

Bridge Culvert Inspection			
Bridge File Number	77272 -2 Bridge Culvert	Form Type	CUL1
Year Built	2009	Lot No.	4
Bridge or Town Name	PEACE RIVER	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO WHITEMUD RIVER, 8.10.48.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	743:02 C1 44.380	Assistant Name	Clem Guenette
Water Body Cl./Year		Assistant Class	BR CLS B
Navigabil. Cl./Year		Inspection Date	22-Mar-2013
Legal Land Location	NE SEC 2 TWP 88 RGE 21 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:13:17, 56:36:28	Data Entry Date	05-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04	Review Date	03-Apr-2013
Clear Roadway/Skew	8.5 / 35 deg. (RHF)	Dept. Reviewer Name	
AADT/Year	120 / 2012 (A)	Dept. Review Date	
Road Classification	RCU-208G-90	Follow-Up By	
Detour Length (km)	50		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3670	SP	84.25	152X51	4.2	ROUND
Special Features								
Special Features Comment								

**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		5	5	Bridge structure 150m S of culvert cl. Crest curve 50m N of culvert cl. Crest curve 400m S of culvert cl.
Vertical Alignment		5	5	
Roadway Width (m)	7.200			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 7)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>5</b>	<b>5</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		N		
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		9	N	Snow/ice covered.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1200			
Scour Protection		9	N	Snow covered
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>500</b> )				
Scour/Erosion		9	N	Snow covered
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>9</b>	<b>8</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : <b>1, Primary Span, Location Code: MAIN, Span (mm):</b>				<b>, Rise (mm): 3670, Type: SP</b> )
Barrel Last Accessible Date	22-Mar-2013			1677mm ice to corwon ring 6 760mm ice to crown ring 16
<b>Special Features</b>				
Special Feature				Unable to access last 5 rings.
(Type : )				
Special Feature				
(Type : )				
Roof		9	8	
Measured Rise (mm)	3692			Ice on floor - unable to take measurements.
Measured At Ring No.	6			
Sag (mm)	22			Defelction upward
Percent Sag	0			
Sidewall		9	8	Unable to measure
Measured Span (mm)	3708			
Measured At Ring No.	6			
Deflection (mm)	38			
Percent Deflection	1			
Floor		9	N	Ice on floor.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	9	
Separation (mm)				
Longitudinal Seams		9	9	
Total No. of Cracked Rings				
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		9	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			
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): 3670, Type: SP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		9	8	
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>9</b>	<b>8</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		9	9	
Collar		9	N	Snow covered
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		N	N	
Bevel End		9	N	Snow/ice covered, 150mm ice to crown.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		8	N	Possible minor slump starting to form at NW corner just above riprap 1m x2m. Monitor.-13-Nov-2009
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		8	N	Snow covered
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>8</b>	<b>8</b>	GR carried fwd.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
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 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<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>100.0/88.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>97.4/86.8</b>	Est. Repl. Yr	2059	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor NW embankment of D/S bevel end.		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	22-Jun-2016		Previous Inspection Date	13-Nov-2009			
Inspection Cycle (Default) (months)	39						
Comment							