## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge									Date: County:	08/23/14 Pennington
Investigators		RAJ/BEH				Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:							NWI Classification:					
Landform:	Depression					Local Relief: CC					Sample Point	: <u>w-154n44w18-c1</u>
Slope (%):	3 - 7%		Latitude: 48.			Longitude:			Datum			
		nditions on the sit				ar? (If no, exp	-				Section:	
Are Vegetation	•	□, or Hydrology □, or Hydrology	•					e normal circum ☑ Yes	Istances pr	esent?	Township: Range:	Dir:
SUMMARY C			platurally p	TODIEITIA	.10 :			⊡ 163			Range.	
Hydrophytic '			Yes						Hydric Soi	ils Present?	Yes	
	drology Prese		Yes			-					t Within A W	etland? Yes
Remarks:		a Shrub-Carr commur throughout. Wetland										nere are irregular swales and ridges (pits oils.
HYDROLOG	Y											
Wetland Hy	drology Indi	cators (Check al	I that apply; I	Minimum	of on	e primary	or two se	econdary requir	ed):			
Primary	<u>:</u>								,	Secondary:		
	<ul> <li>A1 - Surface Water</li> <li>A2 - High Water Table</li> </ul>					B11 - Salt B13 - Aqua			<ul> <li>B6 - Surface Soil Cracks</li> <li>B8 - Sparsely Vegetated Concave Surface</li> </ul>			
	A3 - Saturatio					C1 - Hydro					B10 - Drainage	-
	B1 - Water Ma					C2 - Dry S						Rhizospheres on Living Roots (tilled)
	B2 - Sediment B3 - Drift Dep	•						spheres on Living duced Iron	Roots (not til		C8 - Crayfish I	Burrows n Visible on Aerial Imagery
	B4 - Algal Mat					C7 - Thin N					D2 - Geomorp	
	B5 - Iron Depo	osits				Other (Exp	olain)				D5 - FAC-Neu	
	B7 - Inundatio B9 - Water-St	n Visible on Aerial In	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)
Field Obser	vations:											
Surface Wat	er Present?	Yes 🛛	Dep	oth:		(in.)			Matland I			X
Water Table	Present?	Yes 🛛	Dep	oth:	7	(in.)			wetland	Hydrology	Present?	Y
Saturation P	resent?	Yes 🛛	Dep	oth: (	)	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: Indicators of wetland hydrology are present.												
Remarks:	Indicators of	f wetland hydrolog	gy are presei	nt.								
	Indicators of	f wetland hydrolog	gy are presei	nt.								
SOILS					o indi	cator or or	onfirm th	o obsonce of in	dicators )			
SOILS Profile Descri	iption (Descri	be to the depth ne	eeded to doc	ument th								
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SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth ne etion, RM=Reduced M Matrix	eeded to doc 1atrix, CS=Cove	ument th red/Coated	Sand (	Grains; Loca	ntion: PL=P Mottle	ore Lining, M=Matri es	x)			
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descri ntration, D=Deple	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doc latrix, CS=Cove	cument th red/Coated	Sand (		ition: PL=P	ore Lining, M=Matri		Texture		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3	iption (Descri ntration, D=Deple Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doc latrix, CS=Cove %	cument th red/Coated	Sand (	Grains; Loca Moist)	Mottle	ore Lining, M=Matri es Type	x) Location	Texture		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descri ntration, D=Deple	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doc latrix, CS=Cove	cument th red/Coated	Solor (	Grains; Loca Moist) 6/1	Mottle %	ore Lining, M=Matri es Type D	x) Location M	Texture M S		Remarks
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3	iption (Descri ntration, D=Deple Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to doc latrix, CS=Cove %	cument th red/Coated 5 C 00 0 Hue_ Hue_	olor ( 10YR 7.5YR	Grains; Loca Moist) 6/1 3/4	Mottle %	ore Lining, M=Matri es Type D	x) Location M	Texture M S S S C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-16	iption (Descri ntration, D=Deple Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1	eeded to doc latrix, CS=Cove % 10 7(	cument th red/Coated	olor ( 10YR 7.5YR	Grains; Loca Moist) 6/1 3/4	Mottle % 20 10	ore Lining, M=Matri es Type D C	x) Location M M	Texture M S S S C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-16 16-21	iption (Descri ntration, D=Deple Hue_10YR Hue_10YR Gley1	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/N	eeded to doc latrix, CS=Cove % 10 7( 7)	cument th red/Coated	Olor ( 10YR 7.5YR 10YR	Grains; Loca Moist) 6/1 8 3/4 5/6	Mottle % 20 10 25	ore Lining, M=Matri es Type D C	x) Location M M	Texture M S S C		Remarks
