WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge									Date: County:	09/18/14 Pennington
Investigators	5:		_Subregion (MLRA or LRR): <u>MLRA 56</u>					State:	MN			
Soil Unit:	nit: <u>I5A</u>							I Classification:				
Landform: Slope (%):						Local Relief: CL Longitude: -96.3169595000 Datum:						nt: w-154n44w33-s2
		nditions on the sit				-			☑ Yes	□ No	Section:	
Are Vegetati	•	□, or Hydrology			-			e normal circun			Township:	
Are Vegetati	on 🗆 Soil	□, or Hydrology	•	•				⊠ Yes	□ No		Range:	Dir:
SUMMARY				_								
Hydrophytic Wetland Hyc	-			/es /es		,				Is Present?		Vetland? Yes
Wetland Hyd Remarks:		l is a wet meadow			en a Shrub-(Carr comr	munity ar	nd a hardwood		inpling Poir	it Within A V	velland? Tes
			r locatou b				nanny ai		owamp.			
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check al	ll that apply	y; Mir	nimum of on	e primary	or two se	econdary requi	red):			
Primary	<u>.</u>	,							,	Secondary:		
	A1 - Surface V A2 - High Wa					B11 - Salt B13 - Aqua					B6 - Surface B8 - Sparsely	Soil Cracks / Vegetated Concave Surface
	A3 - Saturatio	n				C1 - Hydro	ogen Sulfid	le Odor			B10 - Drainag	ge Patterns
	B1 - Water Ma					C2 - Dry S			Roote (not till			d Rhizospheres on Living Roots (tilled
	B2 - Sedimen B3 - Drift Dep	•				C3 - Oxidiz C4 - Prese		spheres on Living duced Iron	Roots (not till		C8 - Crayfish C9 - Saturatio	on Visible on Aerial Imagery
	B4 - Algal Ma	t or Crust				C7 - Thin M	Muck Surfa			\checkmark	D2 - Geomor	phic Position
	B5 - Iron Dep	osits In Visible on Aerial In	magany			Other (Exp	olain)				D5 - FAC-Ne	utral Test eaved Hummocks (LRR F)
	B9 - Water-St		падегу									
Field Obser			_			<i>/:</i>						
Surface Wat		Yes		Depth:		(in.)			Wetland H	łydrology	Present?	Υ
Water Table		Yes Yes		Depth:		(in.) (in.)						
Saturation Present? Yes Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Deceribe Ree	orded Data (a	treem gougo mon	itoring woll		al photos pro	vious inor	actiona)	if available:				
	•		-			-		if available:				
Describe Rec Remarks:	•	stream gauge, mon d is located in a di	-			-		if available:				
Remarks: SOILS	The wetland	d is located in a di	ip and supp	ports	hydrophytic	vegetatio	n.					
Remarks: SOILS Profile Descr	The wetland	d is located in a di	ip and supp eeded to d	ports locum	hydrophytic	vegetatio	n. onfirm the	e absence of in				
Remarks: SOILS Profile Descr	The wetland	d is located in a di	ip and supp eeded to d	ports locum	hydrophytic	vegetatio	n. onfirm the	e absence of in				
Remarks: SOILS Profile Descr	The wetland	d is located in a di	ip and supp eeded to d	ports locum	hydrophytic	vegetatio	n. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	The wetland	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	ip and supp eeded to d //atrix, CS=Co	ports locum overed	hydrophytic	vegetatio cator or co Grains; Loca	n. onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12	The wetland	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to d	ports locum overed % 100	hydrophytic nent the india /Coated Sand C	vegetatio cator or co Grains; Loca Moist)	n. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	The wetland	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to d	ports locum overed	hydrophytic nent the india /Coated Sand (vegetatio cator or co Grains; Loca Moist)	n. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)			Remarks
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12	The wetland	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to d	ports locum overed % 100	hydrophytic nent the india /Coated Sand C	vegetatio cator or co Grains; Loca Moist)	n. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12	The wetland	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to d	ports locum overed % 100	hydrophytic nent the india /Coated Sand C	vegetatio cator or co Grains; Loca Moist)	n. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12	The wetland	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to d	ports locum overed % 100	hydrophytic nent the india /Coated Sand C	vegetatio cator or co Grains; Loca Moist)	n. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12 12-20	The wetland	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1	eeded to d	ports locum overed 100 95	hydrophytic nent the india /Coated Sand C	vegetatio	n. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12 12-20	The wetland	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1	eeded to d	ports locum overed % 100 95 if ind	hydrophytic hent the india /Coated Sand C Color (I Hue_10YR icators are n	vegetatio	n. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type C	Location M	SCL COS	or Problemat	ic Soils ¹
