WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	·									Date:	09/15/14
Applicant:	· ·			Cubaccion (MLDA on LDD).						County:	Pennington
	nvestigators: BJC/RAJ			Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit:	I69A			_	aal Daliafi		I Classification:			- Commis Daint	w 454n44w22 h4
Landform: Slope (%):	Depression 0 - 2%		_atitude: 48.1		cal Relief: Longitude:		5530	Datum	•	Sample Point	w-154n44w33-b1
\ \ \ /		onditions on the site						✓ Yes	□ No	Section:	
Are Vegetation			⊏significantly		αι: (π πο, οχ		e normal circun			Township:	
Are Vegetation			□aturally pro			/ " \	✓ Yes		000111.	Range:	Dir:
SUMMARY O			Tiercon emily pro-				00	- 110		i tai igoi	
Hydrophytic \			Yes					Hydric Soi	Is Present?	Yes	
Wetland Hyd	•		Yes		_					nt Within A W	etland? Yes
Remarks:			dow domina	ted by comm	non spikeru	ush, qua	ckgrass, and he				ession within a hayfield. All
		ameters were obse				•				•	•
HYDROLOGY	Y										
Wetland Hy	drology Ind	icators (Check all t	hat apply: M	inimum of or	ne nrimary	or two se	econdary requi	red):			
Primary:	•	icators (Check all ti	riat apply, ivi		ie primary	OI TWO ST	econdary requi	ieu).	Secondary	:	
<u> </u>	A1 - Surface	Water			B11 - Salt	Crust				<u>.</u> B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation B1 - Water M				C1 - Hydro					B10 - Drainage	
	B2 - Sedimer				C2 - Dry So		spheres on Living	Roots (not til	le 🗆	C8 - Crayfish I	Rhizospheres on Living Roots (tilled
	B3 - Drift Dep	•		_			educed Iron	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace		✓	D2 - Geomorp	
	B5 - Iron Dep	osits on Visible on Aerial Ima	gon/		Other (Exp	lain)				D5 - FAC-Neu	tral Test aved Hummocks (LRR F)
		tained Leaves	gery							DI - FIOSI-FIE	aved Hullillocks (LRR F)
_											
Field Observ	/ations:										
Surface Water		Yes □	Depth	1:	(in.)						
Water Table		Yes		: :	(in.)			Wetland H	Hydrology	Present?	Y
Saturation Pr		Yes □	Depth		– (in.)						
Doscribo Poco	andad Data /										
	orded Data is	stream gauge monito	oring well ae	rial photos pr	evious inst	ections)	if available:				
		stream gauge, monito						ace that is n	not present	in unland loca	ations Indicators of wetland
Remarks:	The wetland	d shows signs of per						ace that is n	ot present	in upland loca	ations. Indicators of wetland
Remarks:		d shows signs of per						ace that is n	ot present	in upland loca	ations. Indicators of wetland
Remarks:	The wetland hydrology a	d shows signs of per	riodic inunda	ation; there is	a thick lay	yer of mo	oss on the surfa		ot present	in upland loca	ations. Indicators of wetland
Remarks: SOILS Profile Descri	The wetland hydrology a ption (Descr	d shows signs of per re present.	riodic inunda eded to docu	ntion; there is	a thick lay	yer of mo	oss on the surfa	dicators.)	ot present	in upland loca	ations. Indicators of wetland
Remarks: SOILS Profile Descri	The wetland hydrology a ption (Descr	d shows signs of per tre present. ibe to the depth nee etion, RM=Reduced Mat	riodic inunda eded to docu	ntion; there is	a thick lay	yer of mo onfirm the tion: PL=Pe	e absence of in	dicators.)	ot present	in upland loca	ations. Indicators of wetland
Remarks: SOILS Profile Descri (Type: C=Concen	The wetland hydrology a ption (Descr	d shows signs of per tre present. libe to the depth nee letion, RM=Reduced Mate Matrix	riodic inunda eded to docu rix, CS=Covere	ment the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr	idicators.)		in upland loca	
Remarks: SOILS Profile Descri (Type: C=Concen	The wetland hydrology a ption (Description, D=Deptimental properties)	d shows signs of per tre present. libe to the depth nee letion, RM=Reduced Mate Matrix Color (Moist)	riodic inunda eded to docu rix, CS=Covere	ment the indid/Coated Sand	cator or co	yer of mo onfirm the tion: PL=Pe	e absence of in	dicators.)	Texture	in upland loca	Remarks
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6	The wetland hydrology a ption (Description, Depointment) Hue_10YR	d shows signs of per tre present. ibe to the depth nee etion, RM=Reduced Matrix Matrix Color (Moist) 2/1	eded to docurix, CS=Covere	ment the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr	dicators.) ix) Location		in upland loca	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-11	The wetland hydrology a ption (Description, D=Deplementation, D=De	Matrix Color (Moist) 2/1 3/1	riodic inunda eded to docu rix, CS=Covere % 100 96	ment the indid/Coated Sand Color (Hue_10YR	cator or co Grains; Loca Moist)	onfirm the tion: PL=Pa	e absence of in ore Lining, M=Matr	Location	Texture CL C	in upland loca	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6	