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-16 16-21	iption (Descri ntration, D=Deple Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/N	eeded to doc latrix, CS=Cove % 10 7(	cument th red/Coated	Olor ( 10YR 7.5YR 10YR	Grains; Loca Moist) 6/1 8 3/4 5/6	Mottle % 20 10 25	ore Lining, M=Matri es Type D C C	x) Location M M	M S S C	or Problemati	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-16 16-21	iption (Descri ntration, D=Deple Hue_10YR Hue_10YR Gley1	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/N	eeded to doc latrix, CS=Cove % 10 7( 7)	cument th red/Coated	Color ( 10YR 7.5YR 10YR	Grains; Loca Moist) 6/1 3/4 5/6 not presen	Mottle % 20 10 25	ore Lining, M=Matri es Type D C C	x) Location M M M	M S S C	or Problemation	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-16 16-21	iption (Descri ntration, D=Deple Hue_10YR Hue_10YR Gley1 Gley1 ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/N Indicators (ch ipedon	eeded to doc latrix, CS=Cove % 10 7(	ument th red/Coated 5 C 00 0 Hue_ 5 Hue_ 5 Hue_ 5 Hue_ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Olor ( 10YR 7.5YR 10YR andy R andy R tripped pamy N	Grains; Loca Moist) 6/1 3/4 5/6 not presen Redox Matrix Jucky Miner	Mottle % 20 10 25 nt):	ore Lining, M=Matri es Type D C C	x) Location M M M	M S S C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox urface (LRR G)	<u>c Soils<sup>1</sup></u> (LRR F, G, H)
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-16 16-21 NRCS Hydr	iption (Descri ntration, D=Deple Hue_10YR Hue_10YR Gley1 Gley1 fic Soil Field A1- Histosol A2 - Histic Epl A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/N Indicators (cf ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH)	eeded to doc latrix, CS=Cove	cument th         red/Coated $6$ C $6$ Hue $6$ Hue $6$ Hue $6$ Hue $6$ Hue $6$ Hue $6$ S $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$	Color ( 10YR 7.5YR 10YR andy R tripped bamy R bamy C epleted edox D	Grains; Loca Moist) 6/1 3/4 5/6 not presen edox Matrix Jucky Miner Gleyed Matri d Matrix Dark Surface	Mottle % 20 10 25 nt):	ore Lining, M=Matri es Type D C C	x) Location M M M	M S S C M 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 Depressio ced Vertic Parent Material	<u>c Soils<sup>1</sup></u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-16 16-21 NRCS Hydr	iption (Descri ntration, D=Deple Hue_10YR Hue_10YR Gley1 ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/N Indicators (ch ipedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac	eeded to doc latrix, CS=Cove % 10 7( 7( 7) heck here if i	cument the red/Coated $fad (Coated)fad (Coated)$	Color ( 10YR 7.5YR 10YR 10YR 5 are r andy R tripped bamy C epletec edox D epletec	Grains; Loca Moist) 6/1 3/4 5/6 not presen Redox I Matrix Aucky Miner Gleyed Matri J Matrix Dark Surface	Mottle Mottle % 20 10 25 nt):	ore Lining, M=Matri es Type D C C	x) Location M M M	M S S C 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 Depressio ced Vertic Parent Material Shallow Dark S	<u>c Soils<sup>1</sup></u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-16 16-21 NRCS Hydr	iption (Descri ntration, D=Deple Hue_10YR Hue_10YR Gley1 Gley1 ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Da	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/N Indicators (cf ipedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface	eeded to doc latrix, CS=Cove	ument th red/Coated 5 C 0 0 Hue_ 5 Hue_ 5 Hue_ 5 Hue_ 5 Hue_ 6 C 7 0 C 7 0 0 C 7 0 0 C 7 0 C 7 0 C 7 0 0 0 0 C 7 0 0 0 0 C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sand Color ( 10YR 7.5YR 10YR 10YR 5 are r andy R tripped bamy C epleted edox D epleted edox D	Grains; Loca Moist) 6/1 3/4 5/6 Not presen Redox I Matrix Mucky Miner Gleyed Matri J Matrix Dark Surface Dark Surface Dark Surface	tion: PL=P Mottle % 20 10 25 nt):	ore Lining, M=Matri	x) Location M M M	M S S C 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 Depressio ced Vertic Parent Material	<u>c Soils<sup>1</sup></u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-3 3-16 16-21 NRCS Hydr	iption (Descri ntration, D=Deple Hue_10YR Hue_10YR Gley1 ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm M	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/N Indicators (cf pedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface Jacky Mineral lucky Peat or Peat (LR	eeded to doc latrix, CS=Cove % 10 7( 7( 7( 7( 7( 7( 7( 7( 7( 7( 7( 7( 7(	ument th red/Coated 5 C 0 0 Hue_ 5 Hue_ 5 Hue_ 5 Hue_ 5 Hue_ 6 C 7 0 C 7 0 0 C 7 0 0 C 7 0 C 7 0 C 7 0 0 0 0 C 7 0 0 0 0 C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sand Color ( 10YR 7.5YR 10YR 10YR 5 are r andy R tripped bamy C epleted edox D epleted edox D	Grains; Loca Moist) 6/1 3/4 5/6 not presen Redox I Matrix Jucky Miner Gleyed Matri Jark Surface Dark Surface Dark Surface	tion: PL=P Mottle % 20 10 25 nt):	ore Lining, M=Matri	x) Location M M M	M S S C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressio ed Vertic Parent Material