WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 08/20/14								
Applicant:									County: Marshall									
Investigators						on (MLRA or LRR): MLRA 56				State: MN								
Soil Unit:	I23A		_		NWI Classification:													
Landform:	Depression				cal Relief:					Sample Point: w-157n47w16-g1								
Slope (%):	3 - 7%		e: 48.41		Longitude:			Datum:										
	, ,	onditions on the site typica			ar? (If no, exp		•		□ No	Section:								
Are Vegetation	•		•	disturbed?		Are	e normal circum	•	esent?	Township:								
Are Vegetation			ally pro	blematic?			Yes	□ No		Range: Dir:								
SUMMARY C								11 1: 0 :	L D	V								
Hydrophytic \			Yes		-				Is Present?									
Wetland Hyd			Yes					is This Sa	mpling Poir	t Within A Wetland? Yes								
Remarks:	rne sample	e point is located in a wet	meado	w community	/.													
HYDROLOG'	V																	
		"a a tana a /Ol a a la allatha tan																
	•	icators (Check all that ap	opiy; Mi	nimum of on	e primary	or two so	econdary requii	red):	Cacandanu									
<u>Primary:</u> ☐ A1 - Surface Water ☐ B11 - Salt Cru						Crust			Secondary:	B6 - Surface Soil Cracks								
					B13 - Aqua					B8 - Sparsely Vegetated Concave Surface								
	_				C1 - Hydro	gen Sulfid	le Odor			B10 - Drainage Patterns								
	B1 - Water M				C2 - Dry Se			D (- / (12)		C3 - Oxidized Rhizospheres on Living Roots (tilled)								
	B2 - Sedimer B3 - Drift Dep	•			C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not till	lŧ 🗆	C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery								
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorphic Position								
	B5 - Iron Dep				Other (Exp					D5 - FAC-Neutral Test								
		on Visible on Aerial Imagery								D7 - Frost-Heaved Hummocks (LRR F)								
	B9 - Water-S	tained Leaves																
Field Observ	vations																	
		Vec.	Danth		(in)													
Surface Water Table		Yes □ Yes ☑	Depth: Depth:		. (in.) (in.)			Wetland F	Hydrology	Present? Y								
Saturation Pr		Yes ☑	Depth:		(in.)													
					` ` ′													
	<u> </u>	stream gauge, monitoring v				ections),	if available:											
Remarks:	i wo second	dary indicators of wetland	nyarok	ogy are prese	ent.													
SOILS																		
	iption (Descr	Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators.)																
(Type: C=Concer		ibe to the depth needed to	o docur	nent the indi	cator or co	onfirm th	e absence of in	dicators.)										
` '		ibe to the depth needed to etion, RM=Reduced Matrix, CS																
		etion, RM=Reduced Matrix, CS				tion: PL=P	ore Lining, M=Matr		1									
		etion, RM=Reduced Matrix, CS Matrix	=Covered	d/Coated Sand (Grains; Locat	tion: PL=P	ore Lining, M=Matr	ix)										
Depth (In.)	ntration, D=Dep	etion, RM=Reduced Matrix, CS Matrix Color (Moist)	=Covered		Grains; Locat	tion: PL=P	ore Lining, M=Matr		Texture	Remarks								
Depth (In.) 0-4	htration, D=Dep	Matrix Color (Moist) 2/1	% 100	d/Coated Sand (Grains; Locat	tion: PL=P	ore Lining, M=Matr	ix)	SIL	Remarks								
Depth (In.) 0-4 4-17	Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 2/1	% 100 100	Color (I	Grains; Locat	Mottle %	ore Lining, M=Matres Type	Location	SIL SCL	Remarks								
Depth (In.) 0-4 4-17 17-29	Hue_10YR Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 2/1 3/1	% 100 100 94	Color (I	Moist)	Mottle %	es Type D	Location M	SIL SCL SCL	Remarks								
Depth (In.) 0-4 4-17	Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 2/1 3/1	% 100 100	Color (I Hue_10YR Hue_10YR	Moist) 6/1 7/2	Mottle % 6 2	es Type D D	Location M M	SIL SCL SCL SCL	Remarks								
Depth (In.) 0-4 4-17 17-29	Hue_10YR Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 2/1 3/1	% 100 100 94	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Moist) 6/1 7/2 3/4	Mottle % 6 2 5	es Type D C	Location M M M	SIL SCL SCL SCL SCL	Remarks								
Depth (In.) 0-4 4-17 17-29 29-34	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 2/1 3/1 4/2	% 100 100 94 88	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Moist) 6/1 7/2 3/4 2/1	Mottle % 6 2 5 5	ore Lining, M=Matrees Type D C C	Location M M	SIL SCL SCL SCL	Remarks								
