## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant: Investigators:													
		L3R								Date:	07/30/14		
Investigators:	•									County:	Marshall		
Investigators: NTT/KRG				Subregion (MLRA or LRR): MLRA 56						State:	MN		
Soil Unit:	I20A						Classification:	· -					
	Depression				cal Relief:					Sample Point:	w-157n47w21-a1		
\ /	8 - 15%		ude: 48.408			-96.7150		Datum:					
		onditions on the site typ			ar? (If no, ex				□ No	Section:			
Are Vegetation			•	disturbed?		Are	normal circun	-	esent?	Township:			
Are Vegetation			urally prob	olematic?			Yes	□ No		Range:	Dir:		
SUMMARY O													
Hydrophytic \	•		Yes		_				Is Present?				
Wetland Hydi			Yes			<u> </u>	<del></del>			t Within A W	etland? <b>Yes</b>		
Remarks:	The wetland	d is a fresh wet meadov	v located v	within a road	dside ditch	and dom	linated by Elec	ocharis palu	stris.				
	-												
HYDROLOGY	Y												
Wetland Hyd	drology Ind	icators (Check all that	apply; Mir	nimum of on	e primary	or two see	condary requi	red):					
Primary:	•	·							Secondary:				
☑ A1 - Surface Water					B11 - Salt					B6 - Surface S			
	A2 - High Wa			□ B13 - Aquatic Fauna □ □ C1 - Hydrogen Sulfide Odor □ □ C2 - Dry Season Water Table □							<ul> <li>B8 - Sparsely Vegetated Concave Surface</li> <li>B10 - Drainage Patterns</li> <li>C3 - Oxidized Rhizospheres on Living Roots (tilled)</li> </ul>		
	A3 - Saturation B1 - Water M												
	B2 - Sedimen					zed Rhizosp	• 🗆	C8 - Crayfish E					
	B3 - Drift Dep	•				ence of Red		Nisible on Aerial Imagery					
	B4 - Algal Ma			□ C7 - Thin Muck Surface ☑							hic Position		
	B5 - Iron Dep				Other (Exp	olain)			☑	D5 - FAC-Neut			
		on Visible on Aerial Imagery tained Leaves	/						П	D7 - Frost-Hea	aved Hummocks (LRR F)		
	by - water-s	laineu Leaves											
Field Observ	vations:												
		V	Danth	2	(in )								
Surface Water		Yes ☑	Depth:		(in.)			Wetland F	lydrology I	Present?	Υ		
Water Table		Yes	Depth:		(in.)						<del></del>		
Saturation Pro	esent?	Yes □	Depth:		(in.)								
					<u> </u>								
Describe Reco	orded Data (s	stream gauge, monitoring	g well, aeria	al photos, pr	<u> </u>	pections), i	if available:						
Describe Reco		stream gauge, monitoring	•		evious insp		if available:						
Remarks:			•		evious insp		if available:						
Remarks:	The wetland	d is covered with rough	ly two inch	es of stand	evious insp ng water.	,							
Remarks:  SOILS Profile Descrip	The wetland	d is covered with rough	ly two inch	nes of standi	evious insponder.  ng water.  cator or co	onfirm the	absence of ir						
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Remarks:  SOILS Profile Descrip	The wetland	d is covered with rough ibe to the depth needed etion, RM=Reduced Matrix, 0	ly two inch	nes of standi	evious insponder.  ng water.  cator or co	onfirm the	e absence of in re Lining, M=Matr						
Remarks:  SOILS Profile Descrip (Type: C=Concen	The wetland	d is covered with rough ibe to the depth needed etion, RM=Reduced Matrix, G	ly two inch	nes of standinent the indi	evious insp ng water. cator or co Grains; Loca	onfirm the	e absence of in re Lining, M=Matr	ix)	Toyturo		Pomarke		
Remarks:  SOILS Profile Descrip	The wetland	d is covered with rough ibe to the depth needed etion, RM=Reduced Matrix, 0	ly two inch	nes of standi	evious insp ng water. cator or co Grains; Loca	onfirm the	e absence of in re Lining, M=Matr		Texture		Remarks		
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Remarks:  SOILS Profile Descrip (Type: C=Concen	The wetland	ibe to the depth needed etion, RM=Reduced Matrix  Color (Moist)	to docum CS=Covered	nes of standinent the indicated Sand (	evious insponder.  cator or control of contr	Mottle	e absence of in re Lining, M=Matr es Type	ix)	Texture		Remarks		
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Remarks:  SOILS Profile Descrip (Type: C=Concen  Depth (In.)	ption (Descriptration, D=Depl	ibe to the depth needed etion, RM=Reduced Matrix  Color (Moist)	to docum CS=Covered %	nes of standinent the indicated Sand (Coated Sand (Color (Coated Sand (Coate	evious inspong water.  cator or congrains; Location Moist)  not present	Mottle	e absence of in re Lining, M=Matr es Type	Location	Indicators f	or Problematic			
Remarks:  SOILS Profile Descrip (Type: C=Concen  Depth (In.)	ption (Description, D=Deplementation, D=Deplementation) ic Soil Field A1- Histosol	ibe to the depth needed etion, RM=Reduced Matrix  Color (Moist)  Indicators (check	to docum CS=Covered %	nes of standines o	evious inspong water.  cator or congrains; Loca  Moist)  not presented a congrains.	Mottle	e absence of in re Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils <sup>1</sup>		
Remarks:  SOILS Profile Descrip (Type: C=Concen	ption (Description, D=Deplementation, D=Deplementation)  ic Soil Field  A1- Histosol A2 - Histic Ep	ibe to the depth needed etion, RM=Reduced Matrix, Color (Moist)  Indicators (check bipedon	to docum CS=Covered %	coated Sand (Coated Sand (Coate	evious insponder.  cator or contract of co	Mottle:	e absence of in re Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup>		
