WETLAND DETERMINATION DATA FORM Great Plains Region

										Deter	00/47/44
Project/Site:	L3I									Date:	09/17/14
Applicant:		bridge								County:	Marshall
Investigators	: RA	J/BJC			Subregior	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	165A				. 0	•	Classification	-			
Landform:	Depression			-	cal Relief:			·		Sample Point	t: w-156n46w33-l1
			- 10 <u>00</u>				204	Deture		Sample Full	W-1301140W33-11
Slope (%):	0 - 2%		atitude: 48.28		Longitude:			Datum:			
Are climatic/r	hydrologic condi	tions on the site	typical for thi	is time of yea	IT? (If no, exp	1		☑ Yes	□ No	Section:	
Are Vegetation	on 🛛 Soil 🗆	, or Hydrology	⊐significantly	disturbed?		Are	e normal circun	nstances pre	esent?	Township:	
Are Vegetatio			aturally pro				☑ Yes	□ No		Range:	Dir:
	OF FINDINGS			biomatio			- 100	_ 110		ranger	2
	Vegetation Prese		Yes						Is Present?		
Wetland Hyd	rology Present?		Yes					Is This Sa	mpling Poin	t Within A W	/etland? Yes
Remarks:	A shallow mars	h community do	minated by c	attail and ree	ed canary	grass in t	the center of a	shallow ba	sin. All para	ameters of w	vetland conditions are present.
						0					
HYDROLOG											
Wetland Hv	drology Indicat	ors (Check all th	hat apply: Mi	nimum of on	e primary	or two se	econdary requi	red):			
Primary:			at apply, im		e princi y	01 110 00	seenaary requi		Secondary:		
	A1 - Surface Wate	ar			B11 - Salt (Cruct				B6 - Surface	Soil Cracks
\Box A1 - Sunace Water \Box A2 - High Water Table											Vegetated Concave Surface
	A3 - Saturation	able		 □ B13 - Aquatic Fauna □ C1 - Hydrogen Sulfide Odor □ □ 							
	B1 - Water Marks									B10 - Drainag	
					C2 - Dry Se			Dooto (not till			Rhizospheres on Living Roots (tilled)
	B2 - Sediment De	•					pheres on Living	Roots (not till		C8 - Crayfish	
	B3 - Drift Deposite				C4 - Prese						on Visible on Aerial Imagery
\checkmark	B4 - Algal Mat or				C7 - Thin M		ice		\checkmark	D2 - Geomor	
	B5 - Iron Deposits				Other (Expl	lain)			\checkmark	D5 - FAC-Neu	
		sible on Aerial Ima	gery							D7 - Frost-He	aved Hummocks (LRR F)
	B9 - Water-Staine	ed Leaves									
Field Observ	vations.										
		_	Dantha		(in)						
	er Present? Yes		Depth:		(in.)			Wetland H	lydrology l	Present?	Υ
Water Table	Present? Yes	з	Depth:		(in.)				.,		·
Saturation Pr	resent? Yes	; D	Depth:	:	(in.)						
Describe Desc	andad Data (atra			al ab at a sur		()	if as so ita bita s				
Describe Reco	orded Data (strea	am gauge, monito	oring well, aeri	iai photos, pre	evious insp	ections),	it available.				
					-	,,					
Remarks:	There is a disti	nct algal crust the	rough the sh	allow marsh	area of the			ators of wetl	and hydrolo	gy are prese	ent.
Remarks:	There is a disti	nct algal crust th	rough the sh	allow marsh	area of the			ators of weth	and hydrolo	gy are prese	ent.
	There is a disti	nct algal crust th	rough the sh	allow marsh	area of the			ators of weth	and hydrolo	gy are prese	ent.
SOILS		-	Ū			e wetland	d basin. Indica		and hydrolo	gy are prese	ent.
SOILS Profile Descri	ption (Describe	to the depth need	ded to docun	nent the indic	cator or co	e wetland	d basin. Indicate absence of ir	ndicators.)	and hydrolo	gy are prese	ent.
SOILS Profile Descri	ption (Describe	-	ded to docun	nent the indic	cator or co	e wetland	d basin. Indicate absence of ir	ndicators.)	and hydrolo	gy are prese	ent.
SOILS Profile Descri	ption (Describe	to the depth need , RM=Reduced Matr	ded to docun	nent the indic	cator or co	e wetland	d basin. Indicate absence of ir	ndicators.)	and hydrolo	gy are prese	ent.
SOILS Profile Descri	ption (Describe	to the depth need	ded to docun	nent the indic	cator or co	e wetland	d basin. Indicate absence of ir	ndicators.)	and hydrolo	gy are prese	ent.
