WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge								Date:07/29/14County:Marshall	
Investigators	ors: KRG/NTT I376A			Subregion (MLRA or LRR): MLRA 56 NWI Classification:						State: MN	
Soil Unit: Landform:	Shoulder			_ Lo	cal Relief:		Classification:			Sample Point: u-157n47w6-a1	
Slope (%):	3 - 7%		Latitude: 48.44				961	61 Datum:			
Are climatic/h	hydrologic co	onditions on the site	e typical for th	nis time of yea	ar? (If no, exp	lain in rema	arks)	⊠ Yes	□ No	Section:	
Are Vegetation	•	□, or Hydrology				Are	e normal circum	-	esent?	Township:	
Are Vegetatio		□, or Hydrology	Daturally pro	oblematic?			☑ Yes	□ No		Range: Dir:	
SUMMARY C			Ne					Ludria Sail	o Drocont?		
Hydrophytic V Wetland Hyd	•		<u>No</u> No		-			Hydric Soil		nt Within A Wetland? No	
Remarks:				liaht rise. bet	ween an a	aricultur	al field and a ro			Vegetation is dominated by smooth brom	e.
						9					
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check all	that apply; M	inimum of on	e primary	or two se	econdary requi	ed):			
Primary:	<u>:</u>						, , , , , , , , , , , , , , , , , , ,	,	Secondary:		
	A1 - Surface				B11 - Salt (B6 - Surface Soil Cracks	
	A2 - High Wa A3 - Saturatio				B13 - Aqua C1 - Hydrog					B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns	
	B1 - Water M	arks			C2 - Dry Se	eason Wa	ter Table			C3 - Oxidized Rhizospheres on Living Roots (ti	illed)
	B2 - Sedimen	•			C3 - Oxidiz C4 - Preser		spheres on Living	Roots (not tille		C8 - Crayfish Burrows	
	B3 - Drift Dep B4 - Algal Ma				C4 - Preser					C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	
	B5 - Iron Dep	osits			Other (Expl					D5 - FAC-Neutral Test	
		on Visible on Aerial Im	agery							D7 - Frost-Heaved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves									
Field Observ	vations.										
Surface Wate		Yes 🗆	Depth	ı.	(in.)						
Water Table		Yes 🗆	Depth		(in.)			Wetland H	ydrology l	Present? N	
Saturation Present? Yes D Depth: (in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: No indicators of wetland hydrology were observed.											
The manual of the manual of the and the observed.											
		is of wettand figure	blogy were ob	Serveu.							
SOILS		-									
Profile Descri	ption (Descr	ibe to the depth ne	eded to docu	ment the indi							
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Profile Descri	ption (Descr	ibe to the depth ne etion, RM=Reduced Ma	eded to docu	ment the indi	Grains; Locat	ion: PL=P	ore Lining, M=Matr		Texture	Remarks	
Profile Descri (Type: C=Concer	ption (Descr	ibe to the depth ne etion, RM=Reduced Ma Matrix	eded to docu atrix, CS=Covere	ment the indi	Grains; Locat	ion: PL=Po Mottle	ore Lining, M=Matr es	(x)	Texture	Remarks	
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Profile Descri (Type: C=Concer Depth (In.)	ption (Descr ntration, D=Depl	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu atrix, CS=Covere	ment the indi	Grains; Locat Moist)	ion: PL=Pe	ore Lining, M=Matr es Type	(x)	Texture	Remarks	
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Profile Descri (Type: C=Concer Depth (In.)	iption (Descr Intration, D=Depl	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu atrix, CS=Covere	ment the indi	Grains; Locat Moist)	ion: PL=Pe	ore Lining, M=Matr es Type		Indicators f	for Problematic Soils ¹	
Profile Descri (Type: C=Concer Depth (In.)	iption (Descr Intration, D=Depl ic Soil Field A1- Histosol	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu atrix, CS=Covere	ment the indi	Grains; Locat Moist) not present	ion: PL=Pe	ore Lining, M=Matr es Type	Location	Indicators f	for Problematic Soils ¹ //uck (LRR I, J)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: u-157n47w6-a1
VEGETATIO		e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)		Dominant	Lad Status	Dominance Test Worksheet
1.	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	
2.					$\frac{1}{1}$
1					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
<u>4.</u>					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 FACW spp. 5 x 2 = 10 FAC spp. 5 x 3 = 15 FACU spp. 10 x 4 = 40
	Total Cover =	0			FACW spp. 5 $x 2 = 10$
					FAC spp. 5 $X 3 = 15$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 10 $x 4 = 40$
1.					UPL spp. 95 x 5 = 475
2.					
3.	- <u>-</u>				Total 115 (A) 540 (B)
4.				,	
5.					Prevalence Index = $B/A = 4.696$
6.	-			′	
7.	-				
8.					 Hudrophytic Vocatation Indicators:
					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.				'	Dominance Test is > 50%
1	Total Cover = _	0		,	Prevalence Index is ≤ 3.0 *
				'	Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	70	Y	UPL	
2.	Medicago sativa	25	Y	NI	* Indicators of hydric soil and wetland hydrology must be
3.	Cirsium arvense	10	Ν	FACU	present, unless disturbed or problematic.
4.	Phalaris arundinacea	5	Ν	FACW	Definitions of Vegetation Strata:
5.	Sonchus arvensis	5	Ν	FAC	1
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					1
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
	<u> </u>			'	-
11.					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					Tero - All Helbaceous (Holf-woody) plants, regardless of size.
13.					
14.				'	- · · · · · · · · · · · · · · · · · · ·
15.					Woody Vines - All woody vines, regardless of height.
1	Total Cover = _	115		,	
I					
Woody Vine St	tratum (Plot size: 30 ft. radius)			'	
1.				,	
2.				,	
3.				,	Hydrophytic Vegetation Present? N
5.					
4.	-				
	Total Cover =	0			
Remarks:	Vegetation is dominated by smooth brome an			,	
Kemarka.	Vegetation is dominated by smooth stored and	lu allana.			
					
1					
Additional R	Remarks:				
1					
1					
1					
4					