WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/29/14
Applicant:		Enbridge			_					County:	Pennington
Investigators		MRK/OTG			_Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	159A			_			I Classification:				
Landform:	Dip		4= 0		cal Relief:					Sample Point:	w-152n43w10-b1
Slope (%):	3 - 7%		_atitude: 47.99				0131667	<u>Datum</u> :			
		nditions on the site			ar? (If no, exp	1			□ No	Section:	
Are Vegetation			⊏significantly			Are	e normal circum	-	esent?	Township:	
Are Vegetation			□aturally pro	oblematic?			Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic \	•		Yes		-				Is Present?		d lo Va
Wetland Hyd			Yes				•	is This Sa	mpling Poin	nt Within A W	etland? Yes
Remarks:	wetiand sa	mple point located i	n a drainage	eway in the m	iddie of a t	illea field	a.				
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check all t	hat apply; M	inimum of on	e primary	or two se	econdary requir	ed):			
Primary:						_			Secondary:		
	A1 - Surface				B11 - Salt (B6 - Surface S	
	A2 - High Wa A3 - Saturation				B13 - Aqua C1 - Hydro				✓	B10 - Sparsely	Vegetated Concave Surface
	B1 - Water M				C2 - Dry Se						Rhizospheres on Living Roots (tille
	B2 - Sedimen						spheres on Living	Roots (not till	le 🗆	C8 - Crayfish E	
	B3 - Drift Dep				C4 - Prese	nce of Re	duced Iron	,			n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu	
		on Visible on Aerial Ima tained Leaves	gery						ш	D7 - Frost-Hea	aved Hummocks (LRR F)
	D3 - Water-O	tailled Leaves									
Field Observ	vations:										
Surface Water		Yes □	Donth	· ·	(in)						
Water Table		Yes □ Yes □		n:	_ (in.)			Wetland H	Hydrology	Present?	Υ
Saturation Pr		Yes \square	Depti	n:	- (in.) - (in.)						-
Saluration	1626111;	162	Debu	I	_ (111. <i>)</i>						
		stream gauge, monito			evious insp	ections),	if available:				
Describe Reco		stream gauge, monito located in a dip and			evious insp	ections),	if available:				
Remarks:					evious insp	ections),	if available:				
Remarks:	Wetland is	located in a dip and	is sparsely	vegetated.							
Remarks: SOILS Profile Descri	Wetland is ption (Descri	located in a dip and	is sparsely eded to docu	vegetated. ment the indi	cator or co	onfirm the	e absence of in				
Remarks: SOILS Profile Descri	Wetland is ption (Descri	located in a dip and	is sparsely eded to docu	vegetated. ment the indi	cator or co	onfirm the	e absence of in				
Remarks: SOILS Profile Descri	Wetland is ption (Descri	located in a dip and ibe to the depth nee etion, RM=Reduced Mat	is sparsely eded to docu	vegetated. ment the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	Wetland is ption (Descri	located in a dip and libe to the depth nee etion, RM=Reduced Mat	eded to docurix, CS=Covere	wegetated. ment the indi	cator or co Grains; Locat	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr	(x)	Taytura		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer	Wetland is iption (Description, Depoil of the properties of the pr	located in a dip and libe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1	eded to docurix, CS=Covere	ment the indi	cator or co Grains; Locat Moist)	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr	(x)			Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	Wetland is iption (Description, Dependent of the Depution) Hue_10YR	located in a dip and libe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1	eded to docurix, CS=Covere	ment the indi	cator or co Grains; Locat Moist)	onfirm the ion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-20	Wetland is ption (Description, D=Depl Hue_10YR Hue_10YR	ibe to the depth nee etion, RM=Reduced Matrix Color (Moist) 2/1 7/1	eded to docurix, CS=Covere	ment the indi	cator or co Grains; Locat Moist)	onfirm the ion: PL=Pe Mottle %	e absence of in ore Lining, M=Matri es Type	Location	SCL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-20	Wetland is iption (Description, Dependent of the Depution) Hue_10YR	ibe to the depth nee etion, RM=Reduced Matrix Color (Moist) 2/1 7/1	eded to docurix, CS=Covere	ment the indi	cator or co Grains; Locat Moist) 5/8	Mottle 25	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-20 NRCS Hydr	Wetland is iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	Ibe to the depth nee etion, RM=Reduced Matrix Color (Moist) 2/1 7/1 Indicators (che	eded to docurix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped	cator or co Grains; Locat Moist) 5/8 not present	Mottle % 25	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) : Prairie Redox (c Soils ¹
