WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R Fabridae								Date: County:	<u>08/04/14</u>	
Applicant: Investigators					Subregion (MLRA or LRR): MLRA 56						Marshall MN	
Soil Unit:	I18A			_		•	I Classification:	-		State:		
Landform:	Talf		40.04		ocal Relief:		707			Sample Point	u-155n45w18-d1	
Slope (%):	0 - 2%	nditions on the site	Latitude: 48.24		Longitude:			Datum: ☑ Yes	□ No	Section:		
Are Vegetation		, or Hydrology	• •			T	e normal circun			Township:		
Are Vegetati		□, or Hydrology	U				⊠ Yes			Range:	Dir:	
SUMMARY O												
Hydrophytic	-		No		_				Is Present?			
Wetland Hyd			No No	<u>oultivated v</u>	(hoat field			Is This Sar	mpling Poin	it Within A W	/etland? No	
Remarks: The upland sample point is located within a cultivated wheat field.												
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all t	that apply; Mi	nimum of o	ne primary	or two se	econdary requi	red):				
Primary	<u>.</u>	·					,	,	Secondary:			
	A1 - Surface A2 - High Wa				B11 - Salt (B13 - Aqua					B6 - Surface S	Soil Cracks Vegetated Concave Surface	
	A3 - Saturatio				C1 - Hydro	gen Sulfid	le Odor			B10 - Drainag	e Patterns	
	B1 - Water M				C2 - Dry Se			Pooto (not till			Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen B3 - Drift Dep	•			C3 - Oxidiz C4 - Prese		spheres on Living duced Iron	Roots (not till		C8 - Crayfish C9 - Saturatio	n Visible on Aerial Imagery	
	B4 - Algal Ma	t or Crust			C7 - Thin N	/luck Surfa				D2 - Geomor	phic Position	
	B5 - Iron Dep	osits on Visible on Aerial Ima	aany		Other (Exp	lain)				D5 - FAC-Neu	utral Test aved Hummocks (LRR F)	
		tained Leaves	ager y									
Field Observ		× –	D (1)									
Surface Wat			Depth: Depth:		_ (in.)			Wetland H	lydrology l	Present?	Ν	
Water Table Saturation P		Yes □ Yes □	Depth: Depth:		_ (in.) (in.)							
			•									
Describe Rec					rovious inch	octione)	if available.					
Remarks:	No primary	<u> </u>	.	•	•	, ·	if available:					
Remarks:	No primary	or secondary wetla	.	•	•	, ·	if available:					
SOILS		or secondary wetla	nd hydrology	indicators v	vere observ	/ed.		diaatara				
SOILS Profile Descri	iption (Descr	or secondary wetla	nd hydrology	indicators v	vere observ	ved.	e absence of in					
SOILS Profile Descri	iption (Descr	or secondary wetla	nd hydrology	indicators v	vere observ	ved.	e absence of in					
SOILS Profile Descri (Type: C=Concer	iption (Descr	or secondary wetla ibe to the depth nee etion, RM=Reduced Mat Matrix	nd hydrology eded to docun trix, CS=Covered	indicators v nent the inc	vere observ icator or co Grains; Locat	/ed. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)				
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descring) ntration, D=Depl	or secondary wetla ibe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist)	nd hydrology eded to docun trix, CS=Covered %	indicators v nent the inc	vere observ	/ed. onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr		Texture		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9	iption (Descr ntration, D=Depl Hue_10YR	or secondary wetla ibe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1	nd hydrology eded to docun trix, CS=Covered % 100	indicators v nent the inc	vere observ icator or co Grains; Locat	/ed. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	LFS		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-11	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR	or secondary wetla ibe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/1	nd hydrology eded to docun trix, CS=Covered % 100 100	indicators v nent the inc	vere observ icator or co Grains; Locat	/ed. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	LFS LFS		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-11 11-16	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y	or secondary wetla ibe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/1 3/3	nd hydrology eded to docun trix, CS=Covered % 100 100 100	indicators v nent the inc	vere observ icator or co Grains; Locat	/ed. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	LFS LFS LFS		Remarks	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-11	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR	or secondary wetla ibe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/1	nd hydrology eded to docun trix, CS=Covered % 100 100	indicators v nent the inc	vere observ icator or co Grains; Locat	/ed. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	LFS LFS		Remarks	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-11 11-16 16-19	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y	or secondary wetla ibe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/1 3/3 4/3	nd hydrology eded to docun trix, CS=Covered % 100 100 100	indicators v	vere observ	/ed. