WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	06/27/14	
Applicant:	Enbridge									County:	Kittson	=	
Investigators:	BCS/BEH			Subregion (MLRA				or LRR): MLRA 56			State:	MN	_
Soil Unit:	1248A						NWI Classification:						
	Dip Loc				cal Relief:					Sample Point:	w-160n50w10-c	:2	
	0 - 2% Latitude: 48.69869428					Longitude: -97.0951716993 Datum:							
Are climatic/h	nydrologic co	nditions on the site	e typical for	r this time	e of yea	Ir? (If no, exp			⊡Yes	□ No	Section:		
Are Vegetation		☐ or Hydrology					Are	normal circun	nstances pro	esent?	Township:		
Are Vegetation		☐ or Hydrology	□ turally	problema	atic?			Yes	□No		Range:	Dir:	
SUMMARY O	F FINDINGS	3											
Hydrophytic \	/egetation Pi	resent?	Ye	s.					Hydric Soil	ls Present?	Yes		
Wetland Hyd	rology Prese	nt?	Ye	s					Is This Sai	mpling Poin	t Within A W	etland? Yes	
Remarks:		l is a fresh wet me I between a shallo					pears to	be in CRP. The	e site is don	ninated by v	white panicled	l aster and narrow	-leaf cattail
HYDROLOGY			THE THE TENT	na a grai		ity roddi							
		cators (Check all	I that apply;	; Minimur	m of one	e primary	or two se	econdary requi	red):				
Primary:		`	11.77			. ,		, ,	,	Secondary:			
A1 - Surface Water						B11 - Salt (☐ B6 - Surface Soil Cracks				
	A2 - High Wat											Vegetated Concave S	Surface
	A3 - Saturatio B1 - Water Ma					C2 - Dry Se					B10 - Drainage	Rhizospheres on Livir	na Roots (tilled)
	B2 - Sedimen							pheres on Living	Roots (not till		C8 - Crayfish E		
	B3 - Drift Dep					C4 - Prese			•			Visible on Aerial Ima	agery
	B4 - Algal Mat					C7 - Thin M		ice			D2 - Geomorp		
	B5 - Iron Depo	osits n Visible on Aerial Im	200001		ш	Other (Expl	lain)				D5 - FAC-Neu	tral Test ived Hummocks (LRI	D E\
	B9 - Water-St	ained Leaves	lagel y							_	D1 - F1051-Hea	ived Hullillocks (LRI	KF)
_													
Field Observ	ations:												
Surface Water		Yes 🗹	De	epth:	5	(in.)							
Water Table		Yes 🖸		epth:	0	(in.)			Wetland F	lydrology l	Present?	Υ	
Saturation Pr		Yes 🗹		pth:	0	(in.)						—	
				pui	0	(111.)							
		tream gauge, moni											
Remarks:		tream gauge, moni of surface water i							detected in	the upper 1	2 inches of the	ne soil profile.	
Remarks:									detected in	the upper 1	2 inches of th	ne soil profile.	
Remarks:	Five inches	of surface water i	is present a	at the sar	mple po	int; a hydr	rogen sul	lfide odor was		the upper 1	2 inches of th	ne soil profile.	
Remarks: SOILS Profile Descri	Five inches	of surface water i	is present a	at the sar	mple po	int; a hydr	rogen sul	Ifide odor was	ndicators.)	the upper 1	2 inches of th	ne soil profile.	
Remarks: SOILS Profile Descri	Five inches	of surface water i	is present a	at the sar	mple po	int; a hydr	rogen sul	Ifide odor was	ndicators.)	the upper 1	2 inches of th	ne soil profile.	
Remarks: SOILS Profile Descri	Five inches	of surface water in the best of the depth nestion, RM=Reduced Ma	is present a	at the sar	mple po	int; a hydr	onfirm the	Ifide odor was absence of irone Lining, M=Matr	ndicators.)	the upper 1	2 inches of th	ne soil profile.	
Remarks: SOILS Profile Descri (Type: C=Concen	Five inches	be to the depth ne	eeded to do atrix, CS=Cov	at the sar	mple po	int; a hydr cator or co Grains; Locat	onfirm the tion: PL=Po	Ifide odor was absence of ir ore Lining, M=Matr	ndicators.)		2 inches of th	· · · · · · · · · · · · · · · · · · ·	
Remarks: SOILS Profile Descri (Type: C=Concen	Five inches	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do atrix, CS=Cov	at the sar	mple po	int; a hydr cator or co Grains; Locat	onfirm the	Ifide odor was absence of irone Lining, M=Matr	ndicators.)	Texture	2 inches of th	ne soil profile.	
