## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/14/14						
Applicant:		Enbridge								County:	Red Lake						
Investigators		KRG/BCS			Subregio		or LRR):	MLRA 56		State:	MN						
Soil Unit:	159A						Classification	:									
Landform:	Rise				cal Relief:			<u> </u>		Sample Poin	t: u-151n42w24-o1						
Slope (%):	0 - 2%		Latitude: 47.881			-95.9733		Datum:									
		onditions on the site			ar? (If no, exp			⊡Yes		Section:							
Are Vegetati		Or Hydrology				Are	normal circun		esent?	Township:	5.						
Are Vegetati		I D or Hydrology		piematic?			🖻 fes	□No		Range:	Dir:						
SUMMARY (								Liberaturita Orali		NIE							
Hydrophytic '			No					Hydric Soils Present? No Is This Sampling Point Within A Wetland? No									
Wetland Hyd Remarks:			No No	ordurood fo	root oomn	ounity dou	minotod by au				/etland? No a goldenrod, and yellow av	(0.00					
Remarks.	The upland	sample point is io	icated within a r		rest comm		minated by qu	aking asper	i, gray uogv	voou, Canau	a goldenrou, and yellow av	ens.					
	V																
HYDROLOG																	
-		icators (Check all	I that apply; Min	imum of on	e primary	or two se	econdary requi	red):									
Primary		Mator		_		Cruct			Secondary:	B6 - Surface	Soil Crooke						
	A1 - Surface A2 - High Wa				B11 - Salt B13 - Aqua												
	A3 - Saturatio				C1 - Hydro		e Odor		ă	<ul> <li>B8 - Sparsely Vegetated Concave Surface</li> <li>B10 - Drainage Patterns</li> </ul>							
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots	(tilled)					
	B2 - Sedimen						pheres on Living	Roots (not till									
	B3 - Drift Dep B4 - Algal Ma			_	C4 - Prese C7 - Thin M					D2 - Geomor	on Visible on Aerial Imagery						
	B5 - Iron Dep				Other (Exp					D5 - FAC-Ne							
	B7 - Inundatio	on Visible on Aerial Im	nagery	_		,				D7 - Frost-He	aved Hummocks (LRR F)						
	B9 - Water-S	tained Leaves															
Field Obser																	
	er Present?	_	Depth:		(in.)			Wetland H	lydrology	Present?	Ν						
Water Table		Yes 🔲							.,		<u> </u>						
Saturation P	resent?	Yes 🛛	Depth:		(in.)		Saturation Present? Yes Depth: (in.)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																	
Describe Rec	orded Data (s	stream gauge, moni	itoring well, aeria	al photos, pr	evious insp	pections),	if available:										
Describe Rec Remarks:		stream gauge, moni or secondary indic	-			-	if available:										
Remarks:			-			-	if available:										
Remarks: SOILS	No primary	or secondary indic	cators of wetlan	d hydrology	were obs	erved.											
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetlan	d hydrology	were obs	onfirm the	e absence of ir										
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Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetlan	d hydrology	were obs	onfirm the	e absence of ir ore Lining, M=Mate										
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indic ibe to the depth ne etion, RM=Reduced M Matrix	cators of wetlan	d hydrology nent the indi Coated Sand	cator or co Grains; Loca	erved. Onfirm the tion: PL=Pc Mottle	e absence of ir ore Lining, M=Matr	rix)	Texture		Remarks						
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	or secondary indic ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	cators of wetlan eeded to docum latrix, CS=Covered/ %	d hydrology	cator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Mate		Texture		Remarks						
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4	No primary iption (Descr ntration, D=Depl Hue_10YR	or secondary indices in the depth needed of th	cators of wetlan eeded to docum latrix, CS=Covered/ % 100	d hydrology nent the indi Coated Sand	cator or co Grains; Loca	erved. Onfirm the tion: PL=Pc Mottle	e absence of ir ore Lining, M=Matr	rix)	SIL		Remarks						
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-151n42w24-o1			
VECETATIO	N (One size identification of the second							
VEGETATIO	N (Species identified in all uppercase are (Plot size: 30 ft. radius)	e non-native	species.)					
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.	Populus tremuloides	45	Y	FAC				
2.	Quercus macrocarpa	5	N	FACU	Number of Dominant Species that are OBL, FACW, or FAC: <u>3</u> (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 6 (B)			
5.					Demonst of Deminant Crassics That $A_{22} \cap D$			
6. 7.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					$\frac{1}{OBL \text{ spp.}}  0 \qquad \text{x 1} = 0$			
	 Total Cover =	50			FACW spp. 15 x 2 = 30			
			_		FAC spp. 65 $\times$ 3 = 195			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $60 \times 4 = 240$			
1.	Cornus racemosa	20	Y	FAC	UPL spp. 15 X 5 = 75			
2.	Cornus alba	10	Y	FACW				
3.	Quercus macrocarpa	5	N	FACU	Total <u>155</u> (A) <u>540</u> (B)			
4.	Rosa blanda	5	N	FACU				
5.					Prevalence Index = B/A = <u>3.484</u>			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9. 10.	<u> </u>				Rapid Test for Hydrophytic Vegetation			
10.	Total Cover =	40			Dominance Test is > 50% Prevalence Index is ≤ 3.0 *			
		40			Morphological Adaptations (Explain) *			
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Solidago canadensis	20	Y	FACU				
2.	Geum aleppicum	20	Y	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Carex pensylvanica	15	Y	NI	present, unless disturbed or problematic.			
4.	Galium boreale	5	Ν	FACU	Definitions of Vegetation Strata:			
5.	Thalictrum dioicum	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.			
12.								
13.								
15.	<u> </u>				Woody Vines - All woody vines, regardless of height.			
10.	Total Cover =	65						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? N			
5.								
4.								
Demertini	Total Cover =	0			the shuth layer and Canada relianced and college areas in the basis			
Remarks: Vegetation is dominated by quaking aspen in the canopy, gray dogwood in the shrub layer, and Canada goldenrod and yellow avens in the herbaceous layer. Approximately 20% of the sample area is unvegetated and covered by leaf litter.								
Additional R	kemarks:							