

Bridge Culvert Inspection				
Bridge File Number	73561 -1 Bridge Culvert		Form Type	CUL1
Year Built	1956		Lot No.	2
Bridge or Town Name	HYTHE		Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO BEAVERLODGE RIVER, 8.10.58.18.8.1.16, WATERCRS-ST		Inspector Class	BR CLS A
Located On	43:00 C1 28.407		Assistant Name	Brian Cote
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	04-Jul-2011
Legal Land Location	NW SEC 27 TWP 73 RGE 11 W6M		Data Entry By	Lisa Fairhurst
Longitude, Latitude	-119:36:54, 55:21:30		Data Entry Date	12-Aug-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA05		Review Date	13-Jul-2011
Clear Roadway/Skew	13.1 /		Dept. Reviewer Name	Steve Pasquan
AADT/Year	4,180 / 2010 (A)		Dept. Review Date	18-Nov-2011
Road Classification	RAU-213.4-120		Follow-Up By	
Detour Length (km)	5			

**Bridge Culvert Information**

Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	5184	2833	RPB	16.5	152X51	3.0	SQUARE
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments							
Telephone	N r/w	Gas					
Power	3 o/h N r/w	Municipal					
Others		Problem (Y/N)					
Remarks							

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	INTERSECTION JUST OFF END OF STRUCTURE NW CORNER  Old b-rail & approach g-rail, not continous, b-rail posts had been nothced @ base to fit around curb girder.
Vertical Alignment		8	8	
Roadway Width (m)	13.100			
Embankment		7	7	
Sideslope (___:1)	3.0			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	Yes			25m of vehicle damage along NW
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	5	SCALING with exposed rebar OF CONCRETE HEADWALL, with exposed rebar due to drainage from old bridge deck
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		5	5	Wingwalls from old bridge has 1 broken plank only at end.
(Shape : )				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	450			
Scour Protection		6	6	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>4</b>	Scaling of headwall with exposed rebar
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5184, Rise (mm): 2833, Type: RPB)				
Barrel Last Accessible Date	28-Feb-2008			Barrel not accessible
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	(roof sag est. 28 Feb 2008)
Measured Rise (mm)				
Measured At Ring No.				Viewed from ends
Sag (mm)	50			
Percent Sag	2			
Sidewall		7	7	Viewed from ends
Measured Span (mm)	5176			
Measured At Ring No.	3			
Deflection (mm)	8			
Percent Deflection	0			
Floor		N	N	Floor covered with water
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	N	
Separation (mm)	0			
Longitudinal Seams		7	N	
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		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5184, Rise (mm): 2833, Type: RPB)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
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>7</b>	<b>7</b>	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	4	SUPERFICIAL SCALING OF HEADWALL
Collar		X	X	
Wingwalls		5	4	Rot in SE W.W. at damaged tin top
(Shape : )				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	450			
Scour Protection		6	6	
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>5</b>	<b>4</b>	Scaling of headwall

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM NOT VISIBLE
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel General Rating</b>		7	7	

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	2011	Patch headwall					
OTHER ACTION	2011	Extend deck drainage away from headwall					
OTHER ACTION	2011	Repair 25m guardrail					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>70.0/67.8</b>	Est. Repl. Yr	2030	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	04-Apr-2013		Previous Inspection Date	28-Feb-2008			
Inspection Cycle (Default) (months)	21						
Comment							