

Bridge Culvert Inspection			
Bridge File Number	74488 -1 Bridge Culvert	Form Type	CULE
Year Built	1955	Lot No.	4
Bridge or Town Name	FORT ASSINIB	Inspector Name	Melanie Johnson
Located Over	TRIBUTARY TO ATHABASCA RIVER, 8.11.94, WATERCRS-ST	Inspector Class	BR CLS B
Located On	33:08 C1 32.445	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	24-Aug-2011
Legal Land Location	NE SEC 25 TWP 61 RGE 6 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-114:45:42, 54:18:39	Data Entry Date	12-Sep-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA10	Review Date	07-Sep-2011
Clear Roadway/Skew	10.8 /	Dept. Reviewer Name	Brent Herrick
AADT/Year	1,470 / 2010 (A)	Dept. Review Date	15-Sep-2011
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	14		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	U/S	-	1600	MP	4.8	68X13	2.8	ROUND
1	MAIN	-	1829	SP	34.8	152X51	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	North & South r/w.	Gas	
Power	3 wires North r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Intersection to East.
Vertical Alignment	7	7	
Roadway Width (m)	10.800		
Embankment	7	7	
Sideslope (__:1)	3.5		
(Height of Cover(m) : 2.9)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		4	4	4.8m section of 1600mm CSP bevel not standard shape, gap filled with steel plate welded in place. Minor mower damage to roof of bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed				Bevel damaged likely due to drift/beaver dam removal.
Above/Below (mm)	0			
Scour Protection		4	5	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	5	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: U/S, Span (mm): , Rise (mm): 1600, Type: MP)				
Barrel Last Accessible Date	23-Aug-2011			
Special Features				
Special Feature				Welded Steel Plate "N". On outside of circumferential seam.
(Type :)				
Special Feature				
(Type :)				
Roof		6	6	
Measured Rise (mm)	1600			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag	0			
Sidewall		6	6	
Measured Span (mm)	1610			
Measured At Ring No.	1			
Deflection (mm)	10			
Percent Deflection	0			
Floor		6	6	
Bulge (mm)	0			
Measured At Ring No.	1			
Abrasion (Y/N)				
Circumferential Seams		6	6	
Separation (mm)	25			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: U/S, Span (mm): , Rise (mm): 1600, Type: MP)				
Coating		5	5	Superficial rust lower 1/2.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	05-Nov-2009
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating		6	6	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SP)				
Barrel Last Accessible Date	23-Aug-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	5	
Measured Rise (mm)	1770			
Measured At Ring No.	8			
Sag (mm)	59			
Percent Sag	3			
Sidewall		5	5	
Measured Span (mm)	1831			
Measured At Ring No.	8			
Deflection (mm)	2			
Percent Deflection	0			
Floor		7	7	
Bulge (mm)	0			
Measured At Ring No.	1			
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		6	6	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SP)					
Coating		5	5	Superficial rust lower 1/2.	
Corrosion By Soil (Y/N)	No				
Corrosion By Water (Y/N)	Yes				
Camber POS/ZERO/NEG	ZERO				
Ponding (Y/N)	Yes				
Fish Passage Adequacy		5	5		
Baffle		X	X		
(Type :)					
Waterway Adequacy		6	6	05-Nov-2009	
Icing (Y/N)	Yes				
Silting (Y/N)	No				
Drift (Y/N)	No				
Barrel General Rating		5	5		
Downstream 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		
Bevel End		4	4	Bevel perched for 600mm & projects 300mm from fill. Settled along side up to 0.4m.	
Heaving (mm)	0				
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	100				
Scour Protection		4	4		
(Type : NONE)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		4	4	Scour hole approx 5 x 75 x 0.5.	
Beavers (Y/N)	Yes				
Downstream End General Rating		4	4		
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)	Yes				
Channel Bottom Degrading/Aggrading	DEGRADING				
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							
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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	53.3/51.1	Est. Repl. Yr	2019	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	Monitor erosion, not worth repairing for estimated remaining life.		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	Melanie Johnson		Previous Assistant's Name				
Next Inspection Date	24-May-2013		Previous Inspection Date	05-Nov-2009			
Inspection Cycle (Default) (months)	21						
Comment							