## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/26/14
Applicant:		Enbridge							County:	Pennington	
Investigators	¥				Subregion (MLRA or LRR): MLRA 56					State:	MN
Soil Unit:	169A					NWI Classification:					
Landform:	Depression				Local Relief	cal Relief: CC					: w-153n44w3-h1
Slope (%):	0 - 2%		Latitude: 48	3.100444	Longitude	: -96.286	6775	Datum:			
Are climatic/h	hydrologic co	nditions on the sit	e typical for	r this time of	year? (If no, ex	plain in rem	arks)	☑ Yes	□ No	Section:	
Are Vegetation	on 🛛 Soil	□, or Hydrology	⊐significar	ntly disturbe	d?	Ar	e normal circum	stances pre	esent?	Township:	
Are Vegetation	on 🛛 Soil	□, or Hydrology	Daturally	problematic	?		Ves	□ No		Range:	Dir:
SUMMARY C	of Findings	5									
Hydrophytic V	Vegetation P	resent?	Ye	es				Hydric Soil			
Wetland Hyd	Irology Prese	nt?	Ye	es				Is This Sar	npling Poir	nt Within A W	etland? Yes
Remarks:	A wet mead	ow dominated by	reed canary	y grass in a	depression.	Outside t	the survey corric	dor to the no	orth, the co	mmunity tran	sitions into a shallow marsh. All
parameters of wetland conditions are present.											
HYDROLOG	Y										
Wetland Hy	drology Indi	i <b>cators</b> (Check all	I that apply:	· Minimum o	f one primary	or two s	econdary requir	red)•			
Primary:			r that apply,	, wiir iir ruur ru	i one primary		econdary requi	eu).	Secondary:		
	A1 - Surface \	Water			D B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa				□ B13 - Aqu		a				Vegetated Concave Surface
	A3 - Saturatio	n				ogen Sulfic				B10 - Drainage	e Patterns
	B1 - Water Ma						ater Table				Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•					spheres on Living I	Roots (not tille	• •	C8 - Crayfish E	
	B3 - Drift Dep B4 - Algal Ma					ence of Re Muck Surf	educed Iron			D2 - Geomorp	n Visible on Aerial Imagery
	B5 - Iron Dep				□ Other (Ex		ace		<b>∑</b>	D5 - FAC-Neu	
		n Visible on Aerial In	nagerv			piairij					aved Hummocks (LRR F)
	B9 - Water-St		i i ger y						_		,
Field Observ	vations:										
Surface Wate		Yes 🛛	De	epth:	(in.)						
Water Table		Yes D		epth:	(in.)			Wetland H	lydrology	Present?	Y
Saturation Pr		Yes D		epth:	(in.)						
				·							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks:		•	e clinging to	o the vegeta	ion near the	ground, v	where bare soil i	s exposed t	there is drie	ed up duckwe	ed. Indicators of wetland
	hydrology a	re present.									
SOILS Describe	intion (Decori	ha ta tha danth na	and ad to do	oursent the	indiactor or a	onfirm th	o obconco of in	diastors )			
		be to the depth ne etion, RM=Reduced M									
								^)			
		Matrix				Mottl	es				
Depth (In )		Matrix Color (Moist)		% Co	or (Moist)	Mottl		Location	Texture		Remarks
Depth (In.)		Color (Moist)			or (Moist)	Mottl %	es Type	Location			Remarks
0-6	Hue_10YR	Color (Moist) 2/1	1	00	or (Moist)				MMI	mineral compone	
0-6 6-12	Hue_10YR	Color (Moist) 2/1 5/2	1) 9	00 94		%	Туре	М	MMI LCOS		ent is clay loam
0-6		Color (Moist) 2/1	1) 9	00					MMI		
0-6 6-12	Hue_10YR	Color (Moist) 2/1 5/2	1) 9	00 94		%	Туре	М	MMI LCOS		ent is clay loam
0-6 6-12	Hue_10YR	Color (Moist) 2/1 5/2	1) 9	00 94		%	Туре	М	MMI LCOS		ent is clay loam
0-6 6-12	Hue_10YR	Color (Moist) 2/1 5/2	1) 9	00 94		%	Туре	М	MMI LCOS		ent is clay loam
0-6 6-12 6-12	Hue_10YR	Color (Moist) 2/1 5/2 7/2		00 94 3 Hue_2		% 3	Туре	М	MMI LCOS		ent is clay loam
0-6 6-12 6-12	Hue_10YR Hue_2.5Y	Color (Moist) 2/1 5/2 7/2		00 94 3 Hue_2	.5Y 7/6	% 3	Type C	М	MMI LCOS LCOS		with CaCO3 concentrations
0-6 6-12 6-12	Hue_10YR Hue_2.5Y	Color (Moist) 2/1 5/2 7/2		00 94 3 Hue_2 f indicators a	.5Y 7/6	% 3	Type C	M M	MMI LCOS LCOS	redox associated	ent is clay loam with CaCO3 concentrations c Soils <sup>1</sup>
0-6 6-12 6-12 NRCS Hydr	Hue_10YR Hue_2.5Y	Color (Moist) 2/1 5/2 7/2 Indicators (ch		00 94 3 Hue_2 f indicators a S5 - San S6 - Strip	.5Y 7/6 are not preseindy Redox oped Matrix	% 3 nt):	Type C	M M	MMI LCOS LCOS Indicators f A9 - 1 cm M A16 - Coast	redox associated	ent is clay loam with CaCO3 concentrations <u>c Soils<sup>1</sup></u> (LRR F, G, H)
0-6 6-12 6-12 NRCS Hydr	Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	Color (Moist) 2/1 5/2 7/2 Indicators (ch		00 94 3 Hue_2 5 indicators a □ S5 - San □ S5 - San □ S5 - San □ S5 - San	.5Y 7/6 	% 3 nt):	Type C	M M	MMI LCOS LCOS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	redox associated	ent is clay loam with CaCO3 concentrations <u>c Soils<sup>1</sup></u> (LRR F, G, H)
