WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: County:	08/07/14		
Applicant:											Marshall		
Investigators								MLRA 56		State:	MN		
Soil Unit: Landform:	I15A Talf			_	cal Raliafe		I Classification:			Sample Point:	u-155p45w20-c1		
Landform: Talf Local Relief: LL Sample Point: u-155n45w20-c1 Slope (%): 0 - 2% Latitude: 48.23421367 Longitude: -96.4647441667 Datum:													
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ✓ Yes □ No Section:													
Are Vegetation		, ,		disturbed?	(,,	1	e normal circun			Township:			
Are Vegetation			•	blematic?			□ No		Range:	Dir:			
SUMMARY C			3 1							J			
Hydrophytic Vegetation Present? No Hydric Soils Present? No													
Wetland Hydrology Present?				No			Is This Sampling Poir				etland? No		
Remarks: The upland sample point is dominated by Kentucky bluegrass and smooth brome. The area is located upslope from a roadside ditch.													
HYDROLOGY													
Wetland Hy	drology Indi	cators (Check all that ar	oply: Mi	nimum of on	e primarv	or two s	econdary requi	red):					
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Primary: Secondary:													
	A1 - Surface \				B11 - Salt					B6 - Surface S			
	A2 - High Wat				B13 - Aqua						Vegetated Concave Surface		
	A3 - Saturatio B1 - Water Ma				C1 - Hydro C2 - Dry Se					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen						spheres on Living	Roots (not till	€ □	C8 - Crayfish E			
	B3 - Drift Dep	osits			C4 - Prese	nce of Re	duced Iron	`		C9 - Saturation	n Visible on Aerial Imagery		
	B4 - Algal Mat				C7 - Thin N		ace			D2 - Geomorp			
	B5 - Iron Depo	osits n Visible on Aerial Imagery			Other (Exp	lain)				D5 - FAC-Neut	tral Test aved Hummocks (LRR F)		
	B9 - Water-St									DI - FIOSI-FIE	aved Hullillocks (LRR F)		
Field Observ	vations:												
Surface Wate	er Present?	Yes	Depth:		(in.)			\A/-4111	les alma la acces	D	N.I.		
Water Table	Present?	Yes 🗆	Depth:		(in.)			wetiand F	lydrology	Present?	N		
Saturation Present? Yes Depth: (in.)													
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Rec	orded Data (s	tream gauge, monitoring v			` ` `	ections).	if available:						
	·		vell, aeri	al photos, pre	evious insp	ections),	if available:						
Describe Reco	·	tream gauge, monitoring vor secondary hydrologica	vell, aeri	al photos, pre	evious insp	ections),	if available:						
Remarks:	No primary	or secondary hydrologica	vell, aeri Il indica	al photos, pre tors were ob	evious insp served.	·							
Remarks: SOILS Profile Descri	No primary	or secondary hydrologica	vell, aeri Il indica o docun	tors were ob	evious insp served.	onfirm th	e absence of in						
Remarks: SOILS Profile Descri	No primary	or secondary hydrologica	vell, aeri Il indica o docun	tors were ob	evious insp served.	onfirm th	e absence of in						
Remarks: SOILS Profile Descri	No primary	be to the depth needed to the Reduced Matrix, CS:	vell, aeri Il indica o docun	tors were ob	evious insp served.	onfirm th	e absence of in ore Lining, M=Matr						
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth needed to the RM=Reduced Matrix	vell, aeri Il indica o docun =Covered	tors were ob	served. cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Teyture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth needed to the depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS: Matrix Color (Moist)	vell, aeri Il indica o docun =Covered	tors were ob	served. cator or co	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7	No primary iption (Descri	be to the depth needed to the detion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1	vell, aeri Il indica o docun =Covered % 100	nent the indicated Sand C	served. cator or co	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr es Type	Location	SL		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descri	be to the depth needed to the depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS: Matrix Color (Moist)	vell, aeri Il indica o docun =Covered	nent the indicated Sand Color (I	evious insp served. cator or co Grains; Loca Moist)	onfirm the	e absence of in ore Lining, M=Matr es Type	Location M	SL FS		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-15	No primary iption (Descri	be to the depth needed to the detion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1	vell, aeri Il indica o docun =Covered % 100	nent the indicated Sand C	evious insp served. cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr es Type	Location	SL FS FS	gravel	Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-15 15-18	No primary iption (Descrintration, D=Depleted Hue_10YR Hue_10YR	be to the depth needed to the detion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1 3/2	well, aeri	color (In Hue_10YR Hue_10YR	evious inspections in spectrum. cator or contract or	Mottle 10	e absence of infore Lining, M=Matr	Location M	SL FS FS	gravel	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-15 15-18	No primary iption (Descri	be to the depth needed to the detion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1 3/2	well, aeri	nent the indicated Sand Color (I	evious inspections in spectrum. cator or contract or	Mottle 10	e absence of in ore Lining, M=Matr es Type	Location M	SL FS FS OT				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-15 15-18 NRCS Hydr	No primary iption (Descrintration, D=Depleted Hue_10YR Hue_10YR	be to the depth needed to the detion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1 3/2	well, aerial indica o docun =Covered 100 80 re if indica	color (I Hue_10YR Hue_10YR	evious inspectived. cator or contract or	Mottle 10	e absence of infore Lining, M=Matr	Location M M	SL FS OT	for Problemation			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-15 15-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1 3/2 Indicators (check he ipedon etic	well, aerial indica o docun =Covered % 100 80 re if ind	color (I Hue_10YR Hue_10YR Hue_10YR F1 - Loamy M	evious inspectived. cator or