WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: County:	09/24/14	
Applicant:	• •										Marshall	
Investigators				Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	124A			NWI Classification:							455×45××04 k4	
Landform:	Depression		1 1 40.0		cal Relief:		400	Datama		Sample Point:	w-155n45w34-h1	
Slope (%):	0 - 2%	nditions on the cite	Latitude: 48.2		Longitude:			Datum:	П No	Ocations		
		nditions on the site			II ? (If no, exp			☑ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology	•	•		Are	e normal circum	-	esent?	Township:	Dim	
Are Vegetation		, ,	□aturally p	obiematic?				□ No		Range:	Dir:	
			Yes					Hydric Soil	c Procont?	Voc		
				Yes Hydric Soils Present? Is This Sampling Point							etland? Yes	
Remarks:				located in a w	heat field	The wet	land has wheat				es of bare soil are also prese	ant
Remarks.		•		iocated iii a w	neat neid.	THE WE	iana nas wnea	t growing th	roughout be	at large patern	es of bare son are also prese	71 IL
with some scattered slough grass. HYDROLOGY												
		(0)						D				
_		cators (Check all	that apply; N	linimum of on	e primary	or two se	econdary requir	ed):	0			
	<u>Primary:</u> □ A1 - Surface Water				B11 - Salt (Cruct		Secondary: ☑	B6 - Surface So	oil Cracks		
					B13 - Aqua						/egetated Concave Surface	
	A3 - Saturatio			_	C1 - Hydro					B10 - Drainage	_	
	B1 - Water Ma				C2 - Dry Se	eason Wa	ter Table				Rhizospheres on Living Roots (tille	ed)
	B2 - Sediment	•					spheres on Living	Roots (not till	• 🗀	C8 - Crayfish B		
	B3 - Drift Dep B4 - Algal Mat				C4 - Presei C7 - Thin M					D2 - Geomorph	Visible on Aerial Imagery	
	B5 - Iron Depo				Other (Expl		ac c			D5 - FAC-Neut		
	•	n Visible on Aerial Ima	agery	_	Othor (Expi	iaii i)					ved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves									` ,	
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Dep	h:	(in.)			Wetland H	lydrology F	Present?	Υ	
Water Table		Yes □	Dep	h:	(in.)			vvetiana n	iyarology i	resent:	<u>'</u>	
Saturation Pr	resent?	Yes □	Dep	h:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s	tream gauge, monit	toring well, a	erial photos, pre	` ` '	ections),	l if available:					
					evious insp			I cracking a	nd landscar	pe position.		
Describe Reco		tream gauge, monit			evious insp			I cracking a	nd landscap	pe position.		
					evious insp			I cracking a	nd landscap	pe position.		
Remarks: SOILS Profile Descri	No primary ption (Descri	hydrology indicator be to the depth ne	rs are prese	nt. Wetland hy	evious insp drology is cator or co	assume	d based on soil	dicators.)	nd landscap	pe position.		
Remarks: SOILS Profile Descri	No primary ption (Descri	hydrology indicator	rs are prese	nt. Wetland hy	evious insp drology is cator or co	assume	d based on soil	dicators.)	nd landscap	pe position.		
Remarks: SOILS Profile Descri	No primary ption (Descri	hydrology indicator be to the depth necession, RM=Reduced Ma	rs are prese	nt. Wetland hy	evious insp drology is cator or co	assume onfirm the ion: PL=Pe	d based on soil e absence of in ore Lining, M=Matri	dicators.)	nd landscap	pe position.		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	be to the depth neetion, RM=Reduced Ma	eded to doci	int. Wetland hy iment the indiced/Coated Sand G	evious insp drology is cator or co Grains; Locat	onfirm the	d based on soil e absence of in ore Lining, M=Matri	dicators.)		pe position.		
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	be to the depth neterion, RM=Reduced Matrix Color (Moist)	rs are prese eded to doct atrix, CS=Cover	iment the indicated Sand Color (I	evious insp drology is cator or co Grains; Locat	assume onfirm the ion: PL=Pe	d based on soil e absence of in ore Lining, M=Matri	dicators.)	Texture	pe position.	Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-14 14-18 NRCS Hydr	No primary ption (Descrintration, D=Deplete Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep	hydrology indicator be to the depth nerelion, RM=Reduced Marix Matrix Color (Moist) 2/1 6/2 3/3 Indicators (characteristics)	eded to doctatrix, CS=Cover	Color (I) Hue_10YR Hue_10YR Odicators are r	drology is cator or co Grains; Locat Moist) 6/1 6/8 ot presented edox Matrix	assume onfirm the ion: PL=Pe Mottle % 10 10	e absence of incre Lining, M=Matri	dicators.) ix) Location M M	Texture CL C FS Indicators for A9 - 1 cm Model A16 - Coast	or Problematic uck (LRR I, J) Prairie Redox (I	: Soils¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-14 14-18 NRCS Hydr	No primary ption (Descrintration, D=Deplete Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History	hydrology indicator be to the depth neetion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/2 3/3 Indicators (characters)	eded to doctatrix, CS=Cover	Color (I) Hue_10YR Hue_10YR O dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	cator or co Grains; Locat Moist) 6/1 6/8 oot presentedox Matrix lucky Mineral	assume onfirm the ion: PL=Pe Mottle % 10 10 10 t):	e absence of incre Lining, M=Matri	dicators.) ix) Location M M	Texture CL C FS Indicators for A9 - 1 cm Model A16 - Coast S7 - Dark St	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G)	: Soils ¹ LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-14 14-18 NRCS Hydr	Ption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger	hydrology indicator be to the depth neation, RM=Reduced Marix Matrix Color (Moist) 2/1 6/2 3/3 Indicators (characters)	eded to docted trix, CS=Cover %	Color (I Hue_10YR Hue_10YR Hue_10YR Color (I Loamy N F1 - Loamy N F2 - Loamy G	drology is cator or co Grains; Locat Moist) 6/1 6/8 ot present edox Matrix lucky Mineral leyed Matrix	assume onfirm the ion: PL=Pe Mottle % 10 10 10 t):	e absence of incre Lining, M=Matri	Location M M	Texture CL C FS Indicators for A9 - 1 cm Model A16 - Coast S7 - Dark Suffix F16 - High P	or Problematic uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	hydrology indicator be to the depth nerestion, RM=Reduced Markix Color (Moist) 2/1 6/2 3/3 Indicators (characters) ipedon stic n Sulfide Layers (LRR F)	eded to doctatrix, CS=Cover	Color (I Hue_10YR Hue_10YR Hue_10YR Loamy R S6 - Stripped F1 - Loamy R F2 - Loamy G F3 - Depleted	evious inspector or contract o	assume onfirm the ion: PL=Pe Mottle % 10 10 10 t):	e absence of incre Lining, M=Matri	dicators.) ix) Location M M ——————————————————————————————	Texture CL C C FS Indicators for A9 - 1 cm More A16 - Coast S7 - Dark Stranger F16 - High PF18 - Reduce	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressioned Vertic	: Soils ¹ LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-14 14-18 NRCS Hydr	Description (Descriptration, D=Depletentration, D=D	hydrology indicator be to the depth neation, RM=Reduced Markix Matrix Color (Moist) 2/1 6/2 3/3 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eded to doctatrix, CS=Cover	color (I Hue_10YR Hue_10YR Hue_10YR Color (I Loamy R F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious inspector or contract of contract o	assume onfirm the ion: PL=Pe Mottle % 10 10 t):	e absence of in ore Lining, M=Matri	dicators.) Location M M M	Texture CL C C FS Indicators for A9 - 1 cm Model A16 - Coast S7 - Dark Strain F16 - High PF18 - Reductor TF2 - Red Patrice TF12 - Very	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depression ed Vertic arent Material	E 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.) 0-8 8-14 14-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mc S2 - 2.5 cm M S3 - 5 cm Muc S4 - Sandy Gl	be to the depth need ion, RM=Reduced Marix Color (Moist) 2/1 6/2 3/3 Indicators (characters) ipedon itic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF cky Peat or Peat (LRF)	eded to docted trix, CS=Cover	color (I Hue_10YR Hue_10YR Hue_10YR Color (I Loamy R F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist) 6/1 6/8 ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface pressions ains Depres	assume onfirm the ion: PL=Pe Mottle % 10 10 t):	e absence of incre Lining, M=Matrices Type D C	Location M M M	Texture CL C FS Indicators for A9 - 1 cm Model A16 - Coast S7 - Dark Start S7 - Dark Start S7 - Red Part S7 - Red Part S7 - Red Part S7 - Very Other (Explain Indicators of hyunless disturbed)	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S ain in Remarks)	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) urface	ent,

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-155n45w34-h1
					•
VEGETATIO	N (Species identified in all uppercase a	re non-native	e 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: 2 (A)
3.					
4.		1			Total Number of Dominant Species Across All Strata: 3 (B)
5.		-			
6.		1			Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
7.					(A/B)
		1			Dravalance Index Werksheet
8.		1			Prevalence Index Worksheet
9.					Multiply by:
10.					OBL spp. 25 X 1 = 25
	Total Cover =	= 0	FACW spp. $\underline{\hspace{1cm}}$ 15 $\underline{\hspace{1cm}}$ $\underline{\hspace{1cm}}$ 2 = $\underline{\hspace{1cm}}$ 30		
			Prevalence Index Worksheet Total % Cover of: Multiply by: OBL spp. 25 x 1 = 25 FACW spp. 15 x 2 = 30 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0 UPL spp. 10 x 5 = 50		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\underline{}$ \times 4 = $\underline{}$
1.		1			UPL spp10
2.					
3.		ĺ			Total <u>50</u> (A) <u>105</u> (B)
4.		1			```
5.					Prevalence Index = B/A = 2.100
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) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Beckmannia syzigachne	25	Υ	OBL	
2.	Rumex stenophyllus	15	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Triticum aestivum	10	Υ	NI	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					Tree - Was dealers of (7.0 and an area of branch
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
					Holghi (BBH), regardless of Holghi.
8.					O II (O) I Washindaya laga than O in BBII as any laga of height
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.		<u>.</u>			
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.				,	Woody Vines - All woody vines, regardless of height.
<u> </u>	Total Cover =	= 50			
	Total Cover -	- 30			
Manda News	watura (Diet einer 20 ft and dies)				
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	= 0			
Remarks:	The wetland vegetation is dominated by slo	ugh grass a	and narrow	-leaf dock	x. A large portion of the wetland is covered in bare soil with some areas of planted
	wheat still growing.				marker go per unit and menanta to correct an action of the marker and action of plantical
<u> </u>	g. g.omig.				
Additional F	kemarks:				