

Bridge Culvert Inspection			
Bridge File Number	75645 -1 Bridge Culvert	Form Type	CUL1
Year Built	1981	Lot No.	2
Bridge or Town Name	HIGH LEVEL	Inspector Name	Brian Pientsch
Located Over	2ND ORDER TRIBUTARY TO BOYER RIVER, 8.10.23.2.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	58:08 C1 35.600	Assistant Name	Clem Guenette
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	09-Jan-2012
Legal Land Location	SE SEC 1 TWP 110 RGE 16 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-116:30:54, 58:30:53	Data Entry Date	28-Feb-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA01	Review Date	26-Feb-2012
Clear Roadway/Skew	9.8 /	Dept. Reviewer Name	David Morrison
AADT/Year	1,330 / 2011 (A)	Dept. Review Date	30-Mar-2012
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	6		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2010	2226	SPE	27.4	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	North side	Gas		
Power	North side - 3 wire, 30m N	Municipal		
Others		Problem (Y/N)	No	
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	Bump on Hwy above CL
Vertical Alignment		9	7	
Roadway Width (m)	9.700			
Embankment		7	7	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 1.1)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		9	7	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	Minor construction dent @ 12 o'clock.
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		4	N	Erosion on East side of bevel end.-25-May-2010
(Type : RIP RAP)				Snow covered
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		4	N	Erosion on East side of bevel end.-25-May-2010
				Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		4	4	GR carried forward from 25-May-2010
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2010, Rise (mm): 2226, Type: SPE)				
Barrel Last Accessible Date	09-Jan-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	(Rise Est - ice on floor 2005/03/19)
Measured Rise (mm)	2251			Minor hole 50mm x 70mm on ring 1 at 2 o'clock and minor tear
Measured At Ring No.	3			150mm long on ring 6 at 12 o'clock.
Sag (mm)	25			Small hole punched in wall from inside at 2 o'clock ring 1.
Percent Sag	1			Deflection upward.
				Ice on floor.
Sidewall		7	7	
Measured Span (mm)	1980			
Measured At Ring No.	3			
Deflection (mm)	30			
Percent Deflection	1			
Floor		N	N	Covered with ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		7	7	
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	5	1/3 superficial rust.
Corrosion By Soil (Y/N)	Yes			Alkaline deposit through roof bolts.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2010, Rise (mm): 2226, Type: SPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	Beaver dam in culvert.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		7	7	

Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		S			
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		6	6		
Heaving (mm)	50				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	100				
Scour Protection		5	N	Snow covered	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 500)					
Scour/Erosion		5	N	Snow covered	
Beavers (Y/N)	No				
Downstream End General Rating		5	5	GR carried over fom 25-May-2010	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			Dam in pipe.
Beavers (Y/N)	Yes			

Structure Usage				
		Last	Now	Explanation of Condition
(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	2012	Remove dam in culvert.					
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) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	70.5/70.6	Est. Repl. Yr	2026	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor erosion on East side of u/s bevel end.-25-May-2010		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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	09-Oct-2013		Previous Inspection Date	25-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							