## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/27/14		
Applicant:		Enbridge								County:	Kittson		
Investigators		BEH/BCS			Subregion	n (MLRA or LRR		MLRA 56		State:	MN		
Soil Unit:	1248A					NWI Classif	fication:	PEMAd					
Landform:	Talf				cal Relief:					Sample Point:	u-160n50w10-b1	1	
Slope (%):	0 - 2%		Latitude: 48			-97.099506086	7	Datum:		1			
	, ,	nditions on the site			ar? (If no, exp			⊡Yes	☑ No	Section:			
Are Vegetation		I ☐ or Hydrology				Are norma			esent?	Township:			
Are Vegetation		☐ or Hydrology	<b>□</b> aturally p	roblematic?		v	] Yes	□No		Range:	Dir:		
SUMMARY C													
Hydrophytic \			No		_				s Present?				
Wetland Hyd			No							nt Within A W			
Remarks:			cated within	an NWI polyge	on. The are	ea is adjacent to	a petrol	leum pipeli	ne corridor	and is domin	ated by clover spe	cies, Canada	
		mixed grasses.											
<b>HYDROLOG</b>	Υ												
Wetland Hv	drology Ind	icators (Check all	I that apply:	Minimum of on	e primary o	or two secondar	rv reauire	ed):					
Primary		(	, ,		- 1 - 7		, - 1-	/	Secondary:	_			
A1 - Surface Water					B11 - Salt C						Soil Cracks		
	A2 - High Wa				B13 - Aquat						Vegetated Concave S	Surface	
	A3 - Saturatio					gen Sulfide Odor					B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B1 - Water M B2 - Sedimen					eason Water Table		Poote (not till		C8 - Crayfish E		ig Roots (tilled)	
1	B3 - Drift Dep										n Visible on Aerial Ima	agery	
	B4 - Algal Ma					luck Surface				D2 - Geomorp		3- 7	
	B5 - Iron Dep				Other (Expl	ain)				D5 - FAC-Neu			
		on Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRF	RF)	
	B9 - Water-S	tained Leaves											
Field Observ		_											
Surface Water		_	Dej	oth:	(in.)		,	Wetland H	lydrology l	Present?	N		
Water Table		Yes 🔲							,				
Saturation Pr	resent?	Yes $\square$	De	oth:	(in.)								
					_ ` '								
Describe Reco	orded Data (s	stream gauge, moni	itoring well, a	aerial photos, pr	evious insp	ections), if availa	ıble:						
Describe Reco						ections), if availa	ıble:						
		stream gauge, moni or secondary hydr				ections), if availa	ible:						
						ections), if availa	able:						
Remarks: SOILS	No primary		rological ind	icators were ob	served.	•		dicators.)					
Remarks:  SOILS Profile Descri	No primary	or secondary hydr	rological ind	icators were ob	eserved.	nfirm the absen	nce of inc						
Remarks:  SOILS Profile Descri	No primary	or secondary hydr ibe to the depth ne etion, RM=Reduced M	rological ind	icators were ob	eserved.	nfirm the absen	nce of inc						
Remarks:  SOILS Profile Descri	No primary	or secondary hydr	rological ind eeded to doo latrix, CS=Cove	cument the indi	eserved.	nfirm the absen	nce of inc						
Remarks:  SOILS Profile Descri	No primary	or secondary hydr ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	rological ind	cument the indi	cator or co	nfirm the absen	nce of inc		Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydr ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	rological ind eeded to doo latrix, CS=Cove	cument the indiered/Coated Sand	cator or co	nfirm the absen	nce of inc	()	Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydr ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	cument the indiered/Coated Sand  Color (	cator or co	nfirm the absen	nce of inc	()			Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8	No primary iption (Descriptration, D=Depl	or secondary hydrone ibe to the depth neetion, RM=Reduced Modern Matrix  Color (Moist)  2/1	eeded to doo latrix, CS=Cove	cument the indiered/Coated Sand  Color (	cator or co	nfirm the absen	nce of inc	()	С		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17	No primary iption (Descriptration, D=Depi	ibe to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  2.5/1	eeded to doo latrix, CS=Cove	cument the indi red/Coated Sand  Color (	cator or co	nfirm the absen	nce of inc	()	C C		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20	ption (Descriptration, D=Deplination, D=Deplination	ibe to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  2.5/1  2.5/1	eeded to doo latrix, CS=Cove	cument the indi red/Coated Sand  Color (	cator or co	nfirm the absen	nce of inc	()	C C C		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20	ption (Descriptration, D=Deplination, D=Deplination	ibe to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  2.5/1  2.5/1	eeded to doo latrix, CS=Cove	cument the indi red/Coated Sand  Color (	cator or co	nfirm the absen	nce of inc	()	C C C		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20 17-20	No primary iption (Description) Intration, D=Deption