WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/16/14	
Applicant:										County:	Marshall	
Investigators				Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	165A						I Classification	:		1	450 40 00 44	
Landform:	Talf		40.0		ocal Relief		2007			Sample Point:	u-156n46w33-f1	
Slope (%):	0 - 2%		Latitude: 48.2		_	-96.576		Datum:				
		nditions on the site						☑ Yes	□ No	Section:		
Are Vegetation		☑, or Hydrology	•		,	Are	e normal circun	•	esent?	Township:	Dim	
Are Vegetation		□, or Hydrology	□aturally pr	oblematic?				□ No		Range:	Dir:	
Hydrophytic \			No					Hydric Soi	ls Present?	No		
Wetland Hyd	_		No		<u> </u>					nt Within A W	etland? No	
Remarks:				tivated sovb	ean field o	n verv fla	at land. The year				to herbicide application.	L The
rtemants.	•	nificantly disturbe		•	can noid of	ii very na	it land. The veg		grillicarity c	distarbed dde	to herbicide application.	1110
HYDROLOG		inincantly distarbe	d dde to tilling	J ·								
		Santana (Olambal)	Laborator I. N.									
_	•	icators (Check all	I that apply; M	linimum of c	one primary	or two s	econdary requi	red):	0			
<u>Primary:</u> □	<u>:</u>	Nator		_	B11 - Salt	Cruet			Secondary:	B6 - Surface S	Coil Cracks	
	A2 - High Wa				B11 - Sait		1				Vegetated Concave Surface	
	A3 - Saturatio				C1 - Hydro					B10 - Drainage		
	B1 - Water M					Season Wa					Rhizospheres on Living Roots	(tilled)
	B2 - Sedimen	•					spheres on Living	Roots (not till	• -	C8 - Crayfish E		
	B3 - Drift Dep B4 - Algal Ma			ence of Re Muck Surfa	educed Iron		H	D2 - Geomorp	n Visible on Aerial Imagery			
	B5 - Iron Dep				Other (Exp		400			D5 - FAC-Neu		
		n Visible on Aerial Im	nagery		` '	,				D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
							_					
Field Observ												
Surface Wate		Yes □	Dept		(in.)			Wetland F	lydrology l	Present?	N	
Water Table		Yes	Dept		(in.)				.ya. 0.0gy .		<u> </u>	
Saturation Present? Yes Depth: (in.)												
		_	Вори	··	(111.)							
Describe Rec	orded Data (s	stream gauge, mon	<u> </u>			pections),	, if available:					
Describe Rec			itoring well, ae	rial photos, p		pections),	, if available:					
		stream gauge, mon	itoring well, ae	rial photos, p		pections),	, if available:					
Remarks:	No indicator	stream gauge, moni rs of wetland hydro	itoring well, ae ology were ob	rial photos, poserved.	previous ins							
Remarks: SOILS Profile Descri	No indicator	stream gauge, moning of wetland hydrous be to the depth ne	ology were objected	rial photos, poserved.	previous insponential	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	No indicator	stream gauge, moni rs of wetland hydro	ology were objected	rial photos, poserved.	previous insponential	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	No indicator	stream gauge, moning of wetland hydrous of wetland	ology were objected	rial photos, poserved.	previous insponential	onfirm th	ne absence of ir Pore Lining, M=Mati					
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	stream gauge, moning of wetland hydrous be to the depth neetion, RM=Reduced Matrix	ology were objected to docu	erial photos, poserved. Iment the inced/Coated Sand	dicator or c	onfirm th ation: PL=P Mottl	ne absence of ine Pore Lining, M=Matr	rix)	Teyture		Romarke	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist)	ology were observed to document the cology were observed to document the color of t	erial photos, poserved. Iment the included/Coated Sand	previous insponential	onfirm th	ne absence of ir Pore Lining, M=Mati		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to doculatrix, CS=Covere	erial photos, poserved. Iment the inced/Coated Sand	dicator or c	onfirm th ation: PL=P Mottl	ne absence of ine Pore Lining, M=Matr	rix)	LFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist)	ology were observed to document the cology were observed to document the color of t	erial photos, poserved. Iment the inced/Coated Sand	dicator or c	onfirm th ation: PL=P Mottl	ne absence of ine Pore Lining, M=Matr	rix)			Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to doculatrix, CS=Covere	erial photos, poserved. Iment the inced/Coated Sand	dicator or c	onfirm th ation: PL=P Mottl	ne absence of ine Pore Lining, M=Matr	rix)	LFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to doculatrix, CS=Covere	erial photos, poserved. Iment the inced/Coated Sand	dicator or c	onfirm th ation: PL=P Mottl	ne absence of ine Pore Lining, M=Matr	rix)	LFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to doculatrix, CS=Covere	erial photos, poserved. Iment the inced/Coated Sand	dicator or c	onfirm th