WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R									Date:	10/17/14	
Applicant:		Enbridge									County:	Red Lake	
Investigators		KRG/BCS				Subregion		or LRR):	MLRA 56		State:	MN	
Soil Unit:	159A						NWI	Classification:					
Landform:	Talf				Loc	cal Relief:	LL				Sample Point:	u-151n41w29-b1	
Slope (%):	0 - 2%		Latitude: 4	47 872	0834	Longitude:	-95 945	2186	Datum:		1 '		
		nditions on the sit							⊡Yes	□No	Section:		
						ii: (II 110, 6x)		e normal circum			1		
Are Vegetation		or Hydrology			disturbed?		Ale			esent?	Township:		
Are Vegetation		or Hydrology	∟ aturally	y prob	lematic?			Yes	□No		Range:	Dir:	
SUMMARY C	OF FINDING:	3											
Hydrophytic \	Vegetation P	resent?	N	No					Hydric Soil	Is Present?	No		
Wetland Hyd			_	No							nt Within A W	etland? No	
		sample point is lo			lat cultivated	d wheat fie	ald.			, ,			
r tomanto.	The apiana	campio point io io	oatoa mii		iat cartivatos	a willout lit	Jiu.						
HYDROLOG'	Y												
Wetland Hv	droloav Ind	icators (Check all	II that appl	v: Min	imum of on	e primary	or two se	econdary requir	red):				
Primary:		(· , · · · · ·		- p,			/-	Secondary:			
	A1 - Surface	Nater			П	B11 - Salt (Crust				B6 - Surface S	oil Cracks	
I	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface	
l	A3 - Saturation				☐ C1 - Hydrogen Sulfide Odor						B10 - Drainage		
I 🗇	B1 - Water M					C2 - Dry Se						Rhizospheres on Living Roots (til	illed)
l	B2 - Sedimen							pheres on Living	Roots (not till		C8 - Crayfish E		,
l =	B3 - Drift Dep					C4 - Prese			()			Nisible on Aerial Imagery	
I 🗆	B4 - Algal Ma					C7 - Thin N	/luck Surfa	ace			D2 - Geomorp		
	B5 - Iron Dep					Other (Exp	lain)				D5 - FAC-Neu	tral Test	
	B7 - Inundation	n Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves											
Field Observ	vations:												
			_			<i>(</i> : \							
Surface Water		_		Depth:		(in.)			Wetland F	lydrology I	Present?	N	
Water Table	Present?	Yes \square		Depth:		(in.)				.,		_ <u></u>	
Saturation Pr	resent?	Yes \square		Depth:		(in.)							
Describe Boo	1.15.4.7			_									
		tream gallae mon	itorina well	l apris	al nhotoe pro	wioue inen	octione)	if available:					
		stream gauge, mon						if available:					
Remarks:		stream gauge, mon or secondary indic						if available:					
Remarks:								if available:					
Remarks:	No primary	or secondary indic	cators of w	wetlan	d hydrology	were obs	erved.						
Remarks:	No primary		cators of w	wetlan	d hydrology	were obs	erved.		idicators.)				
Remarks: SOILS Profile Descri	No primary	or secondary indic	cators of v	wetlan	d hydrology	were obs	erved.	e absence of in					
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Remarks: SOILS Profile Descri	No primary	or secondary indicates	cators of v	wetlan	d hydrology	were obs	erved. onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indices be to the depth neetion, RM=Reduced M Matrix	cators of v	wetlan docum overed/	d hydrology nent the indi Coated Sand (were obs	onfirm the	e absence of in ore Lining, M=Matr	ix)	Taytura		Pemarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	ption (Descritration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 3/2 7/2 Indicators (chippedon	eeded to d	wetlan docum overed/ % 100 85 if indi	d hydrology lent the india Coated Sand (Color (I Hue_10YR cators are r S5 - Sandy R S6 - Stripped	were observed where o	erved. confirm the tion: PL=Po Mottle % 15	e absence of in ore Lining, M=Matri es Type C	Location M	SCL SICL SICL Indicators 1 A9 - 1 cm M	luck (LRR I, J) Prairie Redox (: Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	ption (Descriptation, D=Deplied Hue_10YR Hue_2.5Y Hue_2.5Y Histosol A1- Histosol A2 - Histo Ep A4 - Hydroger A4 - Hydroger Hydroger A5 - Black His A4 - Hydroger A5 - Black His A4 - Hydroger A5 - Black His A6 - Black H	be to the depth neetion, RM=Reduced M Matrix Color (Moist) 3/2 7/2 Indicators (chairmann and chairmann and ch	eeded to d	docum docum overed/ % 100 85 if indi	d hydrology lent the indicoated Sand C Color (I Hue_10YR cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	were obsing a control of the control	monfirm the tion: PL=Poisson Mottle % 15 15	e absence of in ore Lining, M=Matri es Type C	Location M	Indicators f A9 - 1 cm M F - Coast S7 - Dark St F 16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	No primary ption (Descriptration, D=Deplete Intration, D=Deplete Intra	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 3/2 7/2 Indicators (chairman and chairman an	eeded to d datrix, CS=Cd	wetlan docum overed/ % 100 85 if indi	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	were obsited and the control of the	monfirm the confirm the confirm the confirm the confirm the confirm the confirm the confirmation of the co	e absence of in ore Lining, M=Matr es Type C	Location M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S1 F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils 1 LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	sent,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-151n41w29-b1
VEGETATION	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius)				
	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. 0 x 1 = 0
	Total Cover =	0	_		FACW spp. 0 x 2 = 0
					FAC spp. 0 x 3 = 0
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. <u>5</u> x 4 = <u>20</u>
1.					UPL spp5
2.					
3.					Total 10 (A) 45 (B)
4.					· · · · · · · · · · · · · · · · · · ·
5.					Prevalence Index = B/A = 4.500
6.					
7.	-				
					Hudrouhutia Vanatatian Indicatore
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	5	Υ	NI	
2.	Melilotus officinalis	5	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	,				present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
					. 3 . (, , , , , , , , , , , , , , , , , ,
8.					O - 1 - 40t - 1 - Weeds plants less than 2 in DDLL regardless of height
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.				_	
15.				_	Woody Vines - All woody vines, regardless of height.
	Total Cover =	10			
	Total Cover -	10	_		
\\/\\\\\\\\\\\\\\\\\\\\\\\\\\\	estima (Distrains, 20 ft and 1 c)				
	ratum (Plot size: 30 ft. radius)				
1.					
2.				_	
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:		eedlings a	nd a few s	weet clov	er. The area was entirely planted through with wheat but has been harvested and
	tilled.	•			,
A -1 -1147 7 -					
Additional R	emarks:				