## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: <u>09/23/14</u>	
Applicant:		Enbridge								County: <u>Pennington</u>	
Investigators				Subregion (MLRA or LRR): MLRA 56						State: MN	
Soil Unit:	170A				_ 0	•	l Classification:				
Landform:	Dip				cal Relief:					Sample Point: w-154n44w33-z1	
			Latituda, 10.1				206	Deture			
Slope (%):	0 - 2%	a difference and the solution	Latitude: 48.1		Longitude:			Datum:			
Are climatic/	• •	nditions on the site			ar? (If no, exp				□ No	Section:	
Are Vegetati	on 🛛 Soil	□, or Hydrology	□significantly	y disturbed?		Are	e normal circum	istances pre	esent?	Township:	
Are Vegetati	on 🗆 Soil	□, or Hydrology	Daturally pro	oblematic?			☑ Yes	□ No		Range: Dir:	
SUMMARY C		, , ,,	, ,								
			Vee					Lludria Sail	la Dragant?	) Voo	
	Vegetation P		Yes		-				ls Present?		
	drology Prese		Yes							nt Within A Wetland? Yes	
Remarks:	A wet mead	ow community do	minated by w	oolly sedge a	nd pasture	grasses	s in a dip within	a hay field.			
HYDROLOG	V										
HIDKOLOG											
Wetland Hy	/drology Indi	i <b>cators</b> (Check all	that apply; M	linimum of on	e primary	or two se	econdary requir	ed):			
Primary	•••	,							Secondary:		
	A1 - Surface \	Nater			B11 - Salt C	Crust				B6 - Surface Soil Cracks	
	A2 - High Wat	ter Table			B13 - Aqua	tic Fauna				B8 - Sparsely Vegetated Concave Surface	
	A3 - Saturatio	n			C1 - Hydrog	gen Sulfid	le Odor			B10 - Drainage Patterns	
	B1 - Water Ma	arks			C2 - Dry Se					C3 - Oxidized Rhizospheres on Living Roots (tilled	
	B2 - Sedimen	t Deposits			C3 - Oxidiz		C8 - Crayfish Burrows				
	B3 - Drift Dep	•			C4 - Preser			,		C9 - Saturation Visible on Aerial Imagery	
	B4 - Algal Mat				C7 - Thin M					D2 - Geomorphic Position	
	B5 - Iron Dep				Other (Expl					D5 - FAC-Neutral Test	
		n Visible on Aerial Im	nagerv			/				D7 - Frost-Heaved Hummocks (LRR F)	
	B9 - Water-St										
_											
<b>Field Observ</b>											
Field Obser											
Surface Wat	er Present?	Yes 🗆	Depth	า:	(in.)			Wotland H	lydrology	Present? Y	
Water Table	Present?	Yes 🗆	Depth	า:	(in.)			Wetland H	iyarology	riesent? i	
Saturation P		Yes 🗆	Depth	רי	(in.)						
			•								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks:	Remarks: There is a dried algal crust in microdepressions and a well-developed mat of wetland moss on the soil surface throughout. Indicators of wetland hydrology										
Remarks.		•	merodeprese	sions and a w	ell-develop	bed mat	of wetland mos	s on the so	II surface tr	nroughout. Indicators of wetland hydrology	
	are present.	•	merodeprese	sions and a w	en-develop	bed mat	of wetland mos	s on the so	II SUITACE T	nroughout. Indicators of wetland hydrology	
SOILS	are present.		·						II SUITACE TR	nroughout. Indicators of wetland hydrology	
SOILS Profile Descri	are present. iption (Descri	be to the depth ne	eded to docu	ment the indi	cator or co	onfirm the	e absence of in	dicators.)	II SUITACE TR	nroughout. Indicators of wetland hydrology	
SOILS Profile Descri	are present. iption (Descri		eded to docu	ment the indi	cator or co	onfirm the	e absence of in	dicators.)	II SUITACE T	nroughout. Indicators of wetland hydrology	
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SOILS Profile Descri	are present. iption (Descri	be to the depth ne	eded to docu	ment the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matri	dicators.)			
SOILS Profile Descri (Type: C=Concer	are present. iption (Descri	be to the depth ne etion, RM=Reduced Ma Matrix	eded to docu atrix, CS=Covere	ment the indiced/Coated Sand (	cator or co Grains; Locat	onfirm the ion: PL=Pe Mottle	e absence of in ore Lining, M=Matri es	dicators.) <sup>x)</sup>			
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-4 4-12 12-18 NRCS Hydr	are present.	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/2 7/2 Indicators (ch	eeded to docu atrix, CS=Covere % 100 90 100	Color (I Color (I Hue_2.5Y dicators are r	Cator or co Grains; Locat Moist) 6/6 not present	nfirm the ion: PL=P Mottle %	e absence of in ore Lining, M=Matri es Type C	dicators.) ×) Location M	Texture C LFS COS Indicators f A9 - 1 cm M	Remarks with 50% gravel	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	e: L3R				Sample Point: w-154n44w33-z1		
VEGETATIO		re non-native	species.)				
Tree Stratum	(Plot size: 30 ft. radius)						
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet		
1.							
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (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>100.0%</u> (A/B)		
7.							
8.					Prevalence Index Worksheet		
9.					Total % Cover of: Multiply by:		
10.					OBL spp. $45$ X 1 = $45$		
	Total Cover =	= 0			FACW spp. 55 x 2 = $110$		
			—		FAC spp. 0 $x 3 = 0$		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACW spp.       55       x $2 =$ 110         FAC spp.       0       x $3 =$ 0         FACU spp.       15       x $4 =$ 60		
1.	Salix discolor	5	Y	FACW	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
2.							
3.					Total 115 (A) 215 (B)		
4.							
<u>4.</u> 5.					Prevalence Index = B/A = <b>1.870</b>		
<u> </u>					$= \frac{1.070}{1.070}$		
7.					   		
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.					X Dominance Test is > 50%		
1	Total Cover =	= 5			X Prevalence Index is ≤ 3.0 *		
					Morphological Adaptations (Explain) *		
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *		
1.	Carex pellita	45	Y	OBL			
2.	Agrostis gigantea	20	Y	FACW	* Indicators of hydric soil and wetland hydrology must be		
3.	Symphyotrichum lanceolatum	20	Y	FACW	present, unless disturbed or problematic.		
4.	Stachys pilosa	10	Ν	FACW	Definitions of Vegetation Strata:		
5.	Poa pratensis	10	Ν	FACU	1		
6	Lotus corniculatus	5	N	FACU	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast		
7.					height (DBH), regardless of height.		
8.					4		
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.		
9. 10.							
					4		
11.	-				-		
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.		
13.							
14.							
15.					Woody Vines - All woody vines, regardless of height.		
	Total Cover =	- 110		_			
Woody Vine S	Stratum (Plot size: 30 ft. radius)						
1.							
2.							
3.					Hydrophytic Vegetation Present? Y		
5.							
4.							
····	Total Cover =	= 0					
Remarks:			araccac	The area	has been hayed/mowed this year, and the willows are cut flush to the ground; if no		
Remains.	· · · · ·		-				
	cut, the willows would have about 15% cove		Лапи. гтуо		regetation is present.		
Additional F	Remarks:						