## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/26/14		
Applicant:	Enbridge				· <u>-</u>	· <b>-</b> •	<b>-</b> .			County: State:	Pennington		
Investigators						oregion (MLRA or LRR): MLRA 56					MN		
Soil Unit:	I48A			اما	al Daliati		I Classification	PEMBd		O I . D	w 454m44w40 h4		
Landform:	<u> </u>												
Slope (%):  Are climatic/h		nditions on the site typica						✓ Patum.	□ No	Section:			
Are Vegetation		e normal circun			Township:								
Are Vegetation		<ul><li>□, or Hydrology</li><li>□, or Hydrology</li><li>□atura</li></ul>		Aic	⊌ Yes		COCIII:	Range:	Dir:				
SUMMARY C			ally prob	nematic:			E 163	□ 1 <b>10</b>		Range.	DII.		
			Yes					Hydric Soil	ls Present?	Yes			
Hydrophytic Vegetation Present? Wetland Hydrology Present?			Yes			Hydric Soils Present?  Is This Sampling Poin				nt Within A Wetland? Yes			
Remarks:				ocated withi	n a previo	usly gra	zed cattle past						
Tromaine.	Remarks: The wetland is an excavated shallow marsh located within a previously grazed cattle pasture. The only vegetation present throughout the wetland is narrow-leaf cattail.												
HYDROLOG'													
		Santana (Oh a ale all that an	andra Mila										
_		icators (Check all that ap	pply; Min	ilmum of one	primary	or two se	econdary requi	red):	Cocondon				
<u>Primary:</u> ☑	<u>:</u> A1 - Surface \	Nater			B11 - Salt (	^ruet			Secondary:	B6 - Surface S	Soil Cracks		
✓	A2 - High Wat				B13 - Aqua						Vegetated Concave Surface		
✓	A3 - Saturatio				C1 - Hydro					B10 - Drainag			
	B1 - Water Ma				C2 - Dry Se						Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen	•			C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not till	• -	C8 - Crayfish			
	B3 - Drift Dep B4 - Algal Mat				C4 - Presei C7 - Thin M				□	D2 - Geomorp	n Visible on Aerial Imagery		
	B5 - Iron Depo		D5 - FAC-Neu										
		n Visible on Aerial Imagery			Other (Expl	/					aved Hummocks (LRR F)		
	B9 - Water-St	ained Leaves											
Field Observ	vations:												
Surface Wate	er Present?	Yes ☑	Depth:	2	(in.)			Wetland F	lydrology l	Present?	Υ		
Water Table	Present?	Yes ☑	Depth:	0	(in.)			Wetland	iyarology i	resent:	_ <u></u> _		
Saturation Pr	Saturation Present? Yes   Depth: 0 (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Reco	orded Data (s					ections),	if available:						
		stream gauge, monitoring w	ell, aeria	al photos, pre		ections),	if available:						
Describe Reco			ell, aeria	al photos, pre		ections),	if available:						
		stream gauge, monitoring w	ell, aeria	al photos, pre		ections),	if available:						
Remarks:  SOILS Profile Descri	Standing wa	stream gauge, monitoring water is present throughout	vell, aeria	al photos, pre land.	vious insp	onfirm the	e absence of ir						
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Remarks:  SOILS Profile Descri	Standing wa	stream gauge, monitoring water is present throughout be to the depth needed to etion, RM=Reduced Matrix, CS=	vell, aeria	al photos, pre land.	vious insp	onfirm the	e absence of ir ore Lining, M=Matr						
Remarks:  SOILS Profile Descri (Type: C=Concer	Standing wa	stream gauge, monitoring water is present throughout be to the depth needed to etion, RM=Reduced Matrix, CS=	the wet	al photos, pre land. ent the indic	vious insp ator or co	onfirm the ion: PL=Pe Mottle	e absence of ir ore Lining, M=Matr	rix)					
Remarks:  SOILS Profile Descri (Type: C=Concer	Standing was	stream gauge, monitoring water is present throughout be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix Color (Moist)	the wet  docum  Covered/	al photos, pre land.	vious insp ator or co	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-2	Standing was specified by the Standi	be to the depth needed to etion, RM=Reduced Matrix  Color (Moist)  Stream gauge, monitoring was attention and the depth needed to etion, RM=Reduced Matrix, CS=	the wet  docum  Covered/  % 100	al photos, pre land. ent the indic	vious insp ator or co	onfirm the ion: PL=Pe Mottle	e absence of ir ore Lining, M=Matr	rix)	Texture M		Remarks		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-2 2-30	Standing was specified by the Standi	be to the depth needed to etion, RM=Reduced Matrix  Color (Moist)  2/1  4/1	the wet  docum Covered/  100  100	al photos, pre land. ent the indic	vious inspectator or corains; Locat	onfirm the	e absence of ir ore Lining, M=Matr	rix)	Texture M C		Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-2 2-30	Standing was iption (Descriptration, D=Depleted) Hue_10YR Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix  Color (Moist)  2/1  4/1	the wet  docum Covered/  100  100	al photos, precland.  Tent the indicated Sand Grand Color (N	vious inspectator or corains; Locat	onfirm the	e absence of ir ore Lining, M=Matr es Type	rix)	M C	or Problemati			
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-2 2-30	Standing was iption (Descriptration, D=Depleted) Hue_10YR Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix  Color (Moist)  2/1  4/1	/ell, aeria the wet  o docum =Covered/ 100 100 re if indic	al photos, precland.  