WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators		L3R								Date:	09/18/14
¥		Enbridge								County:	Marshall
		NTT/BEH			_Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit: Landform:	I53A Side slope				ocal Relief:		I Classification:			Sample Point	u-155n45w28-i2
Slope (%):	<u>3 - 7%</u>		Latitude: 48		Longitude:		014	Datum:			<u>u-1331143w20-12</u>
		nditions on the sit							□ No	Section:	
Are Vegetati	· · ·	□, or Hydrology		ntly disturbed?		1	e normal circum	nstances pre	esent?	Township:	
Are Vegetati		□, or Hydrology	•	•			Ves	□ No		Range:	Dir:
SUMMARY											
Hydrophytic	-		No		_			Hydric Soil			
	drology Prese	point is located o	No No rico with		on field D	lantad ac	whaan in domin			nt Within A W	
Remarks:	The upland	point is located of	n a nse with	in a famed be	an neid. Pi	lanted so	by beam is domin	iant with no	other vege	tation presen	ι.
HYDROLOG	Y										
		icators (Chack al	ll that apply:	Minimum of o	oo primony	or two o	ocondory roqui	(ad)			
Primary	•••	icators (Check al	ii that apply,	Minimum of O	ne primary	or two so	econdary requi	eu):	Secondary:		
	 A1 - Surface `	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio B1 - Water M				C1 - Hydro C2 - Dry S					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sedimen						spheres on Living	Roots (not till	€ □	C8 - Crayfish I	
	B3 - Drift Dep				C4 - Prese	ence of Re	duced Iron	,		C9 - Saturation	n Visible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin M		ace			D2 - Geomorp D5 - FAC-Neu	
		on Visible on Aerial In	magery		Other (Exp	nain)					aved Hummocks (LRR F)
		ained Leaves									
Field Obser					<i>4</i> 1						
	ter Present?			pth:	_ (in.)			Wetland H	lydrology	Present?	Ν
Water Table		Yes D		pth:	_ (in.)				,		
Saturation P		Yes 🗆		pth:	(in.)						
	,	stream gauge, mon	U	aerial photos, p	revious insp	pections),	if available:				
	No wotland										
Remarks:	NO WEIIANU	hydrology indicate	ors were ob	served.							
	No wettand	hydrology indicate	ors were ob	served.							
SOILS					icator or co	onfirm th	e absence of in	dicators.)			
SOILS Profile Descr	iption (Descr	be to the depth ne	eeded to do	cument the inc							
SOILS Profile Descr	iption (Descr	be to the depth ne	eeded to do	cument the inc		tion: PL=P	ore Lining, M=Matr				
SOILS Profile Descr (Type: C=Conce	iption (Descr	be to the depth ne etion, RM=Reduced M Matrix	eeded to do Aatrix, CS=Cov	cument the inc ered/Coated Sand	Grains; Loca	tion: PL=P Mottle	ore Lining, M=Matr es	ix)			Demedus
SOILS Profile Descr (Type: C=Conce Depth (In.)	iption (Descr ntration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to do Aatrix, CS=Cov	cument the inc ered/Coated Sand % Color		tion: PL=P	ore Lining, M=Matr		Texture		Remarks
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6	iption (Descr ntration, D=Depl Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to do Aatrix, CS=Cove	cument the inc ered/Coated Sand % Color 00	Grains; Loca	tion: PL=P Mottle	ore Lining, M=Matr es	ix)	CL		Remarks
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	eeded to do Matrix, CS=Cove	cument the inc ered/Coated Sand % Color 00 00	Grains; Loca	tion: PL=P Mottle	ore Lining, M=Matr es	ix)	CL SL		
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4	eeded to do Aatrix, CS=Cove 10 10 10	cument the inc ered/Coated Sand % Color 00 00	Grains; Loca (Moist)	tion: PL=P Mottle %	ore Lining, M=Matr es Type	Location	CL	Layer contains gr	
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1	eeded to do Aatrix, CS=Cove 10 10 10 7	cument the inc ered/Coated Sand % Color 00 00 00 70 Hue_10YF	Grains; Loca (Moist)	tion: PL=P Mottle	ore Lining, M=Matr es	ix)	CL SL CL C		
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1	eeded to do Aatrix, CS=Cove 10 10 10 7	cument the inc ered/Coated Sand % Color 00 00	Grains; Loca (Moist)	tion: PL=P Mottle %	ore Lining, M=Matr es Type	Location	CL SL	Layer contains gr Mixed matrix.	
