WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R										Date: County:	06/26/14			
Applicant: Enbridge											Kittson			
Investigators: EAB/RAJ				Subregion (MLRA or LRR): MLRA 56							MN			
Soil Unit:							I Classification:							
Landform:	Depression				cal Relief:					Sample Point:	w-159n48w31-c1			
	0 - 2%		Latitude: 48.54		Longitude:			Datum:		_				
		nditions on the site			ar? (If no, exp			□Yes	⊡ No	Section:				
Are Vegetatio		📮 or Hydrology	gnificantly			Are	e normal circun	•	esent?	Township:				
Are Vegetation		🖵 or Hydrology	Laturally pro	blematic?			Yes	□No		Range:	Dir:			
SUMMARY OF FINDINGS														
Hydrophytic \		Yes	/es /es			Hydric Soils Present?								
Wetland Hyd							nt Within A W							
Remarks: The wetland is a basin located in a farmed field of wheat. The wetland was not planted this year, and is dominated by oak-leaf goosefoot. The region has														
		ove-average rainfa	all in recent we	eeks.										
HYDROLOG	Y													
Wetland Hy	drology Ind	icators (Check all	that apply; Mi	nimum of on	e primary	or two se	econdary requi	red):						
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): <u>Primary:</u> <u>Secondary:</u>														
	A1 - Surface		B11 - Salt Crust							oil Cracks				
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface			
✓ □	A3 - Saturatio B1 - Water Ma				C1 - Hydro C2 - Dry Se						Rhizospheres on Living Roots (tilled			
	B2 - Sedimen			_			spheres on Living	Roots (not till						
	B3 - Drift Dep				C4 - Prese						n Visible on Aerial Imagery			
1	B4 - Algal Ma				C7 - Thin N		ace		4	D2 - Geomorp	hic Position			
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu				
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Im	agery							D7 - Frost-Hea	aved Hummocks (LRR F)			
	D9 - Waler-Si	alleu Leaves												
Field Observ														
					<i>(</i> ,)									
Surface Wate		_	Depth		(in.)			Wetland H	lydrology	Present?	Y			
Water Table		Yes 🗹	Depth:		(in.)				<i>J</i> · · · · · · · · · · · · · · · · · · ·					
Saturation Pr	esent?	Yes 🗹	Depth:	Saturation Present? Yes Depth: 0 (in.)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:														
Describe Reco	orded Data (s	tream gauge, moni	toring well, aer	ial photos, pro	evious insp	ections),	if available:							
Describe Reco Remarks:					-	ections),	if available:							
		tream gauge, moni r table was observ			-	ections),	if available:							
					-	ections),	if available:							
Remarks: SOILS Profile Descri	A high wate	r table was observ be to the depth ne	red 5 inches b	elow the soil	surface.	onfirm th	e absence of ir							
Remarks: SOILS Profile Descri	A high wate	r table was observ	red 5 inches b	elow the soil	surface.	onfirm th	e absence of ir							
Remarks: SOILS Profile Descri	A high wate	r table was observ be to the depth ne etion, RM=Reduced Ma	red 5 inches b	elow the soil	surface.	onfirm the	e absence of ir ore Lining, M=Matr							
Remarks: SOILS Profile Descri	A high wate	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix	red 5 inches b reded to docur atrix, CS=Covered	elow the soil	surface. cator or co Grains; Locat	onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Matr	ix)						
Remarks: SOILS Profile Descri	A high wate	r table was observ be to the depth ne etion, RM=Reduced Ma	red 5 inches b	elow the soil	surface. cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks			
Remarks: SOILS Profile Descri (Type: C=Concen	A high wate	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix	red 5 inches b reded to docur atrix, CS=Covered	elow the soil	surface. cator or co Grains; Locat	onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Matr	ix)	Texture		Remarks			
Remarks: SOILS Profile Descrij (Type: C=Concen Depth (In.)	A high wate	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	red 5 inches b reded to docur atrix, CS=Covered %	elow the soil	surface. cator or co Grains; Locat	onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Matr	ix)			Remarks			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5	A high wate ption (Descri ttration, D=Depl Hue_10YR	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docur atrix, CS=Covered % 100	elow the soil	surface. cator or co Grains; Local Moist)	onfirm the tion: PL=P Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	С		Remarks			
