## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/24/14	
Applicant:										County: State:	Pennington	
Investigators			Subregion (MLRA or LRR): MLRA 56						MN			
Soil Unit:	170A				I D - I' - (-		I Classification	:			454544420 bb4	
Landform:	Talf         Local Relief: LL         Sample Point: u-154n44w33-bb1           0 - 2%         Latitude: 48.118554         Longitude: -96.311553         Datum:											
Slope (%):	0 - 2%							Datum:	□ No	Coation		
		nditions on the site typic			al : (If no, exp					Section:		
Are Vegetation			•	disturbed?		Are	e normal circun	-	esent?	Township:	Dim.	
Are Vegetation			rally proi	blematic?				□ No		Range:	Dir:	
			Ma					Hudria Cai	la Dragant?	Voo		
Hydrophytic Vegetation Present? Wetland Hydrology Present?			No	No					ls Present?	res It Within A W	etland? <b>No</b>	
				ad field domi	nated by r	oosturo (	raccos The vo					
Remarks: The upland sample point is located in a hayed field dominated by pasture grasses. The vegetation has been hayed, but is still identifiable.												
HYDROLOG	Y											
		antono (Obsali all that a	and a NA:					,, , , , , , , , , , , , , , , , , , ,				
_	•	cators (Check all that a	ірріу; ійіі	nimum of on	e primary	or two s	econdary requi	rea):	Cocondor "			
<u>Primary:</u> □	<u>:</u>	Nater			B11 - Salt	Crust			Secondary:	B6 - Surface S	Soil Cracks	
	A2 - High Wat				B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturatio				C1 - Hydro					B10 - Drainage		
	B1 - Water Ma				C2 - Dry S						Rhizospheres on Living Roots (tille	
	B2 - Sediment	•					spheres on Living	Roots (not till	• 📙	C8 - Crayfish I		
	B3 - Drift Dep B4 - Algal Mat				C4 - Prese C7 - Thin N		duced Iron			D2 - Geomorp	n Visible on Aerial Imagery	
	B5 - Iron Depo				Other (Exp		ac <del>c</del>			D5 - FAC-Neu		
		n Visible on Aerial Imagery		_	Othor (Exp	iaiii,					aved Hummocks (LRR F)	
	B9 - Water-St										,	
Field Observ	vations:											
Surface Wate	er Present?	Yes	Depth:		(in.)			Wotland L	lydrology l	Drocont?	N	
Water Table	Present?	Yes	Depth:		(in.)			vvetiana i	iyarology i	r i esciit :		
Saturation Present? Yes Depth: (in.)												
		162	рериі.		<sub>-</sub> (m.)							
Describe Reco	orded Data (s				• • •	ections),	if available:					
	· · · · · · · · · · · · · · · · · · ·	tream gauge, monitoring	well, aeri	al photos, pre	• • •	ections),	if available:					
Describe Reco	· · · · · · · · · · · · · · · · · · ·		well, aeri	al photos, pre	• • •	ections),	if available:					
	· · · · · · · · · · · · · · · · · · ·	tream gauge, monitoring	well, aeri	al photos, pre	• • •	ections),	if available:					
Remarks:  SOILS Profile Descri	No indicator	tream gauge, monitoring s of wetland hydrology we to the depth needed	well, aeri	al photos, preserved.	evious insp	onfirm th	e absence of ir					
Remarks:  SOILS Profile Descri	No indicator	tream gauge, monitoring s of wetland hydrology v	well, aeri	al photos, preserved.	evious insp	onfirm th	e absence of ir					
Remarks:  SOILS Profile Descri	No indicator	tream gauge, monitoring is of wetland hydrology we to the depth needed etion, RM=Reduced Matrix, CS	well, aeri	al photos, preserved.	evious insp	onfirm th	e absence of ir ore Lining, M=Matı					
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	tream gauge, monitoring s of wetland hydrology w	well, aeri were obs to docun S=Covered	al photos, preserved.  nent the indicated Sand (	evious insp cator or co Grains; Local	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)				
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	tream gauge, monitoring s of wetland hydrology w	well, aeri were obs to docun S=Covered	al photos, preserved.	evious insp cator or co Grains; Local	onfirm th	e absence of ir ore Lining, M=Matı		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	No indicator iption (Descri	tream gauge, monitoring s of wetland hydrology w	well, aeri were obs to docum S=Covered  % 100	nent the indi	cator or co	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Matr es Type	Location	SCL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	tream gauge, monitoring s of wetland hydrology w	well, aeri were obs to docun S=Covered	al photos, preserved.  