WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R								Date:	06/25/14	.
Applicant:		Enbridge						= . = .		County:	Kittson	<u>.</u>
Investigators		BCS/BEH			_Subregio	n (MLRA or I		MLRA 56		State:	MN	
Soil Unit:	1248A						assification:	·		4		
Landform:	Side slope				cal Relief:					Sample Point:	<u>u-160n50w9-b1</u>	
Slope (%):	0 - 2%		Latitude: 48.			-97.108142		Datum:				
	, ,	nditions on the site			ar? (If no, ex			⊒Yes	□ No	Section:		
Are Vegetation		or Hydrology				Are no		nstances pre	esent?	Township:		
Are Vegetation		☐ or Hydrology	∟ aturally p	problematic?			Yes	□No		Range:	Dir:	
SUMMARY C												
Hydrophytic '			No		_			Hydric Soil			// 10 N	
Wetland Hyd			No		I4 6' - -		Th			nt Within A We	etland? No	
Remarks:	i ne upiand	sample point is lo	cated within	a tilled agricu	iturai field į	planted to wr	neat. The s	ite is upsiop	e from the	Red River.		
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all	I that apply;	Minimum of o	ne primary	or two secon	ndary requi	red):				
<u>Primary</u> :				_		_			Secondary:			
☐ A1 - Surface Water					B11 - Salt					B6 - Surface S		
	A2 - High Wa A3 - Saturation				B13 - Aqua	atic Fauna Igen Sulfide Oc	lor			B8 - Sparsely V B10 - Drainage	Vegetated Concave S	випасе
1 5	B1 - Water M					eason Water T					Rhizospheres on Livir	na Roots (tilled)
	B2 - Sedimen				C3 - Oxidiz	ed Rhizospher	res on Living	Roots (not till		C8 - Crayfish E		3
	B3 - Drift Dep					nce of Reduce	d Iron				No Visible on Aerial Ima	agery
	B4 - Algal Ma					Muck Surface				D2 - Geomorpi		
	B5 - Iron Dep	osits In Visible on Aerial Im	nagery	L	Other (Exp	olain)				D5 - FAC-Neut	trai Test ived Hummocks (LRI	D E/
	B9 - Water-St		lagery							DI - FIOSI-FIE	ived Hullillocks (LRI	X F)
_												
Field Obser	vations:											
Surface Wat		Yes 🔲	Der	oth:	(in.)							
Water Table		Yes 🗆	Der	oth:	(in.)			Wetland H	lydrology	Present?	N	
Saturation Pr		Yes \square		oth:	_ (in.)						_	
			201		()							
December Dece	D - 4 - /-	.	(41 1) -				! - - -					
		tream gauge, moni					vailable:					
Describe Reco		tream gauge, moni or secondary wetla					vailable:					
Remarks:							vailable:					
Remarks:	No primary	or secondary wetla	and hydrolo	gy indicators v	vere observ	ved.		odicators)				
Remarks: SOILS Profile Descri	No primary	or secondary wetla	and hydrologeded to doo	gy indicators v	vere observ	ved.	sence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary wetla	and hydrologeded to doo	gy indicators v	vere observ	ved.	sence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary wetlands be to the depth ne	and hydrologeded to doo	gy indicators v	vere observ	ved.	sence of ir		I			
Remarks: SOILS Profile Descri	No primary	or secondary wetla be to the depth ne etion, RM=Reduced Ma Matrix	and hydrologeded to doo	gy indicators v	vere observing icator or congressions; Loca	onfirm the ab	osence of ir ining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doo atrix, CS=Cove	cument the indered/Coated Sand	vere observing icator or congressions; Loca	onfirm the abtion: PL=Pore L	sence of ir	rix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1	eeded to doo atrix, CS=Cove	cument the independence of the control of the contr	icator or co	onfirm the abtion: PL=Pore L Mottles %	osence of ir ining, M=Mate Type	Location	С		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-15	No primary ption (Descriptration, D=Depl Hue_2.5Y Hue_10YR	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1 2/1	eeded to doc atrix, CS=Cove	cument the indered/Coated Sand Color	icator or co	onfirm the abtion: PL=Pore L	osence of ir ining, M=Matr	rix)	C C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No primary ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1	eeded to doo atrix, CS=Cove	cument the indered/Coated Sand Color	icator or co	onfirm the abtion: PL=Pore L Mottles %	osence of ir ining, M=Mate Type	Location	С		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-15	No primary ption (Descriptration, D=Depl Hue_2.5Y Hue_10YR	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1 2/1	eeded to doc atrix, CS=Cove	cument the indered/Coated Sand Color	icator or co	onfirm the abtion: PL=Pore L Mottles %	osence of ir ining, M=Mate Type	Location	C C		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-15 15-20	ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1 2/1 2/1	eeded to docatrix, CS=Cove	cument the indered/Coated Sand Color	icator or co Grains; Loca (Moist)	onfirm the abtion: PL=Pore L Mottles 1	osence of ir ining, M=Mate Type	Location	C C			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-15 15-20 NRCS Hydr	ption (Descriptation, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1 2/1 2/1	eeded to doc atrix, CS=Cove	cument the independence of the control of the contr	icator or co