## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/30/14						
Applicant:		Enbridge								County:	Kittson						
Investigators		BCS/BEH			Subregio	n (MLRA c		MLRA 56		State:	MN						
Soil Unit:	1248A			_			Classification	. <u> </u>									
Landform:	Depression				cal Relief:					Sample Point	w-160n50w14-a1						
Slope (%):	0 - 2%		Latitude: 48.6			-97.08463		Datum:		_							
		onditions on the site			ar? (If no, exp				□ No	Section:							
Are Vegetati		Or Hydrology		ly disturbed?		Are i	normal circun	•	esent?	Township:							
Are Vegetati		G or Hydrology	Liturally p	roblematic?			Yes	□No		Range:	Dir:						
SUMMARY OF FINDINGS     Hydrophytic Vegetation Present?     Yes     Hydric Soils Present? Yes																	
			Yes				Hydric Soils Present Is This Sampling Poi										
Wetland Hyd			Yes	- to al face also used		la a sta al lia											
Remarks:	Remarks: The wetland is a reed canary grass dominated fresh wet meadow located in a roadside ditch adjacent to a minimally-maintained dirt county road.																
HYDROLOG	Y																
Wetland Hy	/drology Ind	icators (Check all	that apply; N	Ainimum of or	ne primary	or two sec	condary requi	red):									
	Primary: Secondary:																
A1 - Surface Water					B11 - Salt (					B6 - Surface S							
✓ ✓	A2 - High Wa A3 - Saturatio				B13 - Aqua		Odor				Vegetated Concave Surface						
	B1 - Water M			C1 - Hydrogen Sulfide Odor  C2 - Dry Season Water Table  C3 - Oxidized Rhizospheres on Living Roots (not tille							Rhizospheres on Living Roots (tilled)						
	B2 - Sedimer										Burrows						
	B3 - Drift Dep				C4 - Prese						n Visible on Aerial Imagery						
	B4 - Algal Ma B5 - Iron Dep					Auck Surfac	e		<b>√</b>	D2 - Geomorp D5 - FAC-Neu							
		on Visible on Aerial Im	agery		Other (Exp	all)					aved Hummocks (LRR F)						
	B9 - Water-S	tained Leaves	lagery						-	Di - Host-hos							
Field Obser	vations:																
Surface Wat	ter Present?	Yes 🗹	Dept	th: <b>7</b>	(in.)						X						
Water Table		Yes 🗹	Dept		(in.)			Wetland H	lydrology	Present?	Y						
Saturation P	resent?	Yes 🗹	Dept	-	(in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																	
Describe Rec	orded Data (	stream dauge moni	itoring well a	erial photos pr	evious insp	ections) if	available.										
			-		evious insp	pections), if	available:										
Describe Rec Remarks:		stream gauge, moni ter is present to a c	-		evious insp	pections), if	available:										
			-		evious insp	pections), if	available:										
Remarks:	Surface wa	ter is present to a o	depth of 7 in	ches.				ndicators.)									
Remarks: SOILS Profile Descr	Surface wa		depth of 7 in	ches. ument the indi	cator or co	onfirm the	absence of ir										
Remarks: SOILS Profile Descr	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma	depth of 7 in	ches. ument the indi	cator or co	onfirm the tion: PL=Por	absence of ir e Lining, M=Mati										
Remarks: SOILS Profile Descr (Type: C=Conce	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma Matrix	depth of 7 in eeded to doci atrix, CS=Cover	ches. ument the indi red/Coated Sand	cator or co Grains; Locat	onfirm the tion: PL=Por Mottles	absence of ir e Lining, M=Matr	rix)									
Remarks: SOILS Profile Descr	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma	depth of 7 in	ches. ument the indi red/Coated Sand	cator or co Grains; Locat	onfirm the tion: PL=Por	absence of ir e Lining, M=Mati		Texture		Remarks						
Remarks: SOILS Profile Descr (Type: C=Conce	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma Matrix	depth of 7 in eeded to doci atrix, CS=Cover	ches. ument the indi red/Coated Sand	cator or co Grains; Locat	onfirm the tion: PL=Por Mottles	absence of ir e Lining, M=Matr	rix)	Texture		Remarks						
Remarks: SOILS Profile Descr (Type: C=Conce	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma Matrix	depth of 7 in eeded to doci atrix, CS=Cover	ches. ument the indi red/Coated Sand	cator or co Grains; Locat	onfirm the tion: PL=Por Mottles	absence of ir e Lining, M=Matr	rix)	Texture		Remarks						
Remarks: SOILS Profile Descr (Type: C=Conce	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma Matrix	depth of 7 in eeded to doci atrix, CS=Cover	ches. ument the indi red/Coated Sand	cator or co Grains; Locat	onfirm the tion: PL=Por Mottles	absence of ir e Lining, M=Matr	rix)	Texture		Remarks						
Remarks: SOILS Profile Descr (Type: C=Conce	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma Matrix	depth of 7 in eeded to doci atrix, CS=Cover	ches. ument the indi red/Coated Sand	cator or co Grains; Locat	onfirm the tion: PL=Por Mottles	absence of ir e Lining, M=Matr	rix)	Texture		Remarks						
Remarks: SOILS Profile Descr (Type: C=Conce	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma Matrix	depth of 7 in eeded to doci atrix, CS=Cover	ches. ument the indi red/Coated Sand	cator or co Grains; Locat	onfirm the tion: PL=Por Mottles	absence of ir e Lining, M=Matr	rix)	Texture		Remarks						
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.)	Surface wa	ter is present to a dibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	depth of 7 in eeded to doci atrix, CS=Cover	ches. ument the indi red/Coated Sand	cator or co Grains; Locat	onfirm the tion: PL=Por Mottles	absence of ir e Lining, M=Matr	rix)	Texture		Remarks						
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Surface wa	ter is present to a dibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to doci atrix, CS=Cover %	Ches. ument the indi ed/Coated Sand Color ( Color ( Color ( S5 - Sandy R	Cator or co Grains; Locat Moist)	Mottles	absence of ir e Lining, M=Matr S Type	Location	Indicators 1 A9 - 1 cm M	luck (LRR I, J)	<u>c Soils<sup>1</sup></u>						