nent the indicated Sand (	cator or co	onfirm th tion: PL=P	e absence of ir ore Lining, M=Matr	rix)			Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	No indicator iption (Descri	tream gauge, monitoring s of wetland hydrology w	well, aeri were obs to docum S=Covered  % 100	nent the indi	cator or co	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Matr es Type	Location	SCL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	No indicator iption (Descri	tream gauge, monitoring s of wetland hydrology w	well, aeri were obs to docum S=Covered  % 100	nent the indi	cator or co	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Matr es Type	Location	SCL		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18	No indicator iption (Descri	tream gauge, monitoring s of wetland hydrology w	well, aeri were obs  to docun S=Covered  100 95	nent the indi	cator or co Grains; Local	Mottle 5	e absence of ir ore Lining, M=Matr es Type	Location	SCL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18	No indicator iption (Descri	tream gauge, monitoring s of wetland hydrology w	well, aeri were obs  to docun S=Covered  100 95	cal photos, preserved.  nent the individual Coated Sand Coated Sand Color (Including Sand Sand Sand Sand Sand Sand Sand Sand	cator or co Grains; Local	Mottle 5	e absence of ir ore Lining, M=Matr es Type C	Location	SCL LFS	or Problematic		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18	No indicator  Iption (Descriptration, D=Depleted Property of the property of t	tream gauge, monitoring s of wetland hydrology version, RM=Reduced Matrix, CS  Matrix Color (Moist)  2/1  6/1  Indicators (check he	well, aeri were obs  to docun S=Covered  100 95  ere if ind	cal photos, preserved.  The individual of the in	cator or co Grains; Local Moist) 5/8	Mottle 5	e absence of ir ore Lining, M=Matr es Type C	Location	SCL LFS Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	tream gauge, monitoring s of wetland hydrology w	well, aeri were obs  to docum S=Covered  % 100 95  ere if ind	cal photos, preserved.  The individual content the individual conten	cator or co Grains; Local Moist)  5/8  not presented ox Matrix	Mottle %	e absence of ir ore Lining, M=Matr es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	tream gauge, monitoring s of wetland hydrology website to the depth needed etion, RM=Reduced Matrix, CS  Matrix Color (Moist)  2/1 6/1  Indicators (check head)	well, aeri were obs  to docun S=Covered  100 95  ere if ind	Color (I Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M	cator or co Grains; Local Moist)  5/8  not presentedox Matrix Mucky Minera	Mottle %  5  tion: PL=P	e absence of ir ore Lining, M=Matr es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox ( urface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	tream gauge, monitoring s of wetland hydrology w	well, aeri were obs  to docum S=Covered  95  ere if ind	cal photos, preserved.  The individual content the individual conten	cator or co Grains; Local Moist)  5/8  not presented with the content of the cont	Mottle %  5  tion: PL=P	e absence of ir ore Lining, M=Matr es Type C	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	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	tream gauge, monitoring s of wetland hydrology website to the depth needed etion, RM=Reduced Matrix, CS  Matrix Color (Moist)  2/1  6/1  Indicators (check head pedon attic in Sulfide Layers (LRR F)	well, aeri were obs  to docun S=Covered  100 95  ere if ind	color (Inception of the India) Coated Sand (Inception of the India) Coated Sand (Inception of the Inception	cator or co Grains; Local Moist)  5/8  not presented ox Matrix Mucky Mineral Matrix I Matrix	Mottle %  5  tion: PL=P	e absence of ir ore Lining, M=Matr es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic	c Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	tream gauge, monitoring s of wetland hydrology website to the depth needed etion, RM=Reduced Matrix, CS  Matrix Color (Moist)  2/1 6/1  Indicators (check head to be sufficional to constitication Sulfide Layers (LRR F) ck (LRR FGH)	well, aeri were obs to docum S=Covered    %	cal photos, preserved.  