WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R										Date:	10/03/14
Applicant: Enbridge										County:	Red Lake
Investigators: LEB/DGL				Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit: 159A				NWI Classification:							
Landform:	Rise				cal Relief:					Sample Point:	u-151n42w15-ee2
Slope (%):	0 - 2%		Latitude: 47.90		Longitude:			Datum:			
		nditions on the site			al ? (If no, exp			⊡Yes		Section:	
Are Vegetation							normal circumstances present? ☑ Yes □No			Township:	
SUMMARY C				biematic?			⊡ res			Range:	Dir:
			Ne					Hudria Sail	o Drocont?	Vaa	
Hydrophytic Vegetation Present? Wetland Hydrology Present?				No No			Hydric Soils Present? Is This Sampling Poin				etland? No
Remarks:	The unland	sample point is loo		from the we	tland in a l	arge cattle	e nasture	is this oal	nping Poin		
rtemarko.				nom the we		arge outin	e public.				
HYDROLOG	Y										
		icators (Check all	that apply: Mi	nimum of or	o primon <i>u</i>	or two cor	oondony roquir	od):			
Primary		icators (Check all	i that apply, Mi		le primary o	or two set	condary requir	eu).	Secondary:		
A1 - Surface Water					B11 - Salt C	Crust				B6 - Surface S	oil Cracks
	A2 - High Wa				B13 - Aquat						Vegetated Concave Surface
	A3 - Saturatio B1 - Water Mater Mater Mater Mater Materia				C1 - Hydrog C2 - Dry Se						e Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sedimen			H	C2 - DIV Se C3 - Oxidize	ed Rhizosn	oheres on Living	Roots (not tille		C8 - Crayfish E	
	B3 - Drift Dep										Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M		ce			D2 - Geomorp	
	B5 - Iron Dep	osits In Visible on Aerial Im			Other (Expl	ain)				D5 - FAC-Neu	tral Test aved Hummocks (LRR F)
	B9 - Water-St		lagery							D7 - 1103t-filea	
_											
Field Obser	vations:										
Surface Wat	er Present?	Yes 🛛	Depth		(in.)			Wetlend		Duese wt?	N
Water Table	Present?	Yes 🛛	Depth		(in.)			Wetland H	iyarology i	Present?	N
Saturation P	resent?	Yes 🛛	Depth		(in.)						
Describe Rec	orded Data (s	stream gauge, moni	itoring well, aer	ial photos, pr	evious insp	ections), if	f available:				
		stream gauge, moni	-			-	f available:				
Describe Rec Remarks:		stream gauge, moni or secondary indic	-			-	f available:				
Remarks: SOILS	No primary	or secondary indic	cators of wetla	nd hydrology	y were obse	erved.					
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of wetla	nd hydrology	y were obse	erved.	absence of in				
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Remarks: SOILS Profile Descri	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma	cators of wetla	nd hydrology	y were obse	onfirm the	absence of in re Lining, M=Matri				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix	eeded to docur	nd hydrology ment the indi	y were obse icator or co Grains; Locati	erved. onfirm the ion: PL=Por Mottles	absence of in re Lining, M=Matri S	x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docun atrix, CS=Covered	nd hydrology	y were obse icator or co Grains; Locati	onfirm the	absence of in re Lining, M=Matri		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-14 14-18	No primary iption (Descrintration, D=Depletion Hue_10YR Hue_10YR Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/1	eeded to docuu atrix, CS=Coveree % 100 100	nd hydrology ment the indi d/Coated Sand Color (y were observed to be a constraint of the constr	Infirm the ion: PL=Por Mottles	absence of in re Lining, M=Matri s Type	x)	SIL SIL SCL	ar Problematic	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-14 14-18 NRCS Hydr	No primary iption (Descrintration, D=Depletion) Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/1 4/2 Indicators (ch ipedon stic	eeded to docuu atrix, CS=Coveree % 100 100 100 100	nd hydrology ment the indi i/Coated Sand Color (color	y were observed to a server observed to a served to a server observed to a server observed to a server observed to	Mottles	absence of in re Lining, M=Matri s Type	Location	SIL SIL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	2 <u>Soils1</u> LRR F, G, H)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-ee2
VEOETATIO					
VEGETATIO	N (Species identified in all uppercase ar (Plot size: 30 ft. radius)	e non-native	species.)		
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. <u>15</u> $X = 15$
	Total Cover =	0	_		FACW spp. 5 $x = 10$
					FAC spp. 5 $x 3 = 15$
	Stratum (Plot size: 15 ft. radius)				FACU spp. 75 x 4 = 300
1. 2.					UPL spp. 0 x 5 = 0
<u> </u>	<u> </u>				Total 100 (A) 240 (P)
3. 4.					Total 100 (A) 340 (B)
4. 5.					Prevalence Index = B/A = 3.400
5. 6.					
7.	J				
8.					Hydrophytic Vegetation Indicators:
9.	<u> </u>				Rapid Test for Hydrophytic Vegetation
10.	<u> </u>				Dominance Test is > 50%
10.	Total Cover =	0			Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phleum pratense	30	Y	FACU	
2.	Trifolium pratense	20	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Poa pratensis	15	Ν	FACU	present, unless disturbed or problematic.
4.	Trifolium hybridum	10	N	FACU	Definitions of Vegetation Strata:
5.	Carex pellita	10	N	OBL	
6	Carex granularis	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Juncus tenuis	5	N	FAC	height (DBH), regardless of height.
8.	Agrostis gigantea	5	N	FACW	
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.					Maash Wees. All woody visco, recerting of height
15.		100			Woody Vines - All woody vines, regardless of height.
	Total Cover =	100	_		
Moody Vine Of	rotum (Diot oizo: 20 ft rodius)				
1.	ratum (Plot size: 30 ft. radius)				
2.	<u> </u>				
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:	The vegetation is dominated by non-hydroph		s and has	been gra	zed.
				~	
Additional R	Remarks:				