Remarks:  SOILS Profile Descrip (Type: C=Concen	ption (Descriptration, D=Deplementation, D=Deplementation)  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black History	ibe to the depth needed etion, RM=Reduced Matrix, (Matrix Color (Moist)  Indicators (check sipedon etic	to docum CS=Covered	Color (  S5 - Sandy R S6 - Stripped F1 - Loamy N	evious inspong water.  cator or congrains; Loca  Moist)  not presented a matrix fucky Miner	mottle:   %	e absence of in re Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox ( urface (LRR G)	Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descrip (Type: C=Concen	ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	ibe to the depth needed etion, RM=Reduced Matrix  Matrix  Color (Moist)  Indicators (check sipedon stic n Sulfide	to docum CS=Covered	color (  Color (  Costed Sand (  Cos	evious inspong water.  cator or congrains; Loca  Moist)  not presented water.	mottle:   %	e absence of in re Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	c Soils <sup>1</sup>		
Remarks:  SOILS Profile Descrip (Type: C=Concen  Depth (In.)	ption (Description, D=Deplementation, D=Deplementation, D=Deplementation)  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge A5 - Stratified	ibe to the depth needed etion, RM=Reduced Matrix, (Matrix Color (Moist)  Indicators (check sipedon etic	to docum CS=Covered	Color (  S5 - Sandy R S6 - Stripped F1 - Loamy N	evious insponded water.  Cator or contract	Mottle:   %	e absence of in re Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	Soils <sup>1</sup> (LRR F, G, H)		
Remarks:  SOILS Profile Descrip (Type: C=Concen	ption (Descritration, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth needed etion, RM=Reduced Matrix, Color (Moist)  Indicators (check bipedon stic in Sulfide I Layers (LRR F)	to docum CS=Covered	color (  Color (  Color (  S5 - Sandy R  S6 - Stripped  F1 - Loamy R  F2 - Loamy G  F3 - Depleted	evious inspong water.  cator or congrains; Loca  Moist)  not presented waterix Mucky Miner Bleyed Matrix	Mottle:  w tion: PL=Poi	e absence of in re Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressions ed Vertic	E Soils <sup>1</sup> ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)		
Remarks:  SOILS Profile Descrip (Type: C=Concen	ption (Descriptration, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth needed etion, RM=Reduced Matrix, (Matrix Color (Moist)  Indicators (check in Sulfide I Layers (LRR FGH) ed Below Dark Surface park Surface	to docum CS=Covered	color (  Color (  Color (  S5 - Sandy R  S6 - Stripped  F1 - Loamy R  F2 - Loamy R  F3 - Depleted  F6 - Redox D  F7 - Depleted  F8 - Redox D	evious inspections in a cator or constraint in a cator or cat	Mottle:  w tion: PL=Poi	e absence of ingre Lining, M=Matres  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressions ed Vertic Parent Material	E Soils <sup>1</sup> ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)		
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-157n47w21-a1
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~					
VEGETATIO	```	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Species Name</u>	% Cover	Dominant	<u>ma.Status</u>	Dominance rest worksneet
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					Number of Bominant Species that are OBL, 1 ACVV, of 1 AC(A)
4.					Total Number of Deminant Species Across All Strate: 1 (B)
					Total Number of Dominant Species Across All Strata:1 (B)
5.					Decrease of Decrease Organics That Are ODL 5400M as 5400 400 00/ (A/D)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					Dravalance Inday Workshoot
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 60
	Total Cover =	0	FACW spp. 10		
					FAC spp. $0 \times 3 = 0$
	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 \times 4 = 0$
1.					UPL spp. $0 \times 5 = 0$
2.					
3.					Total 70 (A) 80 (B)
4.					
5.					Prevalence Index = B/A = 1.143
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 *
	rotal Gover		<del>_</del>		Morphological Adaptations (Explain) *
Horb Stratum	(Plot pize: 5 ft radius)				
1.	(Plot size: 5 ft. radius)	50	V	OBL	Problem Hydrophytic Vegetation (Explain) *
	Eleocharis palustris		<u> </u>		* Indicators of hydric soil and wetland hydrology must be
2.	Phalaris arundinacea	10	N	FACW	present, unless disturbed or problematic.
3.	Typha angustifolia	10	N	OBL	·
4.					Definitions of Vegetation Strata:
5.					_
6					<b>Tree -</b> 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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	70			
	rotal Gover =	10	<del>_</del>		
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.	tratain (Fiot size: 50 ft. radius)				
2.					
3.					Hydrophytic Vocatation Present?
5.					Hydrophytic Vegetation Present?Y
_					
4.	Total Cavar				
D	Total Cover =	0	. 1		
Remarks:	•		alustris wit	th some I	ypha angustifolia and Phalaris arundinacea mixed throughout. Vegetation is sparse
	because of standing water covering much of	the area.			
Additional F	Remarks:				
1					