## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/30/14	
Applicant:		Enbridge								County:	Marshall	
Investigators		BCS/BEH/MRK		Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit: Landform:	I34A Tolf				NWI Classification:					Comple Deint	u 157p/7w27 o1	
Slope (%):	Talf         Lo           0 - 2%         Latitude: 48.398247					Local Relief: LL Longitude: -96.69983218333 Datum:					: <u>u-157n47w27-a1</u>	
· · · · · ·		nditions on the sit						☑ Yes	□ No	Section:		
Are Vegetati	, ,	☑, or Hydrology	<i>V</i> 1			-	e normal circum			Township:		
Are Vegetati		□, or Hydrology	•				⊠ Yes	□ No		Range:	Dir:	
SUMMARY O	OF FINDINGS	8										
Hydrophytic	-		No		-				Is Present?			
	drology Prese		No							t Within A W		
Remarks:	The upland	sample area is lo	cated upslope	e of a seasona	ally-floode	d basin v	within a tilled, a	gricultural fi	eld planted	to soybeans.		
HYDROLOG	V											
		instars (Chask all	l that apply: N	linimum of on	o primory	or two o	aaandan, raquir	(ad)				
Primary	•••	i <b>cators</b> (Check al	i that apply; iv	inimum of on	e primary	or two so	econdary requir	red):	Secondary:			
	A1 - Surface \	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Water Table				B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturatio B1 - Water Ma				C1 - Hydro C2 - Dry S				<ul> <li>B10 - Drainage Patterns</li> <li>C3 - Oxidized Rhizospheres on Living Roots (tilled)</li> </ul>			
	B2 - Sedimen						spheres on Living	Roots (not till	€ □	C8 - Crayfish		
	B3 - Drift Dep	osits			C4 - Prese	ence of Re	educed 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		
	•	n Visible on Aerial In	nagery			nain)					aved Hummocks (LRR F)	
	B9 - Water-St		0 7								× ,	
Field Obser					(1)							
	ter Present?		Dept		(in.)			Wetland H	lydrology l	Present?	Ν	
Water Table Saturation P		Yes □ Yes ☑	Dept Dept		_ (in.) _ (in.)							
			•									
Describe Rec	corded Data (s	traam aallaa mon	utoring wall ac									
David and	•			· ·			, if available:					
Remarks:	•	s present at 19 inc		· ·				are met.				
	•			· ·				are met.				
SOILS Profile Descr	Saturation is	s present at 19 ind	ches; no prime	ary or second	ary wetlan	nd hydrol	ogy indicators a e absence of in	dicators.)				
SOILS Profile Descr	Saturation is	s present at 19 ind	ches; no prime	ary or second	ary wetlan	nd hydrol	ogy indicators a e absence of in	dicators.)				
SOILS Profile Descr	Saturation is	s present at 19 ind be to the depth ne etion, RM=Reduced M	ches; no prime	ary or second	ary wetlan	nd hydrol onfirm th tion: PL=P	ogy indicators a e absence of in ore Lining, M=Matr	dicators.)				
SOILS Profile Descri (Type: C=Concer	Saturation is	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix	ches; no prime eeded to docu	ary or second	ary wetlan cator or co Grains; Loca	onfirm th tion: PL=P Mottl	ogy indicators a e absence of in ore Lining, M=Matr	idicators.) <sup>ix)</sup>	Texture		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.)	Saturation is	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	ches; no prime eeded to docu latrix, CS=Covere	ary or second	ary wetlan cator or co Grains; Loca	nd hydrol onfirm th tion: PL=P	ogy indicators a e absence of in ore Lining, M=Matr	dicators.)	Texture		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7	Saturation is iption (Descrintration, D=Deple Hue_10YR	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	ches; no prime eeded to docu latrix, CS=Covere % 100	iment the indicated Sand Color (I	ary wetlan cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle	ogy indicators a e absence of in ore Lining, M=Matr es Type	dicators.) ix) Location	FSL		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.)	Saturation is	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	ches; no prime eeded to docu latrix, CS=Covere	ary or second ment the indi- ed/Coated Sand ( Color (I Hue_2.5Y	ary wetlan cator or co Grains; Loca Moist) <u>6/3</u>	onfirm th tion: PL=P Mottl	ogy indicators a e absence of in ore Lining, M=Matr	idicators.) <sup>ix)</sup>			Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7	Saturation is iption (Descrintration, D=Deple Hue_10YR	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	ches; no prime eeded to docu latrix, CS=Covere % 100	ary or second ment the indi- ed/Coated Sand ( Color (I Hue_2.5Y Hue_10YR	ary wetlan cator or co Grains; Loca Moist) <u>6/3</u>	onfirm th tion: PL=P Mottle % 25	ogy indicators a e absence of in ore Lining, M=Matrices Type C	Location	FSL SC		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18	Saturation is iption (Descrintration, D=Deple Hue_10YR Hue_10YR	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1	ches; no prime eeded to docu latrix, CS=Covere % 100 70	ary or second ment the indi- ed/Coated Sand ( Color (I Hue_2.5Y Hue_10YR	ary wetlan cator or co Grains; Loca Moist) <u>6/3</u>	onfirm th tion: PL=P Mottle % 25	ogy indicators a e absence of in ore Lining, M=Matrices Type C	Location	FSL SC SC		Remarks	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 18-21	Saturation is iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/3	ches; no prime eeded to docu latrix, CS=Covere % 100 70	ary or second ment the indi- ed/Coated Sand ( Color (I Hue_2.5Y Hue_10YR dicators are r	ary wetlan cator or co Grains; Loca Moist) 6/3 5/6	nd hydrol Donfirm th tion: PL=P Mottle % 25 5	ogy indicators a e absence of in ore Lining, M=Matr es C C C	Location M M	FSL SC SC FSL	or Problemati		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 18-21 NRCS Hydr	Saturation is iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/3 Indicators (ch	ches; no prime eeded to docu