WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		<u>BR</u>								Date: 09/25/14		
Applicant: Investigators					Subregion (MLRA or LRR): MLRA 56					County: <u>Pennington</u> State: <u>MN</u>		
Soil Unit:		50/10/10		NWI Classification:								
Landform:	Depression Local Relie									Sample Point: w-154n44w34-e2		
Slope (%):	0 - 2%	litions on the sit	Latitude: 48.		Longitude:			Datum:				
Are Vegetation		litions on the sit ⊐, or Hydrology		•	al ? (If no, ex	-	arks) e normal circur		□ No esent?	Section: Township:		
Are Vegetation	•	□, or Hydrology	•				i Hormai circui i Ves		CSCIII:	Range: Dir:		
	DF FINDINGS	,										
Hydrophytic V	Vegetation Pres	sent?	Yes		_			Hydric Soi	Is Present?	Yes		
¥	rology Present		Yes							nt Within A Wetland? Yes		
Remarks: The wetland is a hardwood swamp dominated by quaking aspen. It is part of a large wetland complex located in a depression between two wheat fields.												
	HYDROLOGY Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):											
Primary:		ators (Check all	that apply; r	wiinimum of or	e primary	or two s	econdary requi	rea):	Secondary:			
	A1 - Surface Wa				B11 - Salt					B6 - Surface Soil Cracks		
	A2 - High Water A3 - Saturation	Table			B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	B1 - Water Mark	S			C1 - Hydro C2 - Dry S					B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sediment D	•			C3 - Oxidiz	zed Rhizos	spheres on Living	Roots (not till	€ □	C8 - Crayfish Burrows		
	B3 - Drift Deposi B4 - Algal Mat or				C4 - Prese C7 - Thin M					C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position		
	B5 - Iron Deposi				Other (Exp					D5 - FAC-Neutral Test		
	B7 - Inundation \	/isible on Aerial Im	nagery		、 ·	,				D7 - Frost-Heaved Hummocks (LRR F)		
	B9 - Water-Stair	ed Leaves										
Field Observ	vations:											
Surface Wat		es 🗆	Dep	th:	(in.)							
Water Table			Dep		(in.)			Wetland F	lydrology	Present? Y		
Saturation P	resent? Ye	es 🗆	Dep	th:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: The wetland shows signs of periodic inundation.												
SOILS		<u> </u>										
SOILS Profile Descri		to the depth ne	eded to doc	ument the indi								
SOILS Profile Descri		<u> </u>	eded to doc	ument the indi								
SOILS Profile Descri		to the depth ne	eded to doc atrix, CS=Cover	ument the indi red/Coated Sand		tion: PL=P Mottle	ore Lining, M=Mat					
SOILS Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depletic	e to the depth ne on, RM=Reduced M Matrix olor (Moist)	eded to doc atrix, CS=Cover	ument the indi red/Coated Sand	Grains; Loca	tion: PL=P	ore Lining, M=Mat		Texture	Remarks		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	ntration, D=Depletic C Hue_10YR	e to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1	eeded to doc atrix, CS=Cover %	ument the indi red/Coated Sand	Grains; Loca Moist)	tion: PL=P Mottle %	ore Lining, M=Mat es Type	Location	Texture C	Remarks		
SOILS Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depletic	e to the depth ne on, RM=Reduced M Matrix olor (Moist)	eded to doc atrix, CS=Cover	ument the indi red/Coated Sand	Grains; Loca Moist)	tion: PL=P Mottle	ore Lining, M=Mat es	rix)	Texture C C	Remarks Gravel present throughout layer		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	ntration, D=Depletic C Hue_10YR	e to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1	eeded to doc atrix, CS=Cover %	ument the indi red/Coated Sand	Grains; Loca Moist)	tion: PL=P Mottle %	ore Lining, M=Mat es Type	Location	Texture C C			
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	ntration, D=Depletic C Hue_10YR	e to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1	eeded to doc atrix, CS=Cover %	ument the indi red/Coated Sand	Grains; Loca Moist)	tion: PL=P Mottle %	ore Lining, M=Mat es Type	Location	Texture C C			
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Hue_10YR	e to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1 5/1	eeded to doct atrix, CS=Cover % 10 90	ument the indi red/Coated Sand Color (0 D Hue_10YR	Grains; Loca Moist) 5/8	tion: PL=P Mottle % 10	ore Lining, M=Mat es Type	Location	Texture C C			