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-15	ption (Descriptration, D=Deplementation)	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	eeded to do atrix, CS=Cov	ocument t	mple po	int; a hydr cator or co Grains; Locat	onfirm the tion: PL=Po	Ifide odor was absence of ir ore Lining, M=Matr	ndicators.)	Texture SIC	2 inches of th	· · · · · · · · · · · · · · · · · · ·	
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-15 15-20	ption (Descriptration, D=Depk	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1	eeded to do atrix, CS=Cov	ocument t vered/Coate % (00 00	the indiced Sand C	int; a hydrocator or co	onfirm the	e absence of in ore Lining, M=Matr es Type	dicators.) ix) Location	Texture SIC C	2 inches of th	· · · · · · · · · · · · · · · · · · ·	
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-15	ption (Descriptration, D=Deplementation)	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1	eeded to do atrix, CS=Cov	ocument t vered/Coate % (00 00	mple po	int; a hydr cator or co Grains; Locat	onfirm the tion: PL=Po	Ifide odor was absence of ir ore Lining, M=Matr	ndicators.)	Texture SIC	2 inches of the	· · · · · · · · · · · · · · · · · · ·	
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-15 15-20	ption (Descriptration, D=Depk	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1	eeded to do atrix, CS=Cov	ocument t vered/Coate % (00 00	the indiced Sand C	int; a hydrocator or co	onfirm the	e absence of in ore Lining, M=Matr es Type	dicators.) ix) Location	Texture SIC C	2 inches of the	· · · · · · · · · · · · · · · · · · ·	
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-15 15-20	ption (Descriptration, D=Depk	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1	eeded to do atrix, CS=Cov	ocument t vered/Coate % (00 00	the indiced Sand C	int; a hydrocator or co	onfirm the	e absence of in ore Lining, M=Matr es Type	dicators.) ix) Location	Texture SIC C	2 inches of the	· · · · · · · · · · · · · · · · · · ·	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27	ption (Descritration, D=Deplete Hue 10YR Hue 2.5Y Hue 2.5Y	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2	eeded to do atrix, CS=Cov	ocument t vered/Coate % (00 00	the indiced Sand C	int; a hydrocator or co	onfirm the	e absence of ir ore Lining, M=Matr es Type	dicators.) ix) Location	Texture SIC C	2 inches of the	· · · · · · · · · · · · · · · · · · ·	
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-15 15-20	ption (Descritration, D=Deplete Hue 10YR Hue 2.5Y Hue 2.5Y	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2	eeded to do atrix, CS=Cov	at the sar accument t accument	the indiced Sand C	cator or coerains; Locat Moist) 4/6	onfirm the tion: PL=Pc Mottle %	e absence of in ore Lining, M=Matr es Type	dicators.) ix) Location	Texture SIC C	2 inches of th	· · · · · · · · · · · · · · · · · · ·	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27	ption (Descritration, D=Deplete Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2	seeded to do atrix, CS=Cov	ocument the sare fered/Coate f	the indiced Sand C Color (N 10YR	cator or co crains; Locat Moist) 4/6 ot present	onfirm the tion: PL=Pc Mottle %	e absence of ir ore Lining, M=Matr es Type	Location M	Texture SIC C C	or Problematic	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27 NRCS Hydri	ption (Descritration, D=Deplete Intration, D=Deplete	be to the depth neterion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2 Indicators (ch	seeded to do atrix, CS=Cov	scument the sar	the indiced Sand Color (No. 10YR) rs are n Sandy Re	cator or co crains; Locat Moist) 4/6 ot present	onfirm the tion: PL=Pc Mottle % 2	e absence of ir ore Lining, M=Matr es Type	Location M	Texture SIC C C Indicators f A9 - 1 cm M	For Problematic	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-15 15-20 20-27 NRCS Hydri	ption (Description), D=Depletion, D=Depletio	be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 4/2 Indicators (ch	seeded to do atrix, CS=Cov	scument the sar	the indiced Sand Color (No. 10YR) To sare no Sandy Restripped	cator or co Grains; Locat Moist) 4/6 ot present	onfirm the tion: PL=Pc Mottle % 2	e absence of ir ore Lining, M=Matr es Type	Location M	Texture SIC C C Indicators f A9 - 1 cm M A16 - Cost F	For Problematic luck (LRR I, J) Prairie Redox (L	Remarks	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27 NRCS Hydri	ption (Descritration, D=Deplementation, D=Deplem	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2 Indicators (chappedon etic)	seeded to do atrix, CS=Cov	cument t the sar the s	color (Management of the indicated Sand Color	cator or coerains; Locat Moist) 4/6 ot presentedox Matrix ucky Minera	onfirm thetion: PL=Po Mottle % 2 tt):	e absence of ir ore Lining, M=Matr es Type	Location M	Texture SIC C C Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si	For Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G)	Remarks Soils RR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-15 15-20 20-27 NRCS Hydri	ption (Descritration, D=Deplete Intration, D=Deplete	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2 Indicators (chairpedon titic in Sulfide	seeded to do atrix, CS=Cov	at the sar at the	mple po the indiced Sand C Color (N	int; a hydrocator or cosrains; Locator or cosrains;	onfirm thetion: PL=Po Mottle % 2 tt):	e absence of ir ore Lining, M=Matr es Type	Location M	Texture SIC C C Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F	For Problematic luck (LRR I, J) Prairie Redox (LRR G) Plains Depression	Remarks	. 73)
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27 NRCS Hydri	ption (Descritration, D=Depli Hue_10YR Hue_2.5Y Hue_2.5Y Ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 4/2 Indicators (ch	seeded to do atrix, CS=Cov	S5 - S G F2 - L G F3 - L G G G G G G G G G	the indiced Sand Color (No. 10YR) To are no Sandy Restripped Loamy Moloamy Mo	cator or co Grains; Locat Moist) 4/6 ot present	onfirm the confirm the confirmation of the confirmatio	e absence of ir ore Lining, M=Matr es Type	Location M	Texture SIC C C C Hadicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc	For Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression	Remarks Soils RR F, G, H)	, 73)
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27 NRCS Hydri	ption (Descritration, D=Deplete Intration, D=Deplete	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2 Indicators (chained in Sulfide Layers (LRR F) ck (LRR FGH)	eeded to do atrix, CS=Cov	S5 - S F1 - L F3 - L F6 - F F6 - F6 - F6 - F6 - F6 - F6	the indiced Sand Color (No. 10YR) To are no Sandy Restripped Loamy McLoamy Gopeleted Redox Da	cator or co crains; Locat Moist) 4/6 ot present	monfirm the confirm the confirmation of the confirmation o	e absence of ir ore Lining, M=Matr es Type	Location M	Texture SIC C C C Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P	For Problematic luck (LRR I, J) Prairie Redox (L lurface (LRR G) Plains Depression led Vertic Parent Material	Remarks Soils¹ RR F, G, H) Ons (LRR H, outisde MLRA 72.	, 73)
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27 NRCS Hydri	ption (Descritration, D=Deplete Intration, D=Deplete	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2 Indicators (characters)	eeded to do atrix, CS=Cov	## sar the sar	color (Management of the indicated Sand Color (Management of the indicated Sand Color (Management of the indicated Sand Sandy Research of the indicated Sandy	cator or co Grains; Locat Moist) 4/6 ot present	monfirm the confirm the confirmation of the confirmation o	e absence of ir ore Lining, M=Matr es Type	Location M	Texture SIC C C Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Red p TF2 - Red P TF12 - Very	For Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression	Remarks Soils¹ RR F, G, H) Ons (LRR H, outisde MLRA 72.	. 73)
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27 NRCS Hydri	ption (Descritration, D=Depli Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 4/2 Indicators (ch ipedon titic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eeded to do atrix, CS=Cov	S5 - S S6 - S F5 - S F	mple po the indiced Sand C Color (N 10YR rs are n Sandy Re Stripped Loamy G Depleted Redox De Depleted Redox De	int; a hydrometric and control of the control of th	monfirm the confirm the confirmation of the confirmation that confirmation that confirmation the confirmation that con	e absence of ir ore Lining, M=Matr es Type	Location M	Texture SIC C C Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Red p TF2 - Red P TF12 - Very	For Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic arrent Material Shallow Dark S	Remarks Soils¹ RR F, G, H) Ons (LRR H, outisde MLRA 72.	, 73)
