WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	•									Date:	09/26/14
Applicant: Enbridge											Pennington
Investigators: MRK/OTG				Subregion (MLRA or LRR): MLRA 56							MN
Soil Unit:	159A			_			I Classification	:			
Landform:	Talf				cal Relief:					Sample Point	u-153n43w33-d1
Slope (%):	0 - 2%		titude: 48.02				8031667	Datum:			
Are climatic/h	hydrologic co	nditions on the site ty	pical for thi	s time of yea	ar? (If no, ex	plain in rema	arks)	Yes	□ No	Section:	
Are Vegetation	on 🛭 Soil	☑, or Hydrology □s	significantly	disturbed?		Are	e normal circur	nstances pr	esent?	Township:	
Are Vegetation	on 🛭 Soil	□, or Hydrology □	aturally pro	blematic?			Yes	□ No		Range:	Dir:
SUMMARY C	OF FINDINGS	6									
Hydrophytic \	Vegetation P	resent?	No					Hydric Soi	Is Present?	No No	
Wetland Hydrology Present?			No					Is This Sa	mpling Poir	nt Within A W	etland? No
Remarks:		sample point is locate	ed in a culti	vated ryegra	ss field.						
	•			, 0							
HYDROLOG	Υ										
		inatore (Chaok all the	ot opply: Mi	oimum of on	o primary	or two or	ooondory roqui	rod\.			
_		icators (Check all tha	at apply; Ivili	nimum of on	e primary	or two se	econdary requi	rea):	Sacandan		
Primary:		Mator		_	B11 - Salt	Cruct			Secondary:	<u>:</u> B6 - Surface \$	Soil Cracks
	□ A1 - Surface Water□ A2 - High Water Table				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainag	
	B1 - Water M	arks			C2 - Dry S						Rhizospheres on Living Roots (tilled
	B2 - Sedimen	•					spheres on Living	Roots (not till	le 🗆	C8 - Crayfish	
	B3 - Drift Dep						duced Iron				n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp	
	□ B5 - Iron Deposits □ Other (Explain)										utral Test
	B9 - Water-St	n Visible on Aerial Image	ery						П	D7 - Frost-He	aved Hummocks (LRR F)
	D9 - Water-Si	allieu Leaves									
Field Observ	vations:										
					(1)						
Surface Water		Yes	Depth:		_ (in.)			Wetland F	Hydrology	Present?	N
Water Table		Yes	Depth:		(in.)				.,		<u> </u>
Saturation Present? Yes Depth: (in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s		ng well, aeri		• • •	pections),	if available:				
	<u> </u>	stream gauge, monitori		al photos, pre	evious insp	pections),	if available:				
Describe Reco	<u> </u>			al photos, pre	evious insp	pections),	if available:				
Remarks:	<u> </u>	stream gauge, monitori		al photos, pre	evious insp	ections),	if available:				
Remarks:	No primary	stream gauge, monitori or secondary hydrolo	gical indica	al photos, pre tors were ob	evious insposerved.			ndicators.)			