contract or	Mottle % 10 10 t):	e absence of infore Lining, M=Matr	Location	SL FS OT OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation Muck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-15 15-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1 3/2 Indicators (check he ipedon etic of Sulfide	well, aerial indica	color (I Hue_10YR Hue_10YR Hue_10YR Licators are n S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	evious inspectived. Cator or control of cator or ca	Mottle % 10 10 t):	e absence of infore Lining, M=Matr	Location M M ————————————————————————————————	SL FS FS OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemation for Problemation fuck (LRR I, J) Frairie Redox (urface (LRR G) Plains Depression	c Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-15 15-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1 3/2 Indicators (check he depend on the color of th	well, aerial indica	color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR F3 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	evious inspectived. cator or contract or	Mottle Mo	e absence of infore Lining, M=Matr	Location M M	SL FS OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemation Muck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic	Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-15 15-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	be to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1 3/2 Indicators (check he depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1 3/2	well, aerial indica	color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Fa - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D	evious inspectived. Cator or contract of	Mottle % 10 10 t):	e absence of infore Lining, M=Matr	Location M M	SL FS OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	for Problemation Muck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material	CE Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-15 15-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1 3/2 Indicators (check he depend to the color) Sulfide Layers (LRR F) Ck (LRR FGH) Cd Below Dark Surface ark Surface Lacky Mineral	well, aerial indica	color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Fa - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious inspectived. cator or contract of	Mottle % 10 10 t):	e absence of infore Lining, M=Matr	Location	SL FS FS OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation for Problemation fuck (LRR I, J) Frairie Redox (furface (LRR G) Plains Depression Frairie Material Shallow Dark S	CE Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-15 15-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue A11 - Deplete A12 - Thick D S1 - Sandy Me S2 - 2.5 cm M	be to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1 3/2 Indicators (check he depend on the color of th	well, aerial indica	color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Fa - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious inspectived. cator or contract of	Mottle % 10 10 t):	e absence of inore Lining, M=Matrees Type C D	Location	SL FS OT Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problemation for Problemation fuck (LRR I, J) for Prairie Redox (for Problemation for Problem	CE Soils ¹ CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-15 15-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Muc S4 - Sandy G	be to the depth needed to etion, RM=Reduced Matrix. Color (Moist) 2/1 3/2 Indicators (check he dipedon etic in Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface a	well, aerial indica	color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Fa - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	evious inspectived. cator or contract of cator or cat	Mottle % 10 10 t):	e absence of in ore Lining, M=Matrees Type C D	Location	SL FS FS OT Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	for Problemation Muck (LRR I, J) The Prairie Redox (Frairie	CE Soils ¹ CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface		
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: u-155n45w20-c1				
VEGETATIO	(Species identified in all uppercase are	e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	Species Name	% Cover	<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: 2 (B)				
5.					Total Number of Bornman Openies / to oss / til otrata(B)				
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.					OBL spp. $0 X 1 = 0$				
	Total Cover =	0	FACW spp. $0 x 2 = 0$						
					FAC spp. $\frac{15}{15}$ $\times 3 = \frac{45}{15}$				
Sanling/Shruh	Stratum (Plot size: 15 ft. radius)				OBL spp. 0				
	Stratum (Flot size. 13 it. radius)				1 LIDL opp. 25 × 5 - 475				
1.					Λ J = <u>1/3</u>				
2.					T. (1) (10) (7)				
3.					Total 140 (A) 580 (B)				
4.									
5.					Prevalence Index = B/A = 4.143				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
10.	Total Cayon								
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Poa pratensis	70	Υ	FACU					
2.	Bromus inermis	35	Υ	UPL	* Indicators of hydric soil and wetland hydrology must be				
3.	Solidago canadensis	20	N	FACU	present, unless disturbed or problematic.				
4.	Solidago gigantea	15	N	FAC	Definitions of Vegetation Strata:				
5.		5	N	TAO	Definitions of Vegetation Strata.				
	Asclepias syriaca	5	IN	<u>.</u>					
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.					1				
11.					1				
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.					1				
					4				
14.					All companies of the state of t				
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	145							
Woody Vine S	tratum (Plot size: 30 ft. radius)								
1.									
2.				<u></u>					
3.					Hydrophytic Vegetation Present? N				
					i iyaropiiyiic vegetation riesent!				
5.									
4.	Total Cover =	0			_				
Remarks:	The upland sample point is dominated by Ke	entucky blu	egrass and	d smooth	brome.				
Additional Demontos									
Additional Remarks:									
Ī									