WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge	-		Subragia		or I PP)			Date:07/24/14County:MarshallState:MN
Investigators: BCS/BEH Soil Unit: I66A				Subregion (MLRA or LRR): MLRA 56 NWI Classification:						State: <u>MN</u>
Landform:					Local Relief: LL					Sample Point: u-154n45w12-d1
Slope (%):	0 - 2%			488717			9133333	Datum:		
		nditions on the site typical			I r? (If no, exp				□ No	Section:
Are Vegetatio		□, or Hydrology □signifi				Are	e normal circun	-	esent?	Township:
Are Vegetatio		, ,,	lly prol	blematic?			⊠ Yes	□ No		Range: Dir:
SUMMARY C			Nie					Lludria Sail	o Drogont?	2 Voo
Hydrophytic V Wetland Hyd	-		No No						s Present?	nt Within A Wetland? No
Remarks:	<u> </u>	sample area is located wit	_	illed agricult	ural whea	at field		15 1115 34		
Remarks.		Sample area is located wit	umat	ineu, agricun		at neid.				
HYDROLOG	Y									
	drology Indi	cators (Check all that app	oly; Mii				econdary requi	red):	Secondary:	
	A1 - Surface V				B11 - Salt					B6 - Surface Soil Cracks
	A2 - High Wat A3 - Saturation				B13 - Aqua C1 - Hydro					B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns
	B1 - Water Ma				C2 - Dry S					C3 - Oxidized Rhizospheres on Living Roots (tilled
	B2 - Sediment	•					spheres on Living	Roots (not till	€ 🗆	C8 - Crayfish Burrows
	B3 - Drift Depo B4 - Algal Mat				C4 - Prese C7 - Thin N		duced Iron			C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position
	B5 - Iron Depo				Other (Exp		ace			D5 - FAC-Neutral Test
	B7 - Inundation	n Visible on Aerial Imagery		_	CC. (_//p					D7 - Frost-Heaved Hummocks (LRR F)
	B9 - Water-Sta	ained Leaves								
Field Observ										
Field Observ		N			(:)					
Surface Wate		Yes D	Depth:		(in.)			Wetland H	lydrology	Present? N
Water Table Saturation Pr		Yes □ Yes □	Depth:		(in.) (in.)					
			•							
Describe Rec	ordod Data (e									
	•	tream gauge, monitoring we			-		if available:			
Remarks:	•	tream gauge, monitoring we or secondary wetland hydr			-		if available:			
Remarks:	•				-		if available:			
Remarks: SOILS	No primary o	or secondary wetland hydr	rology	indicators we	ere observ	ved.		dicators.)		
Remarks: SOILS Profile Descri	No primary of ption (Descri		rology docun	indicators we	ere observ	ved.	e absence of in			
Remarks: SOILS Profile Descri	No primary of ption (Descri	or secondary wetland hydroper to the depth needed to etion, RM=Reduced Matrix, CS=	rology docun	indicators we	ere observ	ved. Onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr			
Remarks: SOILS Profile Descri (Type: C=Concer	No primary of ption (Description, D=Deple	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix	rology docun Covered	nent the indicators we	cator or co Grains; Loca	ved. Onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 7-11 11-21 11-21	No primary of ption (Description, D=Deple Hue_10YR Hue_10YR Hue_5Y WP	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 4/1 6/2 10YR 8/2	docun Covered % 100 85 80 15	indicators we nent the indic //Coated Sand C //Coated Sand C //Color (N Hue_5Y Hue_10YR Hue_10YR	Actor or co Brains; Loca Moist) 6/2 2/1 5/6	ved. onfirm the tion: PL=Pe Mottle % 10 5 5	e absence of in ore Lining, M=Matr es Type D C	Location	SIC SIC SIC SIC	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-21 11-21 NRCS Hydr	No primary of ption (Description, D=Depletion, D=Depletion) Hue_10YR Hue_10YR Hue_5Y WP ic Soil Field A1- Histosol A2 - Histic Epi	be to the depth needed to be to the depth needed to betion, RM=Reduced Matrix, CS=4 Matrix Color (Moist) 2/1 4/1 6/2 10YR 8/2 Indicators (check her pedon	docun Covered % 100 85 80 15 e if ind	indicators we nent the indic /Coated Sand C /Color (N Hue_5Y Hue_10YR Hue_10YR Hue_10YR icators are n S5 - Sandy Re S6 - Stripped	cator or co Grains; Loca Moist) 6/2 2/1 5/6 ot presen	ved. onfirm the tion: PL=Pe Mottle % 10 5 5 () t):	e absence of in ore Lining, M=Matr es Type D C	ix) Location M M	SIC SIC SIC OT Indicators f A9 - 1 cm M A16 - Coast	Fine CaCO3 fragments/accumulation for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 7-11 11-21 11-21 NRCS Hydr	No primary of ption (Descril htration, D=Deple Hue_10YR Hue_10YR Hue_5Y WP ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His	be to the depth needed to be to the depth needed to betion, RM=Reduced Matrix, CS=4 Matrix Color (Moist) 2/1 4/1 6/2 10YR 8/2 Indicators (check her pedon tic	docun Covered % 100 85 80 15 e if ind	indicators we nent the indic //Coated Sand C //Coated Sand C /	cator or co Grains; Loca Moist) 6/2 2/1 5/6 ot presen	ved.	e absence of in ore Lining, M=Matr es Type D C	ix) Location M M	SIC SIC SIC OT Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	Fine CaCO3 fragments/accumulation for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-21 11-21 NRCS Hydr	No primary of ption (Description, D=Depletion, D=Depletion) Hue_10YR Hue_10YR Hue_5Y WP ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger	be to the depth needed to be to the depth needed