WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 10/01/14
Applicant:		Enbridge								County: Pennington
Investigators	·	BJC/RAJ			Subreaic	n (MLRA	or LRR):	MLRA 56		State: MN
Soil Unit:	I32A					•	I Classification:			
Landform:	Talf				Local Relief					Sample Point: u-153n44w13-b1
Slope (%):	0 - 2%		Latitude: 48.	070637		-96.245	405	Datum:		
		onditions on the site							□ No	_ Section:
		I ⊠, or Hydrology					e normal circum			-
Are Vegetatio			•	•					556111 !	Township:
Are Vegetatio			□aturally p	robiematic			□ Yes	⊠ No		Range: Dir:
SUMMARY C										
Hydrophytic \	-		No						s Present?	
Wetland Hyd			No							nt Within A Wetland? No
Remarks:	•		cated in a cu	ultivated fie	d planted to	soybean	s. The soils are	disturbed d	ue to tilling	J. The vegetation is disturbed due to tilling and
	herbicide a	oplication.								
HYDROLOG	Y									
Wetland Hy	drology Ind	icators (Check all	that apply:	Minimum of	one primary	or two s	econdary requir	ad).		
Primary:			that apply,		one primary	01 100 5	econdary requi	eu).	Secondary:	
	A1 - Surface	Water			□ B11 - Salt	Crust				<u>-</u> B6 - Surface Soil Cracks
	A2 - High Wa				□ B13 - Aqu		1			B8 - Sparsely Vegetated Concave Surface
	A3 - Saturatio				□ C1 - Hydro					B10 - Drainage Patterns
	B1 - Water M				C2 - Dry S					C3 - Oxidized Rhizospheres on Living Roots (tilled)
	B2 - Sedimer	it Deposits					spheres on Living	Roots (not till	£ 🗆	C8 - Crayfish Burrows
	B3 - Drift Dep	osits			C4 - Prese	ence of Re	duced Iron			C9 - Saturation Visible on Aerial Imagery
	B4 - Algal Ma	t or Crust			🗆 C7 - Thin 🛛	Muck Surfa	ace			D2 - Geomorphic Position
	B5 - Iron Dep				Other (Explanation)	olain)				D5 - FAC-Neutral Test
		on Visible on Aerial Im	agery							D7 - Frost-Heaved Hummocks (LRR F)
	B9 - Water-S	tained Leaves								
Field Observ	vations:									
Surface Wate	er Present?	Yes 🛛	Dep	oth:	(in.)			Motiond H	ludrology	Drecent?
Water Table	Present?	Yes 🛛	Dep	oth:	(in.)			Wetland H	iyarology	Present? N
Saturation Pr		Yes 🗆	Dep		(in.)					
			•							
	orded Data (stream gauge, moni	toring well, a	erial photos	, previous ins	pections),	, if available:			
Remarks:	No indicato	rs of wetland hydro	ology were c	bserved.						
SOILS										
Profile Descri		ibe to the depth ne								
Profile Descri		ibe to the depth ne etion, RM=Reduced Ma								
Profile Descri		etion, RM=Reduced Ma				ation: PL=P	ore Lining, M=Matr			
Profile Descri (Type: C=Concen		etion, RM=Reduced Ma Matrix	atrix, CS=Cove	red/Coated Sa	and Grains; Loca	ation: PL=P MottI	ore Lining, M=Matr es	x)		
Profile Descri		etion, RM=Reduced Ma		red/Coated Sa		ation: PL=P	ore Lining, M=Matr		Texture	Remarks
Profile Descri (Type: C=Concen		etion, RM=Reduced Ma Matrix Color (Moist)	atrix, CS=Cove	red/Coated Sa	and Grains; Loca	ation: PL=P MottI	ore Lining, M=Matr es	x)	Texture C	Remarks
Profile Descri (Type: C=Concen Depth (In.) 0-8	Hue_10YR	etion, RM=Reduced Ma Matrix Color (Moist) 2/1	atrix, CS=Cove	red/Coated Sa	ond Grains; Loca	ation: PL=P MottI	ore Lining, M=Matr es	x)	Texture C C	Remarks
Profile Descri (Type: C=Concen Depth (In.)	tration, D=Dep	etion, RM=Reduced Ma Matrix Color (Moist) 2/1	atrix, CS=Cove	red/Coated Sa	ond Grains; Loca	ation: PL=P MottI %	ore Lining, M=Matr es Type	x) Location	Texture C C	Remarks
Profile Descri (Type: C=Concen Depth (In.) 0-8	Hue_10YR	etion, RM=Reduced Ma Matrix Color (Moist) 2/1	atrix, CS=Cove	red/Coated Sa	ond Grains; Loca	ation: PL=P MottI %	ore Lining, M=Matr es Type	x) Location	Texture C C	Remarks
Profile Descri (Type: C=Concen Depth (In.) 0-8	Hue_10YR	etion, RM=Reduced Ma Matrix Color (Moist) 2/1	atrix, CS=Cove	red/Coated Sa	ond Grains; Loca	ation: PL=P MottI %	ore Lining, M=Matr es Type	x) Location	Texture C C	Remarks
Profile Descri (Type: C=Concen Depth (In.) 0-8	Hue_10YR	etion, RM=Reduced Ma Matrix Color (Moist) 2/1	atrix, CS=Cove	red/Coated Sa	ond Grains; Loca	ation: PL=P MottI %	ore Lining, M=Matr es Type	x) Location	Texture C C	Remarks