Grains; Loca (Moist) R 3/4	onfirm the abtion: PL=Pore L Mottles 1	osence of ir ining, M=Mate Type	Location M	C C C	for Problematic		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-15 15-20 NRCS Hydr	No primary ption (Description, D=Depl Hue 2.5Y Hue 10YR Hue 10YR A1- Histosol	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1 2/1 2/1 Indicators (ch	eeded to doc atrix, CS=Cove	gy indicators v cument the indicators v Color of the co	icator or co Grains; Loca (Moist) R 3/4 not presen	onfirm the abtion: PL=Pore L Mottles 1	osence of ir ining, M=Mate Type	Location M	C C C	luck (LRR I, J)	: Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-15 15-20 NRCS Hydr	No primary ption (Description, D=Depl Hue_2.5Y Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2.5/1 2/1 2/1 Indicators (ch	eeded to doc atrix, CS=Cove	gy indicators v cument the indicators v cument the indicators of the indicators and indicators are S5 - Sandy F S6 - Stripped	icator or co Grains; Loca (Moist) (Moist) (Moist) (Moist) (Moist)	Mottles 1 1 1 1 1 1 1 1 1 1 1 1 1	osence of ir ining, M=Mate Type	Location M	C C C Indicators 1 A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (L	: Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-15 15-20 NRCS Hydr	No primary ption (Descrintration, D=Depl Hue 2.5Y Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1 2/1 2/1 Indicators (chairs)	eeded to docatrix, CS=Cove	gy indicators v cument the incered/Coated Sand 6 Color 9 Hue_7.5Yf 00 indicators are S5 - Sandy F S6 - Strippee F1 - Loamy	icator or co Grains; Loca (Moist) R 3/4 not presen Redox I Matrix Mucky Miner.	wed. confirm the abotion: PL=Pore L Mottles % 1 1 tt):	osence of ir ining, M=Mate Type	Location M	Indicators 1 A9 - 1 cm M A16 - Cost I S7 - Dark S	luck (LRR I, J) Prairie Redox (L urface (LRR G)	: <u>Soils¹</u> RR F, G, H)	73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-15 15-20 NRCS Hydr	Ption (Description, D=Deption, D=	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1 2/1 2/1 Indicators (chairs)	eeded to doc atrix, CS=Cove	gy indicators v cument the indicators v cument the indicators of the indicators and indicators are S5 - Sandy F S6 - Stripped	icator or co Grains; Loca (Moist) R 3/4 not presen	wed. confirm the abotion: PL=Pore L Mottles % 1 1 tt):	osence of ir ining, M=Mate Type	Location M	Indicators 1 A9 - 1 cm M A16 - Cost I S7 - Dark S	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	: Soils ¹	73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-15 15-20 NRCS Hydr	Pition (Descriptration, D=Deplementation, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2.5/1 2/1 2/1 2/1 Indicators (chairpedon stic on Sulfide Layers (LRR F) ck (LRR FGH) dd Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRK) P	eeded to docatrix, CS=Cove 9 10 9 10 neck here if	gy indicators v cument the indicators v cument the indicators v cument the indicators and control of the con	icator or co Grains; Loca (Moist) R 3/4 not presen Redox d Matrix Mucky Miner. Gleyed Matrix d Matrix Oark Surface d Dark Surface d Dark Surface	wed. confirm the abotton: PL=Pore L Mottles 1 1 tt):	Type	Location M	Indicators In A9 - 1 cm In M A16 - Cost In S7 - Dark S In F16 - High In F18 - Reduction TF2 - Red In TF12 - Very In Other (Explain Indicators of Indicators	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material 'Shallow Dark S ain in Remarks)	E Soils ¹ RR F, G, H) ONS (LRR H, outlade MLRA 72,	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-160n50w9-b1
VEGETATIOI	N (Species identified in all uppercase an	e 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: 0 (A)
3.					(-,
4.					Total Number of Dominant Species Across All Strata: 1 (B)
5.					Total Number of Dominant Species Across All Strata.
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0
	Total Cover =	0			FACW spp. 0 x 2 = 0
			_		FAC spp. 0 x 3 = 0
Conline/Chruh (Stratum (Diet aire) 15 ft radius)				
	Stratum (Plot size: 15 ft. radius)				
1.					UPL spp. 40 x 5 = 200
2.					
3.					Total 41 (A) 204 (B)
4.					
5.					Prevalence Index = B/A = 4.976
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					
10.					Dominance Test is > 50%
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	40	Y	NI	
2.	Cirsium arvense	1	N	FACU	* 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.
				_	Sapinig/Sili ub 2 11000) planto 1000 thair o in 2511, 10gardioco di 110gilia
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 =	41			
			_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	(150 5.25. 55 to radias)				
2.					
				_	Hadronka die Verestetien Brosses D
3.	1				Hydrophytic Vegetation Present? N
5.					
4.				_	
	Total Cover =	0			
Remarks:	The upland sample point is dominated by cu	ltivated wh	eat.		
Additional R	Remarks:				
, taditional N	tomanto.				
l					
l					