WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/27/14	
Applicant:		Enbridge				Ol '	/ N A I 🗁 ^	۸ میا DD\-			County:	Pennington	
Investigators		BEH/NTT				_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit: Landform:	I62A Crest				10	cal Relief:		'I Classification:	•		Sample Point	u-154n44w28-e1	
Slope (%):	3 - 7%		Latitude: 48	3,1236		Longitude:		3891996	Datum:			<u>м 10-111-11120-01</u>	
. , ,		onditions on the site							✓ Yes	□ No	Section:		
Are Vegetation						(11111)		e normal circun			Township:		
Are Vegetation		l □, or Hydrology	□aturally	-				✓ Yes	□ No		Range:	Dir:	
SUMMARY C			,	•							Ü		
Hydrophytic '	Vegetation P	resent?	No)					Hydric Soil	ls Present?	' No		
Wetland Hyd	drology Prese	ent?	No)					Is This Sar	mpling Poir	nt Within A W	etland? No	
Remarks:	Upland san	nple point in a smo	oth brome-	-domi	nated field	l, upslope	from a w	vet meadow wit	hin a petrole	eum pipelin	e corridor.		
HYDROLOG	Υ												
Wetland Hy	drology Ind	icators (Check all	that apply;	Minii	mum of or	e primary	or two s	econdary requi	red):				
Primary	•	(-	, ,	,				, , ,	- · ,	Secondary	<u>:</u>		
	A1 - Surface					B11 - Salt					B6 - Surface S		
	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturation B1 - Water M					C1 - Hydro C2 - Dry S					B10 - Drainage	e Patterns Rhizospheres on Living Root	e (tillod)
	B2 - Sedimer							spheres on Living	Roots (not till	. □	C8 - Crayfish I		s (tilled)
	B3 - Drift Dep	•						educed Iron	rtoots (not till	`		n Visible on Aerial Imagery	
	B4 - Algal Ma				_	C7 - Thin N				_	D2 - Geomorp		
	B5 - Iron Dep	osits				Other (Exp	lain)				D5 - FAC-Neu		
		on Visible on Aerial Im	agery								D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves											
Field Observ													
Surface Wat		Yes □	De	epth: _		_ (in.)			Wetland H	lydrology	Present?	N	
Water Table		Yes □	De	epth: _		_ (in.)			Wolland I	iyai ology			
Saturation P	resent?	Yes □	De	epth: _		(in.)							
						- ` ´							
Describe Rec	orded Data (stream gauge, moni	toring well, a	aerial	photos, pr	evious insp	ections),	<u> </u> , if available:					
	<u> </u>	stream gauge, moni			• • •		ections),	, if available:					
Describe Rec	<u> </u>	stream gauge, moni			• • •		ections),	, if available:					
Remarks:	<u> </u>				• • •		pections),	, if available:					
Remarks:	No primary		ological ind	dicato	rs were ob	served.	,		ndicators.)				
