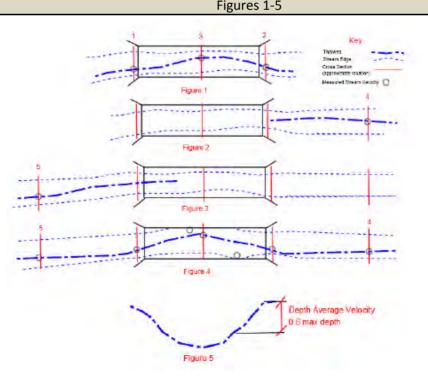
PRJ # BR(O 8006 (47)		PCN: 67	780		-20-201			tructed:	2009		
County: E	Brookings						i on: 06-		6			
Assessed	By: Maier/E	Boone			Stream	Name:	Medary	Creek				
	Structure	Туре				St	ructure	Shape	Commer	nts		
	Numbe	r of Barr	els		l	nlet Typ	e		Οι	utlet Ty	pe*	
	X Width (f	t) X Heig	ht (ft)	Р	rojecting			At	Stream (Grade		х
Box 3	3x10'x8'			V	/ing wall			x Ca	scade ov	er Ripra	р	
Arch				H	eadwall			Fr	ee Fall int	to Pool		
Pipe Dian	neter			A	pron			Fr	ee Fall Or	nto Rip I	Rap	
Bridge				R	iprap			Ap	ron			
Bridge L	Deck Length	X Widtl	h	C	ther:			Ot	her:			
				Ra	pid Visua	Asses	sment:					
						•						Y / I
					Observat	tion						N.A
. The stru	icture is insta	Iled gene	erally in a	ccorda	nce with p	lans (hei	ght, widtl	n, eleva	tion, locat	ion, etc.)	
	n to be comp											У
				-	-	n widths	upstream	n and do	wnstrean	n.		у
2. Overall structure width is wider than the average stream widths upstream and downstream .3. Natural streambed material exists throughout structure (i.e. countersunk approximately 1 foot)										v		
4. Stream channel is free of scour activity that may impede fish passage.										y		
5. A natural low flow channel exists through the structure or if not the streambed surface within the structure												
	the streambe			-								У
	is free of cha							0				у
	wnstream cl											ý
-	ion is/has re	-	-					ion area	۱.			ý
					Field Mea	asureme	nts:					
			Stre	am De	epth and Ve	elocities	at Structi	ure***				
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	Depth	Vel.	Depth	Vel.		Vel.	Depth	Vel.	Depth	Vel.	Depth	Vel
Inlet	1.5	0	1.5	0	1.6	0	1.45	0	1.65	0	1.65	0
Outlet	1.6	0	1.7	0	1.77	0	1.55	.05	1.7	0	1.55	.0
MidStr	· 1.8	0	1.8	.1	1.75	0	1.7	0	1.7	0	1.8	.1
7xW UpSt	trm											
7xW DwnS												
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#7- Ups	stream of st	ructure,	north sic	le- ero	sion due t	o cattle						
	nt any note:	tial fick	nassaga	arria	c ** 15'NI	<u>O' ic cho</u>	kod for (bearus	tion E or (C addit:	onal field	
	nt any poter											
observatio	nt any poter on & measur or additiona	ements r	nay be re	quire	d. Refer to	section '	Stream C	rossing	Section' i	n the Mo	onitoring	***

	Photos Location Description (optional)							
	W S E	Latitude	Longitude	Include description of photograph location for future reference. Photos should include: approximately 7xW upstream/downstream from structure in the direction of the structure showing undisturbed				
Upstream channel beyond the construction limits, the upstream/downst Upstream channel disturbed by the project, and the structure inlet and c								
1				1) From structure looking upstream				
2				3) From upstream looking at structure				
	Dowi	nstream						
3				2) from structure looking downstream				
4				 From downstream toward structure 				
	Other	(optional)						
5								
6				* Re-took pictures on 6-10-14. One from upstream towards				
7				box and one from downstream towards box				
8								
	REPORT FINDINGS							
Structure initially monitored in 2012. 2014 monitoring was for scheduled 3rd-year evaluation.								
Structur	e does not app	ear to affect f	ish passage c	or stream development.				
				Figures 1-5				





