## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	Project/Site: L3R										Date: 09/11/14		
Applicant:										County: Pennington			
Investigators		BEH/MRK/RAJ		Subregion (MLRA or LRR): MLRA 56							State: MN		
Soil Unit:	<u>166A</u>		NWI Clas					PEMBd					
Landform:	Dip	1	Local Relief: LC 48.1581283 Longitude: -96.3697				7405	Deture		Sample Point: u-154n45w13-d1			
Slope (%):	0 - 2%	nditions on the site	Latitude: 48.		of yoo	<u> </u>			Datum: ☑ Yes	□ No			
		□, or Hydrology				II ! (IT no, exp	1	e normal circun			Section:		
Are Vegetation		□, or Hydrology	•	•			Ale	e normai circui		ESEIII ?	Township: Range: Dir:		
SUMMARY C				obiemati	5:			□ 163					
Hydrophytic Y			No						Hvdric Soi	ls Present?	ν No		
Wetland Hyd	-		No						Hydric Soils Present? No Is This Sampling Point Within A Wetland? No				
Remarks:			n an NWI po	lygon with	in a v	vheat field	I. No wet	land indicators					
Remarks: The sample point is located in an NWI polygon within a wheat field. No wetland indicators were observed.													
HYDROLOG	Y												
Wetland Hv	droloav Ind	icators (Check all	I that apply:	Minimum	of on	e primarv	or two se	econdarv requi	red):				
Primary	•••					o princi j	0			Secondary:	-		
	A1 - Surface					B11 - Salt					B6 - Surface Soil Cracks		
	A2 - High Wa					B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio B1 - Water M					C1 - Hydro C2 - Dry Se					B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen							spheres on Living	Roots (not till	€ □	C8 - Crayfish Burrows		
	B3 - Drift Dep	•				C4 - Prese			<b>X</b>		C9 - Saturation Visible on Aerial Imagery		
	B4 - Algal Ma					C7 - Thin N		ace		$\checkmark$	D2 - Geomorphic Position		
	B5 - Iron Dep	osits on Visible on Aerial Im	agery			Other (Exp	lain)				D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)		
		tained Leaves	lagery								D7 - FIOST-HEAVED HUIHIHOCKS (LKK F)		
Field Observ	vations:												
Surface Wate	er Present?	Yes 🛛	Der	oth:		(in.)							
Water Table		Yes 🗆	•	oth:		(in.)			Wetland F	lydrology	Present? N		
Saturation Pr	resent?	Yes 🛛	Dep	oth:		(in.)							
Describe Rec	orded Data (s	stream gauge moni	itoring well	erial photo	s pre	evious insr	ections)	if available:					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The sample point is in a slight swale that would collect and drain water during wet periods; however, no other hydrology indicators were observed.													
Remarks:	The sample	point is in a slight	t swale that	would coll	ect ar	nd drain w	<i>l</i> ater duri	na wet periods	: however. i	no other hy	drology indicators were observed.		
Remarks:	The sample	point is in a slight	t swale that	would coll	ect ar	nd drain w	ater duri	ng wet periods	; however, ı	no other hy	drology indicators were observed.		
Remarks: SOILS	The sample	e point is in a slight	t swale that	would coll	ect ar	nd drain w	ater duri	ng wet periods	; however, ı	no other hy	drology indicators were observed.		
SOILS Profile Descri	iption (Descri	be to the depth ne	eeded to doo	cument the	e indic	cator or co	onfirm the	e absence of ir	ndicators.)	no other hy	drology indicators were observed.		
SOILS Profile Descri	iption (Descri		eeded to doo	cument the	e indic	cator or co	onfirm the	e absence of ir	ndicators.)	no other hy	drology indicators were observed.		
SOILS Profile Descri	iption (Descri	be to the depth ne etion, RM=Reduced M	eeded to doo	cument the	e indic	cator or co	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mati	ndicators.)	no other hy	drology indicators were observed.		
