface	(S9) (LRR K, L)
	rk Surface (A12)	Г	Depleted Dark		7)		Iron-Manganese M	lasses (F12) (LRR K, L, R)
	uck Mineral (S1))		Piedmont Floodpla	in Soils (F19) (MLRA 149B)
Sandy Gle	eyed Matrix (S4)	L	Redox Depress	1011S (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re							Red Parent Materia	
Stripped	Matrix (S6)						Very Shallow Dark	Surface (TF12)
Dark Surf	face (S7) (LRR R, MLRA 14	9B)					Other (Explain in F	
³ Indicators o	f hydrophytic vegetation ar	nd wetland hy	drology must be r	resent un	ass disturb	ed or proble		
		ia wettana ny		nesent, un				
Restrictive L	ayer (if observed):							
Туре:								Yes 🔿 No 🖲
Depth (inc	hes):						Hydric Soil Present?	Yes 🔾 No 🖲
Remarks:								
	potential buried utilities.	Soils assu	med non-hydric	hased on	venetatio	n and hyd	trology	
No digging, p		JUII3 03301	neu non-nyunc	based on	vegetatio	ni anu nyu	nology.	