Structure facing upstream 44.388572 -96.666561

Structure facing Downstream 44.388557, -96.666676





Upstream facing structure 6/10/14 site revisit

The second

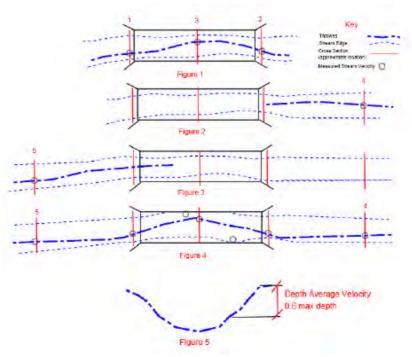


Downstream facing structure 6/10/14 site revisit

2 hardenter

N X Wi Box 4x12'> Arch	Maier/Boone ucture Type Number of B Yidth (ft) X H 'x8' Length X Wi Length X Wi e is installed g be completed ture width is w mbed materia nel is free of s of low channe creambed bey e of channeliz ream channe	e Barrels Height (ft) //idth//idth//i	wi He Ap Rip Ot Rap ccordar vey only he avera bughout that m ugh the ucture in e surfac able (no a stream am Dep	Stream	Name: St nlet Typ lans (heig h widths (i.e. cou e fish pas or <u>if not</u> utlet simi cructure. erosion) thin the c asureme elocities	ght, width upstream ntersunk isage. the strean ilar to des ** constructi nts:	Creek Shape At x Ca Fr Fr A o O	Commer Ou Stream (ascade ov ee Fall int ee Fall Or oron ther: tion, locat tion, locat ownstrean imately 1 urface wit nditions.**	itlet Typ Grade er Ripra to Pool nto Rip F ion, etc n . foot)	р ?ap	x x y y y y y y y y y y y y y
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- Vegetation is	is well estab	olished. No e	erosion	apparen	t						
- Mud has plans. 5. streamb beyond the	bed surfa	ace within	n the	struct					_	stream	nbed
⁶ Document any observation & m Protocol for add			oarriers	. ** If 'NC)' is chec	ked for C	Observ				

	Photos Location Description (optional)								
	Latitude Longitude Longitude Longitude Include description of photograph location for future reference. Photos should include: approximately 7xW upstream/downstream from structure in the direction of the structure showing undisturbed								
	Upstream channel beyond the construction limits, the upstream/downstream Upstream channel disturbed by the project, and the structure inlet and outlet								
1	1 1) box facing upstream								
2	2 2) upstream facing box								
	Downstream								
3									
4	of dominational box								
	Other (optional)								
5									
6									
7	7								
8									
	REPORT FINDINGS								
Initial monitoring in 2012; only issue noted - recheck wide channel area (bank erosion)									
downstream of box to insure it did not increase. Box re-monitored in 2013 with no change									
0.0.0 0 = 1	observed. 2014 monitoring was for scheduled 3rd-year evaluation. Water depth prohibited any								
	2014 monitoring was for scheduled 3rd-year evaluation. Water depth prohibited any measurements within the structure on 6/10/2014 and on return visit 7/29/2014. Still no								
change in wide channel area. Culvert is countersunk. Sediment (thick mud) is accumulating									
	inside structure. Fish passage does not appear to be restricted by structure.								
	Figures 1-5								



Revision Date: 10/4/2012

From structure facing upstream 44.286196, -96.547133

Mark Mark Consultation of the State

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From upstream facing structure



From structure facing downstream 44.286201, -96.547243

410-

Mar.

Lill



From downstream facing structure

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