

Bridge Culvert Inspection			
Bridge File Number	73759 -1 Bridge Culvert	Form Type	CUL1
Year Built	1983	Lot No.	4
Bridge or Town Name	HIGH RIVER	Inspector Name	Jon Davies
Located Over	TONGUE CREEK, 2.13.27.5, WATERCRS-ST	Inspector Class	BR CLS B
Located On	783:02 C1 1.239	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	24-Jan-2013
Legal Land Location	NW SEC 16 TWP 19 RGE 29 W4M	Data Entry By	Anne Roberts
Longitude, Latitude	-113:58:29, 50:36:44	Data Entry Date	24-Feb-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA27	Review Date	03-Feb-2013
Clear Roadway/Skew	9 /	Dept. Reviewer Name	Tim Davies
AADT/Year	2,940 / 2011 (A)	Dept. Review Date	04-Mar-2013
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	7		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	7903	5623	RPE	50.6	152X51	5.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West R/W	Gas	
Power	1W @ East R/W	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	8	Hills 300m N & 300m
Vertical Alignment		6	6	No passing both directions
Roadway Width (m)	9.000			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 3.5)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction				WEST
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		7	7	Minor cracking
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	Buried

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		8	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 7903, Rise (mm): 5623, Type: RPE)				
Barrel Last Accessible Date	24-Jan-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	7	General roof shape is good.
Measured Rise (mm)				est.
Measured At Ring No.				
Sag (mm)	75			
Percent Sag	1			
Sidewall		N	7	Inward
Measured Span (mm)	7885			
Measured At Ring No.	5			
Deflection (mm)	18			
Percent Deflection	1			
Floor		N	N	Avg 1.5m deep ice
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	7	
Separation (mm)	20			
Longitudinal Seams		N	7	Lower sidewall and floor seams not visible
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			2N in roof, not sidewall
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		N	N	(Superficial rust & soil)24 Oct 2006
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 7903, Rise (mm): 5623, Type: RPE)				
Fish Passage Adequacy		5	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	6	Siltng to 400mm
Icing (Y/N)	No			
Siltng (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				EAST
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Patched.
Collar		7	6	Some minor cracking and spalling
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	buried
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		8	7	Some 1000mm dia rock mixed in
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		8	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	minor sloughing @ u/s and @ d/s
Bank Stability		5	5	
HWM (m below Top of Culvert)	2.8			No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector 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/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/77.8	Sufficiency Rating (Last/Now) (%)	59.2/69.6	Est. Repl. Yr	2023	Maint. Req'd. (Y/N)	No
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	Rex Davidson		Previous Assistant's Name				
Next Inspection Date	24-Apr-2016		Previous Inspection Date	23-Oct-2009			
Inspection Cycle (Default) (months)	39						
Comment							