ation: PL=P Mottl	ne absence of ine Pore Lining, M=Matr	rix)	LFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18	No indicator iption (Descriptration, D=Depl	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3	eeded to doculatrix, CS=Covered 100	crial photos, poserved. Iment the included/Coated Sand	dicator or cod Grains; Loca	onfirm the ation: PL=P	e absence of in Pore Lining, M=Matr es Type	rix)	LFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18	No indicator	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3	eeded to doculatrix, CS=Covere	crial photos, poserved. Iment the included/Coated Sand	dicator or cod Grains; Loca	onfirm the ation: PL=P	ne absence of ine Pore Lining, M=Matr	rix)	LFS FS			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 NRCS Hydr	No indicator iption (Description, D=Deplementation, D=Deplementati	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3	eeded to doculatrix, CS=Covered 100	crial photos, poserved. Iment the inced/Coated Sand Color Color dicators are	dicator or cod Grains; Local (Moist)	onfirm the ation: PL=P	e absence of in Pore Lining, M=Matr es Type	Location	LFS FS	or Problematic		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 NRCS Hydr	No indicator iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (ch	eeded to doculatrix, CS=Covered 100	Color dicators are	dicator or cod Grains; Local (Moist) e not preser	onfirm the ation: PL=P	e absence of in Pore Lining, M=Matr es Type	Location	LFS FS Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 NRCS Hydr	No indicator iption (Description, D=Deplementation, D=Deplementati	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chains)	eeded to doculatrix, CS=Covered 100	crial photos, poserved. Iment the induction of the color	dicator or cod Grains; Local (Moist) e not preser Redox ed Matrix	onfirm the ation: PL=P Mottl % nt):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chains)	eeded to doculatrix, CS=Covered 100	crial photos, poserved. Iment the inced/Coated Sand Color Color Color Solution Sand Color	dicator or cod Grains; Local (Moist) e not preser	onfirm the ation: PL=P Mottl % nt):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chain in Sulfide Layers (LRR F)	eeded to doculatrix, CS=Covered 100	crial photos, poserved. Iment the inded/Coated Sand Color Color Color Solution Served Color C	dicator or cod Grains; Local (Moist) Redox ed Matrix Mucky Miner of Gleyed Matrix ed Matrix	onfirm the ation: PL=P Mottl % nt):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	c Soils ¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chain and in Sulfide Layers (LRR F) ck (LRR FGH)	eeded to doculatrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	crial photos, poserved. Iment the inced/Coated Sand Color Color Color Solution Stripped F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox	corevious insponential dicator or condicator or condicator or condicator or condicators; Local (Moist) I mot preserving a mo	onfirm the ation: PL=P Mottl % nt): ral ix	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 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 Mu A11 - Deplete	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chain Sulfide Layers (LRR FGH) delow Dark Surface	itoring well, according well,	Color Color S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F7 - Deplete	corevious insponential dicator or content of the dicator of the	onfirm the ation: PL=P Mottl % nt): ral ix eace	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chaice a Sulfide Layers (LRR FGH) d Below Dark Surface ark Surface	eeded to doculatrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	crial photos, poserved. Iment the inded/Coated Sand Color Color Color Solution Served Color C	corevious insponential dicator or condicator or condicator or condicator or condicators; Local (Moist) Condicator or condicators; Local Grains; Local Grains; Local Grains; Local Grains; Local Matrix Gleyed Matrix Dark Surface of Dark Sur	onfirm the ation: PL=P Mottl % nt): ral ix eace	es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material	C 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.) 