SOILS Profile Descri (Type: C=Concer	iption (Descri	ibe to the depth ne etion, RM=Reduced M Matrix	eeded to doo latrix, CS=Cove	cument the ered/Coated	e indic Sand C	cator or co Grains; Loca	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr	ndicators.)	-			
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descrintration, D=Depl	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	cument the red/Coated	e indic Sand C	cator or co	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Mati	ndicators.)	Texture	drology indicators were observed.		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5	iption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced Matrix Matrix Color (Moist) 2/1	eeded to doo latrix, CS=Cove	cument the pred/Coated	e indic Sand C blor (N	cator or co Grains; Loca Moist)	onfirm the tion: PL=Po Mottle %	e absence of ir ore Lining, M=Mati es Type	ndicators.) ix)	-	Remarks		
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descrintration, D=Depl	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to doo latrix, CS=Cove	cument the pred/Coated	e indic Sand C blor (N	cator or co Grains; Loca Moist)	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr	ndicators.)	-			
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18	iption (Descrintration, D=Depl Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 6/1	eeded to doo latrix, CS=Cove	cument the bred/Coated	e indic Sand C Dior (N OYR	Cator or co Grains; Loca Vloist) 5/8	onfirm the tion: PL=Po Mottle % 10	e absence of ir ore Lining, M=Matr es Type C	ndicators.) ix)	-	Remarks		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18	iption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 6/1	eeded to doo latrix, CS=Cove	cument the bred/Coated	e indic Sand C Dior (N OYR	Cator or co Grains; Loca Vloist) 5/8	onfirm the tion: PL=Po Mottle % 10	e absence of ir ore Lining, M=Mati es Type	ndicators.) ix)	Texture C C	Remarks gravel fragments		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 6/1	eeded to doo latrix, CS=Cove	cument the bred/Coated	e indic Sand C Dior (N OYR are n	Cator or co Grains; Loca Moist) 5/8	onfirm the tion: PL=Po Mottle % 10	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture C C	Remarks gravel fragments for Problematic Soils <sup>1</sup>		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18	iption (Descrintration, D=Depl Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/1 Indicators (ch	eeded to doo latrix, CS=Cove	cument the bred/Coated	e indic Sand C Dior (N OYR are n	Cator or co Grains; Loca Moist) 5/8 ot presen	onfirm the tion: PL=Po Mottle % 10	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture C C Indicators 1 A9 - 1 cm M	Remarks gravel fragments		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/1 Indicators (ch	eeded to doo latrix, CS=Cove	indicators	e indic Sand C Sand C OIOR (N OYR OYR are n are n ndy Ro ipped amy M	Cator or co Grains; Loca Moist) 5/8 5/8 ot presen edox Matrix lucky Miner	nfirm the tion: PL=Po Mottle % 10 t):	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	Remarks         gravel fragments         for Problematic Soils <sup>1</sup> Auck (LRR I, J)         t Prairie Redox (LRR F, G, H)         Surface (LRR G)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/1 Indicators (ch stic n Sulfide	eeded to doo latrix, CS=Cove	indicators	e indic Sand C Dior (N OYR are n are n are n amy M amy G	Cator or co Grains; Loca Moist) 5/8 5/8 ot presen edox Matrix lucky Minera	nfirm the tion: PL=Po Mottle % 10 t):	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	Remarks         gravel fragments         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         Surface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	ibe to the depth ne etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/1 6/1 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	eeded to doo latrix, CS=Cove	cument the red/Coated 3 6 Co 0 Hue_1 0 Hue_1 1 Go 1 Go	e indic Sand C Sand C Olor (N OYR any R ipped amy M amy G pleted	voist) 5/8 5/8 ot presen edox Matrix lucky Minera ileyed Matrii Matrix	nfirm the tion: PL=Po Mottle % 10 t):	e absence of ir ore Lining, M=Matr es Type C	Location M M	Texture C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	Remarks         gravel fragments         gravel fragments         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         Surface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)         ced Vertic		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to doo latrix, CS=Cove	cument the red/Coated a Co Co O O Hue_1 Co O Hue_1 Co O Co O Co O Co O Co O Co O Co O O Co Co O O Co O O Co Co O O Co Co O O Co Co O O Co Co O O Co Co O O Co Co Co Co Co Co Co Co Co Co	e indic Sand C Sand C Olor (N OYR any R ipped amy M amy G pleted dox Da	Cator or co Grains; Loca Moist) 5/8 5/8 ot presen edox Matrix lucky Minera lucky Minera lucky Minera ark Surface	nfirm the tion: PL=Po Mottle % 10 10 t):	e absence of ir ore Lining, M=Matr es Type C	Location M	Texture C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	Remarks         gravel fragments         gravel fragments         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         Surface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)         ced Vertic         Parent Material		
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral fucky Peat or Peat (LR	eeded to doo latrix, CS=Cove	Cument the red/Coated 3 Coated 3	e indic Sand C Sand C Olor (N OYR any R ipped amy M amy G pleted dox D pleted dox D	Address Surface Provide State Strains; Loca Moist) 5/8 5/8 5/8 0 0 0 0 0 0 0 0 0 0 0 0 0	monfirm the tion: PL=Po Mottle % 10 t):	e absence of in ore Lining, M=Matr es Type C	Location M M	Texture C C C A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Remarks         gravel fragments         gravel fragments         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         Surface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)         ced Vertic         Parent Material         / Shallow Dark Surface         ain in Remarks)		
