

Bridge Culvert Inspection			
Bridge File Number	08503 -1 Bridge Culvert	Form Type	CUL1
Year Built	1959	Lot No.	2
Bridge or Town Name	HEINSBURG	Inspector Name	Todd Warshawski
Located Over	TRIBUTARY TO FROG CK, 6.7.5, WATERCRS-ST	Inspector Class	BR CLS B
Located On	897:08 C1 21.233	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	14-Dec-2011
Legal Land Location	SE SEC 29 TWP 57 RGE 3 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-110:24:14, 53:56:54	Data Entry Date	14-Jan-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA08	Review Date	04-Jan-2012
Clear Roadway/Skew	9.4 / -10 deg. (LHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	1,280 / 2010 (A)	Dept. Review Date	18-Jan-2012
Road Classification	RCU-210-110	Follow-Up By	
Detour Length (km)	100		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1810	SP	60.4	152X51	3.0,3.0,2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West r/w	Gas	Buried outside East r/w.
Power	3 wires OH r/w East.	Municipal	
Others	Fiber optic East r/w	Problem (Y/N)	No
Remarks	BF tag installed @ top of East end roof.		

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Entrances North and South. No passing SB.
Vertical Alignment		6	6	
Roadway Width (m)	9.400			Reduced sight distance to South.
Embankment		6	6	Embankment is benched.
Sideslope (:1)	3.0			
(Height of Cover(m) : 6.6)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		6	5	Bevel projects from fill 500 mm.
Heaving (mm)	300			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		5	5	
Beavers (Y/N)	Yes			1.5m high beaver dam. Overgrown with vegetation.
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1810, Type: SP)				
Barrel Last Accessible Date	20-Mar-2002			Viewed from ends, shape and condition appear ok.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	N	Rating carried forward. (20/Mar/2002) Unable to measure.
Measured Rise (mm)	1765			
Measured At Ring No.				
Sag (mm)	136			
Percent Sag	7			
Sidewall		4	N	Rating carried forward. (20/Mar/2002)
Measured Span (mm)	1870			
Measured At Ring No.				
Deflection (mm)	156			
Percent Deflection	9			Seams under water below springline.
Floor		N	N	(Corrugation beginning to buckle at ring 16. 20/Mar/2002)
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	(Barrel extensions lack bolts where extensions were attached. 20/Mar/2002)
Separation (mm)	0			
Longitudinal Seams		N	N	(39 bolts total missing from East ends of rings 4, 5, 6, 7, 17, 18 & 19. 4 bolts total missing from East side of rings 17 & 19. Superficial rust lower 1/3. 20/Mar/2002)
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	N	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1810, Type: SP)				
Ponding (Y/N)	Yes			
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		4	4	G.R. carried forward since 20/Mar/2002, barrel not accessed in 2004 either.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2012	Remove dam & vegetation @ inlet.					
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	46.9/46.9	Est. Repl. Yr	2025	Maint. Req. (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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	14-Mar-2015		Previous Inspection Date	10-Aug-2008			
Inspection Cycle (Default) (months)	39						
Comment							