Remarks: SOILS Profile Descri	No primary	or secondary hydro	ological ind	dicato	ors were observed the indicate of the indicate	oserved.	onfirm th	ne absence of ir					
Remarks: SOILS Profile Descri	No primary	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma	ological ind	dicato	ors were ob	oserved.	onfirm th	ne absence of in Pore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix	eded to do	ocume vered/C	ent the indi	cator or co	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)				
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrological hydro	eeded to do	ocume vered/C	ors were ob	cator or co	onfirm th	ne absence of in Pore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydrological hydro	eeded to do	ocume vered/C	ent the indi	cator or co	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)	Texture LS	abundant pebbles		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrological hydro	eeded to do	ocume vered/C	ent the indi	cator or co	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)		abundant pebbles		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrological hydro	eeded to do	ocume vered/C	ent the indi	cator or co	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)		abundant pebbles		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrological hydro	eeded to do	ocume vered/C	ent the indi	cator or co	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)		abundant pebbles		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrological hydro	eeded to do	ocume vered/C	ent the indi	cator or co	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)		abundant pebbles		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydrological hydro	eeded to do	ocume vered/C	ent the indi	cator or co	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)		abundant pebbles		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21	No primary iption (Descriptration, D=Depl	or secondary hydrological ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	eded to do atrix, CS=Cov	ocume vered/C	ent the indicoated Sand	cator or co	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)		abundant pebbles		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21	No primary iption (Descr	or secondary hydrological ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	eeded to do	ocume vered/C	ent the indicoated Sand	cator or co	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr les Type	ix)	LS	abundant pebbles		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	No primary iption (Descriptration, D=Depl	or secondary hydrological ibe to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	eded to do atrix, CS=Cov	ocume vered/C	ent the indicoated Sand Color (cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr les Type	Location	LS	for Problematic		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch	eded to do atrix, CS=Cov	ocume vered/C	ent the indicoated Sand	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators: A9 - 1 cm N		c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	No primary iption (Description, D=Depleter) Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Histosol	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch	eded to do atrix, CS=Cov	cume vered/C	cators are response to the indicated Sand Color (Solution Sand Sand Sand Sand Sand Sand Sand San	cator or co Grains; Loca Moist) Moist) not presentedox Matrix Mucky Miner	mottl Mottl // // // // // // // // // // // // /	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation Muck (LRR I, J) t Prairie Redox ourface (LRR G)	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	No primary iption (Description, D=Depinion, D=Depinion) Hue_10YR A1- Histosol A2 - Histic Epinion A3 - Black History A4 - Hydroge	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch	eded to do atrix, CS=Cov	cume vered/C	cators are response to the indicated Sand Color (Color	cator or co Grains; Loca Moist) Moist) not presentedox Matrix Mucky Miner Gleyed Matri	mottl Mottl // // // // // // // // // // // // /	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I	for Problemation Muck (LRR I, J) The Prairie Redox (LRR G) Plains Depression	c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch	eded to do atrix, CS=Cov	cume vered/C	cators are response to the indicated Sand Color (Society Sandy Research Sandy	cator or co Grains; Loca Moist) Moist) not presented with the content of the co	mottl Mottl % t):	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduce	for Problemation Muck (LRR I, J) t Prairie Redox ourface (LRR G) Plains Depression Ced Vertic	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch	eeded to dogatrix, CS=Covers	cume vered/C	Color (Cost Sand Coated Sand Coated Sand Cost Sand Color (Co	cator or concentration of presentation of pres	mottl Mottl % t):	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc	for Problemation Muck (LRR I, J) t Prairie Redox (urface (LRR G)) Plains Depression Ced 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.) 0-21 NRCS Hydr	iption (Description, D=Depinion) Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surface	eeded to dogatrix, CS=Covers	cume vered/C	cators are respectively. Color (Color	cator or co Grains; Loca Moist) Moist) not presented with the content of the co	mottl Mottl % t):	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduce TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (LRR G) Plains Depression ced 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.) 0-21 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surface Dark Surface	eeded to dogatrix, CS=Covers	cume vered/C	cators are respectively. Color (Color	cator or configurations; Local Moist) Moist) not present ledox Matrix Mucky Miner Gleyed Matrix Dark Surface Dark Surface Depressions	monfirm the tion: PL=P Mottl % t): al x ace	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduce TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (urface (LRR G)) Plains Depression Ced 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.) 0-21 NRCS Hydr	iption (Descrintration, D=Depindration, D=Depindration) Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epindratic Epindrat	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surface lucky Mineral	eeded to docatrix, CS=Covered	cume vered/C	cators are respectively. Color (Color	cator or configurations; Local Moist) Moist) not present ledox Matrix Mucky Miner Gleyed Matrix Dark Surface Dark Surface Depressions	monfirm the tion: PL=P Mottl % t): al x ace	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduce TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (LRR G) Plains Depression ced 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.) 0-21 NRCS Hydr	No primary iption (Description, D=Depinion, D=Depinio	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surface Dark Surface	eeded to docatrix, CS=Covered	cume vered/C	cators are respectively. Color (Color	cator or configurations; Local Moist) Moist) not present ledox Matrix Mucky Miner Gleyed Matrix Dark Surface Dark Surface Depressions	monfirm the tion: PL=P Mottl % t): al x ace	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expl	for Problemation Muck (LRR I, J) t Prairie Redox ourface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	C Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	e present.
