WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R										Date: County:	07/29/14
Applicant:											Marshall
Investigators: NTT/KRG				Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit:	1130A			NWI Classification:						-	
	Depression				cal Relief:					Sample Point:	w-158n48w36-b1
Slope (%):	8 - 15%		Latitude: 48.4		Longitude:			Datum:		-	
		nditions on the site			ar? (If no, exp				□ No	Section:	
Are Vegetation Soil or Hydrology g							Are normal circumstances present?			Township:	
Are Vegetation		🖵 or Hydrology	Liturally pr	oblematic?			Yes	□No		Range:	Dir:
SUMMARY C									_		
Hydrophytic Vegetation Present?				Yes			Hydric Soils Present?				
Wetland Hydrology Present?				Yes			Is This Sampling Poin minated by Phalaris arundinacea and				
Remarks:	The wetland	l is a fresh wet me	adow located	d within a road	side ditch	and don	ninated by Pha	laris arundi	nacea and I	Elymus repen	S.
HYDROLOG	Y										
Wetland Hy	drology Indi	cators (Check all	that apply; N	linimum of on	e primary o	or two se	econdary requi	red):			
Primary:		· ·			. ,				Secondary:		
	A1 - Surface V				B11 - Salt C					B6 - Surface S	
	A2 - High Wat A3 - Saturatio				B13 - Aquat C1 - Hydrog						/egetated Concave Surface
	B1 - Water Ma				C1 - Hydrog C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sediment				C3 - Oxidize	ed Rhizos	pheres on Living	Roots (not till	· 🖬		
	B3 - Drift Dep				C4 - Preser	nce of Red	duced Iron	,		C9 - Saturation	Visible on Aerial Imagery
B4 - Algal Mat or Crust					C7 - Thin M		ice			D2 - Geomorp	
 B5 - Iron Deposits B7 - Inundation Visible on Aerial Imagery 					Other (Expl	ain)				D5 - FAC-Neut	
	B7 - Inundatio B9 - Water-St		agery							D7 - Frost-Hea	ved Hummocks (LRR F)
	Do - Water-Ot										
Field Observ	vations:										
		V	Deat		(in)						
Surface Water Present? Yes				n: <u>2</u>				Wetland Hydrology Present? Y			
Water Table Present? Yes				Depth: (in.)			· · · · · _				
Saturation Present? Yes Depth: (in.)											
					<u> (</u>)						
Describe Reco		tream gauge, monif	toring well, ae	rial photos, pro	evious insp	ections),	if available:				
Describe Reco Remarks:		tream gauge, monit has roughly two in	toring well, ae	rial photos, pro	evious insp	ections),	if available:				
Remarks:			toring well, ae	rial photos, pro	evious insp	ections),	if available:				
Remarks: SOILS	The wetland	I has roughly two in	toring well, ae nches of star	rial photos, pro nding water th	evious insp roughout.	·					
Remarks: SOILS Profile Descri	The wetland	I has roughly two in be to the depth ne	toring well, as nches of star eded to docu	rial photos, pro nding water th ment the indi	evious insp roughout. cator or co	nfirm the	e absence of ir				
Remarks: SOILS Profile Descri	The wetland	I has roughly two in	toring well, as nches of star eded to docu	rial photos, pro nding water th ment the indi	evious insp roughout. cator or co	nfirm the	e absence of ir				
Remarks: SOILS Profile Descri	The wetland	I has roughly two in be to the depth ne- etion, RM=Reduced Ma	toring well, as nches of star eded to docu	rial photos, pro nding water th ment the indi	evious insp roughout. cator or co	nfirm the	e absence of ir ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	I has roughly two in be to the depth ne- etion, RM=Reduced Ma Matrix	toring well, ae nches of star eded to docu atrix, CS=Covero	inial photos, pro- inding water th iment the indi	evious insp roughout. cator or co Grains; Locati	nfirm the ion: PL=Po Mottle	e absence of ir ore Lining, M=Matr	ix)	Taxtura		Pamarka
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The wetlanc	I has roughly two in be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu atrix, CS=Covero	ment the indi ding water the indi ad/Coated Sand of Color (I	Moist)	nfirm the ion: PL=Po Mottle %	e absence of ir ore Lining, M=Matr	ix)	Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	The wetlanc	I has roughly two in be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon ttic	eded to docu atrix, CS=Cover	ding water the ment the indi d/Coated Sand of Color (I dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	Moist) Moist) Mot present edox Matrix fucky Minera	nfirm the ion: PL=Po Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	: <u>Soils1</u> LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	The wetlanc	I has roughly two in be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch- ipedon ttic	eded to docu atrix, CS=Covern %	ding water the ment the indi ad/Coated Sand of Color (I Color (I S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	A series of the	nfirm the ion: PL=Po Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	The wetland iption (Descrintration, D=Deplet intration, D=Deplet i	I has roughly two in be to the depth ne- tion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon tic a Sulfide Layers (LRR F) ck (LRR FGH)	eded to docu atrix, CS=Covers	dirators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D	evious inspiroughout. cator or co Grains; Locati Moist) Moist) not present edox Matrix fucky Minera sileyed Matrix IMatrix ark Surface	nfirm the ion: PL=Pd Mottle %	e absence of ir ore Lining, M=Matr es Type	ix)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ced Vertic Parent Material	: <u>Soils¹</u> LRR F, G, H) NS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	The wetlance iption (Descrin Intration, D=Deple Intration, D=De	I has roughly two in be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (Ch ipedon tic 1 Sulfide Layers (LRR F) sk (LRR FGH) d Below Dark Surface	eded to docu atrix, CS=Covers	dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted	evious inspiroughout. cator or co Grains; Locati Moist) Moist) not present edox Matrix Jucky Minera Bleyed Matrix I Matrix I Matrix I Matrix I Matrix	nfirm the ion: PL=Pd Mottle %	e absence of ir ore Lining, M=Matr es Type	ix)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ed Vertic Parent Material Shallow Dark S	: <u>Soils¹</u> LRR F, G, H) NS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr NRCS Hydr U	The wetland iption (Descrintration, D=Deplet ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mud	I has roughly two in be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch- ipedon tic bulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eded to docu atrix, CS=Covern %	ding water the ment the indi ad/Coated Sand of Color (I Color (I S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	A surface expressions	nfirm the ion: PL=Po Mottle %	e absence of ir ore Lining, M=Matr es Type	ix)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ced Vertic Parent Material	: <u>Soils¹</u> LRR F, G, H) NS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

1.	inance Test Worksheet nber of Dominant Species that are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) ent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B) alence Index Worksheet
Species Name % Cover Dominant Ind.Status Dominant 1.	nber of Dominant Species that are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) ent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B) alence Index Worksheet % Cover of: Multiply by: OBL spp. 0 x 1 = 0 ACW spp. 70 x 2 = 140
Species Name % Cover Dominant Ind.Status Dominant 1.	nber of Dominant Species that are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B) ent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B) alence Index Worksheet % Cover of: Multiply by: OBL spp. 0 x 1 = 0 ACW spp. 70 x 2 = 140
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2.	Total Number of Dominant Species Across All Strata: 2 (B) ent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B) alence Index Worksheet
4.	Total Number of Dominant Species Across All Strata: 2 (B) ent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B) alence Index Worksheet
5.	ent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B) alence Index Worksheet
6. Percent 7. 8.	Multiply by: 0 OBL spp. 0 x 1 = 0 ACW spp. 70 x 2 = 140
7.	Multiply by: 0 OBL spp. 0 x 1 = 0 ACW spp. 70 x 2 = 140
8. Preva	% Cover of: Multiply by: OBL spp. 0 x 1 = 0 ACW spp. 70 x 2 = 140
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	OBL spp. 0 x 1 = 0 ACW spp. 70 x 2 = 140
	ACW spp. 70 x 2 = 140
Total Cover = 0 FA	FAC SDD. $0 \times 3 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft. radius) FA 1. L	ACU spp. 30 X 4 = 120 UPL spp. 0 X 5 = 0
2.	
3.	Total 100 (A) 260 (B)
4.	
5.	Prevalence Index = B/A = 2.600
6.	
7.	
8. Hydro	rophytic Vegetation Indicators:
9.	Rapid Test for Hydrophytic Vegetation
10.	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. Phalaris arundinacea 45 Y FACW	
2. Elymus repens 25 Y FACU	 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. Rumex stenophyllus 15 N FACW	
	nitions of Vegetation Strata:
5. Poa pratensis 5 N FACU	Tree
7.	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast 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.
Total Cover = <u>100</u>	
Woody Vine Stratum (Plot size: 30 ft. radius)	
2. 3.	Hudronbutio Verstation Pressnt2
5.	Hydrophytic Vegetation Present? Y
4.	
4. Total Cover = 0	
Remarks: The wetland vegetation is dominated by Phalaris arundinacea and Elymus repens	with various other facultative plant species.
Additional Remarks:	