## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	-									Date:	08/23/14	
Applicant:										County:	Pennington	
Investigators	<u> </u>			Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	IGp						Classification:					
Landform:	Depression		40.455		cal Relief:		200			Sample Point	w-154n44w18-f1	
Slope (%):	3 - 7%		48.155			-96.3582		Datum:				
		nditions on the site typica			ar'? (If no, exp				□ No	Section: Township:		
Are Vegetation ☐ Soil ☐, or Hydrology ☐significantly disturbed?							Are normal circumstances present?					
Are Vegetation		□, or Hydrology □atura	ally prob	lematic?			Yes	□ No		Range:	Dir:	
SUMMARY C												
	/drophytic Vegetation Present?			Yes			Hydric Soils Present?				11 12 V	
Wetland Hyd	Yes			Is This Sampling Poin				nt vvitnin A vv	etland? <b>Yes</b>			
Remarks: The wetland is within a large marsh complex. The sample point is located in a shallow marsh communuty.												
	·											
HYDROLOG'	Y											
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):												
<u>Primary:</u>									Secondary:			
✓	A1 - Surface \				B11 - Salt (					B6 - Surface S		
	A2 - High Wat A3 - Saturatio				B13 - Aqua		o Odor				Vegetated Concave Surface	
<b>☑</b>	B1 - Water Ma				C1 - Hydro C2 - Dry Se		B10 - Drainage	Rhizospheres on Living Roots (tilled)				
	B2 - Sedimen						pheres on Living	Roots (not till	• 🗆	C8 - Crayfish I		
	B3 - Drift Dep	•			C4 - Prese			`		•	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N		ce		✓	D2 - Geomorp		
	B5 - Iron Depo				Other (Exp	lain)				D5 - FAC-Neu		
	B7 - Inundatio	n Visible on Aerial Imagery								D7 - Frost-Hea	aved Hummocks (LRR F)	
	D9 - Water-Ot	allied Leaves										
Field Observ	vations:											
Surface Wate		Yes ☑	Donth:	3	(in )							
			Depth:		_ (in.)			Wetland H	lydrology	Present?	Υ	
Water Table Present? Yes \( \text{\text{U}} \) \( \text{Depth:} \( \text{U} \) \( \text{UII.} \)												
I Saturation Pr		YAS IVI	I)Anth	()	(in )							
Saturation Pr		Yes 🗵	Depth:	0	_ (in.)							
Describe Reco	orded Data (s	stream gauge, monitoring w			<u> </u>	ections),	if available:					
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Describe Reco	orded Data (s	stream gauge, monitoring w			<u> </u>	ections),	if available:					
Describe Reco	orded Data (s Wetland hyd	stream gauge, monitoring widrology is present.	vell, aeria	al photos, pro	evious insp							
Describe Reco Remarks: SOILS Profile Descri	orded Data (s Wetland hyd	stream gauge, monitoring work drology is present.  be to the depth needed to	vell, aeria	al photos, pro	evious insp	onfirm the	e absence of in					
Describe Reco Remarks: SOILS Profile Descri	orded Data (s Wetland hyd	stream gauge, monitoring widrology is present.	vell, aeria	al photos, pro	evious insp	onfirm the	e absence of in					
Describe Reco Remarks: SOILS Profile Descri	orded Data (s Wetland hyd	stream gauge, monitoring work drology is present.  be to the depth needed to etion, RM=Reduced Matrix, CS=	vell, aeria	al photos, pro	evious insp	onfirm the	e absence of in ore Lining, M=Matr					
Describe Reco Remarks: SOILS Profile Descri (Type: C=Concer	orded Data (s Wetland hyd	stream gauge, monitoring wadrology is present.  be to the depth needed to etion, RM=Reduced Matrix, CS=	vell, aeria	al photos, pro ent the indi Coated Sand (	evious insp cator or co Grains; Locat	onfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matr	ix)	Taytura		Remarks	
Describe Reco Remarks: SOILS Profile Descri (Type: C=Concer	orded Data (s Wetland hyd ption (Descri	be to the depth needed to etion, RM=Reduced Matrix  Color (Moist)	vell, aeria	al photos, pro	evious insp cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks	
Describe Reco Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	orded Data (s Wetland hyd ption (Descri	be to the depth needed to the derion, RM=Reduced Matrix  Color (Moist)  2/1	vell, aeria	al photos, pro ent the indi Coated Sand (	evious insp cator or co Grains; Locat	onfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matr	ix)	M	very black muck	Remarks	
