WETLAND DETERMINATION DATA FORM Great Plains Region

						J						
Project/Site:		L3R							Date: 0	06/26/14		
Applicant:								_	Marshall			
Investigators						on (MLRA or LRR): MLRA 56			State: N	MN		
Soil Unit:	I133A					VI Classification):					
Landform: Shoulder Local Relief: VL Sample Point: u-158n48w8-a1												
Slope (%): 3 - 7% Latitude: 48.52362 Longitude: -96.867885 Datum: Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes □ No Section:												
			•		□ No	Section:						
Are Vegetation			significantly of		A	re normal circur	•	esent?	Township:			
Are Vegetation ☐ Soil ☐, or Hydrology ☐aturally problematic? ☑ Yes ☐ No Range: Dir:												
SUMMARY C			N				Lludria Cai	la Duacanto	. N.			
Hydrophytic \			No				Is Present?		and? No			
Wetland Hydrology Present? No Is This Sampling Point Within A Wetland? No Remarks: The upland point is located at the edge of an agricultural field planted in wheat.												
ixemarks.	The upland	point is located at the	e edge of all	agricultural lie	eid planted in v	meat.						
HYDROLOG	Υ											
		inatore (Chaok all the	ot opply: Min	imum of one r	orimory or two	aaaandary ragui	irod\.					
Primary:		icators (Check all tha	at apply, win	imum or one p	offinary of two	secondary requi	irea):	Secondary:				
	A1 - Surface	Water		□ B′	I1 - Salt Crust				<u>.</u> B6 - Surface Soil	Cracks		
	A2 - High Wa				13 - Aquatic Faun	a				getated Concave Surface		
	A3 - Saturation				1 - Hydrogen Sulf				B10 - Drainage P		//·!! 1\	
	B1 - Water M B2 - Sedimer				2 - Dry Season W 3 - Oxidized Rhize	rater Table ospheres on Living	Roots (not till	€ □	C3 - Oxidized Rh C8 - Crayfish Bur	izospheres on Living Roots	(tilled)	
	B3 - Drift Dep	•			4 - Presence of R		7 110013 (1101 1111	`		isible on Aerial Imagery		
	B4 - Algal Ma	t or Crust		□ C7	7 - Thin Muck Sur				D2 - Geomorphic	Position		
	B5 - Iron Dep			□ Ot	ther (Explain)				D5 - FAC-Neutra			
		on Visible on Aerial Image tained Leaves	ery					П	D7 - Frost-Heave	ed Hummocks (LRR F)		
	Do Water C	tailled Leaves										
Field Observ	vations:											
Surface Wate	er Present?	Yes	Depth:		(in.)		147 41 11		D 40	. .		
Water Table		Yes □	Depth:		(in.)		Wetland F	lydrology	Present?	N		
Saturation Present? Yes Depth: (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks:	,			<u> </u>		,,						
Remarks: No indicators of wetland hydrology were observed.												
SOILS												
		ibe to the depth need										
(Type: C=Concer	itration, D=Dep	etion, RM=Reduced Matrix	k, CS=Covered/	Coated Sand Gra	ins; Location: PL=	Pore Lining, M=Mat	rix)					
		Matrix			Mot	ttles						
Depth (In.)		Color (Moist)	%	Color (Mo		Type	Location	Texture		Remarks		
0-18	Hue_10YR	·	80	1	70	1,750	20041011	С		rtomanto		
0-18	Hue_2.5Y		20					С				
0.10	1100_2101	0, 1	20									
NRCS Hydr	ic Soil Field	Indicators (chec	k here if indi	cators are not	present):		1	1	1			
		(61166			p. 666. m/.			Indicators f	for Problematic S	Soils ¹		
	A1- Histosol			S5 - Sandy Red	ox				luck (LRR I, J)			
	☐ A2 - Histic Epipedon ☐ S6 - Stripped Matrix ☐ A16 - Cost Prairie Redox (LRR F, G, H)								R F, G, H)			
	A3 - Black Histic F1 - Loamy Mucky Mineral S7 - Dark Surface (LRR G) A4 - Hydrogen Sulfide F2 - Loamy Gleyed Matrix F16 - High Plains Depressions (LRR H, outisde MLRA 72, 73)											
	A4 - Hydrogen Sulfide											
	_ ,											
□ S1 - Sandy Mucky Mineral □ F16 - High Plains Depressions (MLRA 72, 73 of LRR H) □ S2 - 2.5 cm Mucky Peat or Peat (LRR G, H)												
										present		
	S4 - Sandy G	•	,						ed or problematic.		,	
Restrictive Layer	r Type:			Depth:		Hydric Sc	oil Present?	N				
Dome - illin												
Remarks:	i ne soil is (ciay with a mix of two	colors in the	: matrix. No hv	raric soll indica	ıors were obser	vea.					

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-158n48w8-a1			
					•			
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	Species Name	% Cover	Dominant	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: 1 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)			
7.					(742)			
8.					Prevalence Index Worksheet			
9.					Total 9/ Cover of: Multiply by			
10.					Total % Cover of: Multiply by:			
10.	_l Total Cover =	0			$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	Total Cover =	0			OBL spp. 0			
0 11 /01					FAC spp. $\qquad \qquad $			
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{10}{10}$ \times 4 = $\frac{40}{10}$			
1.					UPL spp. $ 80 $ $ x 5 = 400 $			
2.								
3.					Total <u>95</u> (A) <u>455</u> (B)			
4.								
5.					Prevalence Index = B/A = 4.789			
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 *			
	1000 -							
Llowb Ctwotywo /	District Eft radius)				Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)	70	V	NII	Problem Hydrophytic Vegetation (Explain) *			
1.	Triticum aestivum	70	<u> </u>	NI NI	* In dispate up of budgin and produced budge lagur groups by			
2.	Glycine max	10	N	NI	 * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 			
3.	Rumex crispus	5	N	FAC	· · · · · · · · · · · · · · · · · · ·			
4.	Trifolium hybridum	5	N	FACU	Definitions of Vegetation Strata:			
5.	Melilotus officinalis	5	N	FACU				
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.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
15.	Total Course	OF			Trody Villos			
	Total Cover =	95						
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present?N			
5.								
4.								
	Total Cover =	0						
Remarks: The upland vegetation is dominated by planted wheat with a mix of weedy forbs also present.								
Additional Remarks:								
Additional F	Nemaiks.							