Hue 10YR Hue 2.5Y Hue 2.5Y	or secondary hydrone ibe to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2/1  2.5/1  2.5/1  5/2	eeded to doo latrix, CS=Cove	cument the indicated/Coated Sand  Color (  Color	cator or co Grains; Locati	infirm the absention: PL=Pore Lining  Mottles  Ty	nce of inc	()	C C C		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20 17-20	No primary iption (Description) Intration, D=Deption Hue 10YR Hue 2.5Y Hue 2.5Y	or secondary hydrone ibe to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2/1  2.5/1  2.5/1  5/2	eeded to doo latrix, CS=Cove	cument the indi red/Coated Sand  Color (	cator or co Grains; Locati	infirm the absention: PL=Pore Lining  Mottles  Ty	nce of inc	()	C C C	For Problematic			
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20 17-20  NRCS Hydr	No primary  iption (Description, D=Deption, D=Deption)  Hue_10YR  Hue_2.5Y  Hue_2.5Y  Hue_2.5Y	or secondary hydrone ibe to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2/1  2.5/1  2.5/1  5/2	eeded to doo latrix, CS=Cove	cument the indicators were observed to be compared to the indicators are incident to the indicator and incident to the indicator are incident to the indica	cator or co Grains; Locati	infirm the absention: PL=Pore Lining  Mottles  Ty	nce of inc	Location	C C C C	for Problematic			
Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20 17-20	No primary iption (Descritration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol	or secondary hydrone ibe to the depth neetion, RM=Reduced Mine Matrix Color (Moist)  2/1 2.5/1 2.5/1 5/2 Indicators (characteristics)	eeded to doo latrix, CS=Cove	cument the indicators were observed.	cator or co Grains; Locati	infirm the absention: PL=Pore Lining  Mottles  Ty	nce of inc	Location	C C C C	luck (LRR I, J)	c Soils <sup>1</sup>		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20 17-20  NRCS Hydr	No primary  iption (Description, D=Deption, D=Deption)  Hue_10YR  Hue_2.5Y  Hue_2.5Y  Hue_2.5Y	or secondary hydrone ibe to the depth neetion, RM=Reduced Mine Matrix Color (Moist)  2/1 2.5/1 2.5/1 5/2 Indicators (chairs)	eeded to doo latrix, CS=Cove	cators were observed to be cators were observed to be cators were observed to be cators where observed to be cators and cators are in the	cator or co Grains; Locati Moist)  Moist)  not present edox Matrix lucky Minera	infirm the absention: PL=Pore Lining  Mottles  % Ty	nce of inc	Location	C C C C Indicators 1 A9 - 1 cm M A16 - Cost F		c Soils <sup>1</sup>		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20 17-20  NRCS Hydr	No primary  iption (Description, D=Deption, D=Deption)  Hue 10YR  Hue 2.5Y  Hue 2.5Y  Hue 2.5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydronsection, RM=Reduced Minimum Matrix Color (Moist) 2/1 2.5/1 2.5/1 5/2 Indicators (chaipedon stic in Sulfide	eeded to doo latrix, CS=Cove	cators were obscured the indicators are in Standard Sand Sand Sand Sand Sand Sand Sand San	cator or co Grains; Locati  Moist)  Moist)  not present  edox Matrix Mucky Minera Bleyed Matrix	infirm the absention: PL=Pore Lining  Mottles  % Ty	nce of inc	Location	C C C C S Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	c Soils <sup>1</sup>	73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20 17-20  NRCS Hydr	No primary  iption (Descritation, D=Depl  Hue_10YR Hue_2.5Y Hue_2.5Y  Hue_2.5Y  data = 1.54  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydronsection, RM=Reduced Minimum Matrix Color (Moist)  2/1 2.5/1 2.5/1 5/2 Indicators (chairmann of the color of the colo	eeded to doo latrix, CS=Cove	cators were observed to be considered to be considered. Color (100 00 00 00 00 00 00 00 00 00 00 00 00	cator or co Grains; Locati Moist)  Moist)  not present edox Matrix Mutrix Minera Eleyed Matrix I Matrix	infirm the absention: PL=Pore Lining  Mottles  % Ty	nce of inc	Location	C C C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressioned Vertic	<del>c Soils<sup>1</sup></del> RR F, G, H)	73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20 17-20  NRCS Hydr	Hue 10YR Hue 2.5Y Hue 2.5Y Hue 2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A9 - 1 cm Mu	or secondary hydronsecondary h	eeded to doo latrix, CS=Cove	cators were observed to be considered to be considered. Color (100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	cator or co Grains; Locati Moist)  Moist)  not present edox Matrix Mucky Minera Sleyed Matrix I Matrix ark Surface	nfirm the absenion: PL=Pore Lining  Mottles  % Ty  Liping  Ty	nce of inc	Location	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ced Vertic Parent Material	C Soils 1  RR F, G, H)  DOS (LRR H, outisde MLRA 72,	73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20 17-20  NRCS Hydr	No primary  iption (Description)  Hue 10YR  Hue 2.5Y  Hue 2.5Y  Hue 2.5Y  Gradient Soil Field  A1- Histosol  A2 - Histic Ep  A3 - Black Histo  A4 - Hydroge  A5 - Stratifice  A6 - 1 cm Mu  A11 - Deplete	or secondary hydromatic betto the depth neetion, RM=Reduced M.  