WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge								Date: County:	09/30/14 Pennington
Investigators	5:	MRK/OTG			_Subregior	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	159A						Classification:				
Landform: Slope (%):	Talf 0 - 2%		Latitude: 47.		Longitude:		9491667	Datum:		Sample Point:	u-152n43w10-f1
,		onditions on the sit						■ Zes	□ No	Section:	
Are Vegetation		I ☑, or Hydrology					e normal circum			Township:	
Are Vegetation		I □, or Hydrology	□aturally p	problematic?			☑ Yes	□ No		Range:	Dir:
SUMMARY C									L D (0	NL	
Hydrophytic Y Wetland Hyd	-		<u>No</u> No		-				ls Present?	NO Nt Within A W	etland? No
Remarks:		nple point is locate						15 1115 041			
	• p · • · • • • • • • •										
HYDROLOG	Y										
Wetland Hy Primary	•••	iter Table	II that apply; I	Minimum of or	B11 - Salt (B13 - Salt (B13 - Aqua C1 - Hydrog C2 - Dry Se	Crust itic Fauna gen Sulfid	e Odor	ed):	Secondary:	B6 - Surface S B8 - Sparsely B10 - Drainage	Vegetated Concave Surface
	B2 - Sedimer B3 - Drift Dep B4 - Algal Ma B5 - Iron Dep B7 - Inundatio	nt Deposits posits it or Crust	nagery			ed Rhizos nce of Red luck Surfa	pheres on Living duced Iron	Roots (not till		C8 - Crayfish I C9 - Saturation D2 - Geomorp D5 - FAC-Neu	Burrows In Visible on Aerial Imagery hic Position
Field Observ	vations:										
Surface Wate Water Table Saturation Pr	Present?	Yes D Yes D Yes D	Dep	oth: oth: oth:	_ (in.) _ (in.) _ (in.)			Wetland H	lydrology	Present?	<u>N</u>
Describe Rec	orded Data (stream gauge, mon	nitoring well, a	aerial photos, pi	evious insp	ections),	if available:				
							in aranabio.				
Remarks:	No primary	or secondary hyd	rological indi	icators were ol	oserved.	,.					
SOILS			Ū					dicators)			
SOILS Profile Descri	iption (Descr	or secondary hyd ibe to the depth ne letion, RM=Reduced M	eeded to doc	cument the ind	icator or co	onfirm the	e absence of in				
SOILS Profile Descri	iption (Descr	ibe to the depth ne	eeded to doc	cument the ind	icator or co	onfirm the	e absence of in				
SOILS Profile Descri (Type: C=Concer	iption (Descr	ibe to the depth ne letion, RM=Reduced M Matrix	eeded to doc latrix, CS=Cove	cument the ind ered/Coated Sand	icator or co Grains; Locat	onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matri es	(x)			
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descr ntration, D=Dep	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to doc latrix, CS=Cove	cument the ind ered/Coated Sand 6 Color (icator or co	onfirm the ion: PL=Pc	e absence of in ore Lining, M=Matri		Texture		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	iption (Descr ntration, D=Dep Hue_10YR	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doc Aatrix, CS=Cove	cument the ind ered/Coated Sand 6 Color (icator or co Grains; Locat	onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matri es	(x)	Texture SCL		Remarks
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20	iption (Descr ntration, D=Dep Hue_10YR	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	eeded to doc Matrix, CS=Cove	cument the ind ered/Coated Sand 6 Color (00 00 00 00 00 00 00 00 00 00 00 00 00	Moist)	nfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matri es	Location	SCL C Indicators f A9 - 1 cm M	or Problematic	<u>c Soils¹</u>
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	iption (Descr ntration, D=Dep Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 1 A/2 1 Indicators (cf bipedon stic n Sulfide 1 Layers (LRR F) ick (LRR FGH) ed Below Dark Surfac Dark Surface	eeded to doc Aatrix, CS=Cove	indicators are S5 - Sandy F S6 - Stripped F1 - Loamy f F3 - Deplete F6 - Redox f F7 - Deplete F8 - Redox f	Moist) Moist) Moist) not present Redox Matrix Mucky Minera Gleyed Matrix Jark Surface d Dark Surface Depressions	mfirm the ion: PL=Po Mottle %	e absence of in ore Lining, M=Matri es Type	Location	SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressio	<u>c Soils¹</u> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-20 NRCS Hydr	iption (Descr ntration, D=Dep Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 1 A/2 1 Indicators (cf bipedon stic n Sulfide 4 Layers (LRR F) ick (LRR FGH) ed Below Dark Surfac Dark Surface lucky Mineral Aucky Peat or Peat (LR	eeded to doc Matrix, CS=Cove	indicators are S5 - Sandy F S6 - Stripped F1 - Loamy f F3 - Deplete F6 - Redox f F7 - Deplete F8 - Redox f	Moist) Moist) Moist) not present Redox Matrix Mucky Minera Gleyed Matrix Jark Surface d Dark Surface Depressions	mfirm the ion: PL=Po Mottle %	e absence of in ore Lining, M=Matri es Type	Location	SCL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S ain in Remarks)	<u>c Soils¹</u> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-152n43w10-f1
VEGETATIO	N (Species identified in all uppercase ar (Plot size: 30 ft. radius)	e non-native	species.)		
	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>// 00/01</u>	Dominant	maiotatao	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 1 (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: <u>Multiply by:</u>
10.					OBL spp. 0 x 1 = 0
	Total Cover =	0			FACW spp. 0 $x 2 = 0$
					OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$
1.					UPL spp. 5 $x 5 = 25$
2.					_
3.					Total <u>5</u> (A) <u>25</u> (B)
4.					
5.					Prevalence Index = $B/A = 5.000$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	Tatal Qavan	0			Dominance Test is > 50%
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Zea mays	5	Y	NI	
2.					* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.					
4.					Definitions of Vegetation Strata:
5.					Tree
6 7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.					_
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
<u> </u>					
11.	J				-
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					-
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	5			-
			_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.	1				
3.					Hydrophytic Vegetation Present? N
5.					
4.					
-	Total Cover =	0			
Remarks:	Upland sample point is dominated by cultiva				
		-			
Additional F	Remarks.				
	Containto.				
1					