0-9 9-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chaic chair) ipedon stic chair Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	eeded to doculatrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	crial photos, poserved. Iment the inded/Coated Sand Color Color Color Solution Served Color C	corevious insponential dicator or condicator or condicator or condicator or condicators; Local (Moist) Condicator or condicators; Local Grains; Local Grains; Local Grains; Local Grains; Local Matrix Gleyed Matrix Dark Surface of Dark Sur	onfirm the ation: PL=P Mottl % nt): ral ix eace	es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Seain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 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 Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chaic chair) ipedon stic chair Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	eeded to doculatrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	crial photos, poserved. Iment the inded/Coated Sand Color Color Color Solution Served Color C	corevious insponential dicator or condicator or condicator or condicator or condicators; Local (Moist) Condicator or condicators; Local Grains; Local Grains; Local Grains; Local Grains; Local Matrix Gleyed Matrix Dark Surface of Dark Sur	onfirm the ation: PL=P Mottl % nt): ral ix eace	es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chaic chair) ipedon stic chair Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	eeded to doculatrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	crial photos, poserved. Iment the inded/Coated Sand Color Color Color Solution Served Color C	corevious insponential dicator or condicator or condicator or condicator or condicators; Local (Moist) Condicator or condicators; Local Grains; Local Grains; Local Grains; Local Grains; Local Matrix Gleyed Matrix Dark Surface of Dark Sur	onfirm the ation: PL=P Mottl % nt): ral ix eace	es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Seain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 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 Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 5/3 Indicators (chaic chair) ipedon stic chair Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	eeded to doculatrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	crial photos, poserved. Iment the inded/Coated Sand Color Color Color Solution Served Color C	corevious insporevious insporevious insporevious inspored Grains; Local (Moist) I mot preser Redox and Matrix Mucky Miner Gleyed Matrix Dark Surface and Dark Surface Depressions Plains Depressions Plains Depressions	onfirm the ation: PL=P Mottl % nt): ral ix eace	es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Seain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	present,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-156n46w	v33-f1			
VEGETATIO	、 .	re non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius) Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.	<u>Species Ivaine</u>	<u>70 00001</u>	Dominaria	<u>ma.otatas</u>					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A	()			
3.						•			
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	A/B)			
7.		,							
8.					Prevalence Index Worksheet				
9.		1			Total % Cover of: Multiply by:				
10.	_l Total Cover =	= 0			$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
	Total Cover =		_		OBL spp. 0				
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
1.	Stratam (Fiot Size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
2.									
3.					Total 100 (A) 500 (B)				
4.									
5.					Prevalence Index = B/A = 5.000				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.	Total Cayor				Dominance Test is > 50%				
	Total Cover =	= 0			Prevalence Index is ≤ 3.0 *				
Horb Stratum /	Diet eizer Eft redice)				Morphological Adaptations (Explain) *	*			
1.	Plot size: 5 ft. radius) Glycine max	100	Y	NI	Problem Hydrophytic Vegetation (Explain) *				
2.	Glyenie max	100	<u>'</u>	111	* Indicators of hydric soil and wetland hydrology must	: be			
3.					present, unless disturbed or problematic.				
4.					Definitions of Vegetation Strata:				
5.					7				
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at b	oreast			
7.					height (DBH), regardless of height.				
8.									
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of he	eight.			
10.									
11.						:			
12.					Herb - All herbaceous (non-woody) plants, regardless of size	ize.			
13.					\dashv				
14. 15.					Woody Vines - All woody vines, regardless of height.				
13.	Total Cover =	= 100			- woody vines - / in these, regardless of height				
	Total Cover -	- 100	_						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.	(ist size: se in radius)								
2.									
3.					Hydrophytic Vegetation Present? N				
5.									
4.									
<u> </u>	Total Cover =								
Remarks:	The upland sample point is dominated by he	ealthy soybe	eans.						
Additional R	Remarks:								