WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge									Date: County:	09/23/14 Pennington
Investigators	3:	MRK/OTG	Subregion (MLRA or LRR): MLRA 56						State:	MN		
Soil Unit:	19A					-	NWI	Classification:			1	
Landform:	Talf 3 - 7%		Local Relief: VL 8.0484855 Longitude: -96.2173				Deture			Sample Point	u-153n43w29-a1	
Slope (%): Are climatic/		onditions on the sit							Datum: ☑ Yes	□ No	Section:	
Are Vegetati		I □, or Hydrology			-			e normal circum			Township:	
Are Vegetati	•	I □, or Hydrology	•					Yes	□ No İ		Range:	Dir:
SUMMARY O												
Hydrophytic	-		No							s Present?		/etland? No
Wetland Hyd Remarks:		sample point is lo	No Noted in a l	-	ed sovber	an field			is this Sar	npling Poin	nt Within A W	elland? NO
				ounvan								
HYDROLOG	Υ											
Primary	<u>.</u>	icators (Check al	ll that apply	/; Minim				econdary requir	ed):	Secondary:		
	A1 - Surface A2 - High Wa					B11 - Salt (B13 - Aqua					B6 - Surface S B8 - Sparsely	Vegetated Concave Surface
	A3 - Saturatio	on				C1 - Hydro	gen Sulfid				B10 - Drainag	e Patterns
	B1 - Water M B2 - Sedimer					C2 - Dry Se C3 - Oxidiz		ter Table pheres on Living	Roots (not till	€ □	C3 - Oxidized C8 - Crayfish	Rhizospheres on Living Roots (tilled) Burrows
	B3 - Drift Dep	posits				C4 - Prese	nce of Re	duced Iron			C9 - Saturatio	n Visible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep					C7 - Thin M Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu	
		on Visible on Aerial Ir	magery									aved Hummocks (LRR F)
	B9 - Water-S	tained Leaves										
Field Obser	vations:											
Surface Wat		Yes 🗆	De	epth:		(in.)						N
Water Table		Yes 🛛		epth:		(in.)			wetland H	lydrology	Present?	<u>N</u>
Saturation P	resent?	Yes 🛛	De	epth:		(in.)						
Describe Rec	orded Data (stream gauge, mor	nitoring well,	. aerial p	photos, pre	vious insp	ections)	if available:				
			<u> </u>	,	, pro			li avaliable.				
Remarks:	No primary	or secondary hyd	-		-			li avaliable.				
SOILS		or secondary hyd	Irological ind	dicators	s were ob	served.			dicators)			
SOILS Profile Descr	iption (Descr		Irological inc	ocumen	s were obs	served.	onfirm the	e absence of in				
SOILS Profile Descr	iption (Descr	or secondary hyd ibe to the depth ne letion, RM=Reduced M	Irological inc	ocumen	s were ob	served.	onfirm the	e absence of in ore Lining, M=Matri				
SOILS Profile Descri (Type: C=Concer	iption (Descr	or secondary hyd ibe to the depth ne letion, RM=Reduced M Matrix	eeded to do	ocumen	s were obs	served. cator or co Grains; Locat	onfirm the ion: PL=Pe Mottle	e absence of in pre Lining, M=Matri	(x)	Toyturo		Pomorko
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descr ntration, D=Dep	or secondary hyd ibe to the depth no letion, RM=Reduced M Matrix Color (Moist)	eeded to do	ocumen vered/Coa	s were ob	served. cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks
SOILS Profile Descri (Type: C=Concer	iption (Descr ntration, D=Dep	or secondary hyd ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do	ocumen	s were obs	served. cator or co Grains; Locat	onfirm the ion: PL=Pe Mottle	e absence of in pre Lining, M=Matri	(x)	Texture C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	iption (Descr ntration, D=Dep	or secondary hyd ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do	ocumen ocumen wered/Coa % 100	s were obs	served. cator or co Grains; Locat	onfirm the ion: PL=Pe Mottle	e absence of in pre Lining, M=Matri	(x)	Texture C C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	iption (Descr ntration, D=Dep	or secondary hyd ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do	ocumen ocumen wered/Coa % 100	s were obs	served. cator or co Grains; Locat	onfirm the ion: PL=Pe Mottle	e absence of in pre Lining, M=Matri	(x)	Texture C C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	iption (Descr ntration, D=Dep	or secondary hyd ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do	ocumen ocumen wered/Coa % 100	s were obs	served. cator or co Grains; Locat	onfirm the ion: PL=Pe Mottle	e absence of in pre Lining, M=Matri	(x)	Texture C C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20	iption (Descr ntration, D=Dep Hue_10YR Hue_10YR	or secondary hyd ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 4/1	eeded to do Matrix, CS=Cov	ocumen overed/Coa % 100 100	s were obs	served.	nfirm the ion: PL=Po Mottle	e absence of in pre Lining, M=Matri es Type	(x)	Texture C C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20	iption (Descr ntration, D=Dep Hue_10YR Hue_10YR	or secondary hyd ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) 2/1 4/1	eeded to do	ocumen overed/Coa % 100 100 if indicat	s were obs	served.	nfirm the ion: PL=Po Mottle	e absence of in pre Lining, M=Matri	x)	C C Indicators f	for Problemati	<u>c Soils¹</u>
