WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:	•									Date:	09/18/14 Maraball
Applicant: Investigators				Subregion (MLRA			or LRR): MLRA 56		County: State:	Marshall MN	
Soil Unit:				Subregion (MLRA			Classification:			State.	IVIIN
Landform:				- In	cal Relief: L		Siassification.			Sample Point:	u-155n46w2-f2
Slope (%):	0 - 2%		Latitude: 48.27		Longitude: -		15	Datum:			<u>u 1001110112 12</u>
. ,		nditions on the site			_				□ No	Section:	
Are Vegetation		□, or Hydrology	⊏significantly				normal circum			Township:	
Are Vegetation		□, or Hydrology	□aturally pro				✓ Yes	□ No		Range:	Dir:
SUMMARY (, ,							3	
Hydrophytic '	Vegetation P	resent?	No					Hydric Soil	ls Present?	No	
•	drology Prese		No		-					t Within A We	etland? No
Remarks:	An upland p	oint in a hay field	dominated by	pasture gras	ses. Wetla	and condit	tions are not p	oresent.			
		-									
HYDROLOG	Υ										
Wetland Hy	drology Ind	icators (Check all	that apply: Mi	nimum of on	e primary o	r two sec	condary requir	ed).			
Primary	•	icators (Check an	triat apply, ivii		c primary o	/	oridary requir	ca).	Secondary:		
	A1 - Surface	Water			B11 - Salt Cı	rust				B6 - Surface S	oil Cracks
	□ A2 - High Water Table				B13 - Aquati						egetated Concave Surface
	A3 - Saturation				C1 - Hydroge					B10 - Drainage	
	B1 - Water M B2 - Sedimen				C2 - Dry Sea		er Table heres on Living	Poots (not till	□	C3 - Oxidized I	Rhizospheres on Living Roots (tille
	B3 - Drift Dep	•			C4 - Present			NOOLS (HOL LIII)	, –	-	Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin Mu				_	D2 - Geomorpl	
	B5 - Iron Dep				Other (Expla	ain)				D5 - FAC-Neut	
		n Visible on Aerial Im	agery							D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
Fig. 1.01	- 4 *										
Field Obser											
Surface Water Present? Yes Depth: (in.)								Wetland H	lydrology I	Present?	N
Water Table		Yes	Depth:		_ (in.)				.,		<u> </u>
Saturation P	resent?	Yes	Depth:	·	_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Nee	oraca bata (t	stream gauge, moni	toring well, aer	iai pnotos, pr	evious inspe	ections), if	available:				
Remarks:	<u> </u>	rs of wetland hydro			evious inspe	ections), if	available:				
	<u> </u>				evious inspe	ections), if	available:				
Remarks:	No indicato	rs of wetland hydro	ology were obs	served.	·	•					
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology were obs	served.	cator or con	nfirm the a	absence of in				
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology were obs	served.	cator or con	nfirm the a	absence of in				
Remarks: SOILS Profile Descri	No indicato	be to the depth ne	ology were obs	served.	cator or con	nfirm the a	absence of in e Lining, M=Matri				
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth ne etion, RM=Reduced Ma	eded to docur	nent the indi	cator or con Grains; Locatio	nfirm the a	absence of in e Lining, M=Matri	x)	Teyture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth ne etion, RM=Reduced Ma	eded to docuratrix, CS=Covered	served.	cator or con Grains; Locatio	nfirm the a	absence of in e Lining, M=Matri		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No indicato iption (Description, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docuratrix, CS=Covered	nent the indi	cator or con Grains; Locatio	nfirm the a	absence of in e Lining, M=Matri	x)	L		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docuratrix, CS=Covered	nent the indi	cator or con Grains; Locatio	nfirm the a	absence of in e Lining, M=Matri	x)	Texture L FSL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No indicato iption (Description, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eded to docuratrix, CS=Covered	nent the indi	cator or con Grains; Locatio	nfirm the a	absence of in e Lining, M=Matri	x)	L		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	No indicato iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 5/1	eded to docure trix, CS=Covered 100 100	nent the indi	cator or con Grains; Location	Mottles	absence of in e Lining, M=Matri	x)	L		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	No indicato iption (Description, D=Depl	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 5/1	eded to docuratrix, CS=Covered	nent the indi	cator or con Grains; Location	Mottles	absence of in e Lining, M=Matri	x)	FSL		
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Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-10 10-18 NRCS Hydr	iption (Description, D=Deplementation, D=Depleme	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docure trix, CS=Covered 100 100	ment the indid/Coated Sand Color (Color (State Sand) Sand Sand Sand Sand Sand Sand Sand Sand	cator or con Grains; Location Moist) Moist) not present)	Mottles	absence of in e Lining, M=Matri	Location	FSL Indicators f A9 - 1 cm M	uck (LRR I, J)	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	iption (Description, Depoint Intration, Depoint Int	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docure trix, CS=Covered 100 100	color (S5 - Sandy R S6 - Stripped	cator or con Grains; Location Moist) Moist) not present) edox Matrix	Mottles	absence of in e Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (: Soils ¹
