WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R								Date:	09/16/14	
Applicant:		Enbridge								County:	Pennington	
Investigators:		MRK/OTG		Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	169A						'I Classification	:				
Landform:	Talf				Local Re	ief: LL				Sample Point:	u-154n44w33-d1	
Slope (%): 0 - 2% Latitude: 48.11584867 Longitude: -96.3085683333 Datum:												
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section:												
Are Vegetation	on 🛭 Soil	□, or Hydrology	⊏significar	ntly disturbe	d?	Ar	e normal circur	nstances pre	esent?	Township:		
Are Vegetation		□, or Hydrology	•	•				□ No ˙		Range:	Dir:	
SUMMARY OF FINDINGS												
Hydrophytic \			No					Hydric Soi	ls Present?	Yes		
Wetland Hyd			No.							nt Within A W	etland? No	
					inated by	emooth bro	mo timothy ara					
Remarks: The upland sample point is located in a hayfield dominated by smooth brome, timothy grass and redtop. Soil meets a hydric indicator, but combined with hydrology and vegetation, it does not indicate a wetland.												
		id vegetation, it do	bes not indi	cate a wett	ına.							
HYDROLOGY	Y											
Wetland Hy	drology Indi	cators (Check all	that apply;	Minimum c	f one prim	ary or two s	econdary requi	red):				
Primary:		•	11 37		•	,	, ,	,	Secondary:			
	A1 - Surface V	Vater			□ B11 - S	Salt Crust				B6 - Surface S	oil Cracks	
					□ B13 - A	Aquatic Fauna	a			B8 - Sparsely	Vegetated Concave Surface	
	A3 - Saturation					drogen Sulfic				B10 - Drainage		
	B1 - Water Ma					y Season Wa		_			Rhizospheres on Living Roots (tilled)	
	B2 - Sediment	•					spheres on Living	Roots (not till	• 🗀	C8 - Crayfish E		
	B3 - Drift Depo					esence of Re					N Visible on Aerial Imagery	
	B4 - Algal Mat					nin Muck Surf	ace			D2 - Geomorp		
	B5 - Iron Depo	วรแร n Visible on Aerial Ima	agory.		□ Other (Explain)				D5 - FAC-Neu	trai Test aved Hummocks (LRR F)	
	B9 - Water-St		agery							D7 - F1051-Hea	ived Hummocks (LRR F)	
	D9 - Water-St	airieu Leaves										
Field Observ	.atiana.											
Field Observ												
Surface Wate	er Present?	Yes □	De	pth:	(in.)		Wetland F	lydrology	Present?	N	
Water Table	Present?	Yes □	De	pth:	(in.)		Wonana i	.ya.o.ogy		<u></u>	
Saturation Pr	esent?	Yes □	De	pth:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	tream gauge monit	toring well	aerial photo	nrevious	nspections)	if available:					
	<u>`</u>						, if available:					
Describe Reco	<u>`</u>	tream gauge, monit or secondary hydro					, if available:					
Remarks:	<u>`</u>						, if available:					
Remarks:	No primary	or secondary hydro	ological ind	licators wer	e observed	l.		odiootoro)				
Remarks: SOILS Profile Descri	No primary of	or secondary hydro	ological ind	licators wer	e observed	l. r confirm th	ne absence of ir					
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Remarks: SOILS Profile Descri	No primary of	or secondary hydro be to the depth necestion, RM=Reduced Ma	ological ind	licators wer	e observed	r confirm th	ne absence of ir Pore Lining, M=Mati					
Remarks: SOILS Profile Descri (Type: C=Concen	No primary of the pri	be to the depth need to the Matrix	eded to do	cument the	indicator o	r confirm th ocation: PL=F Mottl	ne absence of in Pore Lining, M=Mati	rix)				
Remarks: SOILS Profile Descri (Type: C=Concen	No primary of the pri	be to the depth need to the depth need to the depth need to Matrix Color (Moist)	eded to do	cument the ered/Coated S	e observed	r confirm th	ne absence of ir Pore Lining, M=Mati		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concen	No primary of the pri	be to the depth need to the Matrix	eded to do	cument the	indicator o	r confirm th ocation: PL=F Mottl	ne absence of in Pore Lining, M=Mati	rix)	Texture SCL		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concen	No primary of the pri	be to the depth need to the depth need to the depth need to Matrix Color (Moist)	eded to do	cument the ered/Coated S	indicator o	r confirm