0-6 6-12 6-12 NRCS Hydr	Hue_10YR Hue_2.5Y	Color (Moist) 2/1 5/2 7/2 Indicators (ch ipedon stic n Sulfide		00 94 3 Hue_2 4 5 6 indicators a □ S5 - San □ S6 - Strip ☑ F1 - Loan □ F2 - Loan	5Y 7/6 .5Y 7/6 	% 3 nt):	Type C	M M	MMI LCOS LCOS Indicators f A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F	<b>Tedox associated</b> <b>Tor Problematic</b> luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	ent is clay loam with CaCO3 concentrations <u>c Soils<sup>1</sup></u> (LRR F, G, H)
0-6 6-12 6-12 NRCS Hydr	Hue_10YR Hue_2.5Y	Color (Moist) 2/1 5/2 7/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F)		00 94 3 Hue_2 4 5 6 indicators a 5 5 5 5 5 5 5 5 5 5 5 5 5	5Y 7/6 .5Y 7/6 	% 3 ht): ral	Type C	M M	MMI LCOS LCOS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	ior Problematic ior Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic	ent is clay loam with CaCO3 concentrations <u>c Soils<sup>1</sup></u> (LRR F, G, H)
0-6 6-12 6-12 NRCS Hydr	Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	Color (Moist) 2/1 5/2 7/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	heck here if	00 94 3 Hue_2 3 Hue_2 6 indicators a □ S5 - San □ S5 - San □ S6 - Strip □ F1 - Loa □ F2 - Loa □ F3 - Dep □ F6 - Red	.5Y 7/6 	% 3 nt):	Type C	M M 	MMI LCOS LCOS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	redox associated <b>for Problematic</b> luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material	ent is clay loam with CaCO3 concentrations <u>c Soils<sup>1</sup></u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
0-6 6-12 6-12 NRCS Hydr	Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete	Color (Moist) 2/1 5/2 7/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac	heck here if	00 94 3 Hue_2 3 Hue_2 5 H	5Y 7/6 5Y 7/6 are not preser dy Redox oped Matrix my Mucky Mine my Gleyed Matri leted Matrix ox Dark Surfac leted Dark Surfac	% 3 nt): ral rix e ace	Type C	M M 	MMI LCOS LCOS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Tedox associated Tedox associated Tedox (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	ent is clay loam with CaCO3 concentrations c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
0-6 6-12 6-12 NRCS Hydr	Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	Color (Moist) 2/1 5/2 7/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface	heck here if	00 94 3 Hue_2 3 Hue_2 6 indicators a □ S5 - San □ S5 - San □ F1 - Loar □ F2 - Loar □ F2 - Loar □ F3 - Dep □ F6 - Red □ F7 - Dep □ F8 - Red	5Y 7/6 5Y 7/6 are not presen dy Redox oped Matrix my Mucky Mine my Gleyed Matri leted Matrix ox Dark Surfac leted Dark Surf ox Depressions	% 3 nt): ral rix e ace	Type C □	M M 0	MMI LCOS LCOS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	redox associated for Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio ced Vertic Parent Material	ent is clay loam with CaCO3 concentrations c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
0-6 6-12 6-12 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	Color (Moist) 2/1 5/2 7/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface	heck here if	00 94 3 Hue_2 3 Hue_2 6 indicators a □ S5 - San □ S5 - San □ F1 - Loar □ F2 - Loar □ F2 - Loar □ F3 - Dep □ F6 - Red □ F7 - Dep □ F8 - Red	5Y 7/6 5Y 7/6 are not presen dy Redox oped Matrix my Mucky Mine my Gleyed Matri leted Matrix ox Dark Surfac leted Dark Surf ox Depressions	% 3 nt): ral rix e ace	Type C	M M 0	MMI LCOS LCOS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Tedox associated Tedox associated Tedox (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	ent is clay loam with CaCO3 concentrations c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
0-6 6-12 6-12 NRCS Hydr	Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mur S3 - 5 cm Mur	Color (Moist) 2/1 5/2 7/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (LR	heck here if	00 94 3 Hue_2 3 Hue_2 6 indicators a □ S5 - San □ S5 - San □ F1 - Loar □ F2 - Loar □ F2 - Loar □ F3 - Dep □ F6 - Red □ F7 - Dep □ F8 - Red	5Y 7/6 5Y 7/6 are not presen dy Redox oped Matrix my Mucky Mine my Gleyed Matri leted Matrix ox Dark Surfac leted Dark Surf ox Depressions	% 3 nt): ral rix e ace	Type C □	M M 0	MMI LCOS LCOS A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Tedox associated Tedox associated Tedox associated Tedox ( Tedox ( Ted	ent is clay loam with CaCO3 concentrations c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