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Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-21	orded Data (s Wetland hyd ption (Descriptration, D=Depleted Hue_10YR Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix  Color (Moist)  2/1  3/1	vell, aeria	ent the indi Coated Sand C	cator or co	Mottle	e absence of in ore Lining, M=Matr es Type	ix)	M	very black muck	Remarks	
Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-21	orded Data (s Wetland hyd ption (Descri	be to the depth needed to etion, RM=Reduced Matrix  Color (Moist)  2/1  3/1	vell, aeria	al photos, pro ent the indi Coated Sand (	cator or co	Mottle	e absence of in ore Lining, M=Matr	ix)	M LS			
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Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-21  NRCS Hydr	ption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR A1- Histosol	be to the depth needed to etion, RM=Reduced Matrix  Color (Moist)  2/1  3/1  Indicators (check he	vell, aeria	cators are r	cator or co Grains; Local	Mottle	e absence of in ore Lining, M=Matr es Type	Location	M LS Indicators	for Problemation	c Soils <sup>1</sup>	
Describe Reco	wetland hyd  ption (Descriptration, D=Depleter)  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep	be to the depth needed to etion, RM=Reduced Matrix  Color (Moist)  2/1  3/1  Indicators (check he ipedon	vell, aeria	cators are r	cator or co Grains; Local Moist)  not present	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm MA16 - Coast	for Problemation	c Soils <sup>1</sup> (LRR F, G, H)	
Describe Reco	ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His	stream gauge, monitoring watrology is present.  be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix Color (Moist)  2/1  3/1  Indicators (check he ipedon stic	vell, aeria	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or co Grains; Locat Moist)  not present	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation  Muck (LRR I, J)  t Prairie Redox of the surface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)	
Describe Reco	wetland hydical ption (Descriptration, Deplementation, Depleme	be to the depth needed to etion, RM=Reduced Matrix  Color (Moist)  2/1  3/1  Indicators (check he ipedon stice in Sulfide	vell, aeria	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or co Grains; Local Moist)  not presented with the control of the control o	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	Indicators A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High F	for Problemation  Muck (LRR I, J)  It Prairie Redox (LRR G)  Plains Depression	c Soils <sup>1</sup> (LRR F, G, H)	
Describe Reco	wetland hydical ption (Descriptration, Deplementation, Depleme	stream gauge, monitoring watrology is present.  be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix Color (Moist)  2/1  3/1  Indicators (check he ipedon stic	vell, aeria	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or co Grains; Locat Moist)  not present  ledox Matrix Mucky Minera Gleyed Matrix d Matrix	Mottle  Mottle  tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	Indicators (A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduced)	for Problemation  Muck (LRR I, J)  It Prairie Redox (LRR G)  Plains Depression	c Soils <sup>1</sup> (LRR F, G, H)	
Describe Record Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-12 12-21	wetland hyderical prion (Descriptration, D=Depleter of the prior of th	be to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  2/1  3/1  Indicators (check he ipedon stich Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	vell, aeria	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted	cator or co Grains; Local Moist)  Moist)  Cedox Matrix Mucky Minera Cleyed Matrix Dark Surface	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	M LS Indicators (A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reducent (F12 - Red FF12 - Very	for Problemation  Muck (LRR I, J)  It Prairie Redox (Curface (LRR G)  Plains Depression  Ced Vertic  Parent Material  Of Shallow Dark S	c Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