Depth (In.) 0-4 4-17 17-29	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 2/1 3/1 4/2	% 100 100 94 88	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Moist) 6/1 7/2 3/4 2/1	Mottle % 6 2 5 5	es Type D C	Location M M M	SIL SCL SCL SCL SCL SCL									
Depth (In.) 0-4 4-17 17-29 29-34 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 2/1 3/1 4/2	% 100 100 94 88	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Moist) 6/1 7/2 3/4 2/1 not present	Mottle % 6 2 5 5	ore Lining, M=Matrees Type D C C	Location M M M	SIL SCL SCL SCL SCL SCL	or Problematic Soils ¹								
Depth (In.) 0-4 4-17 17-29 29-34 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Al- Histosol	Matrix Color (Moist) 2/1 2/1 3/1 4/2 Indicators (check he	% 100 100 94 88	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gicators are r S5 - Sandy R	Moist) 6/1 7/2 3/4 2/1 not presented ox	Mottle % 6 2 5 5	ore Lining, M=Matrees Type D C C	Location M M M	SIL SCL SCL SCL SCL SCL SCL A9 - 1 cm M	or Problematic Soils ¹ luck (LRR I, J)								
Depth (In.) 0-4 4-17 17-29 29-34 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 2/1 3/1 4/2 Indicators (check he	% 100 100 94 88	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Moist) 6/1 7/2 3/4 2/1 not presented ox Matrix	Mottle % 6 2 5 t):	ore Lining, M=Matrees Type D C C	Location M M M	SIL SCL SCL SCL SCL SCL SCL SCL A9 - 1 cm M A16 - Coast	or Problematic Soils ¹								
Depth (In.) 0-4 4-17 17-29 29-34 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	Matrix Color (Moist) 2/1 2/1 3/1 4/2 Indicators (check heading stice in Sulfide)	% 100 100 94 88	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Glicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	Moist) 6/1 7/2 3/4 2/1 not present edox Matrix flucky Minera	Mottle % 6 2 5 t):	ore Lining, M=Matrees Type D C C	Location M M M M	SIL SCL SCL SCL SCL SCL SCL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	For Problematic Soils ¹ Juck (LRR I, J) Prairie Redox (LRR F, G, H) Purface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)								
Depth (In.) 0-4 4-17 17-29 29-34 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	Matrix Color (Moist) 2/1 2/1 3/1 4/2 Indicators (check heading stice in Sulfide it Layers (LRR F)	% 100 100 94 88	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Grand Color (I Hue_10YR Hue_	Moist) 6/1 7/2 3/4 2/1 aot presentedox Matrix Mucky Mineraliseleyed Matrix Matrix	Mottle % 6 2 5 t):	ore Lining, M=Matrees Type D C C	Location M M M M	SIL SCL SCL SCL SCL SCL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	For Problematic Soils ¹ Suck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) Seed Vertic								
Depth (In.) 0-4 4-17 17-29 29-34 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	Matrix Color (Moist) 2/1 2/1 3/1 4/2 Indicators (check here) Sipedon stic on Sulfide H Layers (LRR F) tok (LRR FGH)	% 100 94 88 ere if inc	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Gicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D	Moist) 6/1 7/2 3/4 2/1 not present edox Matrix lucky Minera eleyed Matrix Matrix ark Surface	Mottle % 6 2 5 t):	ore Lining, M=Matrees Type D C C	Location M M M M ————————————————————————————	SIL SCL SCL SCL SCL SCL SCL SCL SCL A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	For Problematic Soils ¹ Suck (LRR I, J) Prairie Redox (LRR F, G, H) surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) Seed Vertic Parent Material								
Depth (In.) 0-4 4-17 17-29 29-34 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	Matrix Color (Moist) 2/1 2/1 3/1 4/2 Indicators (check here) Sipedon stic on Sulfide of Layers (LRR F) lick (LRR FGH) led Below Dark Surface	% 100 100 94 88	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Grade Sandy R So - Sandy R So - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	Moist) 6/1 7/2 3/4 2/1 not present edox Matrix lucky Minera aleyed Matrix Matrix ark Surface Dark Surface	Mottle % 6 2 5 t):	ore Lining, M=Matrees Type D C C	Location M M M M	SIL SCL SCL SCL SCL SCL SCL SCL SCL SCL SC	For Problematic Soils Juck (LRR I, J) Prairie Redox (LRR F, G, H) Purface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) Red Vertic Parent Material Shallow Dark Surface								
