WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: <u>06/23/14</u>
Applicant:										County: <u>Marshall</u>
Investigators				Subregion (MLRA or LRR): MLRA 56						State: MN
Soil Unit:	1133A		NWI Classification:					Wetland ID:		
Landform:	Base Slope		1 11 10		cal Relief:		450			Sample Point: u-158n48w22-c1
Slope (%):	3 - 7%		Latitude: 48.4			-96.824		Datum:		Community ID:
		onditions on the site			al ! (If no, ex	_	·	☑ Yes	□ No	Section:
Are Vegetation				tly disturbed?		Are	e normal circun	-	esent?	Township:
Are Vegetation			Haturally p	roblematic?				□ No		Range: Dir:
Hydrophytic '			No					Hydria Sai	ls Present?	No
Wetland Hyd	•		No		_					nt Within A Wetland? No
Remarks:				an access ro	ad to an ac	ricultural	I field. The yea			Kentucky bluegrass with a mix of forbs.
ixemaiks.	The upland	i point is located at	the eage of	an access ro	au to an ag	incultural	i ileiu. Tile veg	etation is uc	illinated by	Remacky blaegrass with a mix of forbs.
HYDROLOG	V									
HYDROLOG					_					
		licators (Check all	that apply; I	Minimum of o	ne primary	or two se	econdary requi	red):		
<u>Primary</u>	_	Mator			D44 Colt	Crust			Secondary:	
	A1 - Surface A2 - High Wa				B11 - Salt B13 - Aqua					B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainage Patterns
	B1 - Water M	1arks			C2 - Dry S	eason Wa	iter Table			C3 - Oxidized Rhizospheres on Living Roots (tilled)
	B2 - Sedimer	•					spheres on Living	Roots (not till	• 🗆	C8 - Crayfish Burrows
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese C7 - Thin N		duced Iron			C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position
	B5 - Iron Dep				Other (Exp		ace			D5 - FAC-Neutral Test
		on Visible on Aerial Ima	agery	_	Othor (EXP	nan ij				D7 - Frost-Heaved Hummocks (LRR F)
	B9 - Water-S	Stained Leaves	0 ,							,
Field Obser	vations:									
Surface Wat	er Present?	Yes □	Dep	oth:	(in.)			Watland L	lydrology	Present? N
Water Table	Present?	Yes □		oth:	_ (in.)			welland r	lydrology	
Saturation P	resent?	Yes □	Dep	oth:	(in.)					
Describe Rec	orded Data (stream gauge, monit	toring well, a	erial photos, p	evious inst	ections).	if available:			
	<u> </u>	stream gauge, monit			evious insp	ections),	if available:			
Describe Rec Remarks:	<u> </u>	stream gauge, monitors of wetland hydro			revious insp	ections),	if available:			
Remarks:	<u> </u>				evious insp	pections),	if available:			
Remarks:	No indicato		ology were o	bserved.	·			ndicators.)		
Remarks: SOILS Profile Descri	No indicato	ors of wetland hydro	ology were o	bserved.	icator or co	onfirm the	e absence of ir			
Remarks: SOILS Profile Descri	No indicato	ribe to the depth new eletion, RM=Reduced Ma	ology were o	bserved.	icator or co	onfirm the	e absence of ir ore Lining, M=Mati			
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	ribe to the depth new letion, RM=Reduced Ma	eded to doc atrix, CS=Cove	bserved. cument the incored/Coated Sand	icator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	rix)		
Remarks: SOILS Profile Descri	No indicato	ribe to the depth new eletion, RM=Reduced Ma	ology were o	bserved. cument the incored/Coated Sand	icator or co	onfirm the	e absence of ir ore Lining, M=Mati		Texture	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No indicato	ribe to the depth new letion, RM=Reduced Ma Matrix Color (Moist)	eded to docatrix, CS=Cove	sument the indired/Coated Sand	icator or co	Mottle	e absence of ir ore Lining, M=Matr	rix)	Texture	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No indicato	ribe to the depth nedletion, RM=Reduced Ma Matrix Color (Moist) Indicators (che	eded to docatrix, CS=Cove	sument the indired/Coated Sand	icator or co Grains; Loca (Moist) not presen	Mottle	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	No indicato iption (Description, D=Dep	ribe to the depth new letion, RM=Reduced Markix Color (Moist) d Indicators (checking color)	eded to docatrix, CS=Cove	ndicators are S5 - Sandy F S6 - Stripped F1 - Loamy	icator or co Grains; Loca (Moist) not present Redox d Matrix Muck Minera	Mottle w tion: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1cm Mi A16 - Cost F S7 - Dark S	For Problematic Soils uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Description, D=Deportration, D=Deportr	ribe to the depth ned letion, RM=Reduced Marrix Color (Moist) Dipedon istic en Sulfide	eded to doc atrix, CS=Cove	ndicators are S5 - Sandy F S6 - Strippe F1 - Loamy F2 - Loamy	icator or co Grains; Loca (Moist) not present Redox d Matrix Muck Minera Gleyed Matri	Mottle w tion: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1cm Me A16 - Cost F S7 - Dark S F16 - High F	For Problematic Soils ¹ uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Description, D=Deportration, D=Deportr	mistic en Sulfide d Layers (LRR F)	eded to doc atrix, CS=Cove	ndicators are S5 - Sandy F S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete	icator or congrains; Local (Moist) not present declaration of Matrix Muck Mineral Gleyed Matrix d Matrix	mottle Mottle // // // // // // // // // // // // /	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1cm Mo A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc	For Problematic Soils Tuck (LRR I, J) Prairie Redox (LRR F, G, H) Furface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) Seed Vertic
