WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/13/14
Applicant:										County:	Pennington
Investigators:	•	MRK/BEH/RAJ			Subregion	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	Igp			_			I Classification	:			
	Depression				cal Relief:					Sample Point:	w-154n44w31-e1
\ /	0 - 2%		atitude: 48.12		Longitude:			Datum:			
Are climatic/h	<u> </u>	nditions on the site t	typical for thi	s time of yea	ar? (If no, exp	olain in rema	arks)	Yes	□ No	Section:	
Are Vegetation			⊐significantly			Are	e normal circur	nstances pr	esent?	Township:	
Are Vegetation	on 🛭 Soil	□, or Hydrology □	⊐aturally pro	blematic?			✓ Yes	□ No		Range:	Dir:
SUMMARY O	F FINDING:	5									
Hydrophytic Vegetation Present?				Yes			Hydric Soils Present?			? Yes	
Wetland Hydi	rology Prese	nt?	Yes					Is This Sa	mpling Poir	nt Within A W	etland? Yes
Remarks:	The wetland	l is a shallow marsh	dominated b	y narrow-lea	af cattail ai	nd North	ern water-plan	tain.			
HYDROLOGY	Y										
		icators (Chack all th	aat apply: Mi	nimum of on	o primary	or two co	ocondory roqui	rod):			
Primary:	•	icators (Check all th	iat apply, iviii	minum or on	e primary	OI TWO SE	econdary requi	rea):	Secondary	•	
		Nater		П	B11 - Salt (Crust				<u>·</u> B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro		le Odor			B10 - Drainage	
	B1 - Water M	arks			C2 - Dry Se	eason Wa	ter Table			C3 - Oxidized	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	•					spheres on Living	Roots (not till	le 🗀	C8 - Crayfish E	
	B3 - Drift Dep				C4 - Prese						n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin M		ace		☑	D2 - Geomorp D5 - FAC-Neu	
	B5 - Iron Dep	อรแร n Visible on Aerial Imag	nerv		Other (Exp	iain)					aved Hummocks (LRR F)
	B9 - Water-St	•	gery							D1 - 1103(-1168	avea Hammocks (ERRT)
	20 11 410.										
Field Observ	vations:										
Surface Wate		Yes ☑	Donth	2	(in)						
Water Table			Depth:		_ (in.)			Wetland F	Hydrology	Present?	Υ
			Depth:		(in.)						
Saturation Pr	esent?	Yes	Depth:		_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: Two inches of standing water are present in the wetland.											
Remarks:	Two inches	of standing water ar	re present in	the wetland.	· ·	,	ii avallable.				
Remarks:	Two inches	of standing water ar	re present in	the wetland	· ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ii avaliable.				
SOILS											
SOILS Profile Descrip	ption (Descri	be to the depth need	ded to docun	nent the indi	cator or co	onfirm the	e absence of ir				
SOILS Profile Descrip	ption (Descri		ded to docun	nent the indi	cator or co	onfirm the	e absence of ir				
SOILS Profile Descrip	ption (Descri	be to the depth need	ded to docun	nent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mat				
SOILS Profile Descrip (Type: C=Concen	ption (Descri	be to the depth need etion, RM=Reduced Matr Matrix	ded to docun	nent the indi	cator or co	onfirm the	e absence of income Lining, M=Mat	rix)			
SOILS Profile Descrip	ption (Descri	be to the depth need	ded to docun	nent the indi	cator or co	onfirm the	e absence of ir ore Lining, M=Mat		Texture		Remarks
SOILS Profile Descrip (Type: C=Concen	ption (Descri	be to the depth need etion, RM=Reduced Matr Matrix	ded to docun	nent the indi	cator or co Grains; Locat	onfirm the	e absence of income Lining, M=Mat	rix)	Texture COS	held together by c	Remarks
SOILS Profile Descrip (Type: C=Concen	ption (Descri	be to the depth need etion, RM=Reduced Matr Matrix Color (Moist)	ded to docun	nent the indi Coated Sand (Color (I	cator or co Grains; Locat	onfirm the tion: PL=Po Mottle %	e absence of ir ore Lining, M=Mat es Type	Location			
SOILS Profile Descrip (Type: C=Concen	ption (Descriptration, D=Depl	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 4/3	ded to documents, CS=Covered	nent the indi Coated Sand (Color (I	cator or co Grains; Locat	onfirm the tion: PL=Po Mottle %	e absence of ir ore Lining, M=Mat es Type	Location	COS		calcium carbonate
SOILS Profile Descrip (Type: C=Concen	ption (Descriptration, D=Depl	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 4/3	ded to documents, CS=Covered	nent the indi Coated Sand (Color (I	cator or co Grains; Locat	onfirm the tion: PL=Po Mottle %	e absence of ir ore Lining, M=Mat es Type	Location	COS		calcium carbonate
SOILS Profile Descrip (Type: C=Concen	ption (Descriptration, D=Depl	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 4/3	ded to documents, CS=Covered	nent the indi Coated Sand (Color (I	cator or co Grains; Locat	onfirm the tion: PL=Po Mottle %	e absence of ir ore Lining, M=Mat es Type	Location	COS		calcium carbonate
SOILS Profile Descrip (Type: C=Concen	ption (Descriptration, D=Depl	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 4/3	ded to documents, CS=Covered	nent the indi Coated Sand (Color (I	cator or co Grains; Locat	onfirm the tion: PL=Po Mottle %	e absence of ir ore Lining, M=Mat es Type	Location	COS		calcium carbonate
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SOILS Profile Descrip (Type: C=Concen	ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Gley1	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 4/3 4/10GY	ded to documents, CS=Covered	Color (IHue_7.5YR	cator or co Grains; Locat Moist)	Mottle 20	e absence of ir ore Lining, M=Mat es Type	Location	COS	held together by o	calcium carbonate
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SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-12 NRCS Hydri	ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Gley1 ic Soil Field A1- Histosol	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 4/3 4/10GY Indicators (cheedetion, RM=Reduced Matrix	% 80 100	Color (IHue_7.5YR	cator or co Grains; Locat Moist) 2.5/3 not present	Mottle 20	e absence of ir ore Lining, M=Mat es Type C	Location	COS COS Indicators A9 - 1 cm N	held together by of the for Problematic Muck (LRR I, J)	calcium carbonate calcium carbonate calcium carbonate