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral fucky Peat or Peat (LR leyed Matrix	eeded to doo latrix, CS=Cove	cument the         ared/Coated         6       Co         6       Co         0       Hue_1         6       S5 - Sa         Indicators       S5 - Sa         S6 - Str       F1 - Loa         F2 - Loa       F3 - De         F3 - De       F6 - Re         F7 - De       F8 - Re         F16 - H       F16 - H	e indic Sand C Sand C OVR OVR are n are n are n amy G pleted dox Da pleted dox Da pleted dox Da	Address Surface Provide State Stress Provide	monfirm the tion: PL=Po Mottle % 10 t):	e absence of in ore Lining, M=Matri es Type C C	Location M M M M M M M M M M M N N N N N N	Texture         C         C         C         Age         Indicators f         A9 - 1 cm M         A16 - Coast         S7 - Dark S         F16 - High F         F18 - Reduct         TF12 - Very         Other (Explate <sup>1</sup> Indicators of F         unless disturbe	Remarks         gravel fragments         gravel fragments         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         Surface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)         ced Vertic         Parent Material         / Shallow Dark Surface         ain in Remarks)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral fucky Peat or Peat (LR leyed Matrix	eeded to doo latrix, CS=Cove	cument the         ared/Coated         6       Co         6       Co         0       Hue_1         6       S5 - Sa         Indicators       S5 - Sa         S6 - Str       F1 - Loa         F2 - Loa       F3 - De         F3 - De       F6 - Re         F7 - De       F8 - Re         F16 - H       F16 - H	e indic Sand C Sand C Olor (N OYR any R ipped amy M amy G pleted dox D pleted dox D	Address Surface Provide State Stress Provide	monfirm the tion: PL=Po Mottle % 10 t):	e absence of in ore Lining, M=Matri es Type C C	Location M M	Texture         C         C         C         Age         Indicators f         A9 - 1 cm M         A16 - Coast         S7 - Dark S         F16 - High F         F18 - Reduct         TF12 - Very         Other (Explate <sup>1</sup> Indicators of F         unless disturbe	Remarks         gravel fragments         gravel fragments         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         Surface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)         ced Vertic         Parent Material         / Shallow Dark Surface         ain in Remarks)		
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-5 5-18 NRCS Hydr	iption (Descrintration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S3 - 5 cm Mu S4 - Sandy G	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/1 ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral fucky Peat or Peat (LR ky Peat or Peat (LR leyed Matrix	eeded to doo latrix, CS=Cove	cument the         indicators         S5 - Sa         S6 - Str         F1 - Loa         F3 - De         F3 - De         F7 - De         F8 - Re         F16 - H	e indic Sand C Sand C Olor (N OYR any R ipped amy M amy G pleted dox D igh Pla oepth:	Cator or co Grains; Loca Moist) 5/8 5/8 ot presen edox Matrix lucky Minera leyed Matrix lucky Minera leyed Matrix ark Surface Dark Surface pressions ains Depres	monfirm the tion: PL=Po Mottle % 10 t): al x ace ssions (ML	e absence of ir ore Lining, M=Matri es Type C C RA 72, 73 of LRF	Location Location M I I I I I I I I I	Texture 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 <sup>1</sup> Indicators of F unless disturbe	Remarks         gravel fragments         gravel fragments         for Problematic Soils <sup>1</sup> Muck (LRR I, J)         t Prairie Redox (LRR F, G, H)         Surface (LRR G)         Plains Depressions (LRR H, outside MLRA 72, 73)         ced Vertic         Parent Material         / Shallow Dark Surface         ain in Remarks)		

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-154n45w13-d	11
VEGETATION		e non-native	species.)			
Tree Stratum (	Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet	
1.		<u>/// Cover</u>	Dominant	<u>1110.018103</u>		
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)	
3.						
4.					Total Number of Dominant Species Across All Strata: 1 (B)	
5.					1	
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.	Total Cover	0			$\begin{array}{c} OBL \text{ spp.}  0 \qquad X \ 1 =  0 \\ \hline & \\ \hline \\ \hline$	
	Total Cover =	0			FACW spp. $0 \qquad x 2 = 0$	
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				OBL spp.0x1 =0FACW spp.0x2 =0FAC spp.0x3 =0FACU spp.0x4 =0	
<u>3 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</u>					UPL spp. $85$ X 5 = 425	
2.						
3.						
4.						
5.					Prevalence Index = B/A = <b>5.000</b>	
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) *	
	Plot size: 5 ft. radius)	05	V	NII	Problem Hydrophytic Vegetation (Explain) *	
1.	Triticum aestivum	85	Y	NI	* Indicators of hydric soil and wetland hydrology must be	
2. 3.					present, unless disturbed or problematic.	
4.					Definitions of Vegetation Strata:	
5.						
6					<b>Tree -</b> 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.						
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.	
13.					_	
14.						
15.		0.5			Woody Vines - All woody vines, regardless of height.	
	Total Cover =	85	_			
1	ratum (Plot size: 30 ft. radius)				-	
2.					-	
3.					Hydrophytic Vegetation Present? N	
5.						
4.						
	Total Cover =	0				
Remarks:	The sample point is dominated by cultivated	wheat.				
Additional R	emarks:					