Remarks: SOILS Profile Descrij (Type: C=Concen Depth (In.) 0-5 5-18	A high wate ption (Descri ttration, D=Depl Hue_10YR	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docur atrix, CS=Covered % 100	elow the soil	surface. cator or co Grains; Local Moist) 3/4	onfirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Matr es Type C	Location M	C C		Remarks			
Remarks: SOILS Profile Descrij (Type: C=Concen Depth (In.) 0-5 5-18	A high wate ption (Descri ttration, D=Depl Hue_10YR	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docur atrix, CS=Covered % 100	elow the soil	surface. cator or co Grains; Local Moist) 3/4	onfirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Matr es Type C	Location M	C C		Remarks			
Remarks: SOILS Profile Descrij (Type: C=Concen Depth (In.) 0-5 5-18	A high wate ption (Descri ttration, D=Depl Hue_10YR	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eeded to docur atrix, CS=Covered % 100	elow the soil	surface. cator or co Grains; Local Moist) 3/4	onfirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Matr es Type C	Location M	C C		Remarks			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18	A high wate ption (Descri tration, D=Depi Hue_10YR Hue_2.5Y	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1	eded to docur atrix, CS=Covered % 100 70	elow the soil ment the indi i/Coated Sand G Color (I Hue_10YR Hue_10YR	Surface. cator or cc Grains; Local Moist) 3/4 2/1	Mottle % 2 28	e absence of ir ore Lining, M=Matr es Type C C	Location M	C C		Remarks			
Remarks: SOILS Profile Descrij (Type: C=Concen Depth (In.) 0-5 5-18	A high wate ption (Descri tration, D=Depi Hue_10YR Hue_2.5Y	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1	eeded to docur atrix, CS=Covered % 100	elow the soil ment the indi i/Coated Sand G Color (I Hue_10YR Hue_10YR	Surface. cator or cc Grains; Local Moist) 3/4 2/1	Mottle % 2 28	e absence of ir ore Lining, M=Matr es Type C	Location M	C C C					
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 5-18 NRCS Hydri	A high wate ption (Descri tration, D=Depi Hue_10YR Hue_2.5Y	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1	eded to docur atrix, CS=Covered % 100 70 eeck here if inc	elow the soil ment the indi coated Sand (Color (I Hue_10YR Hue_10YR dicators are r	Surface. Cator or co Grains; Locat Moist) 3/4 2/1 not presen	Mottle	e absence of ir ore Lining, M=Matr es Type C C	Location M M	C C C	for Problematia				
Remarks: SOILS Profile Descri (Type: C=Concern Depth (In.) 0-5 5-18 5-18 NRCS Hydri	A high wate ption (Descri tration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol	r table was observ be to the depth ne tion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docur atrix, CS=Covered % 100 70 eck here if inc	elow the soil nent the indi //Coated Sand (Color (I Hue_10YR Hue_10YR icators are r S5 - Sandy R	Surface. Cator or co Grains; Locat Moist) 3/4 2/1 100 presen edox	Mottle	e absence of ir ore Lining, M=Matr es Type C C	Location M M	C C C Indicators 1 A9 - 1 cm M	luck (LRR I, J)	c Soils ¹			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 NRCS Hydri	A high wate ption (Descri tration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch ipedon	ed 5 inches b eded to docur atrix, CS=Covered % 100 70 eck here if inc	elow the soil ment the indi //Coated Sand of Color (I Hue_10YR Hue_10YR Hue_10YR dicators are r S5 - Sandy R S6 - Stripped	Surface. Cator or co Grains; Local Moist) 3/4 2/1 not presen edox Matrix	onfirm the tion: PL=Pr Mottle % 2 28 t):	e absence of ir ore Lining, M=Matr es Type C C	Location M M	C C C Indicators 1 A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (L	: Soils1 .RR F, G, H)			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 S-18 NRCS Hydri	A high wate ption (Descri tration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch ipedon stic	eded to docur atrix, CS=Covered % 100 70 eck here if inc	elow the soil nent the indi //Coated Sand (Color (I Hue_10YR Hue_10YR icators are r S5 - Sandy R	Surface. Cator or cc Grains; Local Moist) 3/4 2/1 100 presen edox Matrix lucky Minera	And the second s	e absence of ir ore Lining, M=Matr es Type C C	Location M M M	C C C Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S	luck (LRR I, J) Prairie Redox (L urface (LRR G)	: Soils1 .RR F, G, H)			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 