

Bridge Culvert Inspection			
Bridge File Number	73186 -2 Bridge Culvert	Form Type	CUL1
Year Built	2007	Lot No.	4
Bridge or Town Name	COALSPUR	Inspector Name	Todd Warshawski
Located Over	MERCOAL CREEK, 8.11.107.48, WATERCRS-ST	Inspector Class	BR CLS B
Located On	40:26 C1 7.055	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	31-Oct-2012
Legal Land Location	NE SEC 24 TWP 48 RGE 22 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:05:02, 53:09:36	Data Entry Date	25-Nov-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA13	Review Date	13-Nov-2012
Clear Roadway/Skew	9 /	Dept. Reviewer Name	Brent Herrick
AADT/Year	160 / 2011 (A)	Dept. Review Date	06-Dec-2012
Road Classification	RCU-209G-90	Follow-Up By	
Detour Length (km)	82		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2700	MP	29	125X26	2.8	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	West and East r/w.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks	Plaque on top of headwall.		

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	5	5	On sharp curve with limited sight distance. Road is superelevated, culvert located on sag curve. Access road located 70m North of culvert. Speed posted at 35 km/hr.
Vertical Alignment	5	5	
Roadway Width (m)	9.000		
Embankment	8	8	
Sideslope (__:1)	5.5		
(Height of Cover(m) : <b>0.7</b> )			
Guardrail (Y/N)	No		
<b>Approach Road / Embankment General Rating</b>	<b>4</b>	<b>5</b>	

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
Direction	E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	8	8	
Collar	8	N	Snow covered.
Wingwalls	X	X	
(Shape : )			
Cutoff Wall	N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	Water 1m deep. No evident problems.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		8	N	Snow covered. No evident problems.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>400</b> )				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>8</b>	<b>8</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>2700</b> , Type: <b>MP</b> )				
Barrel Last Accessible Date	31-Oct-2012			
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	7	(Measurment taken at mid location. 13/Aug/2007)  (0.6%. 13/Aug/2007) Sag estimated as measured from ice.
Measured Rise (mm)	2716			
Measured At Ring No.	1			
Sag (mm)	16			
Percent Sag	1			
Sidewall		N	7	(Measurement taken at approximately 8m from D/S. 13/Aug/2007) Ice above springline - not measured.-04-Feb-2009  (0.5%. 13/Aug/2007)
Measured Span (mm)	2760			
Measured At Ring No.	3			
Deflection (mm)	40			
Percent Deflection	1			
Floor		N	N	Under water/ice.
Bulge (mm)	0			
Measured At Ring No.	1			
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	40			
Longitudinal Seams		X	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)				
Coating		N	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
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): 2700, Type: MP)				
Fish Passage Adequacy		9	9	
Baffle		X	X	
(Type : <b>LARGE BOULDER</b> )				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>N</b>	<b>7</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		8	8	Water 1m deep, no evident problems.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		8	N	Under snow/water.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>400</b> )				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>8</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Culvert)	1.0			(13/Aug/2007)
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : <b>NONE</b> )				(1-Boulder cluster class 3 2-Root wad) Aug 2007
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</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>55.6/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>64.2/84.6</b>	Est. Repl. Yr	2060	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	31-Jul-2014		Previous Inspection Date	08-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							