WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/24/14
Applicant:		Enbridge								County:	Pennington
Investigators		MRK/OTG			_Subregior	•	A or LRR):	MLRA 56		State:	MN
Soil Unit:	I16F			_			I Classification:	:			
Landform:	Talf		10.0		cal Relief:		00.10007			Sample Point:	u-153n43w29-f1
Slope (%):	0 - 2%	. P.C	Latitude: 48.04		Longitude:			<u>Datum:</u>			
		nditions on the sit			ar? (If no, exp				□ No	Section:	
Are Vegetation		□, or Hydrology				Are	e normal circun	•	esent?	Township:	
Are Vegetation		□, or Hydrology	□aturally pro	blematic?			Yes	□ No		Range:	Dir:
SUMMARY C			NI.					Lludria Cail	la Duana (14)	Ne	
Hydrophytic '			No		_				s Present?		otlond? No
Wetland Hyd			No No	d alonoino eto al	بالط البينة		and Canada as		npling Poin	nt Within A W	etland? No
Remarks:	rne upiano	sample point is lo	cated in a field	a dominated	by fowl blu	egrass a	and Canada go	idenroa.			
LIVEROLOG	V										
HYDROLOG											
	•	icators (Check all	I that apply; M	inimum of or	ne primary o	or two s	econdary requi	red):			
Primary:	_			_	544 6 44				Secondary:		
	A1 - Surface ' A2 - High Wa				B11 - Salt 0 B13 - Aqua					B6 - Surface S	
	A3 - Saturation				C1 - Hydrog					B10 - Sparsely	Vegetated Concave Surface
	B1 - Water M				C2 - Dry Se						Rhizospheres on Living Roots (tilled
	B2 - Sedimen	•			C3 - Oxidize	ed Rhizos	spheres on Living	Roots (not till	€ □	C8 - Crayfish I	Burrows
	B3 - Drift Dep		C4 - Preser						n Visible on Aerial Imagery		
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin M		ace			D2 - Geomorp D5 - FAC-Neu	
		osits on Visible on Aerial Im	nagery		Other (Expl	airi)					aved Hummocks (LRR F)
		tained Leaves	.ago.y						_	27 110011101	2.03.13
Field Observ	vations:										
Surface Wat	er Present?	Yes □	Depth	:	(in.)			\A/-4111		D	NI.
Water Table	Present?	Yes □	Depth		– (in.)			wetiand F	lydrology l	Present?	N
Saturation P	resent?	Yes □	Depth		- /in \						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s		<u> </u>		_ (in.)	ections)	if available:				
		stream gauge, mon	itoring well, aeı	ial photos, pr	evious insp	ections),	if available:				
Describe Rec			itoring well, aeı	ial photos, pr	evious insp	ections),	if available:				
Remarks:		stream gauge, mon	itoring well, aeı	ial photos, pr	evious insp	ections),	if available:				
Remarks:	No primary	stream gauge, mon or secondary hydr	itoring well, aer	rial photos, pr ators were of	revious inspo oserved.	,		ndicators.)			
Remarks: SOILS Profile Descri	No primary	stream gauge, mon	itoring well, aer	rial photos, protors were of	revious insposerved.	onfirm th	e absence of in				
Remarks: SOILS Profile Descri	No primary	stream gauge, monor secondary hydroide ibe to the depth neetion, RM=Reduced M	itoring well, aer	rial photos, protors were of	revious insposerved.	onfirm th	e absence of in				
Remarks: SOILS Profile Descri	No primary	stream gauge, monor secondary hydronic ibe to the depth ne	itoring well, aer	rial photos, protors were of	revious insposerved.	onfirm th	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri	No primary	stream gauge, monor secondary hydroide ibe to the depth neetion, RM=Reduced M	itoring well, aer	rial photos, protors were of	evious insposerved. icator or co	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, aerological indicated to docuratrix, CS=Covere	rial photos, protors were obtained the ind	evious insposerved. icator or co	nfirm th ion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	Texture CL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Description, D=Depl	or secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, aerological indicated to docuratrix, CS=Covere	rial photos, protors were obtained the ind	evious insposerved. icator or co	nfirm th ion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	Texture CL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	No primary iption (Description, D=Depl	or secondary hydrological beto the depth neetion, RM=Reduced M Matrix Color (Moist) 3/1	itoring well, aer rological indicate eeded to docur atrix, CS=Covere	rial photos, protors were obtained the ind	evious insposerved. icator or co	nfirm th ion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	Texture CL		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20	No primary iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y	stream gauge, monor secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 5/2	itoring well, aer rological indicate eeded to docur atrix, CS=Covere	ment the ind	revious insposerved. icator or co Grains; Locat	onfirm th ion: PL=P Mottle %	e absence of in ore Lining, M=Matr	ix)	Texture CL C		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20	No primary iption (Description, D=Depl	stream gauge, monor secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 5/2	itoring well, aer rological indicate eeded to docur atrix, CS=Covere	ment the ind	revious insposerved. icator or co Grains; Locat	onfirm th ion: PL=P Mottle %	e absence of in ore Lining, M=Matr es Type	ix)	CL	or Problematic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	No primary iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y	stream gauge, monor secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 5/2	itoring well, aer rological indicate eeded to docur atrix, CS=Covere	ment the ind	cevious inspersed. icator or co Grains; Locati (Moist) not present	onfirm th ion: PL=P Mottle %	e absence of in ore Lining, M=Matr es Type	Location	CL C	or Problemation	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20	No primary iption (Description, D=Deplementation, D=Deplementation	stream gauge, monor secondary hydrological beto the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 