## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/24/14							
Applicant:							County:	Pennington										
Investigators	<u> </u>				Subregio	n (MLRA	State:	MN										
Soil Unit:	I1A	_			I Classification:													
Landform:	Talf				cal Relief:					Sample Point	u-154n44w33-cc1							
Slope (%):	0 - 2%		ude: 48.12		Longitude:			Datum:										
Are climatic/h	hydrologic co	nditions on the site typ	ical for thi	s time of yea	ar? (If no, ex	olain in rema	arks)	Yes	□ No	Section:								
Are Vegetation	on 🛭 Soil	□, or Hydrology □sig	gnificantly	disturbed?		Are	e normal circun	nstances pro	esent?	Township:								
Are Vegetation	on 🛭 Soil	□, or Hydrology □at	turally prol	blematic?			Yes	□ No		Range:	Dir:							
SUMMARY C	OF FINDINGS	6																
Hydrophytic \	Vegetation P	resent?	No					Hydric Soi	Is Present?	Yes								
Wetland Hyd	_		No		•			Is This Sar	mpling Poin	t Within A W	etland? <b>No</b>							
Remarks:		sample point is located	d in a have	ed field domi	nated by r	oasture d	grasses.The ve											
	•		, and the second		, ,					•								
<b>HYDROLOG</b>	Υ																	
		inators (Chaok all that	opply: Mir	oimum of on	o primary	or two o	ooondory roqui	rad).										
_	•	icators (Check all that	apply; IVIII	nimum of on	e primary	or two se	econdary requi	rea):	Socondon.									
<u>Primary:</u> □	<u>:</u>	Nator			B11 - Salt	Cruct			Secondary:	B6 - Surface S	Coil Cracks							
	A2 - High Wa			B13 - Aqua				Vegetated Concave Surface										
	A3 - Saturatio			☐ C1 - Hydrogen Sulfide Odor ☐							e Patterns							
	B1 - Water Ma	arks			C2 - Dry S	eason Wa	ater Table			C3 - Oxidized	Rhizospheres on Living Roots (tilled							
	B2 - Sedimen	•					spheres on Living	Roots (not till	<b>€</b> □	C8 - Crayfish I								
	□ B3 - Drift Deposits □ C4 - Presence of Reduced Iron □ C9 - Saturation Visible									n Visible on Aerial Imagery								
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp D5 - FAC-Neu								
	B5 - Iron Depo	วรแร n Visible on Aerial Imagery	M		Other (Exp	nain)					aved Hummocks (LRR F)							
		0 .	у						_	D1 - 11031-1168	avea Hammocks (EKK 1)							
□ B9 - Water-Stained Leaves																		
Field Observ	vations:																	
Surface Water Present? Yes   Depth: (in.)																		
		Yes	Depth:		(in.)			Wetland F	łydrology i	Present?	N							
		Yes	Depth:		(in.)													
	•	tream gauge, monitorin	g well, aeri	al photos, pre		ections),	if available:											
Describe Reco	•		g well, aeri	al photos, pre		ections),	if available:											
Remarks:	•	tream gauge, monitorin	g well, aeri	al photos, pre		ections),	if available:											
Remarks:	No indicator	stream gauge, monitorings s of wetland hydrology	g well, aeri were obs	al photos, preerved.	evious insp	,												
Remarks:  SOILS Profile Descri	No indicator	stream gauge, monitorings s of wetland hydrology be to the depth needed	g well, aeri	al photos, preserved.	evious insponent	onfirm th	e absence of ir											
Remarks:  SOILS Profile Descri	No indicator	stream gauge, monitorings s of wetland hydrology	g well, aeri	al photos, preserved.	evious insponent	onfirm th	e absence of ir											
Remarks:  SOILS Profile Descri	No indicator	stream gauge, monitorings s of wetland hydrology be to the depth needed etion, RM=Reduced Matrix, 0	g well, aeri	al photos, preserved.	evious insponent	onfirm the	e absence of ir ore Lining, M=Matr											
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	stream gauge, monitoring s of wetland hydrology be to the depth needed etion, RM=Reduced Matrix, G	g well, aeri v were obs d to docun	al photos, preserved.  nent the indicated Sand Control	evious insp cator or co Grains; Loca	onfirm the	e absence of in ore Lining, M=Matr	rix)	- Tankuma		Damarka							
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	tream gauge, monitoring s of wetland hydrology be to the depth needed etion, RM=Reduced Matrix, Matrix Color (Moist)	g well, aeri v were obs d to docun CS=Covered	al photos, preserved.	evious insp cator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks							
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8	No indicator	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1	g well, aeri v were obs d to docun CS=Covered	al photos, preserved.  nent the indicated Sand Color (I	cator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	SCL		Remarks							
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1	g well, aeri v were obs d to docun CS=Covered	al photos, preserved.  nent the indicated Sand Control	cator or co Grains; Loca	onfirm the	e absence of in ore Lining, M=Matr	rix)			Remarks							
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18	No indicator iption (Descriptration, D=Depleter) Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1  6/3	g well, aeri v were obs d to docun CS=Covered  % 100 80	al photos, preserved.  nent the indicated Sand Control (Inc.)  Color (Inc.)  Hue_10YR	cator or co Grains; Loca Moist)	Mottle 20	e absence of ir ore Lining, M=Matr es Type	Location	SCL		Remarks							
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18	No indicator	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1  6/3	g well, aeri v were obs d to docun CS=Covered  % 100 80	al photos, preserved.  nent the indicated Sand Color (I	cator or co Grains; Loca Moist)	Mottle 20	e absence of interest Lining, M=Matro	Location	SCL SCL	or Problematic								
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18  NRCS Hydr	No indicator iption (Descriptration, D=Depleter) Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1  6/3	g well, aeri v were obs d to docun CS=Covered  % 100 80	al photos, preserved.  nent the indicators are negative.	cator or co Grains; Loca Moist) 6/8	Mottle 20	e absence of interest Lining, M=Matro	Location	SCL SCL	or Problemation								
