					Brida	e Culve	ert Insp	ection						
Bridge File Number 09522 -1 Bridge Culvert			Billeg	CCUIT	Form Type			CUL1						
Year Built 1986						Lot No.		2						
Bridge or Town Name WATER VALLEY						Inspector Name		Owen Salava						
Located Over			CREEK, 3.89.25, WATERCRS-ST			Inspector Class			BR CLS A					
Located On			1 32.575				Assistant Name							
Water Body Cl./Year						Assistant Class								
Navigabil. Cl./Year								09-Aug-2011						
			C 25 TWP 29 R					ntry By		Marcia Chavez				
Longitude, Latit							Data Entry Date			16-Sep-2011				
		ransportation (AIT)				· ·			John O'Brien					
Contract Main. Area CMA28		ranoportation (xir)				Review Date			15-Aug-2011					
Clear Roadway			deg. (LHF)	dea (LHF)			Dept. Reviewer Name			-				
AADT/Year		200 / 20						Dept. Review Date		19-Sep-2011				
Road Classifica	tion	RCU-20	· ,					Follow-Up By						
Detour Length (		6						-1 7						
Bridge Culvert		-								1				
Number of Culv			1											
Pipe #	Barrel	;	Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN			3658		SP		56.7		152X51	3.0	ROUND		
Special Feature	:S											·		
Special Feature	s Comr	ment												
					Uti	ilities (L	ocated	at)						
Utility Attachme	T	<del>-</del>		105 14					1					
Telephone			elus crosses ro	ad 25m W	/est.		Gas							
Power	2 wire	s 100m t	o NW.				Munici							
Others							Proble	m (Y/N)	No					
Remarks				Δ		-l- Daa	d / Emplo							
				Αļ	Last	Now	I / Embankment Explanation of Condition							
Horizontal Align	ment				6	6	Curves East & West.							
Vertical Alignme					6	6	Curve	Lastav	vost.					
Roadway Width (m)		12.000												
Embankment					5	5	6m lon	a x 2m w	ide x 1	.2m deep erosi	on @ NW. rock	lined.		
Sideslope (	:1)		3.0				5,							
(Height of Cov		4.8)												
Guardrail (Y/N)			No											
Approach Road	d / Emb	bankmen	t General Rat	ing	6	6								
Culus et C							am End		Ce !!	tion.				
Culvert Component				Last Now		⊨xplar	nation of	Condi	tion					
Direction  End Treatment (Concrete, Steel, CONCRETE			5											
Others, None)	Concre	eie, Sieei	, CONCRETE											
Headwall			7	7										
Collar			6	6	Narrov	Narrow width cracks.								
Wingwalls			X	X										
(Shape: )														
Cutoff Wall			4	4	Severe	scaling,	worst	@ East - minor	spall.					

09522 -1 Bridge Culvert

			11						
Culvert Component		Last	Now	am End Explanation of Condition					
Bevel End		Last 7	Now 7	Explanation of Condition					
	0	<i>'</i>	1						
Heaving (mm) Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	100								
Scour Protection		5	5						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : <b>700</b> )									
Scour/Erosion		5	5						
Beavers (Y/N)	No								
Upstream End General Rating		4	4						
		Brio	dge Cu	Ivert Barrel					
Culvert Component		1	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Local	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 3658, Type: SP)					
Barrel Last Accessible Date	01-Oct-2009			Water quickly reached deeper than waters. Viewed from ends; appears stable.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		3	N						
Measured Rise (mm)			_						
Measured At Ring No.				(Estimate, water 0.7m deep. 01Oct2009).					
Sag (mm)	402			(01Oct2009)					
Percent Sag	11								
Sidewall		3	N						
Measured Span (mm)	4060								
Measured At Ring No.	13								
Deflection (mm)	402			(01Oct2009)					
Percent Deflection	11			(0106(2009)					
Floor		N	N						
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		6	N						
Separation (mm)	0	J	14						
Longitudinal Seams	·	3	N	(R3 & 13 longit. seam crack @ W sidewall.					
Total No. of Cracked Rings	2	3	111	103mm remaining steel @ cracked W longit. sidewall seam @ R13.					
Total No. of Rings with Two Cracked Seams	0			S wall seam missing bolt. 105mm remaining R3 - photo. 50%. 01Oct2009).					
Min. Remaining Steel Between Cracks (mm)	103								
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No			1					
Coating		5	5	Corrosion coming through bolt holes.					
Corrosion By Soil (Y/N)	Yes			Corrosion staining @ bolts. Superficial corrosion @ bevels &					
Corrosion By Water (Y/N)	Yes			sidewalls R7, W. 010ct2009).					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm):		, Rise (mm): 3658, Type: SP)					
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating			3	GR carried forward from 01Oct2009.					
		D	ownstr	ream End					
Culvert Component			Now	Explanation of Condition					
Direction		N							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar		X	X						
Wingwalls		X	X						
(Shape: )									
Cutoff Wall		Х	X						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed BELOW									
Above/Below (mm)	100								
Scour Protection		5	5	Bevel projects 300mm from fill.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 900)									
Scour/Erosion		5	5						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	5	5						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability			5	High banks in North channel. Minor sloughing D/S.					
HWM (m below Top of Culvert)	3.2			(03/Oct/2002)					
Drift (Y/N) No									
Channel Bottom Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			7						

				Maintenance Re		otiono					
Inspector Recommendations Year				or Comments	Department Com	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS		i eai	IIISPECI	or Comments		Department Com	ments		Target Tear	ESI. COSI	Cat #
PLACE ADDITIONAL RIP RAP											_
REMOVE DRIFT ACCUMULATION											+
INSTALL CONCRETE/STEEL LINING		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \									+
INSTALL STRUTS											1
INSTALL CONCRETE COLLAR/CUTOFF		OFF									
REPAIR SEAMS											
OTHER ACTION		2015	Patch c	utoff wall, 0.1m3 NH.							
OTHER ACTION				·							
OTHER ACTION											
OTHER ACTION											
Structural Condi	ow) 33.3/3	33.3/33.3 Sufficiency Ra		low)	51.7/52.8	Est. Repl. Yr	2030 Maint. Re		qd. (Y/N)	Yes	
Special Comments for Next Inspection	Shape & longit. sea No change a this in No action for sidew	psection.				Department Comments					
Maintenance Reviewed By				Date	Estimated Total 0						
_		2006.07.28 C	ulvert shou	ld be good until 2035. May re	quire repa		ay be option in the				
On 3-Year Progra	am (Y/N)										
Proposed Action											
Previous Inspector's Name Da		Dave Lam Previou			Previous	Assistant's Name					
Next Inspection Date 0		09-Nov-2014			Previous	nspection Date	01-Oct-2009				
Inspection Cycle (Default) (months) 39		39									
Comment											