## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:										Date: County:	09/26/14	
Applicant:											Pennington	
Investigators	<u> </u>					Subregion (MLRA or LRR): MLRA 56					MN	
Soil Unit: Landform:	I69A Talf			_	ool Boliof:		I Classification:	·		Comple Deint	u 152n44w2 a1	
Slope (%):	0 - 2%	Latitudo	: 48.10		cal Relief: Longitude:		1367	Datum:		Sample Point:	u-153n44w3-g1	
								✓ Patum.	□ No	Section:		
Are climatic/hydrologic conditions on the site typical for this time of year? (In the Are Vegetation □ Soil □, or Hydrology □ significantly disturbed?						Are normal circumstances present?						
Are Vegetation		□, or Hydrology □atura		/ (1)	✓ Yes	□ No	ooont.	Township: Range:	Dir:			
SUMMARY C			J				00	- 110		i tali igo i		
Hydrophytic \			No					Hydric Soil	ls Present?	No		
Wetland Hydrology Present?				No			Is This Sampling Poin				etland? <b>No</b>	
Remarks:	The upland	sample point is located ir	n a sma	II grassland	buffer are	a betwee	en a fresh wet r	meadow and	d a disked v	vheat field.		
HYDROLOG <sup>*</sup>	Υ											
		cators (Check all that ap	nlv: Mi	nimum of on	e nrimary	or two s	econdary requi	red)•				
Primary:		oators (oncor all that ap	ριy, iviii		c primary	or two s	coordary requi	100).	Secondary:			
	A1 - Surface \			B11 - Salt	Crust				B6 - Surface S	oil Cracks		
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturatio B1 - Water Ma				C1 - Hydro C2 - Dry S					B10 - Drainage	e Patterns Rhizospheres on Living Roots (till	llod)
	B2 - Sedimen						spheres on Living	Roots (not till	€ □	C8 - Crayfish E		ieu)
	B3 - Drift Dep	•			C4 - Prese	nce of Re	duced Iron	(1100		•	Nisible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp		
	B5 - Iron Depo	osits n Visible on Aerial Imagery			Other (Exp	lain)				D5 - FAC-Neut	tral Test aved Hummocks (LRR F)	
	B9 - Water-St									D1 - F1051-F162	aved Hullillocks (LRR F)	
Field Observ	vations:											
Surface Wate	er Present?	Yes	Depth:		(in.)			Watland L	lydrology l	Brocont?	N	
Water Table	Present?	Yes	Depth:		(in.)			welland r	lydrology l	riesenti	<u>N</u>	
Saturation Pr	resent?	Saturation Present? Yes   Depth: (in.)										
					. ` '							
Describe Reco	orded Data (s	tream gauge, monitoring w	ell, aeri			ections),	if available:					
Describe Reco	<u>`</u>	stream gauge, monitoring was of wetland hydrology was		al photos, pre		ections),	if available:					
Remarks:	<u>`</u>			al photos, pre		ections),	if available:					
Remarks:	No indicator	rs of wetland hydrology w	ere obs	al photos, preserved.	evious insp	•						
Remarks:  SOILS Profile Descri	No indicator	be to the depth needed to	ere obs	al photos, preserved.	evious insponent	onfirm th	e absence of in					
Remarks:  SOILS Profile Descri	No indicator	rs of wetland hydrology w	ere obs	al photos, preserved.	evious insponent	onfirm th	e absence of in					
Remarks:  SOILS Profile Descri	No indicator	be to the depth needed to	ere obs	al photos, preserved.	evious insponent	onfirm th	e absence of in ore Lining, M=Matr					
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth needed to etion, RM=Reduced Matrix	ere obs	erved.  nent the indicated Sand Coated	evious insp cator or co Grains; Loca	onfirm th	e absence of in ore Lining, M=Matr	rix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth needed to	o docun Covered	al photos, preserved.	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator iption (Descri	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1	o docun Covered	nent the indicated Sand Color (I	cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	rix)	SCL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10	No indicator	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1	o docun Covered	erved.  nent the indicated Sand Coated	cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr es Type	Location			Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10	No indicator iption (Descri	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1	o docun Covered	nent the indicated Sand Color (I	cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18	No indicator iption (Descri	be to the depth needed to etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  5/4	% 100 90	cal photos, preserved.  nent the indicated Sand Color (Inches 10 or 10 o	cator or co Grains; Loca Moist)	Mottl %	e absence of in ore Lining, M=Matr es Type	Location	SCL		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18	No indicator iption (Descri	be to the depth needed to etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  5/4	% 100 90	nent the indicated Sand Color (I	cator or co Grains; Loca Moist)	Mottl %	e absence of infore Lining, M=Matr	Location	SCL LFS	or Problematic		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18	No indicator iption (Descri	be to the depth needed to etion, RM=Reduced Matrix.  Matrix  Color (Moist)  2/1  5/4	% 100 90 re if ind	cerved.  nent the indication of the content of the indication of t	cator or co Grains; Loca Moist) 5/6	Mottl %	e absence of infore Lining, M=Matr	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.) 0-10 10-18  NRCS Hydr	No indicator iption (Descriptration, D=Depleted Property of the Contract of th	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix Color (Moist)  2/1  5/4  Indicators (check he	% 100 90 re if ind	cal photos, preserved.  