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-8 8-18	No indicator iption (Description, D=Deplementation, D=Deplementati	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1  6/3  Indicators (check	g well, aeri v were obs d to docun CS=Covered  % 100 80	al photos, preserved.  nent the indicated Sand Control (Inc.)  Color (Inc.)  Hue_10YR	cator or constant process of presented ox	Mottle 20	e absence of interest Lining, M=Matro	Location	SCL SCL Indicators f A9 - 1 cm M	or Problemation uck (LRR I, J) Prairie Redox	c Soils <sup>1</sup>							
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  NRCS Hydr	No indicator iption (Descriptration, D=Deplementation, D=Deplement	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1  6/3  Indicators (check ipedon	g well, aeri v were obs d to docun CS=Covered  % 100 80	al photos, preserved.  nent the indicators are not served.	cator or co Grains; Loca Moist) 6/8 not presented	Mottle % 20 t):	e absence of interest Lining, M=Matro	Location	SCL SCL Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J)	c Soils <sup>1</sup> (LRR F, G, H)							
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  NRCS Hydr	No indicator iption (Descriptration, D=Deplete Intration, D=Deplete Intra	be to the depth needed etion, RM=Reduced Matrix.  Matrix Color (Moist)  2/1 6/3  Indicators (check ipedon etic.)	g well, aeri v were obs d to docun CS=Covered  % 100 80	al photos, preserved.  nent the indice //Coated Sand Coated Sand C	cator or co Grains; Loca Moist) 6/8 oot presented ox Matrix lucky Miner	Mottle  Mottle  20  t):	e absence of interest Lining, M=Matro	Location	SCL SCL SCL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (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.)  0-8  8-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth needed etion, RM=Reduced Matrix.  Color (Moist)  2/1 6/3  Indicators (check ipedon stic in Sulfide Layers (LRR F)	g well, aeri v were obs d to docun CS=Covered    %	al photos, preserved.  nent the indicators and Color (Incompared Sand Color)  Color (Incompared Sand Color)  Solution Sand Color (Incompared Sand Color)  Solution Sand Color (Incompared Sand Color)  Solution Sandy Research Sandy Re	cator or co Grains; Loca Moist)  6/8  not presented with the content of the conte	Mottle  Mottle  20  t):	e absence of interest Lining, M=Matro	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 Depression ed Vertic	c Soils <sup>1</sup> (LRR F, G, H)							
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  0-8  8-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur	be to the depth needed etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  6/3  Indicators (check ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH)	g well, aeri v were obs d to docun CS=Covered    %	al photos, preserved.  Color (I  Hue_10YR  icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D	cator or contract of present of p	mottle which was all and a second confirm the tion: PL=Plead to th	e absence of interest Lining, M=Matro	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic arent 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.)  0-8  8-18  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 Mu A11 - Deplete	be to the depth needed etion, RM=Reduced Matrix  Color (Moist)  2/1  6/3  Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	g well, aeri v were obs d to docun CS=Covered    %	al photos, preserved.  The ent the indication of	cator or constant process of the constant present pres	mottle which was all and a second confirm the tion: PL=Plead to th	e absence of interest Lining, M=Matro	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S	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-cc1				
					•				
<b>VEGETATION</b>	(Species identified in all uppercase	are non-native	species.)						
Tree Stratum (	Plot size: 30 ft. radius)								
	<u>Species Name</u>	<u>% Cover</u>	<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:(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.					OBL spp. 0				
	Total Cover	= 0		FACW spp. $\underline{\qquad}$ $\times$ 2 = $\underline{\qquad}$ $\underline{\qquad}$					
					FAC spp. $\underline{\qquad}$ $X 3 = \underline{\qquad}$				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp100 x $4 =400$				
1.					UPL spp 0				
2.									
3.					Total 100 (A) 400 (B)				
4.									
5.					Prevalence Index = B/A = 4.000				
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 (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Dactylis glomerata	35	Y	FACU					
2.	Lotus corniculatus	35	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Festuca arundinacea	15	N	FACU	present, unless disturbed or problematic.				
4.	Poa pratensis	10	N	FACU	Definitions of Vegetation Strata:				
5.	Trifolium hybridum	5	N	FACU					
6		1			Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.		1			height (DBH), regardless of height.				
8.		1							
9.	,	1			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.		<del></del>							
14.									
15.					Woody Vines - All woody vines, regardless of height.				
10.	Total Cover	= 100							
	Total Cover	_ 100							
Woody Vino St	ratum (Plot size: 30 ft. radius)								
1	Tatum (Flot Size. 30 it. Tadius)								
2.									
3.					Hydrophytic Vegetation Present? N				
5.					Hydrophytic vegetation Fresents N				
4.	<u> </u>								
4.	Total Cover	= 0							
Domarka:			o and hird	's foot trof	oil. The vegetation has been hayed in the area, but is still identifiable.				
Remarks:	The upland sample point is dominated by t	nchard grass	s and bird	S loot tren	on. The vegetation has been hayed in the area, but is still identifiable.				
Additional Remarks:									