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Generation Hue_10YR HuE_10YR HuE_10YR HuE_10YR HuE_10YR HuE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR HUE_10YR	e to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1 5/1 dicators (ch	eeded to doct atrix, CS=Cover % 10 90	ument the indi red/Coated Sand Color (0 Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N	Grains; Loca Moist) 5/8 5/8 not presen	tion: PL=P Mottle % 10 t):	ore Lining, M=Mat es Type C	Location M	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	Gravel present throughout layer for Problematic Soils ¹ fuck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Tration, D=Depletion C Hue_10YR Hue_10YR Hue_10YR Fic Soil Field In A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La	e to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1 5/1 dicators (ch edon sulfide ayers (LRR F)	eeded to doct atrix, CS=Cover % 10 90 90 00 00 00 00 00 00 00 00 00 00 00	ument the indi red/Coated Sand Color (0 D Hue_10YR D Hue_10YR D Hue_10YR Color (0 D Hue_10YR Color (0 D Hue_10YR Color (0 D Hue_10YR Color (0 D F3 - Sandy R Color (0 Color (Color (C	Grains; Loca Moist) 5/8 5/8 Not presen Redox Matrix Mucky Miner Gleyed Matri Matrix	tion: PL=P Mottle % 10 t):	ore Lining, M=Mat es Type C	Location M	C C M M M A M M M M M M M M M M M M M M	Gravel present throughout layer Gravel present throughout layer for Problematic Soils ¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Tic Soil Field In A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck	to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1 5/1 dicators (ch dicators (ch sulfide ayers (LRR F) (LRR FGH)	eeded to doct atrix, CS=Cover % 10 90 90 00 00 00 00 00 00 00 00 00 00 00	ument the indi red/Coated Sand Color (0 Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D	Grains; Loca Moist) 5/8 5/8 0 000 0 0000 0 000 0 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tion: PL=P Mottle % 10 t):	ore Lining, M=Mat es Type C	Location M M	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	Gravel present throughout layer Gravel present throughout layer for Problematic Soils ¹ Muck (LRR I, J) Plains Redox (LRR F, G, H) Plains Depressions (LRR H, outside MLRA 72, 73) Ced Vertic Parent Material		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Tic Soil Field In A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck	to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1 5/1 dicators (ch dicators (ch don sulfide ayers (LRR F) (LRR FGH) Below Dark Surfac	eeded to doct atrix, CS=Cover	ument the indi red/Coated Sand Color (0 D Hue_10YR D Hue_10YR D Hue_10YR Color (0 D Hue_10YR Color (0 D Hue_10YR Color (0 D Hue_10YR Color (0 D F3 - Sandy R Color (0 Color (Color (C	Grains; Loca Moist) 5/8 5/8 Not presen edox Matrix Mucky Miner Gleyed Matria Jark Surface Dark Surface	tion: PL=P Mottle % 10 t):	ore Lining, M=Mat es Type C	Location M M	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Gravel present throughout layer Gravel present throughout layer for Problematic Soils ¹ Muck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Tic Soil Field In A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A12 - Thick Dark S1 - Sandy Muck	to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1 5/1 dicators (ch dicators (ch dicators (ch sulfide ayers (LRR F) (LRR FGH) Below Dark Surfac sufface sy Mineral	eeded to doct atrix, CS=Cover	ument the indi red/Coated Sand Color (0 Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Loca Moist) 5/8 5/8 Not presen Redox Matrix Mucky Miner Gleyed Matria Dark Surface Dark Surface Dark Surface	tion: PL=P Mottle % 10 10 t):	ore Lining, M=Mat es Type C	Location M I I I I I I I I I I I I I I I I I I	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	Gravel present throughout layer Gravel present throughout layer for Problematic Soils ¹ Muck (LRR I, J) Plains Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material Plains Dark Surface		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muck	to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1 5/1 dicators (ch dicators (ch dicators (ch don culfide ayers (LRR F) (LRR FGH) Below Dark Surfac surface sy Mineral ky Peat or Peat (L	eeded to doct atrix, CS=Cover	ument the indi red/Coated Sand Color (0 Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Loca Moist) 5/8 5/8 Not presen Redox Matrix Mucky Miner Gleyed Matria Dark Surface Dark Surface Dark Surface	tion: PL=P Mottle % 10 10 t):	ore Lining, M=Mat es Type C	Location M I I I I I I I I I I I I I I I I I I	C C M M A9 - 1 cm M A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Gravel present throughout layer Gravel present throughout layer for Problematic Soils ¹ Muck (LRR I, J) Plains Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material r Shallow Dark Surface ain in Remarks)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muck	to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1 