0-6 6-12 6-12 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mut A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	Color (Moist) 2/1 5/2 7/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (LR	heck here if	00 94 3 Hue_2 3 Hue_2 6 indicators a □ S5 - San □ S5 - San □ F1 - Loar □ F2 - Loar □ F2 - Loar □ F3 - Dep □ F6 - Red □ F7 - Dep □ F8 - Red	5Y 7/6 5Y 7/6 are not presen dy Redox oped Matrix my Mucky Mine my Gleyed Matri leted Matrix ox Dark Surfac leted Dark Surf ox Depressions	% 3 nt): ral rix e ace	Type C □	M M 0	MMI LCOS LCOS A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Tedox associated Tedox associated Tedox (International Tedox (LRR I, J) Prairie Redox ( Prairie Redox (	ent is clay loam with CaCO3 concentrations c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
0-6 6-12 6-12 ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mur S3 - 5 cm Mur	Color (Moist) 2/1 5/2 7/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (LR	heck here if	00 94 3 Hue_2 3 Hue_2 4 5 5 5 5 5 5 5 5 5 5 5 5 5	5Y 7/6 5Y 7/6 are not presen dy Redox oped Matrix my Mucky Mine my Gleyed Matri ny Gleyed Matrix ox Dark Surfac leted Dark Surfac leted Dark Surfac leted Dark Surfac	% 3 ht): ral ix e ace ssions (ML	Type C □	M M 0	MMI LCOS LCOS A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Tedox associated Tedox associated Tedox associated Tedox ( Tedox ( Ted	ent is clay loam with CaCO3 concentrations c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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0-6 6-12 6-12 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Muc S3 - 5 cm Muc S4 - Sandy Gi r Type: The soil has	Color (Moist) 2/1 5/2 7/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (LR ky Peat or Peat (LR leyed Matrix	heck here if	00 94 3 Hue_2 3 Hue_2 4 5 Indicators a □ S5 - San □ S5 - San □ S6 - Strip □ F1 - Loar □ F2 - Loar □ F3 - Dep □ F6 - Red □ F7 - Dep □ F8 - Red □ F16 - Hig	.5Y 7/6 	% 3 ht): ral ix e ace ssions (MI	□ Type C C C C C C C C C C C C C	M M 	MMI LCOS LCOS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla <sup>1</sup> Indicators of F unless disturbe	Tedox associated redox associated <b>for Problematic</b> luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetat ed or problematic.	ent is clay loam with CaCO3 concentrations c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be present,

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w3-h1
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) <u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>% Cover</u>	Dominant	<u>mu.status</u>	Dominance rest worksneet
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					
4.	<u> </u>				Total Number of Dominant Species Across All Strata: 1 (B)
5.					
6.	<u></u>				Percent of Dominant Species That Are OBL, FACW, or FAC: <b>100.0%</b> (A/B)
7.	J				
8.	J				Prevalence Index Worksheet
9.	J				Total % Cover of: Multiply by:
10.					OBL spp. $36$ x 1 = $36$
	Total Cover =	0			FACW spp. 75 x 2 = 150
			_		FACW spp.       75       x $2 =$ 150         FAC spp.       0       x $3 =$ 0         FACU spp.       0       x $4 =$ 0
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.					UPL spp. 0 $x 5 = 0$
2.					
3.					Total 111 (A) 186 (B)
4.					
5.					Prevalence Index = $B/A = 1.676$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	0			X Prevalence Index is $\leq 3.0$ *
					Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	75	Y	FACW	
2.	Carex pellita	15	N	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Beckmannia syzigachne	15	N	OBL	present, unless disturbed or problematic.
4.	Alisma triviale	5	Ν	OBL	Definitions of Vegetation Strata:
5.	Lemna minor	1	Ν	OBL	
6					<b>Tree -</b> 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.
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 =	111			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Remarks:	A wet meadow community dominated by ree	d canary g	rass. Hyd	rophytic v	egetation is present.
Additional F	Remarks:				