

Bridge Culvert Inspection								
Bridge File Number	80836 -1 Bridge Culvert				Form Type	CUL1		
Year Built	1985				Lot No.	4		
Bridge or Town Name	RED DEER				Inspector Name	Jason Saly		
Located Over	WASKASOO CREEK, 3.81, WATERCRS-ST				Inspector Class	BR CLS A		
Located On	2A:16 C1 20.995				Assistant Name			
Water Body Cl./Year					Assistant Class			
Navigabil. Cl./Year					Inspection Date	21-Nov-2011		
Legal Land Location	SE SEC 30 TWP 37 RGE 27 W4M				Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:50:42, 52:12:20				Data Entry Date	21-Dec-2011		
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien		
Contract Main. Area	CMA19				Review Date	15-Dec-2011		
Clear Roadway/Skew	11.6 /				Dept. Reviewer Name	Andrew Smikles		
AADT/Year	8,130 / 2010 (A)				Dept. Review Date	09-Jan-2012		
Road Classification	RAU-211.8-110				Follow-Up By			
Detour Length (km)	5							
Bridge Culvert Information								
Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	6832	4897	RPA	26.2	152X51	4.0,5.0	ARCH
Special Features								
Special Features Comment								
Utilities (Located at)								
Utility Attachments								
Telephone					Gas			
Power					Municipal			
Others	Fibre optics in West ditch.				Problem (Y/N)	No		
Remarks								
Approach Road / Embankment								
			Last	Now	Explanation of Condition			
Horizontal Alignment			7	7	Intersection 200m South.			
Vertical Alignment			9	8				
Roadway Width (m)	11.600				25mm wide cracks in asphalt @ both sides of culvert - sealed.			
Embankment			8	8	Some guardrail blocks rotated, minor. Minor crease in SE guardrail, still functioning.			
Sideslope (_ :1)	3.0							
(Height of Cover(m) : 1)								
Guardrail (Y/N)	Yes							
Approach Road / Embankment General Rating			7	7				
Upstream End								
Culvert Component			Last	Now	Explanation of Condition			
Direction			W					
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall			7	7	Minor 0.5mm cracks in headwall.			
Collar			7	7	Minor 0.5mm wide cracks @ North collar.			
Wingwalls			8	8				
(Shape :)								
Cutoff Wall			N	N				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1200			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	Based on scour rating of 22/Mar/2007.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6832, Rise (mm): 4897, Type: RPA)				
Barrel Last Accessible Date	21-Nov-2011			File tag SE wingwall.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Could not measure rise due to ice; shape appears good.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		7	7	Could not measure span due to width of pipe; shape appears good.
Measured Span (mm)	6860			
Measured At Ring No.	3			
Deflection (mm)	28			
Percent Deflection	0			
Floor		N	N	Ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
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)	Yes			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	Minor superficial lower 1/3.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6832, Rise (mm): 4897, Type: RPA)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	2 - 25mm deep x 100mm wide x 150 to 250mm long spalls in top of headwall, caused by wood in concrete. Insignificant.
Collar		7	7	1.0mm crack in North & 0.5mm crack in South.
Wingwalls		8	8	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1200			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	8	
Bank Stability		9	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			D/S silted in.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		9	8	

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) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	78.6/77.9	Est. Repl. Yr	2048	Maint. Req. (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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	21-Aug-2013		Previous Inspection Date	10-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							