latrix, CS=Covere % 100 70	iment the indi- ad/Coated Sand ( Color (I Hue_2.5Y Hue_10YR dicators are r	ary wetlan	nd hydrol Donfirm th tion: PL=P Mottle % 25 5	e absence of in ore Lining, M=Matrices C C	Location M M	FSL SC SC FSL Indicators f	luck (LRR I, J)	<u>c Soils<sup>1</sup></u>	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 18-21 NRCS Hydr	Saturation is iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/3 Indicators (ch	ches; no prime eeded to docu latrix, CS=Covere % 100 70	iment the indicators are r	ary wetlan	nd hydrol Donfirm th tion: PL=P Mottle % 25 5 () () t):	e absence of in ore Lining, M=Matrices C C	Location M M	FSL SC SC FSL Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	<u>c Soils<sup>1</sup></u> (LRR F, G, H)	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 18-21 NRCS Hydr	Saturation is iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/3 Indicators (ch ipedon stic n Sulfide	ches; no prime eeded to docu latrix, CS=Covere % 100 70	iment the indi- ad/Coated Sand ( Color (I Hue_2.5Y Hue_10YR dicators are r	ary wetlan	ad hydrol onfirm th tion: PL=P Mottle % 25 5 1 t):	e absence of in ore Lining, M=Matrices C C	Location M M	FSL SC SC FSL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	<u>c Soils<sup>1</sup></u> (LRR F, G, H)	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 18-21 NRCS Hydr	Saturation is iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Intraction A1- Histosol A2 - Histic Ep A3 - Black Histosol A4 - Hydroger A5 - Stratified	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/3 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	ches; no prime eeded to docu latrix, CS=Covere % 100 70 100 100 100	ment the indicad/Coated Sand (Coated Sand (C	ary wetlan	ad hydrol onfirm th tion: PL=P Mottle % 25 5 () () () () () () () () () ()	e absence of in ore Lining, M=Matrices C C	Location M M M	FSL SC SC FSL <u>Indicators f</u> 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 Soils<sup>1</sup></u> (LRR F, G, H)	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 18-21 NRCS Hydr	Saturation is iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Fric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Histic A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/3 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface	ches; no prime eeded to docu latrix, CS=Covera % 100 70 100 neck here if in	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	ary wetlan	al x	e absence of in ore Lining, M=Matrines	Location M M M	FSL SC SC FSL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	<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.) 0-7 7-18 18-21 NRCS Hydr	Saturation is iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydroger A5 - Stratified A9 - 1 cm Mut A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/3 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral lucky Peat or Peat (L	ches; no prime eeded to docu latrix, CS=Covere % 100 70 100 100 100 100 20 20 20 20 20 20 20 20 20 20 20 20 2	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	ary wetlan	al x	e absence of in ore Lining, M=Matrines	Location M M M	FSL SC SC FSL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi 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.) 0-7 7-18 18-21 NRCS Hydr	Saturation is iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y intraction Field A1- Histosol A2 - Histic Ep A3 - Black Hist 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 Giller Type: Soil profile of	s present at 19 ind be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 2/1 4/3 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 leyed Matrix	ches; no prime eeded to docu latrix, CS=Covere % 100 70 100 100 100 100 100 100 100 100	iment the indiversion of the ind	ary wetlan	ad hydrol onfirm th tion: PL=P Mottle % 25 5 1 t): al x ace ssions (ML	e absence of in ore Lining, M=Matrices C C C C C C C C C C C C C C C C C C C	ik)	FSL SC SC FSL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression 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:	e: L3R				Sample Point: u-157n47w27-a1
VEGETATIO	(Species identified in all uppercase are (Plot size: 30 ft. radius)	e non-nativé	species.)		
	Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.					
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.					OBL spp. 0 $x 1 = 0$
	Total Cover =	0			OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.0x4 =0
·					FAC spp. 0 $X 3 = 0$
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$
1.					UPL spp. 90 X 5 = 450
2.					
3.					Total <u>90</u> (A) <u>450</u> (B)
4.					
5.					$Prevalence Index = B/A = \underline{5.000}$
6.					
7.					
<u>8.</u> 9.					Hydrophytic Vegetation Indicators:
9. 10.					Rapid Test for Hydrophytic Vegetation Dominance Test is > 50%
10.	Total Cover =	0			$\underline{\qquad \qquad Dominance Test is > 50\%}$ Prevalence Index is $\leq 3.0 *$
		<u> </u>			Morphological Adaptations (Explain) *
Horb Stratum	(Plot size: 5 ft. radius)				Norphological Adaptations (Explain) *
$\Pi$ erb Stratum (	Glycine max	90	Y	NI	
2.			· · ·		* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					-
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					1
9.					<b>Sapling/Shrub</b> - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					1
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	90			1
L					
Woody Vine St	Stratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.	Total Cover –				
Domarke	Total Cover =		haane		
Remarks:	The upland sample area is dominated by cult	(IVateu Soy	/beans.		
<b></b>					
-	-				
Additional F	Remarks:				
1					
1					
1					