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es	ix)	LFS LFS LFS LFS			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-11 11-16 16-19 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y	or secondary wetla ibe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/1 3/3 4/3	eded to docun trix, CS=Covered % 100 100 100 100 eck here if inc	indicators v	icator or co Grains; Locat (Moist)	/ed. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es Type	Location	LFS LFS LFS LFS	or Problemati	<u>ic Soils¹</u>	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-11 11-16 16-19	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y	or secondary wetla ibe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/1 3/3 4/3 Indicators (che	eded to docun trix, CS=Covered % 100 100 100 100 eck here if inc	indicators v	icator or co Grains; Locat (Moist) (Moist) not presen Redox	/ed. onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es Type	Location	LFS LFS LFS Modicators f A9 - 1 cm M	luck (LRR I, J)	<u>ic Soils¹</u>	
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-11 11-16 16-19 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y ric Soil Field	or secondary wetla ibe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/1 3/3 4/3 Indicators (che stic	eded to docun trix, CS=Covered % 100 100 100 100 eck here if ind	indicators v	icator or co Grains; Locat (Moist) (Moist) not presen Redox d Matrix Mucky Minera	/ed. onfirm the tion: PL=Pe Mottle % t):	e absence of in ore Lining, M=Matr es Type	Location	LFS LFS LFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox urface (LRR G	i <mark>c Soils¹</mark> (LRR F, G, H)	
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-11 11-16 16-19 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary wetla ibe to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 3/1 3/3 4/3 Indicators (che stic	eded to docun trix, CS=Covered % 100 100 100 100 eck here if inc	indicators v	icator or co Grains; Locat (Moist) (Moist) not present Redox d Matrix Mucky Minera Gleyed Matrix d Matrix	/ed. pnfirm the tion: PL=Pe Mottle % t):	e absence of in ore Lining, M=Matr es Type	Location	LFS LFS LFS LFS Mailer LFS LFS LFS LFS LFS LFS LFS LFS LFS LFS	luck (LRR I, J) Prairie Redox urface (LRR G Plains Depress	i <mark>c Soils¹</mark> (LRR F, G, H)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R			Sample Point:	u-155n45w18-d1
EGETATIO		e non-native species.)			
Free Stratum ((Plot size: 30 ft. radius)			Deminonee Test Werksheet	
1	<u>Species Name</u>	<u>% Cover</u> Dominant	Ind.Status	Dominance Test Worksheet	
<u> </u>				Number of Dominant Spacing that are $OPL = FACM/r$	
				Number of Dominant Species that are OBL, FACW, o	$or FAC: \underline{0}$ (A)
3.				Total Number of Deminent Species Acres All	Strata (P)
<u> </u>				Total Number of Dominant Species Across All	
5.				Demonstrat Demoissant Operation That Are ODL FACIAL	
<u>6.</u> 7.				Percent of Dominant Species That Are OBL, FACW, o	(A/B)
8.				Prevalence Index Worksheet	
9.					
10.				Total % Cover of: <u>Multiply by:</u>	
10.	Total Cover =	0		OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.0x4 =0	
				$\begin{array}{c c} FAC spp & 0 \\ \hline \end{array} \\ $ $ \end{array} \\ \hline \end{array} \\ \\ \\ \end{array} \\ \hline \end{array} \\ \\ \\ \end{array} \\ \hline \end{array} \\ \\ \\ \end{array} \\ \\ \\ \end{array} \\ \\ \\ \end{array} \\ \\ \end{array} \\ \\ \\ \end{array} \\ \\ \\ \\ \end{array} \\ \\ \\ \\ \\ \end{array} \\$	
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)			$FACU spp \qquad 0 \qquad x \ 4 = \qquad 0$	
<u>1.</u>				UPL spp. $85 \times 5 = 425$	5
2.					
3.				Total <u>85</u> (A) <u>42</u> 8	5 (B)
4.					<u> </u>
5.				Prevalence Index = B/A = 5.00	00
6.					
7.					
8.				Hydrophytic Vegetation Indicators:	
9.				Rapid Test for Hydrop	phytic Vegetation
10.				Dominance Test is >	
	 Total Cover =	0		Prevalence Index is ≤	3.0 *
	-			Morphological Adapta	tions (Explain) *
Herb Stratum (Plot size: 5 ft. radius)			Problem Hydrophytic	
1.	Triticum aestivum	85 Y	NI		
2.				* Indicators of hydric soil and we	
3.				present, unless disturbe	ed or problematic.
4.				Definitions of Vegetation Strata:	
5.					
6				Tree - Woody plants 3 in. (7.6cm	
7.				height (DBH), regardless o	of height.
8.					
9.				Sapling/Shrub - Woody plants less than 3 i	in. DBH, regardless of height.
10.					
11.					
12.				Herb - All herbaceous (non-wood	ly) plants, regardless of size.
13.					
14.					an of height
15.	1			Woody Vines - All woody vines, regardles	ss of height.
	Total Cover =_	85			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.				Hydrophytic Vegetation Pre	sent?N
5.					
4.	Total Oaver	0			
Domortico	Total Cover =	0 tiveted wheet			
Remarks:	The upland sample point is dominated by cult	uvated wheat.			
Additional R	Remarks:				