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	Ibe to the depth need etion, RM=Reduced Materix Color (Moist) 2/1 7/1 Indicators (checking Sulfide)	seded to docurix, CS=Covered % 100 75 eck here if in	ment the indid/Coated Sand Coated Sand Coated Sand Color (Hue_10YR) dicators are respectively S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy Coated Sand Coated Sand Coated Sand Sand Sand Sand Sand Sand Sand San	Cator or co Grains; Locat Moist) 5/8 not present	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	luck (LRR I, J) : Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	Ibe to the depth nee etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 7/1 Indicators (checking Sulfide I Layers (LRR FGH) ed Below Dark Surface eark Surface	eded to docurix, CS=Covere % 100 75 eck here if in	ment the indid/Coated Sand Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Locat Moist) 5/8 not present edox Matrix Mucky Minera Gleyed Matrix ark Surface ark Surface Dark Surface pepressions	Mottle % 25 t):	e absence of in ore Lining, M=Matrices Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	fluck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material	E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-20 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	Ibe to the depth nee etion, RM=Reduced Matrix Color (Moist) 2/1 7/1 Indicators (check in Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface Park Surface Pucky Mineral Mucky Peat or Peat (LRR cky Peat or Peat (LRR leyed Matrix	seded to docurix, CS=Covered % 100 75 eck here if in call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call call	ment the indid/Coated Sand Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	Cator or co Grains; Locat Moist) 5/8 not present edox Matrix Mucky Minera Gleyed Matrix ark Surface d Dark Surface d Dark Surface depressions ains Depres	Mottle % 25 t):	e absence of in ore Lining, M=Matrices Type C C RA 72, 73 of LRR	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S Ain in Remarks)	CSoils ¹ CLRR 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:	w-152n43w10-b1		
VEGETATION			. ,					
VEGETATION Tree Stratum ((Species identified in all uppercase a (Plot size: 30 ft. radius)	re non-native	species.)					
Tree Stratum (Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.		<u></u>						
2.					Number of Dominant Species that are OBL, FACW, or F	FAC: 0 (A)		
3.								
4.					Total Number of Dominant Species Across All St	:rata:1 (B)		
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or F	FAC: <u>0.0%</u> (A/B)		
7.								
8.					Prevalence Index Worksheet			
9.		1			Total % Cover of: Multiply by:			
10.	Total Cover	0			OBL spp.			
	Total Cover =	= 0	FAC spp. $0 \times 3 = 0$					
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				OBL spp. 0			
1.	Stratum (Flot Size. 13 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
2.					01 2 3pp			
3.					Total 30 (A) 120	(B)		
4.						(-/		
5.					Prevalence Index = B/A = 4.000			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophy	_		
10.					Dominance Test is > 50			
	Total Cover =	= 0	_		Prevalence Index is ≤ 3.			
					Morphological Adaptatio			
	Plot size: 5 ft. radius)			E4011	X Problem Hydrophytic Ve	getation (Explain) *		
1.	Setaria pumila	30	Υ	FACU	*	and level and any analysis to a		
2.				_	* Indicators of hydric soil and wetla present, unless disturbed			
3.					•	or problematic.		
4. 5.					Definitions of Vegetation Strata:			
6					Tree - Woody plants 3 in. (7.6cm) o	r mana in diameter at bracet		
7.					height (DBH), regardless of h			
8.						-		
9.					Sapling/Shrub - Woody plants less than 3 in.	DBH, regardless of height.		
10.					. 5			
11.								
12.					Herb - All herbaceous (non-woody) _I	plants, regardless of size.		
13.								
14.								
15.					Woody Vines - All woody vines, regardless of	of height.		
	Total Cover =	= 30						
Woody Vine Sti	ratum (Plot size: 30 ft. radius)							
1.								
2.					Ukadaa ahadia Waaadadia a Baasa			
3.					Hydrophytic Vegetation Prese	ent? <u> </u>		
5.								
4.	Total Cover =	= 0						
Remarks:	Wetland sample point is dominated by yello		ield has he	een recen	tly tilled			
Remarks.	victiand sample point is dominated by yello	w lox-tail. I	icia rias bi		try tilled.			
Additional B	Pomarke:							
Additional Remarks:								