WETLAND DETERMINATION DATA FORM Great Plains Region

L Uraiaat/Sita										Data	00/07/11
Project/Site:		L3R								Date:	09/27/14
Applicant:		Enbridge			<u> </u>					County:	Pennington
Investigators		MRK/OTG			Subregior	•	,	MLRA 56		State:	MN
Soil Unit:	<u>159A</u>			NWI Classification:						-	
Landform:	Talf Local Relief: Ll									Sample Point	u-152n43w4-d1
						ongitude: -96.1731135000 Datum:					
Are climatic/hydrologic conditions on the site typical for this time of year									□ No	Section:	
Are Vegetation	Are Vegetation 🛛 🤤 Soil 🔍, or Hydrology 🖾 significantly disturb				turbed? Are normal circumstances present?					Township:	
Are Vegetation	on 🗆 Soil	□, or Hydrology	□aturally prob	lematic?			Ves	□ No		Range:	Dir:
SUMMARY OF FINDINGS											
Hydrophytic \	Vegetation P	No	No Hydric Soils Prese						No		
Wetland Hyd	-		No		,					nt Within A W	etland? No
Remarks:		ple point is locate		dominated b	v vellow fo	oxtail ba					
rtomarto.	opiaria dari		a in a naynola (y yonow re	man, ba	ingala glabo al				
HYDROLOGY	Ϋ́										
Wetland Hy	drology Ind	icators (Check all	that apply; Mir	imum of one	e primary o	or two se	econdary require	ed):			
Primary:									Secondary:		
	A1 - Surface				B11 - Salt C					B6 - Surface S	
A2 - High Water Table					B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydrog					B10 - Drainage	
	B1 - Water M B2 - Sedimen				C2 - Dry Se		pheres on Living I	Poote (not till		C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots (tilled)
	B2 - Sedimer B3 - Drift Dep	•			C3 - Oxidizi C4 - Preser					•	n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M						0,
	B5 - Iron Dep					7 - Thin Muck SurfaceD 2 - Geomorphic Positionother (Explain)D 5 - FAC-Neutral Test					
B7 - Inundation Visible on Aerial Imagery										aved Hummocks (LRR F)	
□ B9 - Water-Stained Leaves											
Field Observ	vations:										
Field Observ			Denth:		(in)						
Surface Wate	er Present?		Depth:		(in.)			Wetland H	lydrology	Present?	Ν
Surface Wate Water Table	er Present? Present?	Yes 🗆	Depth:		(in.)			Wetland H	lydrology	Present?	<u>N</u>
Surface Wate	er Present? Present?		•					Wetland H	lydrology	Present?	<u>N</u>
Surface Wate Water Table Saturation Pr	er Present? Present? resent?	Yes 🗆	Depth: Depth:		(in.) (in.)	ections),		Wetland H	lydrology	Present?	<u>N</u>
Surface Wate Water Table Saturation Pr	er Present? Present? resent? orded Data (s	Yes □ Yes □ stream gauge, mon	Depth: Depth: itoring well, aeria	al photos, pre	(in.) (in.) evious insp	ections),		Wetland H	lydrology	Present?	<u>N</u>
Surface Wate Water Table Saturation Pr Describe Reco	er Present? Present? resent? orded Data (s	Yes □ Yes □	Depth: Depth: itoring well, aeria	al photos, pre	(in.) (in.) evious insp	ections),		Wetland H	lydrology	Present?	<u>N</u>
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Surface Water Water Table Saturation Pr Describe Reco Remarks: SOILS Profile Descri	er Present? Present? esent? orded Data (s No primary ption (Descr	Yes Yes stream gauge, mon or secondary hydr	Depth: Depth: itoring well, aeria ological indicat	al photos, pre ors observe	(in.) (in.) evious insp d. cator or co	onfirm the	if available: e absence of ind	dicators.)	lydrology	Present?	<u>N</u>
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Surface Water Water Table Saturation Pr Describe Reco Remarks: SOILS Profile Descri (Type: C=Concen	er Present? Present? esent? orded Data (s No primary ption (Descr	Yes Yes stream gauge, mon or secondary hydr ibe to the depth ne etion, RM=Reduced M Matrix	Depth: Depth: itoring well, aeria ological indicat eeded to docum atrix, CS=Covered	al photos, pre ors observe nent the indic Coated Sand C	(in.) (in.) evious insp d. cator or co Grains; Locat	nfirm the ion: PL=Po Mottle	if available: e absence of inc pre Lining, M=Matrix	dicators.)		Present?	
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NPCS Hydric Soil Field Indicators (check here if indicators are nragent)