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12 12-20	The wetland	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 Indicators (ch	eeded to d	ports locum overed % 100 95 if ind	hydrophytic hent the india /Coated Sand C Color (I Hue_10YR icators are n S5 - Sandy Ra	vegetatio	n. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SCL COS 	luck (LRR I, J)	<u>tic Soils¹</u>
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	The wetland	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 Indicators (ch	eeded to d	ports locum overed, % 100 95 if ind	hydrophytic hent the india /Coated Sand C Color (I Hue_10YR icators are n S5 - Sandy Re S6 - Stripped	vegetatio	n. onfirm the tion: PL=Pe Mottle % 5 1 1 1 1 1 1 1 1 1 1 1 1 1	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SCL COS Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	t <mark>ic Soils¹</mark> (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	The wetland	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 Indicators (ch ipedon stic	eeded to d	ports locum overed % 100 95 if ind	hydrophytic hent the india /Coated Sand C Color (I Hue_10YR icators are n S5 - Sandy Ra	vegetatio	n. onfirm the tion: PL=Pe Mottle % 5 1 1 1 1 1 1 1 1 1 1 1 1 1	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SCL COS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox urface (LRR G	t <mark>ic Soils¹</mark> (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	The wetland iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	eeded to d	ports locum overed % 100 95 if ind	hydrophytic hent the india /Coated Sand C /Coated Sand C /Color (f Hue_10YR Hue_10YR icators are n S5 - Sandy Ra S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	vegetatio	n. onfirm the tion: PL=Pe Mottle % 5 1 1 1 1 1 1 1 1 1 1 1 1 1	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SCL COS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox urface (LRR G Plains Depress ced Vertic	t <mark>ic Soils¹</mark> (LRR F, G, H) (i) (IRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	The wetland iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Histic A4 - Hydrogen A5 - Stratified A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to d	ports locum overed % 100 95 if ind	hydrophytic hent the india /Coated Sand C /Coated Sand C /Color (f Hue_10YR Hue_10YR icators are n S5 - Sandy Ra S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D	vegetatio	n. onfirm the tion: PL=Pe Mottle % 5 it): all x	e absence of in ore Lining, M=Matr es Type C	ix) Location M	SCL COS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	luck (LRR I, J) Prairie Redox urface (LRR G Plains Depress ced Vertic Parent Material	t <mark>ic Soils¹ (LRR F, G, H)) SiONS (LRR H, outside MLRA 72, 73)</mark>
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	The wetland iption (Descrintration, D=Depletent Hue_10YR Hue_10YR Hue_10YR Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydrogent A5 - Stratified A9 - 1 cm Mut A11 - Depletent A12 - Thick D	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to d	if ind	hydrophytic hent the indic /Coated Sand C /Coated Sand C Color (f Hue_10YR icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	vegetatio	n. onfirm the tion: PL=Pe Mottle % 5 1 1 1 1 1 1 2 3 2 3 2 3 4 3 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	e absence of in ore Lining, M=Matr es Type C	ix)	SCL COS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G Plains Depress ced Vertic	t <mark>ic Soils¹ (LRR F, G, H)) sions (LRR H, outside MLRA 72, 73)</mark>
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w33-s2
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.	J				
8.	<u></u>				Prevalence Index Worksheet
9.					
10.					
10.	 Total Cover =	0			OBL spp. 40 x 1 = 40
		0	_		FACW spp. 60 x 2 = 120
					FAC spp.5x3 =15FACU spp.0x4 =0
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$
1.					$UPL spp. \underline{0} x 5 = \underline{0}$
2.					
3.					Total <u>105</u> (A) <u>175</u> (B)
4.					
5.					Prevalence Index = $B/A = $ 1.667
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 ≤ 3.0 *
			_		Morphological Adaptations (Explain) *
Horb Stratum (Plot size: 5 ft. radius)				
1.	Phalaris arundinacea	60	Y	FACW	Problem Hydrophytic Vegetation (Explain) *
2.	Carex pellita	40	I	OBL	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Apocynum cannabinum	5	N	FAC	
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.					7
11.					7
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.					-
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover -	105			
	Total Cover =	105	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				4
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Remarks:	The wetland sample point is dominated by re-	ed canary	grass and	l indian he	emp.
Additional F	Pomarke:				