Bridge Culvert Inspection														
Bridge File Number 74661 -1			-1 Bridge Culvert					уре		CUL1				
Year Built 1957							Lot No.			1				
Bridge or Town Name EXSHAW			Ŵ					or Name		Garry Roberts				
Located Over	S	SMITH C	CK, 2.13.61, WATERCRS-ST					or Class		BR CLS A				
Located On	1	:02 L1 2	23.421;1:02 R ²	1 23.491			Assistant Name							
Water Body CI./Year							Assistant Class							
Navigabil. Cl./Year							Inspection Date			08-Feb-2012				
Legal Land Loc	ation N	W SEC	C 14 TWP 24 RGE 9 W5M				Data Entry By			Anne Roberts				
Longitude, Latitude -115:09:2		9:24, 51:03:04					ntry Date	•	12-Mar-2012					
Road Authority Alberta Tu		Transportation (AIT)					er Name	•	Tom Carey					
Contract Main. Area CMA28		3					Date		21-Feb-2012					
Clear Roadway/Skew 27.2 /		27.2 /						Reviewer	Name	Tim Davies				
AADT/Year 16,520		6,520 / 2	0 / 2010 (A)					Review Da	ate	22-Mar-2012				
Road Classifica	ation R	RAD-412	112.4-120					Up By						
Detour Length ((km) 1													
Bridge Culvert	Informat	tion												
Number of Culverts 1														
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре	Lengt			Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	6	100	2140		BPR		60.7				RECTANGLE		
Special Feature	es													
Special Feature	es Comme	ent												
					Uti	lities (L	ocated	at)						
Utility Attachme	ents													
Telephone THRU THE CULVERT N & S DITCH					Gas SOU									
Power	ower 3 W MAIN TRANSMISSION LINE			Municipal										
Others	thers 40 M SOUTH OF CENTRELINE					Problem (Y/N) No								
Remarks FIBRE OPTICS MAY BE IN MEDIAN.														
				Ар		n Road	Explore	ation of	Condi	tion				
Horizontal Alianment					Lasi	7	Culvert at top of vertical curve							
Vertical Alignment				6	6	Cuiven	at top of	VEILLO	a cuive.					
Roadway Width (m)		27.200		0	0									
Embankment				7	7									
			4.0			1								
(Height of Co	$(m) \cdot 1$	2)	4.0											
Guardrail (Y/N)		1.3)	Yes				Wrong lap at NW							
Approach Roa	ld / Emba	ankment	t General Rat	ing	6	6								
						Upstre	am End							
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion				
Direction			-				South e	end.						
End Treatment (Concrete, Steel, CONCR Others, None)		CONCRETE												
Headwall					7	7	Headwall is vS curb girder							
Collar				Х	Х									
Wingwalls					6	6								
(Shape :)					1									
Cutoff Wall					Х	Х								
							1							

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			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		Х	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				-
Above/Below (mm) 0				
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		1		
Scour/Erosion			8	
Beavers (Y/N)	No			
Upstream End General Rating			6	
		Brid	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm)): 6100	, Rise (mm): 2140, Type: BPR)
Barrel Last Accessible Date	08-Feb-2012			
Special Features				
Special Feature				U/S is 2 "VS" girders with 250 mm of asphalt on them. Also rust
(Type :)				Stains at cracking of girder bottom, likely from pre-stress strands.
Special Feature				outside wheel path (1 point bump to rating)
(Type :)				
Roof		6	6	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm) 0				
Percent Sag				
Sidewall	·	5	5	SCALING @ OLD SIDEWALL @ N JOINT & @ W SIDE- minor
Measured Span (mm)				spalling also
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	-			
Floor		X	X	No floor - ROCK
Bulge (mm)	0			
Measured At Ring No	-			
Abrasion (Y/N)				
Circumferential Seams		6	6	
Separation (mm) 10		0	0	
Separation (mm) 10		v	v	
Total No. of Cracked Pinge	0	~	^	
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (V/N)				
Longitudinal Stagger (Y/N)				
		v	v	
	No	~	^	
Corresion By Soli (Y/N)	NO			-
Camber POS/ZERO/NEG	ZERU			
Ponding (Y/N)	No			

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6100, Rise (mm): 2140, Type: BPR)									
Fish Passage Adequacy			5	Fish observed at inspection					
Baffle		X	Х						
(Туре :)									
Waterway Adequacy		7	7						
Icing (Y/N)	Icing (Y/N) No								
Silting (Y/N)	ilting (Y/N) No								
Drift (Y/N) No									
Barrel General Rating			3						
		D	ownstr	eam End					
Culvert Component			Now	Explanation of Condition					
Direction	T			North end					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		6	6						
Collar		Х	X						
Wingwalls		6	6	NE at top 30 mm inward					
(Shape:)				NW at top 28 mm inward -MINOR MOVEMENT					
Cutoff Wall			X						
Bevel End		Х	Х						
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)		,							
Scour/Erosion			7						
Beavers (Y/N)	eavers (Y/N) No								
Downstream End General Rating		6	6						
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)			-						
Alignment			7	Waterfall 30 m upstream.					
Bank Stability			7						
HWM (m below Top of Culvert)				No visible HWM					
Drift (Y/N) No									
Channel Bottom Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 :	NONE)		1						
Channel General Rating		7	7						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspecto	or Comments		Department Comments				Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION		2012	Investiga girders	ate and repair corrosion crac	king at VS							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		55.6/33.3		Sufficiency Rating (Last/Now) (%)		62.7/52.4 Est.		st. Repl. Yr 2030		Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By						Date			E	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name		Garry Roberts				us Assistant's Name						
Next Inspection Date	08-Nov-2013 Pr				Previous I	s Inspection Date 27-Sep-2010						
Inspection Cycle (Default) (months)	21							· · ·				
Comment												