Matrix Color (Moist)  2/1  2.5/1  2.5/1  5/2  Indicators (chair)  Indicators (chair)  It also (LRR F)  It also (LRR F)  It de Below Dark Surface	eeded to doo latrix, CS=Cove	cators were observed to be cators were observed.	cator or co Grains; Locati  Moist)  Moist)  not present edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface	nfirm the absenion: PL=Pore Lining  Mottles  % Ty  Liping  Ty	nce of inc	Location	C C C C C C S A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ped Vertic Parent Material Shallow Dark S	c: Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outlade MLRA 72,  Surface	73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20 17-20  NRCS Hydr	Hue 10YR Hue 2.5Y Hue 2.5Y Hue 2.5Y Hue 2.5Y 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 neetion, RM=Reduced M  Matrix Color (Moist)  2/1  2.5/1  2.5/1  5/2  Indicators (chairpedon stic in Sulfide IL ayers (LRR FGH) its defended and surface ark Surface in Sur	eeded to doo latrix, CS=Cove	cators were observed to be cators were observed.	cator or co Grains; Locati  Moist)  Moist)  not present  edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface epressions	nfirm the absenion: PL=Pore Lining  Mottles  % Ty  Liping  Ty	rce of inc i, M=Matrix /pe	Location	C C C C C C S A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ced Vertic Parent Material	c: Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outlade MLRA 72,  Surface	73)	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-17 17-20 17-20  NRCS Hydr	No primary  Iption (Description (Description)  Hue 10YR  Hue 2.5Y  Hue 2.5Y  Hue 2.5Y  Hue 2.5Y  A1- Histosol  A2- Histic Ep  A3- Black His  A4- Hydroge  A5- Stratificat  A4- I cm Mu  A11- Deplete  A12- Thick D  S1- Sandy M  S2- 2.5 cm N	or secondary hydromatic betto the depth neetion, RM=Reduced M.  Matrix  Color (Moist)  2/1  2.5/1  2.5/1  5/2  Indicators (charted in Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface lucky Mineral Mucky Peat or Peat (LR)	eeded to doo latrix, CS=Cove  9 10 10 7 3 neck here if	cators were observed to be cators were observed.	cator or co Grains; Locati  Moist)  Moist)  not present  edox Matrix Mucky Minera Gleyed Matrix I Matrix ark Surface I Dark Surface epressions	Infirm the absention: PL=Pore Lining  Mottles  % Ty  Lining  Mottles  % Ty  Lining  Mottles	rce of inc i, M=Matrix /pe	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	c: Soils <sup>1</sup> RR F, G, H)  DIS (LRR H, outlade MLRA 72,		
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-160n50w10-b1			
VEGETATIO		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:(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: 0.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.								
10.								
10.		0			OBL spp. 0 x 1 = 0			
	Total Cover =	0	_		FACW spp. 0 x 2 = 0			
					FAC spp. 0 x 3 = 0			
	Stratum (Plot size: 15 ft. radius)				FACU spp. 90 x 4 = 360			
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.								
10.	Total Cayon -	0			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.	Trifolium hybridum	25	Y	FACU				
2.	Melilotus officinalis	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be			
3.	Cirsium arvense	20	Υ	FACU	present, unless disturbed or problematic.			
4.	Andropogon gerardii	10	N	FACU	Definitions of Vegetation Strata:			
5.	Phleum pratense	5	N	FACU				
6	Elymus repens	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	Trifolium pratense	5	N	FACU	height (DBH), regardless of height.			
8.								
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.								
					Herb - All herbaceous (non-woody) plants, regardless of size.			
12.					Herb - All Herbaceous (Horrwoody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	90	_	_				
	<u> </u>							
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.				_				
3.					Hydrophytic Vegetation Present? N			
5.					,			
4.								
<del>4.</del>	Total Cover =	0						
Damarka			aura at alau	and O	Sanada thiatle. Direkturatan and other grasses make up a lease represent of the			
Remarks:		er, yellow	sweet clov	ver, and C	Canada thistle. Big bluestem and other grasses make up a lesser component of the			
site.								
Additional R	Remarks:							