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-12 NRCS Hydri	htration, D=Deplementation, D=	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 4/3 4/10GY Indicators (checking)	% 80 100	Color (I Hue_7.5YR	cator or co Grains; Locat Moist) 2.5/3 not present	Mottle % 20	e absence of ir ore Lining, M=Mat es Type C	Location	COS COS Indicators A9 - 1 cm N A16 - Coas	held together by of the for Problematic Muck (LRR I, J) t Prairie Redox (calcium carbonate calcium carbonate calcium carbonate calcium carbonate calcium carbonate
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SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-12 NRCS Hydri	ption (Descriptration, D=Deplementation, D=Deple	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 4/3 4/10GY Indicators (checking Sulfide	% 80 100 ck here if ind	Color (I Hue_7.5YR licators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy M	Cator or co Grains; Locat Moist) 2.5/3 not present edox Matrix Mucky Minera	Mottle % 20	e absence of ir ore Lining, M=Mat es Type C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression	calcium carbonate calcium carbonate calcium carbonate calcium carbonate calcium carbonate
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SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-12 NRCS Hydri	ption (Descriptration, D=Deplementation, D=Deple	Matrix Color (Moist) 4/3 4/10GY Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR cky Peat or Peat (LRR	ded to documents, CS=Covered % 80 100 Ck here if ind	Color (I Hue_7.5YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist) 2.5/3 not present edox Matrix fleyed Matrix lark Surface d Dark Surface pressions	Mottle % 20 tt):	e absence of irore Lining, M=Mates Type C	Location	Indicators A9 - 1 cm M A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very Other (Expl	held together by of the for Problematic Muck (LRR I, J) the Prairie Redox (Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark Stain in Remarks)	calcium carbonate calcium carbonate calcium carbonate c Soils¹ (LRR F, G, H) Cons (LRR H, outside MLRA 72, 73) Surface
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-12 NRCS Hydri	htration, D=Depleteration, D=Depleterati	Matrix Color (Moist) 4/3 4/10GY Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR cky Peat or Peat (LRR	ded to documents, CS=Covered % 80 100 Ck here if ind	Color (I Hue_7.5YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Locat Moist) 2.5/3 not present edox Matrix fleyed Matrix lark Surface d Dark Surface pressions	Mottle % 20 tt):	e absence of irore Lining, M=Mates Type C	Location	Indicators A9 - 1 cm M A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very Other (Expl	held together by of the for Problematic Muck (LRR I, J) the Prairie Redox (Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark Stain in Remarks)	calcium carbonate calcium carbonate calcium carbonate c Soils¹ (LRR F, G, H) Cons (LRR H, outside MLRA 72, 73) Surface
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SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-12 NRCS Hydri	ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Gley1 ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel 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 Type:	Matrix Color (Moist) 4/3 4/10GY Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR cky Peat or Peat (LRR leyed Matrix	ck here if ind	Color (I Hue_7.5YR licators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pl	cator or co Grains; Locat Moist) 2.5/3 not present edox Matrix Mucky Minera Gleyed Matrix ark Surface I Dark Surface I Dark Surface pepressions ains Depres	Mottle % 20 t):	e absence of irore Lining, M=Mates Type C RA 72, 73 of LRI	Location M Calcality Calcality M Calcality Calcali	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very Other (Expl	held together by of the problemation of the problemation of the problemation of the problematic of the probl	calcium carbonate calcium carbonate calcium carbonate c Soils¹ (LRR F, G, H) Cons (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: w-154n44w31-e1			
VEGETATIO		re non-native	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: 2 (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.					ORL con of v 1 – of			
10.	Total Cover =	0	OBL spp. 95					
	Total Gover =		_		FAC cpp			
Combiner/Charth	Ctuations (Distained AF to redicts)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{0}{\sqrt{5}}$ $\times 4 = \frac{0}{\sqrt{5}}$			
1.					$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
2.								
3.					Total 105 (A) 115 (B)			
4.								
5.					Prevalence Index = B/A = 1.095			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *			
			Morphological Adaptations (Explain) *					
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Typha angustifolia	40	Υ	OBL	Problem riydrophytic vegetation (Explain)			
2.				OBL	* Indicators of hydric soil and wetland hydrology must be			
	Alisma triviale	20			present, unless disturbed or problematic.			
3.	Schoenoplectus tabernaemontani	15	N	OBL				
4.	Juncus nodosus	10	N	OBL	Definitions of Vegetation Strata:			
5.	Juncus torreyi	10	N	FACW	_			
6	Scirpus pallidus			OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	Eleocharis palustris	5	N	OBL	height (DBH), regardless of height.			
8.								
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
10.	Total Cover =	105						
	Total Cover =	103	_					
\\\ \\ \\ \\ \\ \\ \\ \\ \\	trations (Distrained CO (transitions)							
	tratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present?Y			
5.								
4.								
	Total Cover =							
Remarks:	The wetland is dominated by narrow-leaf car	ttail and No	rthern wat	ter-plantai	n.			
Additional	Romarks:							
Additional Remarks:								