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18 15-18	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1 2/1	eeded to do Matrix, CS=Cove 10 10 10 7 2	cument the inc ered/Coated Sand % Color 00 00 00 70 Hue_10YF 20	Grains; Loca (Moist) R 6/8	tion: PL=P Mottle %	ore Lining, M=Matr es Type	Location	CL SL CL C		
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18 15-18	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1 2/1	eeded to do Matrix, CS=Cove 10 10 10 7 2	cument the inc ered/Coated Sand % Color 00 00 00 70 Hue_10YF	Grains; Loca (Moist) R 6/8	tion: PL=P Mottle %	ore Lining, M=Matr es Type C	Location	CL SL CL C CL		avel.
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18 15-18 15-18	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR ric Soil Field	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1 2/1 Indicators (cl	eeded to do Matrix, CS=Cove 10 10 10 7 2	cument the inc ered/Coated Sand % Color 00 00 00 70 Hue_10YF 20 indicators are	Grains; Loca (Moist) R 6/8 not presen	tion: PL=P Mottle %	ore Lining, M=Matr es Type C	Location M	CL SL CL C CL Indicators f A9 - 1 cm M	Mixed matrix. for Problemation luck (LRR I, J)	avel. <u>c Soils¹</u>
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18 15-18 15-18	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1 2/1 Indicators (cl	eeded to do Matrix, CS=Cove 10 10 10 7 2	cument the inc ered/Coated Sand % Color 00 00 00 00 70 Hue_10YF 20 indicators are □ S5 - Sandy I □ S6 - Strippe	Grains; Loca (Moist) (tion: PL=P Mottl % 10 t):	ore Lining, M=Matr es Type C	Location M	CL SL CL C CL Indicators f A9 - 1 cm M A16 - Coast	Mixed matrix. f or Problemati luck (LRR I, J) Prairie Redox	avel. <u>c Soils¹</u> (LRR F, G, H)
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18 15-18 15-18	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1 2/1 Indicators (cl	eeded to do Matrix, CS=Cove 10 10 10 7 2	cument the inc ered/Coated Sand % Color 00 00 00 00 70 Hue_10YF 20 indicators are 0 S5 - Sandy I 0 S6 - Strippe 0 F1 - Loamy	Grains; Loca (Moist) (Moist) Redox d Matrix Mucky Miner	tion: PL=P Mottle % 10 t):	ore Lining, M=Matr es Type C	Location M	CL SL CL C CL Maicators f A9 - 1 cm M A16 - Coast S7 - Dark S	Mixed matrix. for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G)	avel. <u>c Soils¹</u> (LRR F, G, H)
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SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18 15-18 15-18	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Generation A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifieo A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1 2/1 Indicators (cl ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to do Aatrix, CS=Cove 10 10 10 10 10 10 10 10 10 10	cument the inc ered/Coated Sand % Color 00 00 00 70 Hue_10YF 20 indicators are S5 - Sandy I S6 - Strippe S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox	Grains; Loca (Moist) (Moist) Redox Not presen Redox d Matrix Mucky Miner Gleyed Matri Dark Surface	tion: PL=P Mottle % 10 10 it):	ore Lining, M=Matr es Type C	Location	CL SL CL C C CL Main A A A B A B C C C C C C C C C C C C C C	Mixed matrix. for Problemation Iuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Plains Depression Plai	avel. <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18 15-18 NRCS Hyde 0 0 0 0 0 0 0 0 0 0 0 0 0	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1 2/1 Indicators (cl ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surfac	eeded to do Aatrix, CS=Cove 10 10 10 10 10 10 10 10 10 10	cument the inc ered/Coated Sand % Color 00 00 00 70 Hue_10YF 20 indicators are S5 - Sandy I S6 - Strippe S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox	Grains; Loca (Moist) (Moist) R 6/8 not presen Redox d Matrix Mucky Miner Gleyed Matri d Matrix Dark Surface d Dark Surface	tion: PL=P Mottle % 10 10 at):	ore Lining, M=Matr es Type C	Location	CL SL CL C C CL Main and the second s	Mixed matrix. for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	avel. <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18 15-18 15-18	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Generation A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifieo A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1 2/1 Indicators (cl ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to do Aatrix, CS=Cove 10 10 10 10 10 10 10 10 10 10	cument the inc ered/Coated Sand % Color 00 00 00 00 70 Hue_10YF 20 indicators are S5 - Sandy I S6 - Strippe S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox I F7 - Deplete F8 - Redox I	Grains; Loca (Moist) (Moist) R 6/8 not presen Redox d Matrix Mucky Miner Gleyed Matri d Matrix Dark Surface d Dark Surface Depressions	tion: PL=P Mottle % 10 10 t):	ore Lining, M=Matr es Type C	Location M	CL SL CL C C CL Main and the second s	Mixed matrix. for Problemation Iuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Plains Depression Plai	