

Bridge Culvert Inspection			
Bridge File Number	77247 -1 Bridge Culvert	Form Type	CUL1
Year Built	1970	Lot No.	2
Bridge or Town Name	BLUEBERRY MT	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO HAMELIN CREEK, 8.10.83.4, WATERCRS-ST	Inspector Class	BR CLS B
Located On	725:02 C1 15.285	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	06-Mar-2012
Legal Land Location	SE SEC 32 TWP 80 RGE 8 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:12:36, 55:58:33	Data Entry Date	27-Mar-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05	Review Date	22-Mar-2012
Clear Roadway/Skew	9.2 /	Dept. Reviewer Name	David Morrison
AADT/Year	390 / 2011 (A)	Dept. Review Date	18-Oct-2012
Road Classification	RAU-209-110	Follow-Up By	
Detour Length (km)	23		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1429	1575	SPE	81	152X51	3.0	ELLIPSE
Special Features								
Special Features Comment	5% vertically ellipsed.							

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	CURVES 0.5 KM IN BOTH DIRECTIONS
Vertical Alignment		8	8	
Roadway Width (m)	9.200			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 7)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	6	Bevel end and first 2 rings heaved.-2002-07-14
Heaving (mm)	1000			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	6	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1429, Rise (mm): 1575, Type: SPE)				
Barrel Last Accessible Date	06-Mar-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	7	Upward deflection.
Measured Rise (mm)	1595			
Measured At Ring No.	15			
Sag (mm)	20			
Percent Sag	1			
Sidewall		5	7	Hole in sidewall at ring 19 360 x 300. Repaired with piece of 68 X13 OUTWARD DEFLECTION
Measured Span (mm)	1476			
Measured At Ring No.	15			
Deflection (mm)	54			
Percent Deflection	4			
Floor		7	7	Repaired with piece of 68 x 13.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
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)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	4	Pitting rust on 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): 1429, Rise (mm): 1575, Type: SPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Drop off at outlet.
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			U/S bevel plugged with 100-300mm dia. drift.-photo
Drift (Y/N)	Yes			
Barrel General Rating		5	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	3	Hanging bevel udermined 0.5m.-photo
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection		4	3	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	3	Scour hole 12Lx6mWx1mD-photo
Beavers (Y/N)	No			
Downstream End General Rating		4	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		6	6	SLUMPING D/S 70-100 M.
HWM (m below Top of Culvert)				HWM NOT VISIBLE
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			DEGRADATION D/S OF CULVERT
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2012	U.S end					
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2012	Repair hanging bevel.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/77.8	Sufficiency Rating (Last/Now) (%)	47.9/58.7	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
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	Brian Pientsch		Previous Assistant's Name	Tim Miskiman			
Next Inspection Date	06-Jun-2015		Previous Inspection Date	09-Jan-2009			
Inspection Cycle (Default) (months)	39						
Comment							