WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date: County:	07/24/14			
Applicant:					0	(141 D.)					Pennington		
Investigators		BCS/BEH	Subregion (MLRA or LRR): MLRA 56 NWI Classification:							State:	MN		
Soil Unit: Landform:	I66A Dip				cal Relief:		Classification	-		Sample Point	w-154n45w12-b1		
Slope (%): 0 - 2% Latitude: 48.1707025 Longitude: -96.3823873333 Datum:													
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) Yes □ No Section:													
Are Vegetation □ Soil □, or Hydrology □significantly disturbed?						Are normal circumstances present?							
Are Vegetation □ Soil □, or Hydrology □aturally problematic?								□ No		Township: Range:	Dir:		
SUMMÄRY C			<i>y</i> 1							Ü			
Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes													
Wetland Hydrology Present?				Yes				Is This Sai	mpling Poir	nt Within A W	etland? Yes		
Remarks: The wetland is a seasonally-flooded basin located within a tilled, agricultural barley field, and extending south into a grazed cattle pasture. The vegetation is													
dominated by foxtail barley and Persicaria spp.													
HYDROLOG'	Y												
Wetland Hy	drology Indi	icators (Check all that a	oply; Mi	nimum of on	e primary	or two s	econdary requi	red):					
Primary:	<u>:</u>							,	Secondary:				
☐ A1 - Surface Water					B11 - Salt					B6 - Surface S			
▽	A2 - High Wa A3 - Saturatio				B13 - Aqua					B8 - Sparsely B10 - Drainag	Vegetated Concave Surface		
	B1 - Water Ma				C1 - Hydro C2 - Dry S						Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen						spheres on Living	Roots (not till	le 🗆	C8 - Crayfish			
	B3 - Drift Dep				C4 - Prese	nce of Re	duced Iron				n Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin N		ace		\square	D2 - Geomorp			
	B5 - Iron Depo	osits n Visible on Aerial Imagery			Other (Exp	lain)				D5 - FAC-Neu	itral Test aved Hummocks (LRR F)		
	B9 - Water-St									D7 - F1051-F16	aved Hullillocks (LRR F)		
_													
Field Observ	vations:												
Surface Wate	er Present?	Yes 🗵	Depth:	3	(in.)								
Water Table		Yes ☑	Depth:		(in.)			Wetland F	lydrology	Present?	Y		
Saturation Pr		Yes 🗵	Depth:	_	in.)						_		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
i Remarks.	Three inche					,00010113),	ii avaliable.						
Remarks:	Three inche					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii avaliable.						
SOILS	Three inche					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii avaliable.						
SOILS Profile Descri	iption (Descri	es of surface water are probe to the depth needed to	esent a	t the sample	point.	onfirm th	e absence of ir						
SOILS Profile Descri	iption (Descri	s of surface water are pr	esent a	t the sample	point.	onfirm th	e absence of ir						
SOILS Profile Descri	iption (Descri	be to the depth needed tetion, RM=Reduced Matrix, CS	esent a	t the sample	point.	onfirm th	e absence of ir ore Lining, M=Matr						
SOILS Profile Descri (Type: C=Concer	iption (Descri	be to the depth needed tetion, RM=Reduced Matrix	o docun Covered	t the sample	point. cator or co	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Matr	rix)					
SOILS Profile Descri (Type: C=Concer	iption (Descri ntration, D=Depl	be to the depth needed to the depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist)	o docun =Covered	t the sample	point. cator or co	onfirm th	e absence of ir ore Lining, M=Matr		Texture		Remarks		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	iption (Descri	be to the depth needed tetion, RM=Reduced Matrix Matrix Color (Moist) 2/1	o docun =Covered % 100	nent the individual Coated Sand Color (I	point. cator or co	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Matr es Type	Location	SIC				
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21	iption (Descri	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1 7/2	o docun =Covered % 100 95	nent the individual Coated Sand Color (I	point. cator or cograins; Loca Moist)	Mottl %	e absence of ir ore Lining, M=Matr es Type	Location	SIC		nulation/chalky		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21	Hue_10YR Hue_2.5Y	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1 7/2	o docun =Covered % 100 95	t the sample nent the indicators are respectively.	point. cator or cograins; Loca Moist) 6/8 not presen	Mottl %	e absence of inore Lining, M=Matrees Type C	Location	SIC SIC	for Problemati	nulation/chalky		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR Hue_2.5Y ric Soil Field A1- Histosol	be to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 7/2 Indicators (check he	o docun =Covered % 100 95	color (I Hue_10YR licators are r	point. cator or cograins; Loca Moist) 6/8 not presented ox	Mottl %	e absence of inore Lining, M=Matrees Type C	Location	SIC SIC Indicators f	for Problemati fuck (LRR I, J)	nulation/chalky c Soils ¹		
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 7/2 Indicators (check headine)	o docun =Covered % 100 95	color (I Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M	point. cator or cograins; Loca Moist) 6/8 not presented ox Matrix Mucky Miner	mottl Mottl 5 t):	e absence of inore Lining, M=Matrees Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 7/2 Indicators (check he depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 7/2	o docun =Covered % 100 95	color (I Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	point. cator or cograins; Loca Voist) 6/8 not presented with the company of t	mottl Mottl 5 t):	e absence of inore Lining, M=Matrees Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹		
