

Bridge Culvert Inspection			
Bridge File Number	82168 -1 Bridge Culvert	Form Type	CUL1
Year Built	2008	Lot No.	4
Bridge or Town Name	ATUSIS CREEK STRUCTURE ON PROVINCIAL HIGHWAY 9 NEAR DRUMHELL	Inspector Name	Owen Salava
		Inspector Class	BR CLS A
Located Over	TRIBUTARY TO ATUSIS CREEK, 3.33.10.1, WATERCRS-ST	Assistant Name	
		Assistant Class	
Located On	9:04 C1 11.613	Inspection Date	31-Oct-2011
Water Body Cl./Year		Data Entry By	Marcia Chavez
Navigabil. Cl./Year		Data Entry Date	30-Nov-2011
Legal Land Location	SW SEC 17 TWP 28 RGE 22 W4M	Reviewer Name	John O'Brien
Longitude, Latitude	-113:04:23, 51:23:13	Review Date	14-Nov-2011
Road Authority	Alberta Transportation (AIT)	Dept. Reviewer Name	Andrew Smikles
Contract Main. Area	CMA29	Dept. Review Date	02-Dec-2011
Clear Roadway/Skew	21 / 24 deg. (RHF)	Follow-Up By	
AADT/Year	2,150 / 2010 (A)		
Road Classification	RAU-212.0-110		
Detour Length (km)			

Bridge Culvert Information

Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2000	MP	54	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	Plowed in S r/w.	Gas	
Power	2 wire O/H, N r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment			8	Grade rise to E, no passing. Intersection 100m W.
Vertical Alignment			7	
Roadway Width (m)	20.700			
Embankment			7	Accel/decel lanes.
Sideslope (__:1)	7.0			
(Height of Cover(m) : 3.2)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating			7	

Upstream End

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall			X	
Bevel End			8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection			8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			8	
Beavers (Y/N)	No			
Upstream End General Rating			8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 2000 , Type: MP)				
Barrel Last Accessible Date	31-Oct-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			8	
Measured Rise (mm)	2020			
Measured At Ring No.	3			
Sag (mm)	20			Upwards 1.0%
Percent Sag	1			
Sidewall			8	
Measured Span (mm)	1980			
Measured At Ring No.	3			
Deflection (mm)	20			Inwards 1.0%
Percent Deflection	1			
Floor			8	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			8	
Separation (mm)	30			
Longitudinal Seams			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)				
Coating			6	Minor corrosion at inlet floor.
Corrosion By Soil (Y/N)	No			
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): , Rise (mm): 2000, Type: MP)				
Ponding (Y/N)	No			
Fish Passage Adequacy			5	
Baffle			X	
(Type :)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection			8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			8	
Beavers (Y/N)	No			
Downstream End General Rating			8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			6	
Bank Stability			7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			6	

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) (%)		/88.9	Sufficiency Rating (Last/Now) (%)		/82.1	Est. Repl. Yr	2060	Maint. Reqd. (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				Previous Assistant's Name					
Next Inspection Date	31-Jul-2013			Previous Inspection Date					
Inspection Cycle (Default) (months)	21								
Comment									