Profile Descri (Type: C=Concen Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2	atrix, CS=Cove	red/Coated Sa Colo 0 0 10 10 10 10 10 10 10 10 10 10 10 10	or (Moist)	ation: PL=P Mottl % 10	ore Lining, M=Matr es Type C	x) Location	Texture C C	Remarks
Profile Descri (Type: C=Concen Depth (In.) 0-8	Hue_10YR Hue_10YR	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2	atrix, CS=Cove	red/Coated Sa Colo 0 0 10 10 10 10 10 10 10 10 10 10 10 10	ond Grains; Loca	ation: PL=P Mottl % 10	ore Lining, M=Matr es Type	x) Location	Texture C C	Remarks
Profile Descri (Type: C=Concen Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2	atrix, CS=Cove	red/Coated Sa Colo 0 0 10 10 10 10 10 10 10 10 10 10 10 10	or (Moist)	ation: PL=P Mottl % 10	ore Lining, M=Matr es Type C	x) Location	C	Remarks
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Profile Descri (Type: C=Concen Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR Hue_10YR	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch	atrix, CS=Cove	red/Coated Sa Colu D Hue_10 Ndicators a	or (Moist) YR 5/8	ation: PL=P Mottl % 10	ore Lining, M=Matr es Type C	x) Location M	C C Indicators f A9 - 1 cm M	
Profile Descri (Type: C=Concern Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR ic Soil Field	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch	atrix, CS=Cove	red/Coated Sa Colo D Hue_10 D Hue_10 ndicators a S5 - Sanc S6 - Strip	or (Moist) YR 5/8 re not preser	ation: PL=P Mottl % 10 nt):	ore Lining, M=Matr es Type C	x) Location M	C C Indicators f A9 - 1 cm M A16 - Coast	for Problematic Soils ¹ //uck (LRR I, J)
Profile Descri (Type: C=Concern Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch	atrix, CS=Cove	red/Coated Sa Colu Colu D Hue_10 D Hue_10 D Hue_10 D Hue_10 S5 - Sand S5 - Sand S5 - Sand S6 - Strip D F1 - Loar	or (Moist) YR 5/8 re not preser	ation: PL=P Mottl % 10 10 ht):	ore Lining, M=Matr es Type C	x) Location M	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	for Problematic Soils ¹ //uck (LRR I, J) t Prairie Redox (LRR F, G, H)
Profile Descri (Type: C=Concern Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Indicators (ch	atrix, CS=Cove	red/Coated Sa Colu D Hue_10 D Hue_10 Ndicators a S5 - Sand S6 - Strip F1 - Loar F2 - Loar	re not preser	ation: PL=P Mottl % 10 10 ht):	ore Lining, M=Matr es Type C	x) Location M	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	for Problematic Soils ¹ Auck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)
Profile Descri (Type: C=Concern Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 5/2 Indicators (ch	atrix, CS=Cove	red/Coated Sa Colo D Hue_10 D Hue_10 D Hue_10 D S5 - Sand S5 - Sand S6 - Strip D F1 - Loar D F2 - Loar Ø F3 - Depl	re not preser by Redox ped Matrix hy Gleyed Matri	ation: PL=P Mottl % 10 nt):	ore Lining, M=Matr es Type C	x) Location M	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	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
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Profile Descri (Type: C=Concern Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Joinedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface Dark Surface Jucky Peat or Peat (LR	atrix, CS=Cove	red/Coated Sa Colo Co	re not preser dy Redox ped Matrix hy Gleyed Matri eted Matrix bx Dark Surface eted Dark Surface	ation: PL=P Mottl % 10 10 nt):	ore Lining, M=Matr es Type C	x) Location M	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	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 / Shallow Dark Surface ain in Remarks)
Profile Descri (Type: C=Concern Depth (In.) 0-8 8-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy W S2 - 2.5 cm M	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Joinedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface Dark Surface Jucky Peat or Peat (LR	atrix, CS=Cove	red/Coated Sa Colo Co	re not preser dy Redox ped Matrix hy Gleyed Matri eted Matrix bx Dark Surface eted Dark Surface	ation: PL=P Mottl % 10 10 nt):	ore Lining, M=Matr es Type C	x) Location M	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	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 / Shallow Dark Surface ain in Remarks)