The individual content the individual conten	cator or co Grains; Local Moist)  5/8  not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface	mottle which was all and a second confirm the tion: PL=P  Mottle which was a second confirm the tion: PL=P  Mottle which was a second confirm the tion: PL=P	e absence of ir ore Lining, M=Matr es Type C	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 Depression Plains Material	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	tream gauge, monitoring s of wetland hydrology website to the depth needed etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  6/1  Indicators (check head)  ipedon  itic n Sulfide Layers (LRR F)  ck (LRR FGH) d Below Dark Surface	well, aeri were obs  to docun S=Covered    %	cal photos, preserved.  Color (Included Sand Color)  Solve Sandy Reserved Sand Sand Color)  Solve Sandy Reserved Sand Sand Color (Included Sand Color)  Solve Sandy Reserved Sand Sand Color (Included Sand Color)  Solve Sandy Reserved Sand Color (Included Sand Color)  Solve	cator or co Grains; Local Moist)  5/8  not presented with the content of the cont	mottle which was all and a second confirm the tion: PL=P  Mottle which was a second confirm the tion: PL=P  Mottle which was a second confirm the tion: PL=P	e absence of ir ore Lining, M=Matr es Type C	Location	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 Depression ced Vertic	C Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-18  NRCS Hydr	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	tream gauge, monitoring s of wetland hydrology website to the depth needed etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  6/1  Indicators (check head to be a compared to be a compare	well, aeri were obs  to docum S=Covered    %	color (Inception of the India) Coated Sand (Ince	cator or co Grains; Local Moist)  5/8  not presented with the content of the cont	Mottle %  5  t):	e absence of ir ore Lining, M=Matr es Type	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	C Soils <sup>1</sup> (LRR 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: u-154n44w33-bb1		
VEGETATIO	N (Species identified in all uppercase a	re non-native	species.)				
	(Plot size: 30 ft. radius)	ro non nauvo	<i>,</i> opooloo.,				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet		
1.							
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)		
3. 4.					Total Number of Dominant Species Across All Strata: 2 (B)		
<del>4.</del> 5.					Total Number of Dominant Species Across All Strata(D)		
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.	Tatal Ossan				OBL spp. <u>5</u> x 1 = <u>5</u>		
	Total Cover =	. 0	_		Total % Cover of:         Multiply by:           OBL spp.         5         X 1 =         5           FACW spp.         10         X 2 =         20           FAC spp.         0         X 3 =         0           FACU spp.         80         X 4 =         320           LIPL spp.         0         X 5 =         0		
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACUEDD 80 $\times 4 - \frac{320}{320}$		
1.	otratum (Fiot size: 13 ft. radius)				UPL spp. $0   X   5 = 0$		
2.							
3.					Total <u>95</u> (A) <u>345</u> (B)		
4.							
5.					Prevalence Index = B/A = 3.632		
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 *		
					Morphological Adaptations (Explain) *		
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *		
1.	Poa pratensis	50	Y	FACU			
2.	Lotus corniculatus	25	Y	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3. 4.	Phalaris arundinacea	10	N N	FACW OBL	Definitions of Vegetation Strata:		
4. 5.	Carex pellita  Cirsium arvense	5 5	N	FACU	Definitions of Vegetation Strata.		
6	Gristam arvense			17.00	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.					III All harbassaya (nan waada) nlanta ragardlaga af sina		
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 =	95					
Woody Vine St	ratum (Plot size: 30 ft. radius)						
1.							
2.					Hadron badia Wanadatian Busando N		
3. 5.					Hydrophytic Vegetation Present? N		
11	Total Cover =	0					
Remarks:			egrass an	d bird's fo	ot trefoil. The vegetation has been hayed in the area, but is still identifiable.		
Additional F	Remarks:						