

Bridge Culvert Inspection			
Bridge File Number	01909 -1 Bridge Culvert	Form Type	CULM
Year Built	1985	Lot No.	
Bridge or Town Name	HYTHE	Inspector Name	Eric Carcoux
Located Over	TRIBUTARY TO BEAVERLODGE RIVER, 8.10.58.18.8.1.14, WATERCRS-ST	Inspector Class	BR CLS A
Located On	43:00 C1 32.591	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	29-Apr-2013
Legal Land Location	SE SEC 23 TWP 73 RGE 11 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:33:51, 55:20:03	Data Entry Date	29-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	
Contract Main. Area	CMA05	Review Date	
Clear Roadway/Skew	17.9 / -17 deg. (LHF)	Dept. Reviewer Name	
AADT/Year	5,660 / 2012 (A)	Dept. Review Date	
Road Classification	RAU-213.4-120	Follow-Up By	
Detour Length (km)	42		

**Bridge Culvert Information**

Number of Culverts	3							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
3	MAIN	-	1500	MP	39.4	68X13	2.8	ROUND
5	MAIN	-	1829	SSP	39		12.7	ROUND
6	MAIN	-	1829	SSP	39		12.7	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	6		
Vertical Alignment	8		
Roadway Width (m)			
Embankment	8		
Sideslope (__:1)			
(Height of Cover(m) : 1.8)			
Guardrail (Y/N)			
<b>Approach Road / Embankment General Rating</b>	<b>7</b>		

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
<b>(Pipe # : 3, Span Type: Secondary Span)</b>			
Direction	N		
End Treatment (Concrete, Steel, Others, None)			
Headwall	N		
Collar	X		

Upstream End				
Culvert Component	Last	Now	Explanation of Condition	
<b>(Pipe # : 3, Span Type: Secondary Span)</b>				
Wingwalls (Shape : )	X			
Cutoff Wall	N			
Bevel End	8			
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection (Type : <b>RIP RAP</b> ) (Avg. Rock Size(mm) : <b>300</b> )	8			
Scour/Erosion	8			
Beavers (Y/N)				
<b>Upstream End General Rating</b>	<b>8</b>			

Bridge Culvert Barrel				
Culvert Component	Last	Now	Explanation of Condition	
<b>(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: MP)</b>				
Barrel Last Accessible Date				
<b>Special Features</b>				
Special Feature (Type : )				
Special Feature (Type : )				
Roof	7			
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall	7			
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor	5			
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams	7			
Separation (mm)				
Longitudinal Seams	7			
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: MP)</b>				
Coating		4		
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy		4		
Baffle		X		
<b>(Type : )</b>				
Waterway Adequacy		8		
Icing (Y/N)				
Siltting (Y/N)				
Drift (Y/N)				
<b>Barrel General Rating</b>		<b>7</b>		

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 3, Span Type: Secondary Span)</b>				
Direction		S		
End Treatment (Concrete, Steel, Others, None)				
Headwall		X		
Collar		X		
Wingwalls		X		
<b>(Shape : )</b>				
Cutoff Wall		X		
Bevel End		8		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		8		
<b>(Type : RIP RAP)</b>				
<b>(Avg. Rock Size(mm) : 300)</b>				
Scour/Erosion		9		
Beavers (Y/N)				
<b>Downstream End General Rating</b>		<b>8</b>		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 5, Span Type: Primary Span)</b>				
Direction		N		
End Treatment (Concrete, Steel, Others, None)				
Headwall		X		
Collar		X		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 5, Span Type: Primary Span)</b>				
Wingwalls		X		
(Shape : )				
Cutoff Wall		X		
Bevel End		8		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		8		
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		8		
Beavers (Y/N)				
<b>Upstream End General Rating</b>		<b>8</b>		

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 5, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SSP)</b>				
Barrel Last Accessible Date				
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7		
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		7		
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		6		
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7		
Separation (mm)				
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 5, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SSP)</b>				
Coating		X		
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy		5		
Baffle		X		
<b>(Type : )</b>				
Waterway Adequacy		8		
Icing (Y/N)				
Silting (Y/N)				
Drift (Y/N)				
<b>Barrel General Rating</b>		<b>7</b>		

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 5, Span Type: Primary Span)</b>				
Direction		S		
End Treatment (Concrete, Steel, Others, None)				
Headwall		X		
Collar		X		
Wingwalls		X		
<b>(Shape : )</b>				
Cutoff Wall		X		
Bevel End		8		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		8		
<b>(Type : RIP RAP)</b>				
<b>(Avg. Rock Size(mm) : 300)</b>				
Scour/Erosion		8		
Beavers (Y/N)				
<b>Downstream End General Rating</b>		<b>8</b>		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 6, Span Type: Secondary Span)</b>				
Direction		N		
End Treatment (Concrete, Steel, Others, None)				
Headwall		X		
Collar		X		

Upstream End				
Culvert Component	Last	Now	Explanation of Condition	
<b>(Pipe # : 6, Span Type: Secondary Span)</b>				
Wingwalls (Shape : )	N			
Cutoff Wall	X			
Bevel End	8			
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection (Type : <b>RIP RAP</b> ) (Avg. Rock Size(mm) : <b>300</b> )	8			
Scour/Erosion	8			
Beavers (Y/N)				
<b>Upstream End General Rating</b>	<b>8</b>			

Bridge Culvert Barrel				
Culvert Component	Last	Now	Explanation of Condition	
<b>(Pipe # : 6, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SSP)</b>				
Barrel Last Accessible Date				
<b>Special Features</b>				
Special Feature (Type : )				
Special Feature (Type : )				
Roof	7			
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall	7			
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor	6			
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams	7			
Separation (mm)				
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 6, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SSP)</b>				
Coating		X		
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy		5		
Baffle		X		
<b>(Type : )</b>				
Waterway Adequacy		8		
Icing (Y/N)				
Siltting (Y/N)				
Drift (Y/N)				
<b>Barrel General Rating</b>		<b>7</b>		

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 6, Span Type: Secondary Span)</b>				
Direction		S		
End Treatment (Concrete, Steel, Others, None)				
Headwall		X		
Collar		X		
Wingwalls		N		
<b>(Shape : )</b>				
Cutoff Wall		X		
Bevel End		8		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		8		
<b>(Type : RIP RAP)</b>				
<b>(Avg. Rock Size(mm) : 300)</b>				
Scour/Erosion		8		
Beavers (Y/N)				
<b>Downstream End General Rating</b>		<b>8</b>		

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7		
Bank Stability		8		
HWM (m below Top of Culvert)				
Drift (Y/N)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)				
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<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>77.8/</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>75.0/</b>	Est. Repl. Yr		Maint. Req. (Y/N)
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	Brian Cote		
Next Inspection Date	29-Jan-2015		Previous Inspection Date	04-Jul-2011		
Inspection Cycle (Default) (months)	21					
Comment						