

Bridge Culvert Inspection				
Bridge File Number	73444 -1 Bridge Culvert		Form Type	CUL1
Year Built	1962		Lot No.	2
Bridge or Town Name	HIGH LEVEL		Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO BUSHE RIVER, 8.10.23.6.4, WATERCRS-ST		Inspector Class	BR CLS A
Located On	35:16 C1 11.175		Assistant Name	Clem Guenette
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	09-Jan-2012
Legal Land Location	NW SEC 4 TWP 111 RGE 19 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:09:04, 58:36:46		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	11.4 /		Dept. Reviewer Name	David Morrison
AADT/Year	1,150 / 2011 (A)		Dept. Review Date	30-Mar-2012
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	999			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	3200	3528	SPE	38.4	152X51	4.3	ELLIPSE
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments							
Telephone	East r/w & west R/W			Gas	East r/w.		
Power	West r/w - 3 line			Municipal			
Others	Railroad tracks 300 m east			Problem (Y/N)	No		
Remarks							

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Intersect to airport to south.
Vertical Alignment	8	8	
Roadway Width (m)	11.400		
Embankment	7	7	
Sideslope ( __:1)	3.0		
(Height of Cover(m) : 1.8)			
Guardrail (Y/N)	Yes		Broken posts south east section. (4th & 5th posts)
<b>Approach Road / Embankment General Rating</b>	<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
Direction	E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	6	6	
Collar	6	6	
Wingwalls	X	X	
(Shape : )			
Cutoff Wall	N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	
Heaving (mm)	500			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	250			
Scour Protection		6	N	SNow covered
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		6	N	Snow covered.
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>5</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 3200, Rise (mm): 3528, Type: SPE)				
Barrel Last Accessible Date	09-Jan-2012			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	5	Measurements taken 25-May-2010
Measured Rise (mm)	3271			
Measured At Ring No.				
Sag (mm)	257			
Percent Sag	7			
Sidewall		N	3	
Measured Span (mm)	3564			
Measured At Ring No.	6			
Deflection (mm)	364			
Percent Deflection	11			
Floor		N	N	Floor under ice, 2.528m crown to ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		N	5	
Separation (mm)				
Longitudinal Seams		N	5	
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)	Yes			
Coating		4	4	Pitting rust lower half.(Photo) (ALKALI ON BOLTS - (Photo)
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			Negative camber approx. 900 mm.
Ponding (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 3200, Rise (mm): 3528, Type: SPE)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>N</b>	<b>3</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		5	5	Rust (not pitting where visible)
Heaving (mm)	200			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	N	(Bevel projecting from fill about 1m 2005/03/18) Under snow.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		N	N	Couldn't tell-under snow.
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>4</b>	<b>4</b>	G.R carried forward from 25 May 2010
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		8	8	
Bank Stability		6	6	Stable.
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			dams U/S & D/S.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>8</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	2012	Replace broken posts in approach railing.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.1/48.1</b>	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor corrosion. Monitor sidewall deflection.		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							