## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/15/14	
Applicant:		Enbridge				(A 41 D )	<b>.</b>			County:	Pennington	
Investigators		RAJ/BJC			Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	19A				D B (-		I Classification	:			454-4422 -4	
Landform:	Talf 0 - 2%		Latituda, 10 1		cal Relief:		7126	Dotum		Sample Point	u-154n44w33-c1	
Slope (%):		onditions on the site	Latitude: 48.1		Longitude:			Datum:	□ No	Section:		
Are Vegetation		□, or Hydrology			<b>ai:</b> (II 110, ex	1	e normal circur			Township:		
Are Vegetation		□, or Hydrology	□aturally pro				e normal circui ✓ Yes		esent:	Range:	Dir:	
SUMMARY C			clatarally pro	bicinatio:			E 163	<b>- 110</b>		Range.	DII.	
Hydrophytic '			No					Hydric Soi	Is Present?	No		
Wetland Hyd	•		No		-					t Within A W	/etland? <b>No</b>	
Remarks:		point in an old field		v bird's foot tr	efoil and	pasture o	grasses. No in					
				,			<b>9</b>					
HYDROLOG	Υ											
		icators (Check all	that apply: M	inimum of on	a nrimary	or two s	econdary requi	ired):				
Primary		icators (Crieck all	triat apply, ivi		e primary	OI TWO S	econdary requi	iieu).	Secondary:			
<u>- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Sur	rface
	A3 - Saturation			□ C1 - Hydrogen Sulfide Odor □ □ C2 - Dry Season Water Table □						B10 - Drainage Patterns		
	B1 - Water M B2 - Sedimer						ater Table spheres on Living	Poots (not till		C3 - Oxidized C8 - Crayfish	Rhizospheres on Living	Roots (tilled)
	B3 - Drift Dep	•					educed Iron	1 Koots (not till			on Visible on Aerial Image	erv
	B4 - Algal Ma				C7 - Thin N					D2 - Geomory		o.,
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Net		
		on Visible on Aerial Im	agery							D7 - Frost-He	aved Hummocks (LRR F	F)
	B9 - water-S	tained Leaves										
Field Obser	vations:											
		Vac = □	Donath		(in )							
Surface Wat		Yes □ Yes □	Depth		_ (in.)			Wetland F	Hydrology I	Present?	N	
Water Table			Depth		(in.)						<del></del>	
Saturation Present? Yes   Depth: (in.)												
·			· · · · · · · · · · · · · · · · · · ·		<u> </u>							
		stream gauge, moni			<u> </u>	ections)	, if available:					
Describe Rec		stream gauge, moni hydrology indicato			<u> </u>	pections)	, if available:					
Remarks:					<u> </u>	pections)	, if available:					
Remarks:	No wetland	hydrology indicato	ors are presen	t.	evious insp			adicators )				
Remarks:  SOILS Profile Descri	No wetland	hydrology indicato	eded to docu	t. ment the indi	evious insp	onfirm th	ne absence of ir					
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Remarks:  SOILS Profile Descri	No wetland	hydrology indicato	eded to docu	t. ment the indi	evious insp	onfirm th	ne absence of in Pore Lining, M=Mat					
Remarks:  SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicato ibe to the depth ne etion, RM=Reduced Ma Matrix	eded to docu	t. ment the indi	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Mat		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicato  ibe to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)	eded to docu atrix, CS=Covere	ment the indi	evious insp cator or co Grains; Loca	onfirm th	ne absence of in Pore Lining, M=Mat	rix)			Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13	No wetland iption (Description, D=Dep	hydrology indicato  ibe to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)	eeded to docu	ment the indi	evious inspectator or congrains; Loca	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Mat	Location	Texture SCL C		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-18	No wetland iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y	hydrology indicato  ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  3/1  5/1	eded to docu etrix, CS=Covere	ment the indid/Coated Sand	cator or cograins; Loca  Moist)  5/8	Mottl %	ne absence of in Pore Lining, M=Mati les Type	Location			Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-18  NRCS Hydr	No wetland iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y	hydrology indicato  ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  3/1  5/1	eded to docu etrix, CS=Covere	ment the indid/Coated Sand Color ( Hue_10YR	cator or co Grains; Loca Moist) 5/8	Mottl %	ne absence of in Pore Lining, M=Mat	Location	SCL C	or Problemati	ic Soils <sup>1</sup>	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-18  NRCS Hydr	Hue_10YR Hue_2.5Y  A1- Histosol A2 - Histic Ep A3 - Black Histosol	hydrology indicato  ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  3/1  5/1  Indicators (ch	eded to docu etrix, CS=Covere	ment the indid/Coated Sand Color ( Hue_10YR  dicators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or cograins; Loca  Moist)  5/8  not presented ox Matrix Mucky Miner	mottl  Mottl  %  5  t):	ne absence of in Pore Lining, M=Mat	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox urface (LRR G	ic Soils <sup>1</sup> (LRR F, G, H)	
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	: L3R				Sample Point: u-154n44w33-c1			
					•			
<b>VEGETATIO</b>		are non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	Species Name	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 4 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 0			
Total Cover = 0				FACW spp. $20$ $\times 2 = 40$				
			FAC spp. $20   X   3 = 60$					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $40$ $x 4 = 160$			
1.					UPL spp 20			
2.								
3.					Total 100 (A) 360 (B)			
4.								
5.					Prevalence Index = $B/A = $ 3.600			
6.								
7.								
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 (	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Lotus corniculatus	40	Υ	FACU				
2.	Agrostis gigantea	20	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Bromus inermis	20	Y	UPL	present, unless disturbed or problematic.			
4.	Sonchus arvensis	20	Υ	FAC	Definitions of Vegetation Strata:			
5.		1						
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	<u>'</u>	1			height (DBH), regardless of height.			
8.								
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.	, 							
12.	<u></u>				Herb - All herbaceous (non-woody) plants, regardless of size.			
13.		<del>-</del>						
14.								
15.					Woody Vines - All woody vines, regardless of height.			
15.	Total Cover	100			vvoody vines = 7 iii vroody vinos, rogarances et noigini			
	Total Cover	= 100	_					
\\\\ = = = \\\\\\\\\\\\\\\\\\\\\\\\\\\	testama (Distraines 00 ft and inch							
Woody Vine St	tratum (Plot size: 30 ft. radius)							
1.	1	_						
2.					Lhadrankatia Vanatatian Brasanto N			
3.					Hydrophytic Vegetation Present?N			
5.								
4.	Tatal O							
Davisantas	Total Cover							
Remarks:	An old field dominated by bird's foot trefoil	and pasture	grasses. I	Hydrophyt	cic vegetation is not present.			
Additional Remarks:								