NRCS Hydri U	A high wate ption (Descri- tration, D=Depi Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch ipedon stic	eded to docur atrix, CS=Covered % 100 70 eeck here if inc	elow the soil ment the indi i/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR Galaxies Galaxies S5 - Sandy R S6 - Stripped F2 - Loamy G F3 - Depleted F3 - Depleted	Surface. Cator or cc Grains; Locat Moist) 3/4 2/1 10 10 10 10 10 10 10 10 10 1	nfirm th tion: PL=Pi Mottle 2 28 t):	e absence of ir ore Lining, M=Matr es Type C C	Location M M	C C C Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	c Soils1 RR F, G, H)			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 NRCS Hydri 0 0 0 0 0 0 0 0 0 0 0 0 0	A high wate ption (Descri- tration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mu	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 5/1 Indicators (ch ipedon tic n Sulfide Layers (LRR F) ck (LRR FGH)	eded to docur atrix, CS=Covered % 100 70 eck here if inc	elow the soil nent the indi //Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR G5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depletec F6 - Redox D	Surface. Cator or co Grains; Locat Moist) 3/4 2/1 100 presen edox Matrix lucky Minera ileyed Matrix ark Surface	nfirm th ion: PL=P Mottle % 2 28 28 t):	e absence of ir ore Lining, M=Matr es Type C C	ix)	C C C Indicators 1 A9 - 1 cm M A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material	2 <u>Soils¹</u> RR F, G, H) DNS (LRR H, outisde MLRA 72, 73)			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 S-18 NRCS Hydri 0 0 0 0 0 0 0 0 0 0 0 0 0	A high wate ption (Descri- tration, D=Depi- Hue_10YR 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	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 5/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eded to docur atrix, CS=Covered % 100 70 eck here if inc	elow the soil ment the indi i//Coated Sand (Color ((Hue_10YR Hue_10YR Hue_10YR Hue_10YR Ge - Stripped F3 - Depleted F3 - Depleted F6 - Redox D F7 - Depleted	surface. cator or cc Grains; Local Moist) 3/4 2/1 atrix Matrix	nfirm th ion: PL=P Mottle % 2 28 28 t):	e absence of ir ore Lining, M=Matr es Type C C	ix)	C C C A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Very	Nuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material v Shallow Dark S	<u>c Soils¹</u> .RR F, G, H) DNS (LRR H, outlisde MLRA 72, 73) Surface			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 NRCS Hydri 0 0 0 0 0 0 0 0 0 0 0 0 0	A high wate ption (Descri- tration, D=Depi Hue_10YR 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	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 	eded to docur atrix, CS=Covered % 100 70 eeck here if inc	elow the soil ment the indi d/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Ge - Striped dicators are r S5 - Sandy R S6 - Striped Ge - Striped F1 - Loamy M F2 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	surface. cator or cc Grains; Locat Moist) 3/4 2/1 at 2/1 at 2/1	nfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Matr es Type C C	ix)	C C C A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Very	Nuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material	<u>c Soils¹</u> .RR F, G, H) DNS (LRR H, outlisde MLRA 72, 73) Surface			
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-5 5-18 5-18 NRCS Hydri U	A high wate ption (Descri- tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y C Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch ipedon stic 1 Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	ed 5 inches b edded to docur atrix, CS=Covered % 100 70 100 covered edded to docur	elow the soil ment the indi d/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Ge - Striped dicators are r S5 - Sandy R S6 - Striped Ge - Striped F1 - Loamy M F2 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	surface. cator or cc Grains; Locat Moist) 3/4 2/1 at 2/1 at 2/1	nfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Matr es Type C C	ix)	C C C A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF2 - Very	Nuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material v Shallow Dark S	<u>c Soils¹</u> .RR F, G, H) DNS (LRR H, outlisde MLRA 72, 73) Surface			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 NRCS Hydri 0 0 0 0 0 0 0 0 0 0 0 0 0	A high wate ption (Descri- ttration, D=Depletion Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydrogen A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 	red 5 inches b reded to docur atrix, CS=Covered % 100 70 70 reck here if inc	elow the soil ment the indi d/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Ge - Striped dicators are r S5 - Sandy R S6 - Striped Ge - Striped F1 - Loamy M F2 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	surface. cator or cc Grains; Locat Moist) 3/4 2/1 at 2/1 at 2/1	nfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Matr es Type C C	ix)	C C C A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material / Shallow Dark S ain in Remarks)	<u>c Soils¹</u> .RR F, G, H) DNS (LRR H, outlisde MLRA 72, 73) Surface			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 NRCS Hydri U U U U U U U U U U U U U	A high wate ption (Descri- ttration, D=Depletion Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hist A4 - Hydrogen A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 5/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF	red 5 inches b reded to docur atrix, CS=Covered % 100 70 70 reck here if inc	elow the soil ment the indi d/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Ge - Striped dicators are r S5 - Sandy R S6 - Striped Ge - Striped F1 - Loamy M F2 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	surface. cator or cc Grains; Locat Moist) 3/4 2/1 at 2/1 at 2/1	nfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Matr es Type C C	ix)	C C C National Context AB - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material / Shallow Dark S ain in Remarks)	<mark>c Soils¹</mark> RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 S-18 NRCS Hydri 0 0 0 0 0 0 0 0 0 0 0 0 0	A high wate ption (Descri- tration, D=Depi- Hue_10YR 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 S2 - 2.5 cm Mu	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 5/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF	red 5 inches b reded to docur atrix, CS=Covered % 100 70 70 reck here if inc	elow the soil ment the indi d/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Ge - Striped dicators are r S5 - Sandy R S6 - Striped Ge - Striped F1 - Loamy M F2 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	surface. cator or cc Grains; Locat Moist) 3/4 2/1 at 2/1 at 2/1	nfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Matr es Type C C	ix)	C C C National Context AB - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Nuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material / Shallow Dark S ain in Remarks)	<mark>c Soils¹</mark> RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 S-18 NRCS Hydri 0 0 0 0 0 0 0 0 0 0 0 0 0	A high wate ption (Descri ttration, D=Depl Hue_10YR 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 S3 - 5 cm Mu S3 - 5 cm Mu S4 - Sandy G	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 5/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF	red 5 inches b reded to docur atrix, CS=Covered % 100 70 70 reck here if inc	elow the soil ment the indi //Coaled Sand (Color ((Hue_10YR Hue_10YR Hue_10YR Hue_10YR Generation Sand (Hue_10YR	surface. cator or cc Grains; Local Moist) 3/4 2/1 100 presen edox Matrix Matr	nfirm th tion: PL=P Mottle %	e absence of ir ore Lining, M=Matr es Type C C C	Location M M M	C C C A9 - 1 cm N A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Nuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material / Shallow Dark S ain in Remarks)	<mark>c Soils¹</mark> RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 NRCS Hydri 0 0 0 0 0 0 0 0 0 0 0 0 0	A high wate ption (Descri- tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G Type:	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 	ed 5 inches b edded to docur atrix, CS=Covered % 100 70 70 e e e e e e e e e e e e e e e e	elow the soil ment the indi i/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR iicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl Depth:	surface. cator or co Grains; Locat Moist) 3/4 2/1 2/1 atot presen edox Matrix lucky Minera leyed Matrix Matrix Matrix Matrix Dark Surface Dark Surface	mfirm th tion: PL=P Mottle 2 28 28 t): t):	e absence of ir ore Lining, M=Matr es Type C C C	ix)	C C C A9 - 1 cm N A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Nuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material / Shallow Dark S ain in Remarks)	<mark>c Soils¹</mark> RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 S-18 NRCS Hydri 0 0 0 0 0 0 0 0 0 0 0 0 0	A high wate ption (Descri- tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G Type:	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 5/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRF	ed 5 inches b edded to docur atrix, CS=Covered % 100 70 70 e e e e e e e e e e e e e e e e	elow the soil ment the indi i/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR iicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl Depth:	surface. cator or co Grains; Locat Moist) 3/4 2/1 2/1 atot presen edox Matrix lucky Minera leyed Matrix Matrix Matrix Matrix Dark Surface Dark Surface	mfirm th tion: PL=P Mottle 2 28 28 t): t):	e absence of ir ore Lining, M=Matr es Type C C C	Location M M M	C C C A9 - 1 cm N A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Nuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material / Shallow Dark S ain in Remarks)	<mark>c Soils¹</mark> RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.) 0-5 5-18 5-18 NRCS Hydri 0 0 0 0 0 0 0 0 0 0 0 0 0	A high wate ption (Descri- tration, D=Depi Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G Type:	r table was observ be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 	ed 5 inches b edded to docur atrix, CS=Covered % 100 70 70 e e e e e e e e e e e e e e e e	elow the soil ment the indi i/Coated Sand (Color (I Hue_10YR Hue_10YR Hue_10YR iicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl Depth:	surface. cator or co Grains; Locat Moist) 3/4 2/1 2/1 atot presen edox Matrix lucky Minera leyed Matrix Matrix Matrix Matrix Dark Surface Dark Surface	mfirm th tion: PL=P Mottle 2 28 28 t): t):	e absence of ir ore Lining, M=Matr es Type C C C	Location M M M	C C C A9 - 1 cm N A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Nuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material / Shallow Dark S ain in Remarks)	<mark>c Soils¹</mark> RR F, G, H) DNS (LRR H, outisde MLRA 72, 73) Surface			

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: #REF!						
VEGETATIO	N (Species identified in all uppercase and Plot size: 30 ft. radius)	e non-native	species.)								
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet						
1.											
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (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: 100.0% (A/B)						
7.											
8.					Prevalence Index Worksheet						
9.					Total % Cover of: Multiply by:						
10.	Total Cover =				OBL spp. 0 x 1 = 0						
	0			FACW spp. 10 x 2 = 20							
					FAC spp. 40 X 3 = 120						
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0						
1.	ļ				UPL spp. 5 X 5 = 25						
2.	ļ										
3.	<u></u>				Total <u>55</u> (A) <u>165</u> (B)						
4.	<u> </u>										
5.	<u> </u>				Prevalence Index = B/A = <u>3.000</u>						
6. 7.	<u> </u>										
<i>1</i> . 8.					Hudronbutio Vocatation Indicatoro						
о. 9.					Hydrophytic Vegetation Indicators:						
9. 10.					Rapid Test for Hydrophytic Vegetation X Dominance Test is > 50%						
10.	Total Cover =	0			$\frac{1}{X} \qquad \text{Dominance rest is } > 50\%$ $X \qquad \text{Prevalence Index is } \le 3.0 *$						
		U									
Horb Stratum (Plot size: 5 ft. radius)				Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *						
1.	Chenopodium glaucum	20	Y	FAC							
2.	Echinochloa crus-galli	20	Y	FAC	* Indicators of hydric soil and wetland hydrology must be						
3.	Rumex stenophyllus	10	N	FACW	present, unless disturbed or problematic.						
4.	Erucastrum gallicum	5	N	NI	Definitions of Vegetation Strata:						
5.											
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.											
15.					Woody Vines - All woody vines, regardless of height.						
	Total Cover =	55									
	atum (Plot size: 30 ft. radius)										
1.	ļ										
2.											
3.	<u> </u>				Hydrophytic Vegetation Present? Y						
<u>5.</u> 4.	<u> </u>										
4.	Total Cover -	0									
Total Cover = 0 Remarks: The vegetation is somewhat sparse at this point, but is dominated by oak-leaf goosefoot.											
remarks. The vegetation is somewhat sparse at this point, but is dominated by odk-lear gooseloot.											
Additional Remarks:											