Depth (In.) 0-4 4-17 17-29 29-34 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	Matrix Color (Moist) 2/1 2/1 3/1 4/2 Indicators (check head strick in Sulfide in Sulfi	% 100 94 88 ere if inc	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Hue_10YR H	Moist) 6/1 7/2 3/4 2/1 aot presented Matrix fleyed Matrix Matrix ark Surface Dark Surface epressions	Mottle % 6 2 5 t):	ore Lining, M=Matrees Type D C C	Location M M M M ————————————————————————————	SIL SCL SCL SCL SCL SCL SCL SCL SCL SCL SC	For Problematic Soils ¹ Suck (LRR I, J) Prairie Redox (LRR F, G, H) surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) Seed Vertic Parent Material								
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Depth (In.) 0-4 4-17 17-29 29-34 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	Matrix Color (Moist) 2/1 2/1 3/1 4/2 Indicators (check here) Sipedon stic (check here) A Layers (LRR F) (LRR FGH) Ed Below Dark Surface (LRR FGH) Ed Below Dark Surface (LRR G, F) Ed Color (Moist) A Layers (LRR F) Ed Layers (LRR F) Ed Relow Dark Surface (LRR FGH) Ed Below Dark Surface (LRR F) Ed Below Peat or Peat (LRR G, F) Ed Layers (LRR F) Ed Below Dark Surface (LRR F) Ed Below Peat or Peat (LRR F)	% 100 94 88 ere if inc	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Governormal Color (II Color (II Hue_10YR Hue_	Moist) 6/1 7/2 3/4 2/1 not present edox Matrix lucky Mineral eleyed Matrix ark Surface Dark Surface epressions ains Depres	Mottle % 6 2 5 t):	es Type D C C C	Location M M M M C C C C C C C C C C C C C C C	SIL SCL SCL SCL SCL SCL SCL SCL SCL SCL SC	For Problematic Soils¹ Suck (LRR I, J) Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) Seed Vertic Parent Material Shallow Dark Surface Sain in Remarks) Sydrophytic vegetation and wetland hydrology must be present,								
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-157n47w16-g1
VEGETATIO		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: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
					Total Number of Dominant Species Across All Strata.
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.					OBL spp. $30 x 1 = 30$
	Total Cover =	0			FACW spp. 44 $\times 2 = 88$
					FAC spp. 5 $\times 3 = 15$
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				Total % Cover of: Multiply by: OBL spp. 30 X 1 = 30 FACW spp. 44 X 2 = 88 FAC spp. 5 X 3 = 15 FACU spp. 2 X 4 = 8 UPL spp. 0 X 5 = 0
1.	Ctratam (Fiet 6)26. To its radiae)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					0. 2 opp
	_				Total 91 (A) 444 (D)
3.					Total <u>81</u> (A) <u>141</u> (B)
4.					
5.					Prevalence Index = B/A = 1.741
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) *
Llawb Ctratura	(Diet einer Eft medica)				
	(Plot size: 5 ft. radius)	20	Υ	EAC\A/	Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	30	<u> </u>	FACW	* In dia stone of building of boundings of building a second of buildings of buildi
2.	Carex haydenii	30	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Equisetum hyemale	10	N	FACW	present, unless disturbed or problematic.
4.	Solidago gigantea	5	N	FAC	Definitions of Vegetation Strata:
5.	Symphyotrichum lanceolatum	3	N	FACW	
6	Poa palustris	1	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Poa pratensis	1	N	FACU	height (DBH), regardless of height.
8.	Artemisia biennis	1	N	FACU	
9.	7 III COMMOND STORMING				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					Herb - All Herbaceous (Horl-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	81			
			_ _		
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5. 5.					ingarophytic vogotation i roscitti
4.	Tatal Oans				
D '	Total Cover =				
Remarks:	The wet meadow community is dominated by	/ reed can	ary grass a	and Hayde	en's sedge and is located in a depression in an old floodplain.
Additional F	Remarks:				
I					