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-15 15-20 20-27 NRCS Hydri	Five inches ption (Description) Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y General Field A1- Histosol A2- Histic Ep A3- Black His A4- Hydroger A4- Hydroger A9- 1 cm Mu A11- Deplete A12- Thick D S1- Sandy M S2- 2.5 cm N	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2 Indicators (chaired in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface Lucky Mineral Lucky Peat or Peat (Licky Peat or P	eeded to do atrix, CS=Cov	S5 - S S6 - S F5 - S F	mple po the indiced Sand C Color (N 10YR rs are n Sandy Re Stripped Loamy G Depleted Redox De Depleted Redox De	int; a hydrometric and control of the control of th	monfirm the confirm the confirmation of the confirmation that confirmation that confirmation the confirmation that con	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture SIC C C C Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	For Problematic luck (LRR I, J) Prairie Redox (L Jurface (LRR G) Plains Depression Prairie Material Parent Material Shallow Dark S Sain in Remarks)	Remarks Soils¹ RR F, G, H) Ons (LRR H, outisde MLRA 72.	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27 NRCS Hydri	Five inches ption (Description), Depole Hue 10YR Hue 2.5Y Hue 2.5Y Hue 2.5Y A1- Histosol A2- Histic Ep A3- Black His A4- Hydroger A5- Stratified A11- Deplete A12- Thick D S1- Sandy M S2- 2.5 cm M S3-5 cm Mu	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2 Indicators (characters (characters)) Indicators (characters)	eeded to do atrix, CS=Cov	S5 - S S6 - S F5 - S F	mple po the indiced Sand C Color (N 10YR rs are n Sandy Re Stripped Loamy G Depleted Redox De Depleted Redox De	int; a hydrometric and control of the control of th	monfirm the confirm the confirmation of the confirmation that confirmation that confirmation the confirmation that con	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture SIC C C C Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F18 - Reduc TF2 - Red P TF12 - Very Other (Explain	For Problematic For Problemati	Remarks Soils¹ RR F, G, H) Ons (LRR H, outisde MLRA 72.	
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-15 15-20 20-27 NRCS Hydri	Five inches ption (Description) Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y General Field A1- Histosol A2- Histic Ep A3- Black His A4- Hydroger A4- Hydroger A9- 1 cm Mu A11- Deplete A12- Thick D S1- Sandy M S2- 2.5 cm N	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2 Indicators (characters (characters)) Indicators (characters)	eeded to do atrix, CS=Cov	S5 - S S6 - S F5 - S F	mple po the indiced Sand C Color (N 10YR rs are n Sandy Re Stripped Loamy G Depleted Redox De Depleted Redox De	int; a hydrometric and control of the control of th	monfirm the confirm the confirmation of the confirmation that confirmation that confirmation the confirmation that con	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture SIC C C C Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F18 - Reduc TF2 - Red P TF12 - Very Other (Explain	For Problematic luck (LRR I, J) Prairie Redox (L Jurface (LRR G) Plains Depression Prairie Material Parent Material Shallow Dark S Sain in Remarks)	Remarks Soils¹ RR F, G, H) Ons (LRR H, outisde MLRA 72.	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27 NRCS Hydri	Five inches ption (Description) Hue 10YR Hue 2.5Y Hue 2.5Y Hue 2.5Y A1- Histosol A2- Histic Ep A3- Black His A4- Hydroger A5- Stratified A1- Deplete A12- Thick D S1- Sandy M S2- 2.5 cm M S3-5 cm Mu S4- Sandy Gi	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2 Indicators (characters (characters)) Indicators (characters)	eeded to do atrix, CS=Cov	S5 - S S6 - S F5 - S F	color (Management of the indicated Sand Color (Management of the indicated Sand Color (Management of the indicated Sand Sandy Research of the indicated Sandy Redox Dopleted Redox Doplete	int; a hydrometric and control of the control of th	monfirm the confirm the confirmation of the confirmation that confirmation that confirmation the confirmation that con	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture SIC C C C Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F18 - Reduc TF2 - Red P TF12 - Very Other (Explain	For Problematic For Problemati	Remarks Soils¹ RR F, G, H) Ons (LRR H, outisde MLRA 72.	