## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/10/14	
Applicant:		Enbridge								County:	Red Lake	
Investigators		BCS/KRG			Subregio		or LRR):	MLRA 56		State:	MN	
Soil Unit:	159A						Classification:					
Landform:	Talf		47.00		cal Relief:		2010	Deture		Sample Poin	t: u-151n42w23-d1	
Slope (%):	0 - 2%	nditions on the site	Latitude: 47.88		Longitude:			Datum: ⊡Yes	□ No	Castian		
	, ,			,	al ? (If no, exp		normal circun			Section:		
Are Vegetati		□ or Hydrology □ or Hydrology				Ale	Yes		esent	Township:	Dir:	
SUMMARY (				Jiemalic?						Range:	Dil.	
			No					Hydric Soi	ls Procont?	No		
				No			Hydric Soils Present? Is This Sampling Point				/etland? No	
Remarks:				ted commu	nity domina	ated by a	waking aspen				iceberry, and a variety of	
r tomanto.	herbaceous	· · · · · · · · · · · · · · · · · · ·				aloa by q	laaning aopon,	, anonouri			looborry, and a variety of	
HYDROLOG												
		instans (Chask all	that apply Mi	ainer of an				no.d).				1
Primary		icators (Check all	that apply; will	nimum of or	e primary	or two se	econdary requi	rea):	Secondary:			
	A1 - Surface	Water			B11 - Salt (	Crust				B6 - Surface	Soil Cracks	
A2 - High Water Table				B13 - Aquatic Fauna						B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio				C1 - Hydro					B10 - Drainag		(6111)
	B1 - Water M B2 - Sedimen				C2 - Dry Se C3 - Oxidiz		pheres on Living	Roots (not till		C8 - Crayfish	Rhizospheres on Living Roots ( Burrows	(uned)
	B3 - Drift Dep				C4 - Prese						on Visible on Aerial Imagery	
	B4 - Algal Ma			C7 - Thin Muck Surface						D2 - Geomorphic Position		
	B5 - Iron Dep	osits on Visible on Aerial Im			Other (Exp	lain)				D5 - FAC-Ne	utral Test aved Hummocks (LRR F)	
	B9 - Water-S		lagery						-	D7 - FIOSI-HE	aved Hummocks (LKK F)	
_												
Field Obser	vations:											
Surface Wat	er Present?	Yes 🛛	Depth:		(in.)							
Water Table	Present?	Yes 🗍	Depth:		(in.)			Wetland F	lydrology	y Present? N		
Saturation P	resent?	Yes 🛛	Depth:		(in.)							
Describe Rec	orded Data (	stream gauge moni	itoring well aeri	al photos pr	evious insp	ections)	if available:					
		stream gauge, moni	-			ections),	if available:					_
Describe Rec Remarks:		stream gauge, moni or secondary wetla	-			pections),	if available:					
			-			pections),	if available:					
Remarks: SOILS Profile Descr	No primary	or secondary wetla	and hydrology	indicators of	oserved.	onfirm the	e absence of ir					
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Remarks: SOILS Profile Descr	No primary	or secondary wetle	and hydrology	indicators of	oserved.	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr					
Remarks: SOILS Profile Descr (Type: C=Conce	No primary	or secondary wetla be to the depth ne etion, RM=Reduced Ma Matrix	and hydrology eeded to docun atrix, CS=Covered	nent the indi	cator or co Grains; Locat	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr	ix)	Tevture		Pemarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.)	No primary	or secondary wetta be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	and hydrology eeded to docun atrix, CS=Covered %	indicators of	cator or co Grains; Locat	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matr		Texture		Remarks	
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-13 5-13 13-18	No primary iption (Descr ntration, D=Dept Hue_10YR Hue_2.5Y Hue_10YR Hue_10YR	or secondary wetta be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 2/1 2/1	eeded to docun atrix, CS=Covered % 100 75 25 100	indicators of nent the indi //Coated Sand Color (	cator or cc Grains; Local Moist)	Mottle	e absence of ir ore Lining, M=Matr S Type	ix)	SIL FS FS		Remarks	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-13 5-13 13-18	No primary iption (Descr ntration, D=Dept Hue_10YR Hue_2.5Y Hue_10YR Hue_10YR	or secondary wetla be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 2/1	eeded to docun atrix, CS=Covered % 100 75 25 100	indicators of nent the indi //Coated Sand Color (	cator or cc Grains; Local Moist)	Mottle	e absence of ir ore Lining, M=Matr	ix)	SIL FS FS SCL			
