

Bridge Culvert Inspection			
Bridge File Number	86047 -1 Bridge Culvert	Form Type	CUL1
Year Built	2007	Lot No.	4
Bridge or Town Name	GONIKA CREEK CULVERT NEAR GROUARD	Inspector Name	Brian Pientsch
Located Over	GONIKA CREEK, 6.138.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	679:06 C1 22.840	Assistant Name	Lisbeth Medina
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	02-Dec-2010
Legal Land Location	SE SEC 30 TWP 76 RGE 14 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-116:09:39, 55:36:25	Data Entry Date	03-Jan-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA06	Review Date	20-Dec-2010
Clear Roadway/Skew	12 /	Dept. Reviewer Name	David Morrison
AADT/Year	140 / 2009 (A)	Dept. Review Date	11-Apr-2011
Road Classification	RLU-210G-90	Follow-Up By	
Detour Length (km)	25		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2280	SP	85.35	152X51	3.0	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone		Gas	
Power	2 WIRE O/H-20M NORTH OF ROAD CL	Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment		6	Curve to North approx 200m from culvert cl.
Vertical Alignment		6	Crest curve 150m from culvert cl.
Roadway Width (m)	12.000		
Embankment		7	
Sideslope ( __:1)	3.0		
(Height of Cover(m) : 12)			
Guardrail (Y/N)	Yes		
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	

**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 : )			
Cutoff Wall		X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End			8	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection			7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>500</b> )				
Scour/Erosion			7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>			<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : <b>1</b> , Primary Span, Location Code: <b>MAIN</b> , Span (mm): , Rise (mm): <b>2280</b> , Type: <b>SP</b> )				
Barrel Last Accessible Date	02-Dec-2010			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof			8	
Measured Rise (mm)	2248			
Measured At Ring No.	11			
Sag (mm)	32			
Percent Sag	2			
Sidewall			8	
Measured Span (mm)	2297			
Measured At Ring No.	11			
Deflection (mm)	17			
Percent Deflection	1			
Floor			8	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			8	
Separation (mm)				
Longitudinal Seams			8	
Total No. of Cracked Rings				2N
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating			8	
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): , Rise (mm): 2280, Type: SP)				
Fish Passage Adequacy			8	
Baffle			X	
(Type : )				
Waterway Adequacy			8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>			<b>8</b>	
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)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection			7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion			7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>			<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment			8	
Bank Stability			7	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				stable
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>			<b>8</b>	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>/88.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>/86.0</b>	Est. Repl. Yr	2052	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			Previous Assistant's Name				
Next Inspection Date	02-Mar-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	39						
Comment							