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20	iption (Descr ntration, D=Dep Hue_10YR Hue_10YR ric Soil Field	or secondary hyd ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 Indicators (Classical Statements)	eeded to do Matrix, CS=Cov	ocumen vered/Coa % 100 100 if indicat	s were obs	served.	nfirm the ion: PL=Po Mottle	e absence of in pre Lining, M=Matri es Type	x) Location	C C Indicators f A9 - 1 cm M	luck (LRR I, J)	<u>c Soils¹</u>
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	iption (Descr ntration, D=Dep Hue_10YR Hue_10YR	or secondary hyd ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 Indicators (classical Dipedon	eeded to do Matrix, CS=Cov	ocumen overed/Coa % 100 100 if indicat	s were obs	served.	onfirm the ion: PL=Po Mottle %	e absence of in pre Lining, M=Matri es Type	x) Location	C C Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J)	<u>c Soils¹</u> (LRR F, G, H)
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	or secondary hyd ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 1 Indicators (cl bipedon stic n Sulfide d Layers (LRR F)	eeded to do Matrix, CS=Cov	ocumen vered/Coa % 100 100 if indicat if indicat S5 S6 S6 F1 S6 F1 S6 F1 S6 F1 S6 F1 S6 F1 S6 F1 S6 F1 S6 F1 S7 S6 S6 S6 S6 S6 S6 S6 S6 S6 S6 S6 S6 S6	s were obs at the indic ated Sand G Color (N Color (N Color Sandy Re S - Stripped - Loamy M Coamy G - Depleted	served.	mfirm the ion: PL=Po Mottle %	e absence of in pre Lining, M=Matri es Type	x)	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	<u>c Soils¹</u> (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	or secondary hyd ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 1 Indicators (cl pipedon stic n Sulfide d Layers (LRR F) ick (LRR FGH) ed Below Dark Surface	eeded to do Matrix, CS=Cov	ocumen vered/Coa % 100 100 100 if indicat s5 S6 S6 S6 F1 S6 F1 S6 F1 F2 F3 F3 F6 F7	s were obs at the indic ated Sand G Color (N Color (N Color sand) tors are n S - Sandy Re S - Stripped - Loamy M - Loamy G - Depleted - Redox Da - Depleted	served.	mfirm the ion: PL=Po Mottle %	e absence of in pre Lining, M=Matri es Type	x)	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark	C Soils ¹ (LRR F, G, H)) ONS (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 18-20 NRCS Hydr	iption (Descr ntration, D=Dep Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick I	or secondary hyd ibe to the depth no letion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 1 Indicators (cl pipedon stic In Sulfide d Layers (LRR F) ick (LRR FGH) ed Below Dark Surface	eeded to do Matrix, CS=Cov	ocumen vered/Coa % 100 100 if indicat G S5 G S6 G F1 G F2 G F3 G F6 G F7 G F8	s were obs at the indic ated Sand G Color (N Color (N Color Sandy Re Sandy Re Sandy Re Sandy Re Comy M Comy M Comp M Comp M Comy M Comy M Comp M Comp M Comp M Comp M Com M C	served.	mfirm the ion: PL=Po Mottle %	e absence of in pre Lining, M=Matri es Type □ □ □	x)	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	C Soils ¹ (LRR F, G, H)) ONS (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-153n43w29-a1
VEGETATIO	N (Species identified in all uppercase a (Plot size: 30 ft. radius)	ire non-native s	species.)		
	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>,,,,,,,,</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.	 Tatal Cavar	0			$\begin{array}{c} OBL \text{ spp.} 0 \qquad X 1 = 0 \\ \hline & & & \\ \hline & & & \\ \hline & & & \\ \hline \end{array}$
	Total Cover =	=0	_		OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				$= \begin{array}{c} FAC \text{ spp.} \\ \hline \\ $
1.		1			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
2.					
3.		l			
4.					
5.					Prevalence Index = $B/A = 5.000$
6.					1
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 (Plot size: 5 ft. radius) Glycine max	90	V	NI	Problem Hydrophytic Vegetation (Explain) *
2.		90			* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					Tree - 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.					4
14. 15.					Woody Vines - All woody vines, regardless of height.
15.	Total Cover =	00			- Woody Villes - Air woody villes, regardless of height.
		=90	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					-
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =				
Remarks:	The upland sample point is dominated by co	ultivated soy	beans.		
Additional F	Remarks:				