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	No primary iption (Description, D=Depinion, D=Depinio	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) ock (LRR FGH) ed Below Dark Surface lucky Mineral Mucky Peat or Peat (LR licky Peat or Peat (LR)	eeded to docatrix, CS=Covered	cume vered/C	cators are respectively. Color (Color	cator or configurations; Local Moist) Moist) not present ledox Matrix Mucky Miner Gleyed Matrix Dark Surface Dark Surface Depressions	monfirm the tion: PL=P Mottl % t): al x ace	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problemation Muck (LRR I, J) t Prairie Redox ourface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	e present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	No primary iption (Description, D=Depinion, D=Depinion) Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epinion A3 - Black Histic Epinion A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick Epinion S1 - Sandy Missing S2 - 2.5 cm Missing S3 - 5 cm Mu	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch bipedon stic n Sulfide I Layers (LRR F) ock (LRR FGH) ed Below Dark Surface lucky Mineral Mucky Peat or Peat (LR licky Peat or Peat (LR)	eeded to docatrix, CS=Covered	cume vered/C	cators are respectively. Color (Color	cator or configurations; Local Moist) Moist) not present ledox Matrix Mucky Miner Gleyed Matrix Dark Surface Dark Surface Depressions	monfirm the tion: PL=P Mottl % t): al x ace	ne absence of in Pore Lining, M=Matr les Type	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problemation Muck (LRR I, J) It Prairie Redox ourface (LRR G) Plains Depression Ced Vertic Parent Material If Shallow Dark Stain in Remarks)	C Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	e present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-21 NRCS Hydr	No primary iption (Description, D=Depinion, D=Depinio	or secondary hydro ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 Indicators (ch sipedon stic n Sulfide I Layers (LRR F) ock (LRR FGH) ed Below Dark Surface lucky Mineral Mucky Peat or Peat (LR leyed Matrix	eeded to docatrix, CS=Covered	cume vered/C	cators are respectively. Color (Color	cator or congrains; Local Moist) Moist) not present dedox Matrix Mucky Miner Gleyed Matrix Matrix Dark Surface Dark Surface Depressions ains Depressions	monfirm the tion: PL=P Mottl % t): al x ace	e absence of incore Lining, M=Matrolles Type U LRA 72, 73 of LRF	Location	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Explain	for Problemation Muck (LRR I, J) It Prairie Redox ourface (LRR G) Plains Depression Ced Vertic Parent Material If Shallow Dark Stain in Remarks)	C Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	e present,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w28-e1
					•
VEGETATION		re non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>opeoles Ivaime</u>	<u>70 COVCI</u>	Dominant	<u>ma.otatus</u>	
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.					
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
	Total Cover =	0	<u> </u>		FACW spp. $0 \times 2 = 0$
Caralina y/Charala C	Directions (Diet einer 45 ft verdirect)				OBL spp. 0
Sapiing/Shrub S	Stratum (Plot size: 15 ft. radius)				UPL spp. $\frac{10}{70}$ $\frac{10}{x}$ $\frac{4}{5}$ $\frac{40}{350}$
2.					$OFL spp. \underline{ 70 } X S = \underline{ 350}$
3.					Total 80 (A) 390 (B)
4.					. S.a. <u>55 (7)</u>
5.					Prevalence Index = B/A = 4.875
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) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	70	Y	UPL	
2.	Symphyotrichum ericoides	10	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					Troo
6 7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
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 =	80			
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?N
5.					
4.	Total Cover =	0			
Remarks:	Field dominated by smooth brome with scatt		aster		
i tomains.	Tiola dominated by sillouti brothe with stati	ioreu neall	นงเชา.		
Additional R	lemarks:				
Additional R	Ciliai No.				