Bridge Culvert Inspection														
Bridge File Number		75548 -1 Bridge Culvert						Form Type		CUL1				
Year Built 1962			62							1				
Bridge or Town Name MALLAIG							Inspector Name		Wade Nanninga					
Located Over YELLING CREEK, 7.12.4.3, WA					TERC	RS-ST	Inspector Class		BR CLS A					
Located On		28:15 C1	17.963				Assistant Name							
Water Body Cl.	/Year						Assistant Class							
Navigabil. Cl./Y						tion Date		10-Apr-2012						
Legal Land Location SE SEC 18			18 TWP 60 R	18 TWP 60 RGE 9 W4M				ntry By		Theresa Lacu	sta			
Longitude, Latitude -111:20:10, 54:10:49							Data Entry Date			07-May-2012				
Road Authority Alberta Transportation			ransportation	(AIT)			Reviewer Name		Eric Carcoux					
Contract Main. Area CMA08								Review Date		17-Apr-2012				
Clear Roadway/Skew 10.6 / 40 deg. (RHF)							Dept. Reviewer Name		Brent Herrick					
AADT/Year		2,350 / 2	2011 (A)				Dept. Review Date			12-Jun-2012				
Road Classifica	ation	RAU-211	1.8-110				Follow-Up By							
Detour Length	(km)	3												
Bridge Culvert	Inform	ation												
Number of Culverts 1														
Pipe #	Barrel	S	pan	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN	2	019	2226		SPE		76.8		152X51	3.5	ELLIPSE		
Special Feature	es													
Special Features Comment														
					Ut	ilities (L	ocated	at)						
Utility Attachme	ents													
l elephone	South	r/w.					Gas							
Power						Munici	bal							
Others					Problem (Y/N) No			No						
Remarks	BF tag	g installed	top of North r	oot.										
				A		Now			Condi	lion				
Horizontal Alignment				<b>Lasi</b> 7	7	Local road 200m East								
Nortical Alignment						6	Blind crest curves at 350 m West and 250 m East. No passing WB.							
Roadway Width (m)		10.600			0	Bottom	of sag c	urve.						
				6	4	Fracia		<u></u>	1,1,1,20,	totod/otoblo				
Embankment	.1)		2.0			4	EIOSION GUILEY W SE - IXIXZUM-VEGETATED/STADIE.							
(Height of Co	Sideslope (:1)		3.0	3.0			@ NE 1x2x20 filled with rock.							
(Height of Cover(m) : 6.5) Guardrail (Y/N) Yes														
Approach Road / Embankment Genera		t General Rat	ing	6	6									
Culuert Comm					Leet	Upstre	am End	ation of	Condit	lan				
Direction	onent				Last	NOW	Explan	ation of	Conai	lion				
End Treatment	Conor	to Staal	STEEL				-							
Concrete, Steel, STEEL				X										
Headwall		X	X											
Collar			X	X										
Wingwalls			XX											
(Shape : )														
Cutoff Wall				Х	X									

Alberta Transportation

			Upstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		N	7	(Minor bends @ invert. 2003/07/09)					
Heaving (mm)	200								
Invert Above/Below Stream Bed	BELOW			_					
Above/Below (mm)	100								
Scour Protection		N	4	Scoured both sides 3m back, 1.5m wide, most likely from removing					
(Type : NONE)				dam.					
(Avg. Rock Size(mm) : )									
Scour/Erosion		N	4						
Beavers (Y/N)	Yes			Beaver stop at inlet - dam 50m u/s.					
Upstream End General Rating	1	4	4						
		Brid		livert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. S	pan (mm	): 2019	9, Rise (mm): 2226, Type: SPE)					
Barrel Last Accessible Date	23-Nov-1999			(Measured 2085 x 2160 near 1/3 L - 1999/11/23) Barrel not accessible, water too deep. Viewed from ends, looks good.					
Special Features									
Special Feature									
(Type : )				_					
Special Feature				_					
(Туре : )									
Roof		5	N	Not measured due to 1.0m silt, drift & water.					
Measured Rise (mm)				(3.3%, 1999/11/23)					
Measured At Ring No.				Estimated.					
Sag (mm)	100			_					
Percent Sag	5								
Sidewall		6	N						
Measured Span (mm)	2095			(3.3% 1999/11/23)					
Measured At Ring No.				Estimated.					
Deflection (mm)	76			_					
Percent Deflection	4		_						
Floor		N	N	1.0m silt, drift & water.					
Bulge (mm)	0			_					
Measured At Ring No.				_					
Abrasion (Y/N)	No								
Circumferential Seams		N	Ν						
Separation (mm)	0								
Longitudinal Seams		N	N	Lower seams not visible. No cracks noticed where visible.					
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams				_					
Min. Remaining Steel Between Cracks (mm)				1N stagger.					
Proper Lap (Y/N)	No			-					
Longitudinal Stagger (Y/N)									
Coating	1	N	N	(Scaling and some pitting below waterline. 2003/07/09)					
Corrosion By Soil (Y/N)	Yes			_					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	NEG								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

75548 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa	un (mm): 2019		, Rise (mm): 2226, Type: SPE)					
Ponding (Y/N)	Yes			(800mm. 19/Apr/2005)					
Fish Passage Adequacy		4	4	Blocked by beaver stops.					
Baffle		Х	X						
(Туре : )									
Waterway Adequacy			5	(Icing prior to 2003/07/09)					
Icing (Y/N)	Yes								
Silting (Y/N)	Yes								
Drift (Y/N)	Yes								
Barrel General Rating			5	GR carried over from Nov 2009.					
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		S							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar			Х						
Wingwalls		Х	Х						
(Shape : )									
Cutoff Wall		X	X						
Bevel End		6	6	Based on visible portions above water line.					
Heaving (mm)	100								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	200		1						
Scour Protection			5	Settlement up to 450 along sides of bevel.					
(Type : NATURAL)									
(Avg. Rock Size(mm) : )									
Scour/Erosion			5						
Beavers (Y/N)	Yes			Drift caught at outlet & wire mesh.					
Downstream End General Ratir	ng	5	5						
		s	structur	e Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		-							
Alignment			8						
Bank Stability			8						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N) Yes									
Channel Bottom AGGRADING Degrading/Aggrading									
Beavers (Y/N) Yes									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			8						

Maintenance Recommendations												
Inspector Recommendations			Year	Inspecto	or Comments		Department Com	ments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF												
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION			2012	Dewater next cyc since 19	* & perform Level II barrel ins le. Barrel not thoroughly insp 99.	spection @ pected						
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			55.6/55.	.6 Sufficiency Rating (Last/N (%)		Now) 4	18.4/48.3	Est. Repl. Yr	2027	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By							Date			Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Sha		Shane Hall Previous					Assistant's Name					
Next Inspection Date 10		10-Jan-2014 Previou					Inspection Date 16-Jul-2010					
Inspection Cycle (Default) (months) 21												
Comment												