to betion, RM=Reduced Matrix, CS=4 Matrix Color (Moist) 2/1 4/1 6/2 10YR 8/2 Indicators (check her pedon tic o Sulfide	docun Covered % 100 85 80 15 e if ind	indicators we nent the indic //Coated Sand C //Coated Sand C //Color (N Hue_5Y Hue_10YR Hue_10YR Hue_10YR Hue_10YR S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G	cator or co Grains; Loca Moist) 6/2 2/1 5/6 ot presen edox Matrix lucky Miner leyed Matri	ved.	e absence of in ore Lining, M=Matr es Type D C	ix) Location M M	SIC SIC SIC OT Mag - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Fine CaCO3 fragments/accumulation for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-21 11-21 NRCS Hydr	No primary of ption (Description, D=Depletion, D=Depletion) Hue_10YR Hue_10YR Hue_5Y WP ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 4/1 6/2 10YR 8/2 Indicators (check her pedon tic n Sulfide Layers (LRR F)	rology docun Covered % 100 85 80 15 80 15 e if ind □ □ □	indicators we nent the indic //Coated Sand C //Coated Sand C /	cator or co Grains; Loca Moist) 6/2 2/1 5/6 ot presen edox Matrix ucky Miner leyed Matri Matrix	ved.	e absence of in ore Lining, M=Matr es Type D C	ix) Location M M	SIC SIC SIC OT OT A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	Fine CaCO3 fragments/accumulation for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 7-11 11-21 11-21 NRCS Hydr	No primary of ption (Description, D=Depletion, D=Depletion) Hue_10YR Hue_10YR Hue_10YR Hue_5Y WP ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydrogen A5 - Stratified A9 - 1 cm Muc A11 - Depleted	be to the depth needed to betion, RM=Reduced Matrix, CS=4 Matrix Color (Moist) 2/1 4/1 6/2 10YR 8/2 Indicators (check her pedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	docun Covered % 100 85 80 15 80 15 e if ind	indicators we nent the indic /Coated Sand C /Color (N Hue_5Y Hue_10YR Hue_10YR Hue_10YR Hue_10YR S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted	cator or co Grains; Loca Moist) 6/2 2/1 5/6 ot presen edox Matrix ucky Miner leyed Matri leyed Matri Matrix ark Surface Dark Surface	ved.	e absence of in ore Lining, M=Matr es Type D C	ix) Location M M	SIC SIC SIC OT OT A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Fine CaCO3 fragments/accumulation for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 7-11 11-21 11-21 NRCS Hydr	No primary of ption (Description, D=Depletion) Hue_10YR Hue_10YR Hue_10YR Hue_5Y WP ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted A12 - Thick Da S1 - Sandy Mu	be to the depth needed to be to the depth needed to betion, RM=Reduced Matrix, CS=4 Matrix Color (Moist) 2/1 4/1 6/2 10YR 8/2 Indicators (check her pedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	docun Covered % 100 85 80 15 e if ind	indicators we nent the indic /Coated Sand C /Coated Sand C /Color (N Hue_5Y Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Loca Moist) 6/2 2/1 5/6 ot presen edox Matrix ucky Miner leyed Matri leyed Matri Matrix ark Surface Dark Surfa epressions	ved.	e absence of in ore Lining, M=Matr es Type D C	ix) Location M M I	SIC SIC SIC OT OT A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Fine CaCO3 fragments/accumulation for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: u-154n45w12-d1
		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Species Name</u>	<u>/// Cover</u>	Dominant	<u>1110.5tatus</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (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: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					$\begin{array}{c c c c c c c c c c c c c c c c c c c $
	 Total Cover =	0			$= \frac{1}{1} $
		.			$FAC spp. \qquad 0 \qquad \qquad x \ 3 = \qquad 0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp 7 x 4 = 28
1.					UPL spp. $80 \times 5 = 400$
2.					
3.					 Total 87 (A) 428 (B)
4.					
5.					Prevalence Index = $B/A = 4.920$
6.	-				
7.	-				
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	-				
10.	 Total Cover =	0			$\frac{1}{2} = \frac{1}{2} $
		0			
Harb Stratum	(Plot size: 5 ft rodius)				Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)	60	V	NI	Problem Hydrophytic Vegetation (Explain) *
	Triticum aestivum		1 V	NI	* Indicators of hydric soil and wetland hydrology must be
<u>2.</u> 3.	Setaria viridis	20	 N	FACU	
4.	Ambrosia artemisiifolia	5 2	N	FACU	
<u>4.</u> 5.	Amaranthus retroflexus	2	IN	TACO	
6					
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.					
					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
9.					
10.					—
11.					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					
13. 14.					\neg
14.					Woody Vines - All woody vines, regardless of height.
15.	Tatal Osuar	07			- Woody Vines - All woody vines, regardless of height.
	Total Cover =	87			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.	Tataloa				
	Total Cover =			and franker	
Remarks:	The upland sample area is dominated by cult	livated whe	eat and gro	een toxtail	all.
Additional F	Remarks:				