Tent the indicated Sand Grand Color (N	vious inspectator or corains; Locate	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	M C Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils <sup>1</sup>		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-2 2-30  NRCS Hydr	Standing was iption (Descriptration, D=Depleted Property of the property of th	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1  4/1  Indicators (check hereigness)	/ell, aeria the wet  O docum Covered/  100 100 re if indic	Color (Notes) Cators are notes S5 - Sandy Resident S6 - Stripped	ator or corains; Locatedox Matrix	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	M C Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox	c Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-2 2-30  NRCS Hydr	Standing was iption (Description, D=Depleted intration, D=Depleted	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  4/1  Indicators (check hereited)	/ell, aeria the wet  o docum =Covered/ 100 100 re if indic	Color (Notes of the indicated Sand Sandy Research	ator or corains; Locat  Moist)  ot presentedox Matrix ucky Minera	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	M C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	uck (LRR I, J) Prairie Redox urface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-2 2-30  NRCS Hydr	Standing was iption (Descriptration, D=Depleted Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger	be to the depth needed to etion, RM=Reduced Matrix  Color (Moist)  2/1  4/1  Indicators (check hereits)  ipedon stic in Sulfide	/ell, aeria the wet  o docum Covered/  100 100 re if indic	Color (No. 25 - Sandy Resider Sand Sand)  Solvent the indicated Sand Color (No. 25 - Sandy Resider S	ator or corains; Locatedox Matrix ucky Mineraleyed Matrix	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-2 2-30  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1  4/1  Indicators (check hereits ipedon stice in Sulfide Layers (LRR F)	/ell, aeria the wet  o docum =Covered/ 100 100 re if indic	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	vious inspector or corains; Locate Moist)  ot presentedox Matrix ucky Mineraleyed Matrix Matrix	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	M C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic	c Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-2 2-30  NRCS Hydr	Standing was  iption (Descriptration, D=Depleted and Descriptration)  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1  4/1  Indicators (check hereitich Sulfide Layers (LRR F) ck (LRR FGH)	/ell, aeria the wet  o docum Covered/ % 100 100 re if indic	Color (No. 2016) Coated Sand Good Coated	ator or corains; Locat  Moist)  ot present  edox  Matrix  ucky Minera  eyed Matrix  Matrix  Matrix  Ark Surface	monfirm the ion: PL=Pe	e absence of ir ore Lining, M=Matr es Type	Location	M C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material	c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-2 2-30  NRCS Hydr	Standing was  iption (Descriptration, D=Depleted and Descriptration)  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1  4/1  Indicators (check hereitich Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	/ell, aeria the wet  o docum Covered/  100  100  re if indic	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	ator or corains; Located Aloist)  ot present additional	monfirm the ion: PL=Pe	e absence of ir ore Lining, M=Matr es Type	Location	M C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark So F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic	c Soils <sup>1</sup> (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-2 2-30  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue A11 - Deplete	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  4/1  Indicators (check here)  ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	/ell, aeria the wet  o docum =Covered/ 100 100 re if indic	Color (No. 25) Cators are no. 25 - Sandy Research Sand Grand F1 - Loamy Modern F2 - Loamy Garant Gar	eator or corains; Located Moist)  Tot present edox Matrix eyed Matrix Matrix ark Surface Dark Surface pressions	Mottle % t):	e absence of ir ore Lining, M=Matr es Type	Location	M C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark So F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic arent Material Shallow Dark	c Soils <sup>1</sup> (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: w-154n44	4w19-b1				
					•					
VEGETATION	· · ·	re non-native	species.)							
Tree Stratum (	Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.	<u>Species Ivaime</u>	<u>70 00vci</u>	Dominant	<u>ma.otatas</u>	Deminarios rost wernensst					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1	(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: 100.0%	(A/B)				
7.										
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.					OBL spp. 50					
	Total Cover =	= 0			FACW spp. 0					
0 - 1 - 70 - 1 - 6	New to the Color of the AE (to the line)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
— · · · · · · · · · · · · · · · · · · ·	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
1. 2.					$-\frac{0}{\sqrt{2}} \qquad \frac{1}{\sqrt{2}} \qquad $					
3.					Total 50 (A) 50 (B)					
4.					- Total 30 (A) 30 (B)					
5.					Prevalence Index = B/A = 1.000					
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) *					
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain	in) *				
1.	Typha angustifolia	50	Y	OBL						
2.					* Indicators of hydric soil and wetland hydrology mu	ust 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 a	at breast				
7.					height (DBH), regardless of height.					
8.						(Latala)				
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of	र्ग neight.				
10.					4					
11.				_	Herb - All herbaceous (non-woody) plants, regardless o	of cizo				
12.					Herb - All Herbaceous (Horr-woody) plants, regardless o	JI 5126.				
13.					4					
14. 15.					Woody Vines - All woody vines, regardless of height.					
15.	Total Cover =	50			- Woody Villes - 7 iii woody Villes, Togardiese of Holgiti.					
	Total Cover =	30	_							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.	atum (Flot size: 50 ft. radius)									
2.										
3.					Hydrophytic Vegetation Present?					
5.										
4.										
	Total Cover =	0								
Remarks:	The only vegetation present throughout the		narrow-lea	f cattail.						
	_									
Additional R	emarks:									
I										