NRCS Hydr	ic Soil Field Indicators (check h	ere if in	dicators are not present):		
_					Indicators for Problematic Soils ¹
	A1- Histosol		S5 - Sandy Redox		A9 - 1 cm Muck (LRR I, J)
	A2 - Histic Epipedon		S6 - Stripped Matrix		A16 - Coast Prairie Redox (LRR F, G, H)
	A3 - Black Histic				S7 - Dark Surface (LRR G)
	A4 - Hydrogen Sulfide				F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)
	A5 - Stratified Layers (LRR F)				F18 - Reduced Vertic
	A9 - 1 cm Muck (LRR FGH)				TF2 - Red Parent Material
	A11 - Depleted Below Dark Surface		F7 - Depleted Dark Surface		TF12 - Very Shallow Dark Surface
	A12 - Thick Dark Surface		F8 - Redox Depressions		Other (Explain in Remarks)
	S1 - Sandy Mucky Mineral		F16 - High Plains Depressions (ML	.RA 72, 73 of LRR H)	
	S2 - 2.5 cm Mucky Peat or Peat (LRR G,	H)			
	S3 - 5 cm Mucky Peat or Peat (LRR F)				¹ Indicators of hydrophytic vegetation and wetland hydrology must be present,
	S4 - Sandy Gleyed Matrix				unless disturbed or problematic.
Restrictive Layer	т Туре:		Depth:	Hydric Soil Present?	? <u> N </u>
Remarks:	Soil is a layer of dark sandy clay loa	m. Soil	does not meet any hydric indica	ators.	

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-152n43w4-d1			
VEGETATIO		e 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: 1 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 3 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					$OBL spp. 0 \qquad x \ 1 = 0$			
	Total Cover =	0	FACW spp. 0 $X 2 = 0$					
					FACW spp. 0 x 2 = 0 FAC spp. 30 x 3 = 90 FACU spp. 70 x 4 = 280			
	Stratum (Plot size: 15 ft. radius)				FACU spp. 70 X 4 = 280			
1.					UPL spp. 0 $x 5 = 0$			
2.					Total 100 (A) 270 (D)			
3.					Total <u>100</u> (A) <u>370</u> (B)			
<u>4.</u> 5.					Provolonos Indox - P/A - 2 700			
					Prevalence Index = $B/A = 3.700$			
6.								
7. 8.					Hydrophytic Vegetation Indicators			
<u> </u>					Hydrophytic Vegetation Indicators:			
<u> </u>					Rapid Test for Hydrophytic Vegetation Dominance Test is > 50%			
10.	Total Cover =	0						
		0			Prevalence Index is $\leq 3.0^{*}$			
					Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius)	50	V	EACU	Problem Hydrophytic Vegetation (Explain) *			
1.	Setaria pumila	50	r V	FACU	* Indiactors of budric soil and watland budrology must be			
2.	Echinochloa crus-galli	30	Y V	FAC	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3.	Trifolium hybridum	20	Y	FACU				
4.					Definitions of Vegetation Strata:			
5.					Troo			
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
7. 8.								
					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
9. 10.					Saping/Sin up - Woody plants less than 5 in. 2211, regardless of height.			
11.	<u> </u>							
					Herb - All herbaceous (non-woody) plants, regardless of size.			
12. 13.	1							
13.	1							
14.					Woody Vines - All woody vines, regardless of height.			
10.	Total Cover =	100			TTOOLY TILES - The free of the grades of the grad			
		100						
	return (Dist size: 20 ft redive)							
	ratum (Plot size: 30 ft. radius)							
2.	<u> </u>							
3.					Hydrophytic Vogetation Procent?			
5.					Hydrophytic Vegetation Present? N			
<u> </u>	<u> </u>							
4.	Total Cover =	0						
Remarks:	Upland sample point is dominated by yellow		nvard area	ss and ale	ike clover			
itternarka.	opiana sampie point is dominated by yellow	ionali, Dal	nyaru yra:	55 010 015				
Additional F	kemarks:							