5/1 dicators (ch dicators (ch dicators (ch dicators (ch dicators) dicators (ch dicators) dicators) dicators (ch dicators) dicators (ch dicators) dicators (ch dicators) dicators (ch dicators) dicators (ch dicators) dicators (ch dicators) dicators) dicators (ch dicators) dicators) dicators (ch dicators) dicators) dicators (ch dicators) dicators) dicators (eeded to doct atrix, CS=Cover	ument the indi red/Coated Sand Color (0 Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Grains; Loca Moist) 5/8 5/8 Not presen Redox Matrix Mucky Miner Gleyed Matria Dark Surface Dark Surface Dark Surface	tion: PL=P Mottle % 10 10 t):	ore Lining, M=Mat es Type C	Location M I I I I I I I I I I I I I I I I I I	C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Gravel present throughout layer Gravel present throughout layer for Problematic Soils ¹ Muck (LRR I, J) Plains Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material Plains Dark Surface		
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr NRCS Hydr	r Type:	to the depth ne on, RM=Reduced M Matrix olor (Moist) 2/1 5/1 dicators (ch dicators (ch dicators (ch dicators (ch dicators) dicators (ch dicators) dicators) dicators (ch dicators) dicators (ch dicators) dicators (ch dicators) dicators (ch dicators) dicators (ch dicators) dicators (ch dicators) dicators) dicators (ch dicators) dicators) dicators (ch dicators) dicators) dicators (ch dicators) dicators) dicators (eeded to doct atrix, CS=Cover % 10 90 90 90 90 90 90 90 90 90 90 90 90 90	ument the indi red/Coated Sand Color (0 Hue_10YR Hue_10YR S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	Grains; Loca Moist) 5/8 5/8 Not presen edox Matrix Mucky Miner Eleyed Matrix Dark Surface Dark Surface Dark Surface Dark Surface	tion: PL=P Mottle % 10 10 t):	es Type C C RA 72, 73 of LRI	Location M M I I I I I I I I I I I I I I I I I	C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Gravel present throughout layer Gravel present throughout layer for Problematic Soils ¹ Muck (LRR I, J) Plains Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material Plains Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be present,		

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w34-e2				
VEGETATIO		re non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)				Deminence Test Werksheet				
1	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	60	Y	FAC	Number of Deminent Species that are ODL EACIAL at EAC: (A)				
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 4 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)				
7.					Drevelence Index Werkeheet				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.	Total Cover	60			OBL spp. 5 X 1 = 5				
Total Cover =					FACW spp. 85 $X 2 = 170$				
Copling/Chrub	Stratum (Diat aiza) 15 ft radius)				FAC spp. 100 \times 3 = 300				
	Stratum (Plot size: 15 ft. radius)	30	V	FACW	FACU spp. 0 $x 4 = 0$				
<u> </u>	Cornus alba	30	T		UPL spp X 5 =				
3.	1				 Total 190 (A) 475 (B)				
4.					$(A) = \frac{475}{(B)}$				
5.					Prevalence Index = $B/A = 2.500$				
6.					= 2.500				
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					$\frac{1}{X}$ Dominance Test is > 50%				
10.	 Total Cover =	30			$\frac{X}{X} = \frac{1}{2} $				
	(Dist size: Eft radius)				Morphological Adaptations (Explain) *				
Herb Stratum ((Plot size: 5 ft. radius)	40	V	FAC	Problem Hydrophytic Vegetation (Explain) *				
	Petasites frigidus		т Ү		* Indicators of hydric soil and wetland hydrology must be				
<u>2.</u> <u>3.</u>	Carex sartwellii	25	N T	FACW FACW	present, unless disturbed or problematic.				
	Spartina pectinata	15	N N	FACW					
<u>4.</u> 5.	Phalaris arundinacea	<u> </u>	N	FACW	Definitions of Vegetation Strata:				
6	Calamagrostis canadensis Cicuta maculata		N	OBL					
7.		5	IN	UDL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
8.									
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.					4				
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
13.					4				
14.	<u> </u>				Woody Vines - All woody vines, regardless of height.				
13.	Total Cover =	100							
	Total Cover =	100							
Maadu Mina St	tratum (Plat aiza) 20 ft. radius)								
	tratum (Plot size: 30 ft. radius)								
2.	1								
3.					Hydrophytic Vegetation Present? Y				
5.	1								
4.	1								
	Total Cover =	: 0							
Remarks:	The wetland sample point is dominated by q		en Sartwe	all'e ephae	and arctic sweet coltsfoot				
	The weather sample point is dominated by q	paning asp		shi si seuge					
Additional Remarks:									