WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:										Date:	09/29/14		
Applicant:	enbridge MRK/OTG				Subragion (MLDA or LDD).					County: State:	Pennington		
Investigators Soil Unit:	153A	WRNOIG	_Subregio	Subregion (MLRA or LRR): MLRA 56 NWI Classification:					MN				
Landform:	Talf			Sample Point	u-152n43w10-e1								
Slope (%):													
Are climatic/h	nydrologic co	nditions on the site typica	al for this	s time of ye	ar? (If no, ex	1		Yes	□ No	Section:			
Are Vegetation			•	disturbed?		Are	e normal circun	-	esent?	Township:			
Are Vegetation			ally prob	olematic?			Yes	□ No		Range:	Dir:		
SUMMARY C			No					Hydric Soi	le Procont?	No			
Hydrophytic Vegetation Present? Wetland Hydrology Present?			No No			Hydric Soils Present? No Is This Sampling Point Within A Wetland? No					etland? No		
Remarks:		sample point is located in		ntly tilled fie	eld.			10 11110 001	mpinig r on	ic vvicinii / c vv	odana. 110		
HYDROLOG'	Υ												
		icators (Check all that a	only: Mir	nimum of or	ne nrimary	or two s	econdary requi	red)•					
Primary:	•	cators (Oricon all triat a)	Spry, wiii	iii ii di di	ic primary	OI WO 3	coordary requi	ica).	Secondary:				
	A1 - Surface \				B11 - Salt					B6 - Surface S			
	□ A2 - High Water Table□ A3 - Saturation				B13 - Aqua C1 - Hydro					B8 - Sparsely B10 - Drainage	Vegetated Concave Surface		
	B1 - Water Ma				C2 - Dry S						Rhizospheres on Living Roots (tilled)		
□ B2 - Sediment Deposits □						zed Rhizos	spheres on Living	Roots (not till	le 🗆	C8 - Crayfish I	Burrows		
	B3 - Drift Dep				educed Iron			C9 - Saturation D2 - Geomorp	n Visible on Aerial Imagery				
□ B4 - Algal Mat or Crust□ B5 - Iron Deposits□ Other (Explain)											tral Test		
	□ B7 - Inundation Visible on Aerial Imagery □										aved Hummocks (LRR F)		
	B9 - Water-St	ained Leaves											
Field Observ	vations:												
Surface Wate	er Present?	Yes	Depth:		(in.)			Motlered	luralma la anti l	D====+0	N I		
Water Table	Present?	Yes	Depth:		(in.)			wetiand r	Hydrology I	Present?	<u>N</u>		
Saturation Pr	resent?	Yes	Depth:		_ (in.)								
													
Describe Rec	orded Data (s	stream gauge, monitoring v	vell, aeri	al photos, pi	revious insp	pections),	l , if available:						
Describe Reco	<u>`</u>	stream gauge, monitoring vor secondary hydrologica				ections),	, if available:						
Remarks:	<u>`</u>					pections),	, if available:						
Remarks:	No primary	or secondary hydrologica	al indicat	tors were ol	bserved.			odicators)					
Remarks: SOILS Profile Descri	No primary ption (Descri		al indicat	tors were ol	oserved.	onfirm th	e absence of ir						
Remarks: SOILS Profile Descri	No primary ption (Descri	or secondary hydrological be to the depth needed to the depth needed to the depth needed to the detection, RM=Reduced Matrix, CS	al indicat	tors were ol	oserved.	onfirm th	e absence of in ore Lining, M=Matr						
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	or secondary hydrological be to the depth needed to the depth need	o docum Covered	tors were ol	icator or co	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	or secondary hydrological be to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist)	o docum =Covered	tors were ol	oserved.	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16	No primary Iption (Descri	be to the depth needed tetion, RM=Reduced Matrix Matrix Color (Moist) 2/1	o docum =Covered % 100	tors were ol	icator or co	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20	No primary ption (Descriptration, D=Depleter) Hue_10YR Hue_2.5Y	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1 4/2	o docum =Covered 100 100	nent the ind /Coated Sand	icator or co	onfirm th	e absence of in ore Lining, M=Matr	ix)			Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	No primary ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/2 Indicators (check he dipedon	o docum =Covered % 100 100 ere if ind	coated Sand Color (Costors are S5 - Sandy F S6 - Stripped	icator or co Grains; Loca (Moist) not present	Mottl %	e absence of in Fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	c Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1 4/2 Indicators (check head)	o docum =Covered 100 100 ere if ind	content the index content to index content the index content to index content the index content to	icator or configuration of configuration	mottl Mottl // // // // // // // // // // // // /	e absence of in Fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-16 16-20 NRCS Hydr	Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/2 Indicators (check he depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/2 Indicators (check he depth needed to the depth	o docum =Covered 100 100 ere if ind	icators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete	icator or congrains; Local (Moist) Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface	mottl Mottl % t):	e absence of in Fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-152n43w10-e1	
VEGETATION (` ` '	re non-native	species.)			
Tree Stratum ((Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet	
1.	<u>Species Name</u>	76 COVEL	Dominani	<u>IIIu.Status</u>	Dominance rest worksheet	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)	
3.					(71)	
4.					Total Number of Dominant Species Across All Strata: 1 (B)	
5.					Total Number of Borninant opecies Across All Strata.	
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)	
7.					(AAD)	
8.					Prevalence Index Worksheet	
9.					Total % Cover of: Multiply by:	
10.					OBI spp	
	Total Cover =	0			OBL spp. 0	
	rotal cover				FAC spp. $0 \times 3 = 0$	
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 \times 4 = 0$	
1.					$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
2.						
3.					Total 5 (A) 25 (B)	
4.						
5.					Prevalence Index = B/A = 5.000	
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 (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *	
1.	Zea mays	5	Υ	NI		
2.					* Indicators of hydric soil and wetland hydrology must be	
3.					present, unless disturbed or problematic.	
4.					Definitions of Vegetation Strata:	
5.						
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast	
7.					height (DBH), regardless of height.	
8.						
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.	
10.						
11.						
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 Sti	ratum (Plot size: 30 ft. radius)					
1.						
2.						
3.					Hydrophytic Vegetation Present? N	
5.						
4.						
	Total Cover =					
Remarks:	Upland sample point is dominated by cultiva	ated corn.				
Additional R	Remarks:					
I						