Describe Reco	ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  3/1  Indicators (check he ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface	vell, aeria	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist)  Moist)  Redox Matrix Mucky Minera Gleyed Matrix Dark Surface Dark Surface	Mottle  Mottle  tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	M LS Indicators (A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reducent (F12 - Red FF12 - Very	for Problemation  Muck (LRR I, J)  It Prairie Redox  Burface (LRR G)  Plains Depression  Ced Vertic  Parent Material	c Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
Describe Reco	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mur A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  2/1  3/1  Indicators (check he ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	vell, aeria	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist)  Moist)  Redox Matrix Mucky Minera Gleyed Matrix Dark Surface Dark Surface	Mottle  Mottle  tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	M LS Indicators (A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reducent (F12 - Red FF12 - Very	for Problemation  Muck (LRR I, J)  It Prairie Redox (Curface (LRR G)  Plains Depression  Ced Vertic  Parent Material  Of Shallow Dark S	c Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)	
Describe Reco	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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.  Color (Moist)  2/1  3/1  Indicators (check he ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface ark Surface ark Surface ucky Mineral fucky Peat or Peat (LRR G, Headers (LRR G, H	vell, aeria	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist)  Moist)  Redox Matrix Mucky Minera Gleyed Matrix Dark Surface Dark Surface	Mottle  Mottle  tion: PL=Po	e absence of in ore Lining, M=Matr es Type	Location	M LS Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Explan	for Problemation  Muck (LRR I, J)  t Prairie Redox  Furface (LRR G)  Plains Depression  Ced Vertic  Parent Material  of Shallow Dark Stain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)  Surface	
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	: L3R				Sample Point: w-154n44w18-f1				
<b>VEGETATIO</b>		e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 5 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 5 (B)				
					Total Number of Dominant Species Across All Strata.				
5.					100 00( (100)				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. $\frac{38}{}$ $\times 1 = \frac{38}{}$				
	Total Cover =	0			FACW spp. 55 x 2 = 110				
			<del></del>		FAC spp. $0 \times 3 = 0$				
Sanling/Shruh	Stratum (Plot size: 15 ft. radius)				FACILIEDD V 4 - 0				
		5	V	OBL	IDI epp. 0 × 5 - 0				
1.	Salix petiolaris	J .	I	ODL	Total % Cover of:         Multiply by:           OBL spp.         38         X 1 =         38           FACW spp.         55         X 2 =         110           FAC spp.         0         X 3 =         0           FACU spp.         0         X 4 =         0           UPL spp.         0         X 5 =         0				
2.									
3.					Total 93 (A) 148 (B)				
4.									
5.					Prevalence Index = B/A =				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					X Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
10.	Total Cover -								
	Total Cover =	5	<del></del>		X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phalaris arundinacea	25	Υ	FACW					
2.	Carex pellita	15	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Carex sartwellii	15	Υ	FACW	present, unless disturbed or problematic.				
4.	Phragmites australis	15	Y	FACW	Definitions of Vegetation Strata:				
5.	Typha X glauca	10	 N	OBL	Dominion of Fogotation Stratar				
					Troo - W				
6	Schoenoplectus acutus	5	N	OBL	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.	Potamogeton gramineus	1	N	OBL	Height (DBH), regardless of fleight.				
8.	Lycopus americanus	1	N	OBL					
9.	Juncus alpinoarticulatus	1	N	OBL	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.									
					Woody Vines - All woody vines, regardless of height.				
15.	T : 10				YYOOGY VIIIES - All Woody VIIIES, Tegalaless of Height.				
	Total Cover =	88							
Woody Vine St	tratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?				
5.									
4.									
7.	Total Cover =	^							
D a			Alam la e e						
Remarks:	A shallow marsh plant community. Hydrophy	ytic vegeta	ition is pre	sent.					
Additional Remarks:									