The indicator of	cator or co Grains; Loca Moist)  5/6  not presented ox Matrix	Mottl % 10 ti):	e absence of infore Lining, M=Matr	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.) 0-10 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  5/4  Indicators (check he ipedon etic	% 100 90 re if ind	Color (I Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M	cator or contract of presented ox Matrix lucky Miner	mottl  Mottl  10  ti):	e absence of infore Lining, M=Matr	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 Descri (Type: C=Concer  Depth (In.) 0-10 10-18  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  5/4  Indicators (check he ipedon stic on Sulfide	% 100 90 re if ind	cal photos, preserved.  The indicators are respectively.  Solor (Included Sand Color)  Color (Included Sand Color)	cator or constant process of the constant present pres	mottl  Mottl  10  ti):	e absence of infore Lining, M=Matr	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.) 0-10 10-18  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 to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  5/4  Indicators (check he ipedon etic	% 100 90 re if ind	Color (I Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M	cator or co Grains; Loca Moist)  5/6  not presented ox Matrix Sleyed Matrix Sleyed Matrix Matrix	mottl  Mottl  Mottl  10  t):	e absence of infore Lining, M=Matr	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 Depressio	Soils <sup>1</sup> LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  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 Mur A11 - Deplete	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  5/4  Indicators (check he ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	% 100 90 re if ind	cal photos, preserved.  The indicators are respectively.  Color (Include the indicators are respectively.)  Solve the indicator of the indicat	cator or contract of present of p	mottl  Mottl  Mottl  10  t):	e absence of infore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	E Soils <sup>1</sup> ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  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 A12 - Thick D	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  5/4  Indicators (check he ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	% 100 90 re if ind	cal photos, preserved.  Color (I  Hue_10YR  Color (I  Hue_10YR  S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or contract of present of p	Mottl % 10 t):	e absence of infore Lining, M=Matrees  Type  C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc 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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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18  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 Mur A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  5/4  Indicators (check he dipedon etic in Sulfide Layers (LRR F) et (LRR FGH) de Below Dark Surface eucky Mineral lucky Peat or Peat (LRR G, Hecky Peat or Peat (LRR F)	% 100 90 re if ind	cal photos, preserved.  Color (I  Hue_10YR  Color (I  Hue_10YR  S5 - Sandy R  S6 - Stripped F1 - Loamy M F2 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or contract of present of p	Mottl % 10 t):	e absence of infore Lining, M=Matrees  Type  C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	E Soils <sup>1</sup> ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	sent,
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-153n44w3-g1
VEGETATION	、 .	are non-native	species.)		
Tree Stratum (	Plot size: 30 ft. radius) <u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	<u>Species Name</u>	<u> ∕₀ Cover</u>	Dominant	<u>IIId.Status</u>	Dominance rest worksheet
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 3 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0
	Total Cover =	= 0			FACW spp. 0
Combiner/Charth	Otrations (Diet sines, 45 ft, redice)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)	1			$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					X 3 =
3.					Total 110 (A) 440 (B)
4.					
5.					Prevalence Index = B/A = 4.000
6.	<u></u>				
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) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Poa pratensis	35	<u>Y</u>	FACU	<b>-</b>
2.	Trifolium hybridum	25	Y	FACU	
3.	Melilotus officinalis	25	Y N	FACU	
4. 5.	Symphyotrichum ericoides	10 5	N N	FACU FACU	Definitions of Vegetation Strata:
6	Cirsium arvense Solidago altissima	5 5	N N	FACU	
7.	Taraxacum officinale	<u>5</u>	N	FACU	<b>-</b>
8.	raraxacam ememaie			17100	
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 =	= 110	_		
Woody Vine Sti	ratum (Plot size: 30 ft. radius)				
1.					
2.					Hydrophytic Verstation Present?
3. 5.					Hydrophytic Vegetation Present? N
4.	<u> </u>				
4.	Total Cover =	= 0			
Remarks:	The upland sample point is dominated by K		egrass ald	sike clove	er, and sweet clover.
rtomanto.	The apiana sample point is definitated by it	oritability bra	ogrado, an		si, and ewest sieven
Additional R	emarks:				
Additional N	omano.				