WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/30/14	
Applicant:	Enbridge										County:	Red Lake	
Investigators					Subregion (MLRA or LRR): MLRA 56							MN	
Soil Unit:	138A							I Classification:	PSS1C				
Landform:	Dip				Loo	cal Relief:					Sample Point	w-151n42w5-h1	
Slope (%):	3 - 7%		Latitude: 47.			Longitude:			Datum:				
		nditions on the site				Ir? (If no, exp			⊡Yes	D No	Section:		
Are Vegetation	on 🖵 Soil	🖵 or Hydrology					Are	e normal circun	•	esent?	Township:		
Are Vegetation		🖵 or Hydrology	☐aturally p	problema	itic?			Yes	□No		Range:	Dir:	
SUMMARY OF FINDINGS													
Hydrophytic			Yes	;						Is Present?			
					Yes			Is This Sampling Poin					
Remarks:		I is located in a ha	rdwood swa	amp dom	inated	by quakin	ig aspen	and balsam po	oplar. The g	roundcover	r is dominated	by sedges and red	l-osier
	dogwood.												
HYDROLOG	Y												
Wetland Hy	drology Ind	icators (Check all	that apply;	Minimum	n of on	e primary	or two s	econdary requi	red):				
Primary		,	11.57			. ,		, ,	,	Secondary:	<u>.</u>		
	A1 - Surface Water					B11 - Salt					B6 - Surface S		
	A2 - High Wa					B13 - Aqua						Vegetated Concave Su	irface
	A3 - Saturatio B1 - Water M					C1 - Hydro C2 - Dry So						e Patterns Rhizospheres on Living	Roots (tilled)
	B2 - Sedimen							spheres on Living	Roots (not till				
	B3 - Drift Dep	osits				C4 - Prese						n Visible on Aerial Imag	jery
~	B4 - Algal Ma				_	C7 - Thin N		ace		1			
	B5 - Iron Dep					Other (Exp	lain)				D5 - FAC-Neu		
	B7 - Inundatio B9 - Water-Si	n Visible on Aerial Im	lagery								D7 - Frost-Hea	aved Hummocks (LRR	F)
Field Observ	vations												
Surface Wate		Yes 🛛	Do	th:		(in.)							
Water Table		Yes		oth:					Wetland H	lydrology	Present?	Y	
				oth:								—	
Saturation Present? Yes Depth: (in.)													
		tream gauge, moni				-							
Describe Reco Remarks:		tream gauge, moni the wetland have				-			WS.				
Remarks:						-			WS.				
Remarks: SOILS	Areas within	the wetland have	algal mats	present	throug	hout the lo	ower dep	ressional hollo					
Remarks: SOILS Profile Descri	Areas within	the wetland have	e algal mats	present	through ne india	hout the lo	ower dep	e absence of ir	dicators.)				
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Remarks: SOILS Profile Descri	Areas within	the wetland have be to the depth ne	e algal mats	present	through ne india	hout the lo	onfirm th	e absence of ir ore Lining, M=Matr	dicators.)				
Remarks: SOILS Profile Descri (Type: C=Concer	Areas within	the wetland have be to the depth ne etion, RM=Reduced Ma Matrix	eded to doo	present cument thered/Coated	throug ne indio d Sand (hout the lo cator or co Grains; Loca	ower dep onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Matr	ndicators.) ix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Areas within	the wetland have be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to doo atrix, CS=Cove	cument thered/Coated	through ne india	hout the lo cator or co Grains; Loca	onfirm th	e absence of ir ore Lining, M=Matr	dicators.)	Texture		Remarks	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-151n42w5-h1			
VEOETATION								
VEGETATION	N (Species identified in all uppercase are Plot size: 30 ft. radius)	e non-native	e species.)					
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.	Populus tremuloides	35	Y	FAC				
2.	Populus balsamifera	30	Y	FACW	Number of Dominant Species that are OBL, FACW, or FAC: 6 (A)			
3.	Quercus macrocarpa	10	N	FACU	(
4.	·				Total Number of Dominant Species Across All Strata: 6 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 65 x 1 = 65			
	Total Cover =	75			FACW spp. 60 x 2 = 120			
					FAC spp. 45 X 3 = 135			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 10 x 4 = 40			
1.	Cornus alba	10	Y	FACW	UPL spp. 0 x 5 = 0			
2.	Cornus racemosa	10	Y	FAC				
3.					Total <u>180</u> (A) <u>360</u> (B)			
4.								
5.					Prevalence Index = B/A = 2.000			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover =	20			<u>X</u> Prevalence Index is \leq 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Carex lacustris	45	Y	OBL				
2.	Carex pellita	20	Y	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Carex sartwellii	10	N	FACW	present, unless disturbed or problematic.			
4.	Equisetum pratense	5	N	FACW	Definitions of Vegetation Strata:			
5.	Rubus pubescens	5	N	FACW				
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.					height (DBH), regardless of height.			
8.								
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.					Marcal Marca Allana decidera decentrativa			
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	85	_					
	atum (Plot size: 30 ft. radius)							
1.	<u> </u>							
2.	l							
3.	ļ				Hydrophytic Vegetation Present? Y			
5.								
4.								
Domortica	Total Cover =	0	oloom nor	lor The -	round lower is deminated by address mainly lake service and weathy service			
Remarks:	The tree stratum is dominated by quaking as	pen and b	aisain pop	nar. i ne g	round layer is dominated by sedges; mainly lake sedge and woolly sedge.			
Additional R	emarks:							