The wetland hydrology a ption (Description, Depointment) Hue_10YR	Matrix Color (Moist) 2/1 3/1	eded to docurix, CS=Covere	ment the indi	cator or co Grains; Loca Moist)	onfirm the	e absence of in ore Lining, M=Matr	dicators.) ix) Location		in upland loca	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concent) Depth (In.) 0-6 6-11 11-18	The wetland hydrology a ption (Description, Depointment) Hue_10YR Hue_10YR Hue_2.5Y	d shows signs of perture present. ibe to the depth nee etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 3/1 7/2	riodic inunda eded to docu rix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR Hue_10YR	cator or co Grains; Loca Moist) 3/6 5/6 not presen	monfirm the months of the mont	e absence of interest of interest of the core Lining, M=Matro	Location	Texture CL C SCL	Some gravel in la	Remarks nyer; calcic
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-11 11-18	The wetland hydrology a ption (Description), D=Depintration, D	Matrix Color (Moist) 2/1 3/1 7/2 Indicators (che	riodic inunda eded to docu rix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR Hue_10YR dicators are in the indidicators are in the indidicators are in the indidicators are in the indidicators are in the indicators are indicators.	Moist) 3/6 5/6 not presen	monfirm the months of the mont	e absence of interest of interest of the core Lining, M=Matro	Location	Texture CL C SCL Indicators	Some gravel in la	Remarks Electric Soils 1
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-11 11-18 NRCS Hydri	The wetland hydrology a ption (Descriptration, D=Depintration,	Matrix Color (Moist) 2/1 3/1 7/2 Indicators (che	riodic inunda eded to docu rix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR Hue_10YR dicators are in the second se	Moist) 3/6 5/6 not presen	monfirm the tion: PL=Per Mottle % 4 25 t):	e absence of interest of interest of the core Lining, M=Matro	Location M M	Texture CL C SCL Indicators A9 - 1 cm N A16 - Coast	Some gravel in la for Problemation fuck (LRR I, J) t Prairie Redox	Remarks nyer; calcic c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-11 11-18 NRCS Hydri	The wetland hydrology a ption (Description) (Description), D=Depintration, D=D	Matrix Color (Moist) 2/1 3/1 7/2 Indicators (che	riodic inunda eded to docu rix, CS=Covere % 100 96 75	ment the indid/Coated Sand Color (Hue_10YR Hue_10YR dicators are i	Moist) 3/6 5/6 Motor present	monfirm the tion: PL=Paragraph Mottle % 25 the triangle with the tion of the t	e absence of interest of interest of the core Lining, M=Matro	Location M M	Texture CL C SCL Indicators A9 - 1 cm N A16 - Coast S7 - Dark S	Some gravel in la for Problemation Muck (LRR I, J) t Prairie Redox Surface (LRR G)	Remarks eyer; calcic c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-11 11-18 NRCS Hydri	The wetland hydrology a ption (Descriptration, D=Depintration,	Matrix Color (Moist) 2/1 3/1 7/2 Indicators (che	riodic inunda eded to docu rix, CS=Covere % 100 96 75	ment the indid/Coated Sand Color (Hue_10YR Hue_10YR dicators are in the second se	Moist) Redox I Matrix Mucky Miner	monfirm the tion: PL=Paragraph Mottle % 25 the triangle with the tion of the t	e absence of interest of interest of the core Lining, M=Matro	Location M M	Texture CL C SCL Indicators A9 - 1 cm N A16 - Coast S7 - Dark S	Some gravel in la for Problemation fuck (LRR I, J) t Prairie Redox (Surface (LRR G)) Plains Depression	Remarks nyer; calcic c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-11 11-18 NRCS Hydri	The wetland hydrology a ption (Descritration, D=Depintration,	Matrix Color (Moist) 2/1 3/1 7/2 Indicators (che	cded to docurix, CS=Covere % 100 96 75 cck here if in	ment the indid/Coated Sand Color (Hue_10YR Hue_10YR dicators are in S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D	Moist) Redox Matrix Mucky Mineral Matrix Mucky Mineral Matrix Mucky Surface	monfirm the tion: PL=Ponfirm t	e absence of interest of interest of the core Lining, M=Matro	Location M M	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduc	Some gravel in la for Problemation fuck (LRR I, J) t Prairie Redox curface (LRR G) Plains Depression ced Vertic Parent Material	Remarks Exper; calcic C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-11 11-18 NRCS Hydri	The wetland hydrology a ption (Descriptration, D=Depintration,	Matrix Color (Moist) Indicators (che Sipedon Stic n Sulfide H Layers (LRR F) Ick (LRR FGH) Ed Below Dark Surface	cded to docurix, CS=Covere % 100 96 75 cck here if in	ment the indid/Coated Sand Color (Hue_10YR Hue_10YR Hue_10YR Color (Color (Hue_10YR Color (Color (Hue_10YR Color (Color	Moist) Redox I Matrix Mucky Mineral Matrix Mucky Mineral Matrix Dark Surface	monfirm the tion: PL=Ponfirm t	e absence of interest of interest of the core Lining, M=Matrockers Type C C C	Location M M	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	Some gravel in la for Problemation Muck (LRR I, J) t Prairie Redox (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark S	Remarks Ayer; calcic C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-11 11-18 NRCS Hydri	The wetland hydrology a ption (Descriptration, D=Depintration,	Matrix Color (Moist) 2/1 3/1 7/2 Indicators (che bipedon stic n Sulfide I Layers (LRR F) ock (LRR FGH) ed Below Dark Surface park Surface	cded to docurix, CS=Covere % 100 96 75 cck here if in	ment the indid/Coated Sand Color (Hue_10YR Hue_10YR Hue_10YR Color (Color (Hue_10YR Color (Color (Moist) Redox I Matrix Mucky Mineral Matrix Dark Surface Depressions	monfirm the tion: PL=Ponfirm t	e absence of interest of the surface	Location M M	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	Some gravel in la for Problemation fuck (LRR I, J) t Prairie Redox curface (LRR G) Plains Depression ced Vertic Parent Material	Remarks Ayer; calcic C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-11 11-18 NRCS Hydri	The wetland hydrology a ption (Description, D=Depintration, D=	Matrix Color (Moist) Indicators (che Dipedon Stic In Sulfide I Layers (LRR F) Ick (LRR FGH) Ick (LRR FGH) Ick (LRR FGH) Ick Surface Dark Surface Illucky Mineral	weded to docurix, CS=Covered % 100 96 75 ck here if in a second a	ment the indid/Coated Sand Color (Hue_10YR Hue_10YR Hue_10YR Color (Color (Hue_10YR Color (Color (Moist) Redox I Matrix Mucky Mineral Matrix Dark Surface Depressions	monfirm the tion: PL=Ponfirm t	e absence of interest of interest of the core Lining, M=Matrockers Type C C C	Location M M	Indicators: A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	Some gravel in la for Problemation Muck (LRR I, J) t Prairie Redox (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark S	Remarks Ayer; calcic C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-6 6-11 11-18 NRCS Hydri	The wetland hydrology a ption (Descriptration, D=Depindent Testion) Properties of the point of t	Matrix Color (Moist) 2/1 3/1 7/2 Indicators (che bipedon stic n Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surface bark Surface lucky Mineral Mucky Peat or Peat (LR icky Peat or Peat (LR icky Peat or Peat (LR icky Peat or Peat (LR	cded to docurix, CS=Covere % 100 96 75 cck here if income	ment the indid/Coated Sand Color (Hue_10YR Hue_10YR Hue_10YR Color (Color (Hue_10YR Color (Color (Moist) Redox I Matrix Mucky Mineral Matrix Dark Surface Depressions	monfirm the tion: PL=Ponfirm t	e absence of interest of the surface	Location M M	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	Some gravel in la for Problemation Muck (LRR I, J) It Prairie Redox Surface (LRR G) Plains Depression ced Vertic Parent Material Y Shallow Dark Stain in Remarks)	Remarks Ayer; calcic C Soils (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: w-154n44w33-b1
VEGETATIO	` ` '	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:(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.	<u>'</u>				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					
10.	_l Total Cover =	0			OBL spp. 55
	Total Cover =		_		FACW spp. $5 \times 2 = 10$
0 11 /01 1	0. (5) (5)		FAC spp. 20		
	Stratum (Plot size: 15 ft. radius)				FACU spp. 15 X 4 = 60
1.					UPL spp. $0 x 5 = 0$
2.					
3.					Total 95 (A) 185 (B)
4.					
5.					Prevalence Index = $B/A = 1.947$
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	 Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	Total Cover =		_		
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Eleocharis palustris	50	Y	OBL	
2.	Apocynum cannabinum	20	Y	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Elymus repens	15	N	FACU	present, unless disturbed or problematic.
4.	Rumex stenophyllus	5	N	FACW	Definitions of Vegetation Strata:
5.	Persicaria amphibia	5	N	OBL	
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.					
11.					
				_	Herb - All herbaceous (non-woody) plants, regardless of size.
12.					Tel D - All Herbaceous (Horl-woody) plants, regardless of size.
13.					4
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	95			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Domorko	Total Cover =	0			
Remarks:					
Additional F	Remarks:				
	sample point is dominated by common spiker	ush and he	mp dogha	ne. Hvdro	ophytic vegetation is present.
	The particular definition by the property of t				-
Ī					