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Description, D=Deportration, D=Deportr	mibe to the depth needletion, RM=Reduced Markix Color (Moist) Indicators (check the color strict the color	eded to docatrix, CS=Cove	ndicators are S5 - Sandy F S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F	icator or congrains; Local (Moist) not present Matrix Muck Mineral Matrix Dark Surface	mottle Mottle w tion: PL=Pe	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1cm Ma A16 - Cost F S7 - Dark Sa F16 - High F F18 - Reduct TF2 - Red F	For Problematic Soils ¹ uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic Parent Material
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Description, D=Depointration, D=	mibe to the depth new letion, RM=Reduced Markix Color (Moist) Dipedon istic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surface	eded to docatrix, CS=Cove	ndicators are S5 - Sandy F S6 - Stripped F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F	icator or co Grains; Loca (Moist) (Moist) not present Redox d Matrix Muck Minera Gleyed Matrix Dark Surface d Dark Surface	mottle Mottle w tion: PL=Pe	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1cm Me A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	For Problematic Soils ¹ uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick [Matrix Color (Moist) Dipedon istic en Sulfide d Layers (LRR F) uck (LRR FGH) ed Below Dark Surface Dark Surface	eded to docatrix, CS=Cove	ndicators are S5 - Sandy F S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	icator or congrains; Local (Moist) (Moist) not present Addition Matrix Muck Mineral Gleyed Matrix Dark Surfaced Depressions	mottle Mottle % t):	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1cm Me A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	For Problematic Soils ¹ uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outisde MLRA 72, 73) ced Vertic Parent Material
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-158n48w22-c1					
VEGETATION (e non-native	species.)							
Tree Stratum ((Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.	<u>Species (valine</u>	<u>70 00 01</u>	Dominaria	<u>ma.o.a.ao</u>						
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata:(B)					
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.	Total Cover =	0			$OBL spp. \qquad 0 \qquad x \mid = \qquad 0$ $EACW spp. \qquad 0 \qquad x \mid = \qquad 0$					
	Total Cover	0	OBL spp. 0							
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACUSED 70 \times 4 = 280					
1.	Ottatam (Flot size: To it: radias)				UPL spp. $\frac{70}{20}$ $\frac{7}{4}$ $\frac{200}{100}$					
2.										
3.					Total 100 (A) 410 (B)					
4.										
5.					Prevalence Index = B/A = 4.100					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.	Tatal Oscar				Dominance Test is > 50%					
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *					
					Morphological Adaptations (Explain) *					
Herb Stratum (Plot size: 5 ft. radius)	50	Υ	FACU	Problem Hydrophytic Vegetation (Explain) *					
2.	Poa pratensis Bromus inermis	20	<u> Т</u> Ү	UPL	* Indicators of hydric soil and wetland hydrology must be					
3.	Melilotus officinalis	15	<u>_</u> N	FACU	present, unless disturbed or problematic.					
4.	Sonchus arvensis	10	N	FAC	Definitions of Vegetation Strata:					
5.	Lotus comiculatus	5	N							
6	Trifolium hybridum	5	N	FACU	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.					NATIONAL AND					
15.	Tatal Causa	405			Woody Vines - All woody vines, regardless of height.					
	Total Cover =	105	_							
Moody Vino St	ratum (Plat aiza: 20 ft radius)									
1	ratum (Plot size: 30 ft. radius)									
2.				_						
3.					Hydrophytic Vegetation Present?N					
5.										
4.										
	Total Cover =	0								
Remarks: The upland vegetation is dominated by Kentucky bluegrass with a mix of forbs.										
Additional Remarks:										