## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge									Date: County:	09/11/14 Pennington
Investigators		MRK/BEH/RAJ	Subregion (MLRA or LRR): MLRA 56						State:	MN		
Soil Unit: Landform:	I70A NWI Classification:									- Comple Dain		
Slope (%):	Talf         Local Relief: LL           0 - 2%         Latitude: 48.13163133         Longitude: -96.3707655000         Datum:									Sample Poin	t: u-154n45w25-c1	
		nditions on the sit							☑ Yes	□ No	Section:	
Are Vegetation	on 🗵 Soil	☑, or Hydrology	⊐significan	tly distur	bed?		Are	e normal circum	nstances pr	esent?	Township:	
Are Vegetati		□, or Hydrology	Daturally p	roblema	tic?			⊠ Yes	□ No		Range:	Dir:
SUMMARY C												
Hydrophytic	-		No							Is Present?		lationd? No
Wetland Hyd Remarks:		sample point is lo	No Noted in a ci	Iltivated	oat fie	Id			is this sa	mpling Poir	nt Within A W	/etland? <b>No</b>
Remarks.					out no	iu.						
HYDROLOG	Y											
		icators (Check al	I that apply:	Minimun	n of on	e primarv	or two se	econdary requi	red):			
Primary	•••		r that apply,	, , , , , , , , , , , , , , , , , , ,		o printary	01 100 01			Secondary	<u>:</u>	
	A1 - Surface Water					B11 - Salt					B6 - Surface	
	A2 - High Wat A3 - Saturatio					B13 - Aqua C1 - Hydro					B8 - Sparsely B10 - Drainag	Vegetated Concave Surface
	B1 - Water Ma					C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•		□ C3 - Oxidized Rhizospheres on Living Roots (not till □								Burrows
	B3 - Drift Dep B4 - Algal Mat					C4 - Prese C7 - Thin M					C9 - Saturatio D2 - Geomor	on Visible on Aerial Imagery
	B5 - Iron Dep	osits				Other (Exp					D5 - FAC-Ne	
		n Visible on Aerial In	nagery								D7 - Frost-He	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves										
Field Obser	vations:											
Surface Wat		Yes 🛛	Dep	oth:		(in.)					_	
Water Table Present?     Yes     Depth:     (iii.)     Wetland Hydrology Present?     N										N		
Saturation P	resent?	Yes 🛛	Dep	oth:		(in.)						—
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No hydrological indicators were observed.												
Remarks:	No hydrolog		-		103, pr		ections),	If available:				
	No hydrolog		-		103, pr		ections),	If available:				
SOILS		gical indicators we	ere observed						diactore )			
SOILS Profile Descri	iption (Descri		ere observed	ument th	ne indi	cator or co	onfirm the	e absence of in				
SOILS Profile Descri	iption (Descri	gical indicators we	ere observed	ument th	ne indi	cator or co	onfirm the	e absence of in				
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix	eeded to doc	cument the red/Coated	ne indi d Sand (	cator or co Grains; Locat	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)			
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo fatrix, CS=Cove	cument the red/Coated	ne indi	cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11	iption (Descri ntration, D=Deple Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doo latrix, CS=Cove	cument thered/Coated	he indid d Sand ( Color (I	cator or co Grains; Locat Moist)	onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-17	iption (Descri ntration, D=Deple Hue_10YR Hue_5Y	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/3	eeded to doo latrix, CS=Cove	cument thered/Coated	ne indid d Sand ( Color (I _10YR	Cator or co Grains; Locat Vloist) <u>6/8</u>	onfirm the tion: PL=Po Mottle % 15	e absence of in ore Lining, M=Matr es Type C	Location	SCL FS	conc. in pore lini	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n45w25-c1
VEGETATIO	N (Species identified in all uppercase a	are non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	<u>% Cover</u>	<b>Dominant</b>	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.	1				Prevalence Index Worksheet
9.					
					Total % Cover of: Multiply by:
10.	Tatal Cavar				OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.0x3 =0
	Total Cover	=0	FACW spp. 0 $X Z = 0$		
					FAC spp. $0$ X $3 = 0$
	Stratum (Plot size: 15 ft. radius)	_			FACU spp. 70 X 4 = 280
1.					UPL spp. $25$ x 5 = $125$
2.					
3.					Total <u>95</u> (A) <u>405</u> (B)
4.					
5.					Prevalence Index = B/A = <b>4.263</b>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Traple rest is > 50%
10.	 Total Cover	= 0			$\frac{1}{2} = \frac{1}{2} = \frac{1}$
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Avena sativa	70	Y	FACU	
2.	Medicago sativa	20	Y	NI	* Indicators of hydric soil and wetland hydrology must be
3.	Pisum sativum	5	N	NI	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6		1			<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.		1			
9.	<u></u>				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
	1	1			
11.					Herb - All herbaceous (non-woody) plants, regardless of size.
12.	]	1			<b>THEID -</b> All Herbaceous (Holf-woody) plants, regardless of SIZE.
13.	1				
14.	1				
15.	1				Woody Vines - All woody vines, regardless of height.
	Total Cover	= 95			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.	<u> </u>				
<u> </u>	1				
4.	Tatal Cavar				
Domortos	Total Cover			Ife	
Remarks:	The upland sample point is dominated by c	uitivated oat	is and alta	ifa.	
Additional F	Remarks:				