5/2 Indicators (characters)	itoring well, aer rological indicate eeded to docur atrix, CS=Covere	ment the ind	revious inspersed. icator or co Grains; Locati (Moist) not present	onfirm th ion: PL=P Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His	stream gauge, monor secondary hydrone ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 5/2 Indicators (chappedonestic	itoring well, aer rological indicate eeded to docur atrix, CS=Covere	cial photos, protectors were obtained. Color (Color (Colo	cevious inspersed. icator or co Grains; Locati (Moist) not present Redox d Matrix Mucky Minera	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	iption (Description, Depoint Intration, Depoint Int	stream gauge, monor secondary hydrone ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 5/2 Indicators (chapped on stice in Sulfide	itoring well, aer rological indicate eeded to docur atrix, CS=Covere % 100 100 neck here if ince	cial photos, protors were obtained. The ment the indicated Sand Color (Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F	mot present Redox d Matrix Mucky Minera	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	stream gauge, monor secondary hydrone ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 5/2 Indicators (chapped on stice in Sulfide in Sulfide in Layers (LRR F)	itoring well, aer rological indicate eeded to docur atrix, CS=Covere	cial photos, protectors were obtained. Color (Coated Sand Sand Sand Sand Sand Sand Sand San	cevious insperserved. icator or co Grains; Locati Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix d Matrix	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	stream gauge, monor secondary hydronomic secondary hydronomic secondary hydronomic stream gauge, monor secondary hydronomic secondary h	itoring well, aer rological indicate eeded to docur atrix, CS=Covere %	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F	icator or co Grains; Locati (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	stream gauge, monor secondary hydror hydror secondary hydror hydr	itoring well, aer rological indicate eeded to docur atrix, CS=Covere %	cial photos, protectors were obtained. Color (Coated Sand Sand Sand Sand Sand Sand Sand San	icator or co Grains; Locati (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	stream gauge, monor secondary hydror hydror secondary hydror h	itoring well, aer rological indicate eeded to docur atrix, CS=Covere %	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	revious insperserved. icator or cograins; Locati (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field 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 N	stream gauge, monor secondary hydromore ibe to the depth need item (Matrix) Color (Moist) 3/1 5/2 Indicators (characters)	itoring well, aer rological indicate eeded to docur atrix, CS=Covere %	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	revious insperserved. icator or cograins; Locati (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	Mottle %	e absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Red Vertic Parent Material Shallow Dark S Rain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field 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	stream gauge, monor secondary hydromore ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 3/1 5/2 Indicators (chapted on Stice on Sulfide on Su	itoring well, aer rological indicate eeded to docur atrix, CS=Covere %	color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	revious insperserved. icator or cograins; Locati (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	Mottle %	e absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-153n43w29-f1				
					-				
VEGETATION	(Species identified in all uppercase a	are non-native	species.)						
Tree Stratum (Plot size: 30 ft. radius)								
	<u>Species Name</u>	% Cover	<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:(B)				
5.									
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. $\begin{array}{cccccccccccccccccccccccccccccccccccc$				
	Total Cover	= 0	_	FACW spp. $\underline{\qquad \qquad 0 \qquad \qquad } $ $\times 2 = \underline{\qquad \qquad 0 \qquad }$					
					FAC spp. $\underline{\hspace{1cm}}$ $X 3 = \underline{\hspace{1cm}}$ 30				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp85				
1.					UPL spp15				
2.									
3.					Total 110 (A) 445 (B)				
4.									
5.					Prevalence Index = B/A = 4.045				
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 (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Poa pratensis	40	Υ	FACU	<u></u>				
2.	Solidago canadensis	30	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Bromus inermis	15	 N	UPL	present, unless disturbed or problematic.				
4.	Symphyotrichum ericoides	15	N	FACU	Definitions of Vegetation Strata:				
5.	Sonchus arvensis	10	N	FAC					
6		1		1710	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.		1			height (DBH), regardless of height.				
8.									
9.	l .	1			Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.				_	Gapinig/Oniab				
11.									
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.		1			TIEID - 7 III TIOI Subsection (TIOIT WOOD)/ Plante, Togaraices of Cize.				
14.		1							
					Woody Vines - All woody vines, regardless of height.				
15.	Tatal Oassa	440			WOOdy Vines - All woody vines, regardless of fleight.				
	Total Cover	= 110	<u> </u>						
Woody Vine Sti	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
5.	<u> </u>								
4.									
	Total Cover								
Remarks:	The upland sample point is dominated by for	owl bluegras	s and Car	nada golde	enrod.				
Additional Remarks:									