Profile Descri (Type: C=Concern Depth (In.) 0-8 8-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 Joinedon stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface Dark Surface Jucky Peat or Peat (LR	atrix, CS=Cove	red/Coated Sa Colo Co	re not preser dy Redox ped Matrix hy Gleyed Matri eted Matrix bx Dark Surface eted Dark Surface	ation: PL=P Mottl % 10 10 nt):	ore Lining, M=Matr es Type C	x) Location M	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	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 / Shallow Dark Surface ain in Remarks)
Profile Descri (Type: C=Concern Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy W S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 J 5/2 Indicators (ch bipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface bark Surface backy Mineral Aucky Peat or Peat (LRF) cky Peat or Peat (LRF) cky Peat or Peat (LRF) backy Matrix	atrix, CS=Cove	red/Coated Sa 0 <	re not preser dy Redox ped Matrix hy Gleyed Matri eted Matrix bx Dark Surface eted Dark Surface	ation: PL=P Mottl % 10 10 nt):	ore Lining, M=Matr	x) Location M	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	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 / Shallow Dark Surface ain in Remarks)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-153n44w13-b1
-					
/EGETATIO		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: 0 (A)
3.	<u></u>				
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.	<u></u>				
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cover				OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.10x4 =40
	Total Cover =	0			FACW spp. 0 $X Z = 0$
					FAC spp. 0 X 3 = 0
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				$FACU \text{ spp.} \qquad 10 \qquad X \ 4 = \qquad 40$
۱. ۲					UPL spp. 70 $x 5 = 350$
<u>2.</u> 3.					
					Total 80 (A) 390 (B)
<u>4.</u> 5.					Provalance Index = P/A = 4.975
					Prevalence Index = B/A = <u>4.875</u>
<u>6.</u> 7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	 Total Cover =	0			$\underline{\qquad} \qquad \underline{\qquad} \qquad} \qquad \underline{\qquad} \qquad} \qquad \underline{\qquad} \qquad \underline{\qquad} \qquad} \qquad \underline{\qquad} \qquad} \qquad \underline{\qquad} \qquad} \qquad \underline{\qquad} \qquad \underline{\qquad} \qquad} \qquad \qquad \underline{\qquad} \qquad} \qquad \qquad \underline{\qquad} \qquad} \qquad \underline{\qquad} \qquad} \qquad \underline{\qquad} \qquad} \qquad \underline{\qquad} \qquad} \qquad \qquad \underline{\qquad} \qquad} \qquad \qquad \underline{\qquad} \qquad} \qquad \qquad \qquad \underline{\qquad} \qquad} \qquad \qquad \qquad \underline{\qquad} \qquad} \qquad \qquad \qquad \underline{\qquad} \qquad}$
		0	_		
Larb Stratura /	Diet eizer Eft rediue)				Morphological Adaptations (Explain) *
<u>⊓erb Stratum (</u> 1.	Plot size: 5 ft. radius) Glycine max	70	V	NI	Problem Hydrophytic Vegetation (Explain) *
2.	Setaria pumila		 N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Amaranthus retroflexus	<u> </u>	N N	FACU	present, unless disturbed or problematic.
4.	Amarantnus retronexus	5	IN	TACU	Definitions of Vegetation Strata:
5.					Deminions of Vegetation Strata.
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.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.	1				1
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	80			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.	<u>,</u>				
Т	Total Cover =	: 0			
Remarks:	The upland sample point is dominated by he		ans		
tomano.	The upland sample point is dominated by he	Junny SuyDe	Juno.		
A					
Additional R	kemarks:				