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 7/2 Indicators (check he depth needed to the depth needed to the depth needed to the detion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 7/2 Indicators (check he depth needed to the depth	o docun =Covered % 100 95 ere if ind	color (I Hue_10YR licators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M F3 - Depleted F6 - Redox D F7 - Depleted	point. Cator or cograins; Loca Woist) 6/8 not present edox Matrix flucky Miner fleyed Matrix Matrix ark Surface	mottl Mottl % 5 t):	e absence of inore Lining, M=Matrees Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73)		
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Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21	Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	be to the depth needed to the tion, RM=Reduced Matrix. Color (Moist) 2/1 7/2 Indicators (check he tick in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR G, Focky Peat or Peat (LRR F)	o docun =Covered % 100 95 ere if inc	color (I Hue_10YR Iicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	point. cator or cograins; Loca Woist) 6/8 not presented with the company of t	Mottl % 5 t):	e absence of inore Lining, M=Matrees Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	c Soils ¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface		
Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21	Hue_10YR Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth needed to the tion, RM=Reduced Matrix. Color (Moist) 2/1 7/2 Indicators (check he tick in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR G, Focky Peat or Peat (LRR F)	o docun =Covered % 100 95 ere if inc	color (I Hue_10YR Iicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Loca Woist) 6/8 not present edox Matrix Mucky Miner Bleyed Matrix I Matrix ark Surface park Surface pressions ains Depres	Mottl % 5 t):	e absence of inore Lining, M=Matrees Type C RA 72, 73 of LRF	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FF12 - Very Other (Explain Indicators of Funless disturbed)	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	c Soils ¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 73) Surface		
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-21 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mul A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mul S4 - Sandy G Type:	be to the depth needed to the tion, RM=Reduced Matrix. Color (Moist) 2/1 7/2 Indicators (check he tick in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR G, Focky Peat or Peat (LRR F)	o docun =Covered % 100 95 ere if inc	color (I Hue_10YR licators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	cator or constraints; Local Moist) 6/8 Motrix Mucky Miner Sleyed Matrix Matrix ark Surface Dark Surface Poressions ains Depressions	Mottl % 5 t):	e absence of inore Lining, M=Matrees Type C RA 72, 73 of LRF	Location M R H)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Expla	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks) ain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be present,		

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-154n45w12-b1
					•
VEGETATION		e non-native s	species.)		
Tree Stratum (Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<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: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					$ \begin{array}{ccc} \hline OBL spp. & 0 & x & 1 = 0 \end{array} $
	Total Cover = 0				FACW spp. $\frac{22}{2}$ $\times 2 = \frac{44}{4}$
			_		FAC spp. $0 \times 3 = 0$
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				Total % Cover of: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 22 x 2 = 44 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0 UPL spp. 2 x 5 = 10
1.	Statum (Flot Size: Fort. radias)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					Δ1 2 3pp X 3 =
3.					Total 24 (A) 54 (B)
4.					Total <u>24</u> (A) <u>54</u> (B)
					Dravalance Index D/A 2250
5.					Prevalence Index = B/A = 2.250
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					XDominance Test is > 50%
	Total Cover =	0	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Hordeum jubatum	15	Υ	FACW	
2.	Persicaria maculosa	5	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Persicaria pensylvanica	2	N	FACW	present, unless disturbed or problematic.
4.	Hordeum vulgare	2	N	NI	Definitions of Vegetation Strata:
5.					
6					Tree - 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.					Supming/Sin us
11.					
					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					Herb - All Herbaccous (Horr woody) plants, regardless of size.
13.					
14.					All considerations and the table
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	24	_		
Woody Vine Sti	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Remarks:	The wetland is dominated by foxtail barley ar		ia spp.		
	in the state of th				
\	lamarka.				
Additional R	semarks:				