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SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 NRCS Hydr	ption (Describe f htration, D=Depletion Co Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field Inc A1- Histosol A2 - Histic Epiped A3 - Black Histic A4 - Hydrogen Su A5 - Stratified Lay	to the depth need RM=Reduced Matrix Matrix lor (Moist) 2/1 7/1 licators (cheat lon lfide rers (LRR F)	ded to docun ix, CS=Covered % 100 85 ck here if ind	Color (I Color (I Hue_10YR Hue_10YR dicators are n S5 - Sandy Re S6 - Stripped F1 - Loamy W F2 - Loamy G	Cator or co Grains; Locat Voist) 6/8 6/8 00t present edox Matrix lucky Minera leyed Matrix Matrix	e wetland	d basin. Indica e absence of ir pre Lining, M=Mati es Type C	Location M M	Texture FSL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc	or Problemati uck (LRR I, J) Prairie Redox urface (LRR G Plains Depress	Remarks ic Soils ¹ (LRR F, G, H)
SOILS Profile Descri (Type: C=Concer Depth (In.) 0-9 9-18 NRCS Hydr	ption (Describe intration, D=Depletion Co Hue_10YR Hue_2.5Y ic Soil Field Inc A1- Histosol A2 - Histic Epiped A3 - Black Histic A4 - Hydrogen Su A5 - Stratified Lay A9 - 1 cm Muck (I	to the depth need RM=Reduced Matrix Matrix Ior (Moist) 2/1 7/1 Iicators (cheat Inde Inde Vers (LRR F) _RR FGH)	ded to docun ix, CS=Covered % 100 85 ck here if ind	Color (I Color (I Hue_10YR Hue_10YR dicators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D	Cator or co Grains; Locat Moist) 6/8 6/8 ot present edox Matrix lucky Minera lucky Minera lucky Minera larix matrix matrix ark Surface	e wetland	d basin. Indica e absence of ir pre Lining, M=Mati es Type C	Location M	Texture FSL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P	or Problemati uck (LRR I, J) Prairie Redox urface (LRR G Plains Depress ed Vertic arent Material	Exemarks
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n46w33-l1		
		e non-native	species.)				
ree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet		
1.			Dominant	<u>1110.5tatus</u>			
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)		
3.							
4.	<u> </u>				Total Number of Dominant Species Across All Strata: 2 (B)		
<u> </u>					Total Number of Dominant Species Across All Strata(D)		
					Demonst of Deminant Species That Are ODL EACIAL at EAC: 100.0% (A/D)		
<u>6.</u> 7.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
<u>7.</u> 8.					Prevalence Index Worksheet		
<u> </u>							
10.					<u>Total % Cover of:</u> <u>Multiply by:</u>		
10.	 Total Cover =	0			$FACW(spp) = 55 \qquad X^2 = 110$		
		0			$FAC spp \qquad 0 \qquad X 3 = 0$		
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				$FACU spp \qquad 0 \qquad x 4 = 0$		
1.					OBL spp. 60 X 1 = 60 FACW spp. 55 X 2 = 110 FAC spp. 0 X 3 = 0 FACU spp. 0 X 4 = 0 UPL spp. 0 X 5 = 0		
2.							
3.					Total 115 (A) 170 (B)		
4.							
5.					Prevalence Index = B/A = 1.478		
6.							
7.							
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.					X Dominance Test is > 50%		
	 Total Cover =	0			$\frac{1}{X} \qquad \text{Prevalence Index is } \le 3.0 \text{ *}$		
					Morphological Adaptations (Explain) *		
lerh Stratum ((Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *		
1.	Phalaris arundinacea	40	Y	FACW			
2.	Typha X glauca	25		OBL	* Indicators of hydric soil and wetland hydrology must be		
3.	Beckmannia syzigachne	15	N	OBL	present, unless disturbed or problematic.		
4.	Alisma triviale	10	N	OBL	Definitions of Vegetation Strata:		
5.	Rumex stenophyllus	5	N	FACW	Deminione et vegetation etrata.		
6	Schoenoplectus tabernaemontani	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast		
7.	Juncus torreyi	5	N	FACW	height (DBH), regardless of height.		
8.	Eleocharis palustris	5	N	OBL			
9.	Hordeum jubatum	5	N	FACW	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.		
10.		0		17.000			
11.							
12.					Herb - All herbaceous (non-woody) plants, regardless of size.		
12.							
13.	1						
15.	p				Woody Vines - All woody vines, regardless of height.		
10.	Total Cover =	115			1100uy 11100 - 1 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	Total Cover =	115	_				
Voody Vina St	tratum (Plot size: 20 ft radius)						
	tratum (Plot size: 30 ft. radius)						
2.	1						
<u> </u>	1				Hydrophytic Vocatation Present?		
<u> </u>	1				Hydrophytic Vegetation Present? Y		
<u> </u>	1						
4.	Total Cover =	0					
Amarka			l and road	l canony cu	rass with many additional species at low to moderate soverage. Hydrophytic		
Remarks:		•			rass with many additional species at low to moderate coverage. Hydrophytic		
	vegetation is present. Around the central sh	anow mars	n of this w	enand is a			
Additional F	Remarks:						