Shallow Dark S ain in Remarks)	<u>c Soils<sup>1</sup></u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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SOILS         Profile Descri         (Type: C=Concer         Depth (In.)         0-3         3-16         16-21         NRCS Hydr         □          □ <td>iption (Descrintration, D=Depleter Hue_10YR Hue_10YR Gley1 G</td> <td>be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/N Indicators (cf pedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface Jacky Mineral lucky Peat or Peat (LR</td> <td>eeded to doc latrix, CS=Cove % 10 7( 7( 7( 7( 7( 7( 7( 7( 7( 7( 7( 7( 7(</td> <td>ument th red/Coated G C C C C C C C C C C C C C C</td> <td>Color ( 10YR 7.5YR 10YR 10YR 5 are r andy R tripped bamy C epletec edox D epletec edox D High Pl Depth:</td> <td>Grains; Loca Moist) 6/1 3/4 5/6 not presen dedox Matrix Mucky Miner Gleyed Matria Dark Surface d Dark Surface d Dark Surface d Dark Surface</td> <td>Mottle % 20 10 25 nt): ral ix eace ssions (ML</td> <td>es Type D C C C RA 72, 73 of LRR</td> <td>x) Location M M M I I I H)</td> <td>M S S C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla</td> <td>luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressio ed Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.</td> <td><u>c Soils<sup>1</sup></u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)</td>	iption (Descrintration, D=Depleter Hue_10YR Hue_10YR Gley1 G	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 7/N Indicators (cf pedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface Jacky Mineral lucky Peat or Peat (LR	eeded to doc latrix, CS=Cove % 10 7( 7( 7( 7( 7( 7( 7( 7( 7( 7( 7( 7( 7(	ument th red/Coated G C C C C C C C C C C C C C C	Color ( 10YR 7.5YR 10YR 10YR 5 are r andy R tripped bamy C epletec edox D epletec edox D High Pl Depth:	Grains; Loca Moist) 6/1 3/4 5/6 not presen dedox Matrix Mucky Miner Gleyed Matria Dark Surface d Dark Surface d Dark Surface d Dark Surface	Mottle % 20 10 25 nt): ral ix eace ssions (ML	es Type D C C C RA 72, 73 of LRR	x) Location M M M I I I H)	M S S C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressio ed Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic.	<u>c Soils<sup>1</sup></u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w18-c1			
VEGETATIO	N (Species identified in all uppercase ar	re non-native	species.)					
Tree Stratum (	(Plot size: 30 ft. radius)							
	Species Name	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 5 (B)			
5.								
6.					$P_{resent of Deminant Species That Are OBLEACIAL as EAC: 100.0% (A/P)$			
	<u>_</u>				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)			
7.	<u></u>							
8.					Prevalence Index Worksheet			
9.					Total % Cover of: <u>Multiply by:</u>			
10.					OBL spp. 25 X 1 = 25			
	Total Cover =	0			FACW spp. 85 X 2 = 170			
			_		FAC spp. $0   x   3 = 0$			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACW spp.       85       x       2 =       170         FAC spp.       0       x       3 =       0         FACU spp.       0       x       4 =       0			
1.	Salix eriocephala	40	Y	FACW	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
2.	Salix lucida	20	· · · · · · · · · · · · · · · · · · ·	FACW				
			<u>- і</u> Ү		Total $110$ (A) $105$ (D)			
3.	Cornus alba	20	T	FACW	Total <u>110</u> (A) <u>195</u> (B)			
4.								
5.					Prevalence Index = B/A = <u>1.773</u>			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					X Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
10.	Total Cover =	80			$\frac{1}{X} \qquad \text{Prevalence Index is } \leq 3.0 \text{ *}$			
		00						
					Morphological Adaptations (Explain) *			
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Carex atherodes	10	Y	OBL				
2.	Carex utriculata	10	Y	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Eleocharis palustris	5	N	OBL	present, unless disturbed or problematic.			
4.	Carex sartwellii	5	Ν	FACW	Definitions of Vegetation Strata:			
5.								
6					Tree - Weeds release 2 in (7 Care) or more in diameter of broast			
					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
7.					height (DBH), regardless of height.			
8.								
9.					<b>Sapling/Shrub -</b> Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.					1			
14.					Woody Vines - All woody vines, regardless of height.			
15.					woody villes - All woody villes, regardless of height.			
	Total Cover =	30						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.								
4.	Tatal Oaver	0						
	Total Cover =		-l -l	-1				
Remarks:	The Shrub-Carr community is dominated by	willows and	d dogwood	d.				
Additional Remarks:								