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-10 10-18 NRCS Hydr	No indicato iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docure trix, CS=Covered 100 100	color (S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or con Grains; Location Moist) Moist) not present) edox Matrix Mucky Mineral	Mottles	absence of in e Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	: Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	iption (Description, Depoint Intration, Depoint Int	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docuratrix, CS=Covered % 100 100 eck here if inc	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or con Grains; Location Moist) Moist) not present) edox Matrix Mucky Mineral Gleyed Matrix	Mottles	absence of in e Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docuratrix, CS=Covered % 100 100 eck here if incesses 100 100 eck here if incesses 100 100 100 eck here if incesses 100 1	color (S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or con Grains; Location Moist) Moist) not present) edox Matrix Mucky Mineral Gleyed Matrix Matrix	Mottles	absence of in e Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-10 10-18 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (ch	eded to docuratrix, CS=Covered % 100 100	color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted	cator or con Grains; Location Moist) Moist) not present) edox Matrix Mucky Mineral Gleyed Matrix Mucky Mineral Gleyed Matrix	Mottles %	absence of in e Lining, M=Matri	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	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descrice (Type: C=Concert Depth (In.) 0-10 10-18 NRCS Hydr	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 D	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/1 Indicators (chain and in Sulfide Layers (LRR F) ck (LRR FGH) and Below Dark Surface eark Surface	eded to docuratrix, CS=Covered % 100 100	color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or con Grains; Location Moist) Moist) not present) edox Matrix Mucky Mineral Gleyed Matrix	Mottles %	absence of ine Lining, M=Matri	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 Depressions ed Vertic Parent Material	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: u-155n46w2-f2				
VEGETATIO	(Species identified in all uppercase ar	re 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.									
4.					Total Number of Dominant Species Across All Strata: 3 (B)				
					Total Number of Dominant Species Across All Strata.				
5.									
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 $0 \times 1 = 0$				
	Total Cover =	. 0			FACW spp				
	10101 00001 =		_		FACW spp. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
0 - 1 - 10 - 1	O(1) (1) (D(1) (1) (1) (45 (1) (1) (1) (1)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{60}{45}$ $x = \frac{240}{225}$				
1.					UPL spp. $\frac{45}{}$ $x = \frac{225}{}$				
2.									
3.					Total 120 (A) 510 (B)				
4.									
5.					Prevalence Index = B/A = 4.250				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	. 0			Prevalence Index is ≤ 3.0 *				
			_		Morphological Adaptations (Explain) *				
Harb Ctratum	(Diet cize: Eft redius)								
	(Plot size: 5 ft. radius)		Υ	FACIL	Problem Hydrophytic Vegetation (Explain) *				
1.	Festuca pratensis	30		FACU	* 1. 1				
2.	Poa pratensis	30	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Bromus inermis	30	Υ	UPL	present, unless disturbed or problematic.				
4.	Medicago sativa	15	N	UPL	Definitions of Vegetation Strata:				
5.	Solidago gigantea	15	N	FAC					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
					, , , , , , , , , , , , , , , , , , , ,				
8.					O II (OI I Was du plants less than 3 in DDII na gandless of height				
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.				-	i de la companya de				
15.					Woody Vines - All woody vines, regardless of height.				
15.					Woody Vines - All woody vines, regardless of fleight.				
	Total Cover =	120	_						
Woody Vine S	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? N				
					nydrophytic vegetation Fresent? N				
5.									
4.									
	Total Cover =								
Remarks:	An upland in a hay field dominated by a mix	of non-nati	ve pasture	grasses	with alfalfa and late goldenrod. Hydrophytic vegetation is not present. The field				
	has been cut for hay this year, but plant spec								
-	The state of the s	22.000	22						
	_								
Additional Remarks:									