avel. <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18 15-18 NRCS Hyd 0 0 0 0 0 0 0 0 0 0 0 0 0	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gall Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1 2/1 Indicators (cl ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral fucky Peat or Peat (LR	eeded to doo Matrix, CS=Cove	cument the inc ered/Coated Sand % Color 00 00 00 00 70 Hue_10YF 20 indicators are S5 - Sandy I S6 - Strippe S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox I F7 - Deplete F8 - Redox I	Grains; Loca (Moist) (Moist) R 6/8 not presen Redox d Matrix Mucky Miner Gleyed Matri d Matrix Dark Surface d Dark Surface Depressions	tion: PL=P Mottle % 10 10 t):	ore Lining, M=Matr es Type C	Location M	CL SL CL C C CL Main Const A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. For Problemation Iuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Plains Depression Plai	avel. <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18 15-18 NRCS Hyd 0 0 0 0 0 0 0 0 0 0 0 0 0	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1 2/1 Indicators (cl ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral fucky Peat or Peat (LR ky Peat or Peat (LR	eeded to doo Matrix, CS=Cove	cument the inc ered/Coated Sand % Color 00 00 00 00 70 Hue_10YF 20 indicators are S5 - Sandy I S6 - Strippe S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox I F7 - Deplete F8 - Redox I	Grains; Loca (Moist) (Moist) R 6/8 not presen Redox d Matrix Mucky Miner Gleyed Matri d Matrix Dark Surface d Dark Surface d Dark Surface Plains Depres	tion: PL=P Mottle % 10 10 t):	ore Lining, M=Matr es Type C □ ☑	Location M	CL SL CL C C CL <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. For Problemation Iuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Plains Depression Plai	avel. <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descr (Type: C=Conce Depth (In.) 0-6 6-9 9-15 15-18 15-18 15-18 NRCS Hydi	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gall Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratifiec A3 - Black His A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 4/4 7/1 2/1 Indicators (cl ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surfac ark Surface ucky Mineral fucky Peat or Peat (LR ky Peat or Peat (LR	eeded to doo Aatrix, CS=Cove 10 10 10 10 10 10 10 10 10 10	cument the inc ered/Coated Sand % Color 00 00 00 70 Hue_10YF 20 indicators are S5 - Sandy I S6 - Strippe S6 - Strippe F1 - Loamy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox I F6 - Redox I F7 - Deplete F8 - Redox I F8 - Redox I F16 - High F	Grains; Loca (Moist) (Moist) Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Matrix Dark Surface d Dark Surface d Dark Surface d Dark Surface	tion: PL=P Mottle % 10 10 at):	es Type C C RA 72, 73 of LRF	Location M	CL SL CL C C CL <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Mixed matrix. For Problemation Iuck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Plains Depression Plai	avel. <u>c Soils¹</u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-155n45w28-i2
VEGETATIO		are non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
4	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	S 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: <u>1</u> (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					Drevelen ee Index Werkeheet
8.					Prevalence Index Worksheet
9.		1			Total % Cover of: <u>Multiply by:</u>
10.	 Tatal Cavar				$OBL spp. 0 \qquad x \ 1 = 0$
	Total Cover =	=0	FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.0x4 =0		
O a se line se /Oh se ah a					FAC spp. 0 X 3 = 0
Sapling/Shrub 3	Stratum (Plot size: 15 ft. radius)	1			$- \qquad \qquad$
2.					UPL spp. $50 x 5 = 250$
		1			
3.		1			Total(A)(B)
<u>4.</u> 5.					
<u> </u>		1			Prevalence Index = B/A = 5.000
7.					
8.		1			
9.					Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
10.	<u> </u>	1			Rapid Test for Hydrophytic Vegetation Dominance Test is > 50%
10.	_l Total Cover =	= 0			$\qquad \qquad $
		=0	_		
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)		V	NII	Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	50	Y	NI	* Indiantara of hydria apil and watland hydrology must be
2.					* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.					
4.					Definitions of Vegetation Strata:
5.					- Tree
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					-
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					_
11.					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					
13.					
14.					Woody Vines - All woody vines, regardless of height.
15.	Ter LO	F 0			
	Total Cover =	= 50	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	1				
2.					
3.					Hydrophytic Vegetation Present? N
5.	1				
4.	Tatal Oaur				
Domortio	Total Cover =		no other	Vogetet's	an procent
Remarks:	Rows of soybeans are present throughout t	he area with	i no otner	vegetation	on present.
Additional R	Remarks:				