Remarks: SOILS Profile Descri	No primary	stream gauge, monitori	gical indica	al photos, protors were ob	evious insposerved.	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No primary	stream gauge, monitorior or secondary hydrolo be to the depth needs	gical indica	al photos, protors were ob	evious insposerved.	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No primary	stream gauge, monitorior or secondary hydrolo be to the depth needs	gical indica	al photos, protors were ob	evious insposerved.	onfirm the	e absence of ir ore Lining, M=Mati				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrolo be to the depth needetion, RM=Reduced Matrix	ed to docun	al photos, protors were obtained the individual of the individual	evious insposerved. cator or co	onfirm the	e absence of ir ore Lining, M=Mati	rix)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist)	ed to docun	al photos, protors were ob	evious insposerved. cator or co	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth needeletion, RM=Reduced Matrix Color (Moist) 2/1	ed to docun	al photos, protors were obtained the indicated Sand (evious insposerved. cator or co	onfirm the	e absence of ir ore Lining, M=Mati	rix)		Mixed matrix.	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20	No primary iption (Descriptration, D=Depl	be to the depth needeetion, RM=Reduced Matrix Color (Moist) 2/1 2/1	ed to document, CS=Covered 100 70	al photos, protors were obtained the individual of the individual	evious inspected. cator or congrains; Loca Moist) 6/2	Mottle %	e absence of ir ore Lining, M=Mati es Type C	Location		Mixed matrix.	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	No primary iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth needeetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 Indicators (checketion)	ed to document, CS=Covered 100 70	al photos, protors were obtained the individual of the individual	evious inspectived. cator or contract of	Mottle % 30	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators 1 A9 - 1 cm M A16 - Coast	for Problemati fuck (LRR I, J) rairie Redox	i <mark>c Soils¹</mark> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 ipedon stic	ed to document, CS=Covered 100 70	al photos, protors were obtained the individual of the individual	evious inspectived. cator or constraints; Location (Cator) Moist) 6/2 not presented (Cator) edox Matrix Mucky Miner	mottle Mottle 30 t):	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators A9 - 1 cm MA16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	i <mark>c Soils¹</mark> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needeetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 ipedon stic n Sulfide	gical indica ed to docum CS=Covered 100 70 k here if ind	al photos, protors were obtained the individual of the individual	evious inspectived. cator or constraints; Loca Moist) 6/2 not presented with the constraints of the cons	mottle Mottle 30 t):	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High F	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	i <mark>c Soils¹</mark> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth needeetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 2/1 ipedon stic n Sulfide Layers (LRR F)	ed to document, CS=Covered 100 70	al photos, protors were obtained the individual of the individual	evious inspectived. cator or contract of cator or cat	mottle Mottle 30 t):	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemati fluck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	i <mark>c Soils¹</mark> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 2/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	gical indica ed to docum CS=Covered 100 70 k here if ind	color (I Hue_5Y Color (I Hue_5Y Color (I Hue_5Y Color (I Hue_5Y Color (I Hue_5Y Color (I Hue_5Y Color (I Coated Sand (I Coated Sand (I Coated Sand (I Coated Sand (I Coated Sand (I Coated Sand (I Color (I	evious inspectived. cator or contract of cator or cat	mottle Mottle 30 t):	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators (A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FF	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	(LRR F, G, H)) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-11 11-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth needeetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 2/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	gical indica ed to docum (, CS=Covered 100 70 k here if ind	color (I Hue_5Y icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	cator or construction of present ducky Miner Bleyed Matrix ark Surface I Dark Sur	mottle Mottle 30 t):	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F18 - Reduct TF2 - Red FTF12 - Very	for Problemati Muck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark	ic Soils ¹ (LRR F, G, H)) Ons (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-153n43w33-d1	
					-	
VEGETATIO	、 .	are non-native sr	pecies.)			
Tree Stratum ((Plot size: 30 ft. radius)					
	Species Name	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet	
1.						
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)	
3.						
4.					Total Number of Dominant Species Across All Strata:1 (B)	
5.						
6.	<u>J</u>				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)	
7.						
8.					Prevalence Index Worksheet	
9.	<u></u>				Total % Cover of: Multiply by:	
10.					OBL spp. 0	
	Total Cover	=0			FACW spp. $0 \times 2 = 0$	
					FAC spp. $0 \times 3 = 0$	
4	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
1.					UPL spp. $0 x 5 = 0$	
2.						
3.					Total 90 (A) 360 (B)	
4.						
5.					Prevalence Index = B/A = 4.000	
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 (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *	
1.	Lolium perenne	90	Υ	FACU		
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.		1				
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.	<u></u>	1		_		
14.						
15.	Γ				Woody Vines - All woody vines, regardless of height.	
10.	Total Cover	= 90				
	Total Cover					
Woody Vino St	ratum (Plot size: 30 ft. radius)					
1.	Tatum (Flot Size. 30 it. Taulus)					
2.				_		
3.					Hydrophytic Vogotation Procent?	
5.					Hydrophytic Vegetation Present? N	
	<u> </u>					
4.	Total Cavar					
Domorko	Total Cover		poid mag	****		
Remarks:	The upland sample point is dominated by o	uitivated perer	nniai ryeg	grass.		
Additional R	Remarks:					