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Surface wa iption (Descr ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep	ter is present to a dibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch	eeded to doce atrix, CS=Cover %	ches. ument the indi ed/Coated Sand Color ( Color ( Color ( S5 - Sandy R S5 - Sandy R S6 - Stripped	Moist) Moist) mot presen Redox	Mottles	absence of ir e Lining, M=Matr S Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (L	<u>c Soils1</u> .RR F, G, H)						
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Surface wa iption (Descr ntration, D=Depi intration, D=Depi intr	ter is present to a dibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Color (Moist) Indicators (ch spedon stic	eeded to doc: atrix, CS=Cover %	ches. ument the indi red/Coated Sand Color ( Color ( Color ( S5 - Sandy R S6 - Stripped F1 - Loamy M	Cator or cc Grains; Local Moist) Moist) not presen Redox Matrix Jucky Minera	nfirm the tion: PL=Port	absence of ir e Lining, M=Matr S Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S	luck (LRR I, J) Prairie Redox (L urface (LRR G)	<u>c Soils1</u> .RR F, G, H)						
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Surface wa	ter is present to a dibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Color (Moist) Indicators (ch stic n Sulfide	eeded to doct atrix, CS=Cover %	ches.	Cator or cc Grains; Local Moist) mot presen Redox Matrix Mucky Minera	nfirm the tion: PL=Port	absence of ir e Lining, M=Matr S Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost H S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	<mark>c Soils1</mark> .RR F, G, H)						
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr NRCS Hydr C	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eee [	ches.	Cator or cc Grains; Local Moist) Moist) not presen Redox Mucky Minera Gleyed Matrix J Matrix Jucky Minera Gleyed Matrix J Matrix J Matrix J Dark Surface J Dark Surface	mfirm the tion: PL=Por	absence of ir e Lining, M=Matr Type	ix)	Indicators 1 A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material	<u>c Soils<sup>1</sup></u> LRR F, G, H) ONS (LRR H, outisde MLRA 72, 73) Surface						
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr NRCS Hydr U U U U U U U U U U U U U	A1- Histosol A1- Histosol A1- Histosol A1- Histosol A1- Histosol A2- Histic Er A3 - Black Hi A4 - Hydroge A5 - Stratifice A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm Mu	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Color (Moist) Indicators (ch stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral Mucky Peat or Peat (LR) ck y Peat or Peat (LR)	eeded to doc: atrix, CS=Cover % % % % % % % % % % % % % % % % % % %	ches.	Cator or cc Grains; Local Moist) Moist) not presen Redox Mucky Minera Gleyed Matrix J Matrix Jucky Minera Gleyed Matrix J Matrix J Matrix J Dark Surface J Dark Surface	mfirm the tion: PL=Por	absence of ir e Lining, M=Matr Type	ix)	Indicators 1 A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High F F18 - Reduc FF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressii sed Vertic Parent Material Shallow Dark S ain in Remarks)	<u>c Soils<sup>1</sup></u> LRR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface						
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: w-160n50w14-a1					
VEGETATIO	N (Species identified in all uppercase an Plot size: 30 ft. radius)	e non-native	species.)							
	<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.										
2.					Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata: <u>3</u> (B)					
<u>5.</u> 6.					Demonst of Deminant Section That Are ODL EACIAL as EAC: $\frac{100.02}{100.02}$					
7.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)					
8.					Prevalence Index Worksheet					
9.	<u> </u>				Total % Cover of: Multiply by:					
10.					OBL spp. 10 x 1 = 10					
	Total Cover =	0			FACW spp. 40 x 2 = $\frac{100}{100}$					
			FAC spp. 0 x 3 = 0							
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 2 x 4 = 8					
1.					UPL spp. 0 x 5 = 0					
2.										
3.					Total <u>52</u> (A) <u>98</u> (B)					
4.										
5.	<u> </u>				Prevalence Index = B/A = <u>1.885</u>					
6.	<u> </u>									
7. 8.					Hydrophytic Vegetation Indicators:					
0. 9.										
9. 10.	<u> </u>				Rapid Test for Hydrophytic Vegetation X Dominance Test is > 50%					
10.	Total Cover =	0			$\frac{X}{X} = \frac{1}{2} \text{Dominance restricts > 30\%}$					
		•	_		Morphological Adaptations (Explain) *					
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Phalaris arundinacea	20	Y	FACW	································					
2.	Alisma triviale	10	Y	OBL	* Indicators of hydric soil and wetland hydrology must be					
3.	Veronica peregrina	10	Y	FACW	present, unless disturbed or problematic.					
4.	Persicaria pensylvanica	5	Ν	FACW	Definitions of Vegetation Strata:					
5.	Rumex stenophyllus	5	N	FACW	_					
6	Ambrosia artemisiifolia	2	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.				-	height (DBH), regardless of height.					
8.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
9. 10.					Saping/Shrub - Woody plants less than 5 m. Dbri, regardless of height.					
10.										
11.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13.				-						
13.										
15.					Woody Vines - All woody vines, regardless of height.					
-	Total Cover =	52								
	-									
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? Y					
5.	1									
4.	Tatal Origina	0								
Remarks:	Total Cover =		rthern wat	er nlantai	n and a second se					
Remarks: The wetland is dominated by reed canary grass and northern water plantain.										
Additional Remarks:										