th ocation: PL=F Mottl	ne absence of in Pore Lining, M=Mati	rix)			Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-9 9-15 15-20 NRCS Hydri	No primary of the prion (Description) (Descr	be to the depth need tion, RM=Reduced Markix Color (Moist) 2/1 6/3 7/2 2/1 Indicators (cheed in the content of the conte	eded to do atrix, CS=Cov	cument the ered/Coated S % Co 00 00 Hue_10 00 indicators a	indicator of and Grains; Lor (Moist)	r confirm the cocation: PL=F	ne absence of in Pore Lining, M=Mati	Location	SCL COS SC SCL Indicators 1 A9 - 1 cm M	for Problemation	: Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-9 9-15 15-20 NRCS Hydri	Hue_10YR Hue_2.5Y Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His	be to the depth need tion, RM=Reduced Markix Color (Moist) 2/1 6/3 7/2 2/1 Indicators (checking depth need tice)	eded to do atrix, CS=Cov	cument the ered/Coated S Co	or (Moist) OYR 6/8 OYR 6/8 OYR 6/8 OYR Matrix OYR Mucky M	r confirm the ocation: PL=F Mottl % 10 sent):	ne absence of in Pore Lining, M=Mati	Location	SCL COS SC SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation Iuck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-9 9-15 15-20 NRCS Hydri	Hue_10YR Hue_2.5Y Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger	be to the depth need tion, RM=Reduced Marix Color (Moist) 2/1 6/3 7/2 2/1 Indicators (check tick in Sulfide)	eded to do atrix, CS=Cov	cument the ered/Coated S Co	or (Moist)	r confirm the ocation: PL=F Mottl % 10 sent):	ne absence of in Pore Lining, M=Mati	Location	SCL COS SC SCL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemation Iuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	: Soils ¹	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w33-d1					
					•					
VEGETATIO	N (Species identified in all uppercase	are non-native	species.)							
Tree Stratum	(Plot size: 30 ft. radius)									
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.										
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)					
3.		1								
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.	<u></u>				(142)					
8.	J				Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.	Total Cover				OBL spp. 0					
	Total Cover	= 0			FACW spp. 20 $\times 2 = 40$					
					FAC spp. $\frac{15}{}$ $\times 3 = \frac{45}{}$					
_	Stratum (Plot size: 15 ft. radius)				FACU spp. 30 $x 4 = 120$					
1.					UPL spp. 40 $x 5 = 200$					
2.										
3.					Total 105 (A) 405 (B)					
4.										
5.					Prevalence Index = $B/A = 3.857$					
6.										
7.										
8.		-			Hydrophytic Vegetation Indicators:					
9.		_			Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
10.	_lTotal Cover	= 0			Prevalence Index is ≤ 3.0 *					
	Total Cover									
					Morphological Adaptations (Explain) *					
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Bromus inermis	40	Y	UPL						
2.	Phleum pratense	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Agrostis gigantea	20	Y	FACW	present, unless disturbed or problematic.					
4.	Sonchus arvensis	10	N	FAC	Definitions of Vegetation Strata:					
5.	Cirsium arvense	10	N	FACU						
6	Solidago gigantea	5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.		1			height (DBH), regardless of height.					
8.										
9.		n			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.										
11.										
12.	1	-			Herb - All herbaceous (non-woody) plants, regardless of size.					
13.					rierb - 7 in Horbacocae (Herr troody) plants, regardless of oiles.					
	<u> </u>									
14.					All marketing and the state					
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover	= 105	<u></u>							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? N					
5.				_	· · · · · · · · · · · · · · · · · · ·					
4.	T	=		_						
· · ·	Total Cover	= 0								
Remarks:			e timothy	arass and	t redton					
Remarks: The upland sample point is dominated by smooth brome, timothy grass and redtop.										
Additional Remarks:										