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27 NRCS Hydri	Five inches ption (Description) Hue 10YR Hue 2.5Y Hue 2.5Y Hue 2.5Y A1- Histosol A2- Histic Ep A3- Black His A4- Hydroger A5- Stratified A1- Deplete A12- Thick D S1- Sandy M S2- 2.5 cm M S3-5 cm Mu S4- Sandy Gi	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2 Indicators (characters (characters)) Indicators (characters)	eeded to do atrix, CS=Cov	S5 - S S6 - S F5 - S F	mple po the indiced Sand C Color (N 10YR rs are n Sandy Re Stripped Loamy G Depleted Redox De Depleted Redox De	int; a hydrometric and control	monfirm the confirm the confirmation of the confirmation that confirmation that confirmation the confirmation that con	e absence of ir ore Lining, M=Matrices Type C	Location M	Indicators of Management of Signature of Signature of Management of Signature of Signature of Signature of Management of Signature of Signature of Management of Signature of	For Problematic For Problemati	Remarks Soils¹ RR F, G, H) Ons (LRR H, outisde MLRA 72.	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-20 20-27 NRCS Hydri	ption (Descritration, D=Depli Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Ic Soil Field A1- Histosol A2- Histic Ep A3- Black His A4- Hydroger A5- Stratified A9-1 cm Mur A11- Deplete A12- Thick D S1- Sandy M S2-2.5 cm M S3-5 cm Mur S4- Sandy Gi	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 4/2 Indicators (characters (characters)) Indicators (characters)	eeded to do atrix, CS=Cov	S5 - S F6 - F F6 - F6 - F6 - F6 - F6 - F6	mple po the indiced Sand C Color (N 10YR 10YR rs are n Sandy Re Stripped Loamy G Depleted Redox Da Depleted Redox Da High Pla	cator or co crains; Locat Moist) 4/6 ot present edox Matrix Matrix Matrix Matrix Matrix Surface Dark Surface pressions ains Depres	modern sulforms the story of th	e absence of irrore Lining, M=Matrices Type C C RA 72, 73 of LRF	Location M R H)	Texture SIC C C C Hodicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Explain the second of the secon	For Problematic luck (LRR I, J) Prairie Redox (Lurface (LRR G) Plains Depression and Material Shallow Dark Sain in Remarks) And Angel Problematic lead or problematic.	Remarks Remarks Soils¹ RR F, G, H) Ons (LRR H, outside MLRA 72, durface) Surface	y must be present,

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-160n50w10-c2
VEGETATION	(Species identified in all uppercase are	e non-native	species.)		
	Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					`` <i>_</i> ``
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					Total Number of Bonnian oposito / Groce / Groc
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					reicent of Dominiant Species That Ale OBL, I AGW, of I AG. 100.076
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	<u> </u>				OBL spp. 18 x 1 = 18
	Total Cover =	0	_		FACW spp. 25 x 2 = 50
					FAC spp. $0 x 3 = 0$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.					UPL spp. 0 x 5 = 0
2.					···
3.					Total 43 (A) 68 (B)
4.					(1)
5.					Prevalence Index = B/A = 1.581
					Prevalence muex = b/A = 1.361
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 (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Symphyotrichum lanceolatum	20	Υ	FACW	
2.	Typha angustifolia	10	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Mentha arvensis	5	N	FACW	present, unless disturbed or problematic.
4.	Alisma triviale			_	
		2	N N	OBL	Definitions of Vegetation Strata:
5.	Cicuta maculata	2	N	OBL	-
6	Beckmannia syzigachne	2	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Bidens cernua	2	N	OBL	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.					
15.					Woody Vines - All woody vines, regardless of height.
15.	T.1.0	40			TYOOUY VIIIGS - 7 1000, 1000, 1000 or 100gil.
	Total Cover =	43	_		
	atum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.				_	
4.					
<u>'</u>	Total Cover =	0		_	
Remarks:			narrow_lea	f cattail: a	mix of other wetland grasses and forbs are also present.
i Acinaiks.	The welland is dominated by write particled a	JOICE ALIU I	iai i ow-iea	ıı canalı, a	This of outer welland grasses and lords are also present.
Additional R	emarks:				