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-13 5-13 13-18	No primary iption (Descr ntration, D=Dept Hue_10YR Hue_2.5Y Hue_10YR	or secondary wetter be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 2/1 2/1 2/1 1 1 1 1 1 1 1 1 1 1 1 1 1	eeded to docum atrix, CS=Covered % 100 75 25 100 eeck here if ind	indicators of nent the indi //Coated Sand Color (	Cator or cc Grains; Local Moist)	Mottle	e absence of ir ore Lining, M=Matr S Type	Location	SIL FS FS SCL Indicators 1 A9 - 1 cm M	luck (LRR I, J)	ic Soils <sup>1</sup>	
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-5 5-13 5-13 13-18 NRCS Hydr	No primary iption (Descr ntration, D=Depl Hue_10YR Hue_2.5Y Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic EF A3 - Black His	or secondary wetta be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 2/1 2/1 10 2/1 10 10 10 10 10 10 10 10 10 10 10 10 10	eeded to docun atrix, CS=Covered % 100 75 25 100 neck here if ind	indicators of nent the indi /Coated Sand Color ( color ( icators are i S5 - Sandy R S6 - Stripped F1 - Loamy M	cator or cc Grains; Local Moist) mot presen edox Matrix /ucky Minera	Mottle	e absence of ir ore Lining, M=Matr S Type	Location	SIL FS FS SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox urface (LRR G	<u>ic Soils¹</u> (LRR F, G, H) )	
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-151n42w23-d1				
VEGETATIO	N (Species identified in all uppercase are (Plot size: 30 ft. radius)	e non-native	species.)						
Tree Stratum	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	45	Y	FAC					
2.	Quercus macrocarpa	2	N	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)				
3.					()				
4.					Total Number of Dominant Species Across All Strata: 6 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 0 x 1 = 0				
	Total Cover =	47			FACW spp. <u>11</u> x 2 = <u>22</u>				
					FAC spp. <u>56</u> $\times$ 3 = <u>168</u>				
	Stratum (Plot size: 15 ft. radius)				FACU spp. 31 x 4 = 124				
1.	Corylus americana	15	Y	UPL	UPL spp. 25 X 5 = 125				
2.	Amelanchier humilis	10	Y	NI					
3.	Cornus alba	5	<u>N</u>	FACW	Total <u>123</u> (A) <u>439</u> (B)				
4.	Cornus racemosa	5	N	FAC					
5.	Quercus macrocarpa	2	N	FACU	Prevalence Index = B/A = <u>3.569</u>				
6.									
7.					Iluduankutia Manatatian Indiantana				
8.					Hydrophytic Vegetation Indicators:				
9. 10.					Rapid Test for Hydrophytic Vegetation				
10.	Total Cover =	37			Dominance Test is > 50% Prevalence Index is ≤ 3.0 *				
		57	_						
Horb Stratum (	Plot size: 5 ft. radius)				Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *				
1.	Geum aleppicum	15	Y	FACU					
2.	Solidago canadensis	5	Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Galium boreale	5	Y	FACU	present, unless disturbed or problematic.				
4.	Sonchus arvensis	2	N	FAC	Definitions of Vegetation Strata:				
5.	Bromus ciliatus	2	Ν	FAC					
6	Lysimachia ciliata	2	Ν	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Lathyrus palustris	2	Ν	FACW	height (DBH), regardless of height.				
8.	Sanicula marilandica	2	Ν	FACU					
9.	Symphyotrichum lateriflorum	2	Ν	FACW	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.	Veronicastrum virginicum	2	Ν	FAC					
11.									
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	39							
	ratum (Plot size: 30 ft. radius)								
1.	1								
2.	1								
3. 5.					Hydrophytic Vegetation Present? N				
5. 4.	<u> </u>								
4.	Total Cover =	0		_					
Remarks: Upland sample area is dominated by quaking aspen in the tree stratum, American hazelnut and roundleaf serviceberry in the shrub stratum, and a variety									
species in the herbaceous layer. Herb stratum is sparsely vegetated; 60% bare ground.									
Additional Remarks:									
Additional Remarks:									