

Bridge Culvert Inspection			
Bridge File Number	78663 -1 Bridge Culvert	Form Type	CUL1
Year Built	1983	Lot No.	4
Bridge or Town Name	BRAGG CREEK	Inspector Name	Jason Rusu
Located Over	PRAIRIE CREEK, 2.13.33.20, WATERCRS-ST	Inspector Class	BR CLS B
Located On	66:02 C1 8.679	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	02-Jul-2011
Legal Land Location	SE SEC 17 TWP 22 RGE 6 W5M	Data Entry By	Erin Roberts
Longitude, Latitude	-114:47:20, 50:51:59	Data Entry Date	21-Jul-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA27	Review Date	08-Jul-2011
Clear Roadway/Skew	11 /	Dept. Reviewer Name	Tim Davies
AADT/Year	1,460 / 2010 (A)	Dept. Review Date	27-Jul-2011
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	999		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	6121	4140	RPE	55.7	152X51	6.0	ELLIPSE
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		6	6	Curve starts over pipe. Steady downhill grade of 3%.
Vertical Alignment		7	7	
Roadway Width (m)	12.200			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 5.1)				
Guardrail (Y/N)	Yes			
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	<b>6</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction				West end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar		6	6	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		8	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>500</b> )				
Scour/Erosion		8	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>6</b>	<b>6</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6121, Rise (mm): 4140, Type: RPE)</b>				
Barrel Last Accessible Date	02-Jul-2011			Too large to measure. Barrel has good shape
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	Shape looks good.
Measured Rise (mm)	4140			ESTIMATED ISOLATED AREAS SAG OF 50mm AT LONGITUDINAL SEAMS-@ ends of pipe
Measured At Ring No.				
Sag (mm)	50			
Percent Sag				
Sidewall		8	8	Estimate.
Measured Span (mm)	6121			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	ROCK COVERED-avg 500mm deep
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		8	8	
Separation (mm)	0			
Longitudinal Seams		8	8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	
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): 6121, Rise (mm): 4140, Type: RPE)				
Fish Passage Adequacy		8	8	
Baffle		7	6	4m long concrete walls, average 300mm high, spaced @ 5m for entire length of culvert
(Type : <b>SPOILER</b> )				
Waterway Adequacy		9	9	
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				East end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar		7	6	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		N	N	
Bevel End		7	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		4	4	Large section of rip-rap approx. 15m D/S of outlet has sloughed into stream bed
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>500</b> )				
Scour/Erosion		4	4	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		6	6	
Bank Stability		5	4	Severe slope erosion 25-50m D/S - not impacting culvert performance but may afford road fill stability in future.
HWM (m below Top of Culvert)				None (HWM 980924)
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			At D/S and U/S
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>4</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>77.8/77.8</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>76.8/75.3</b>	Est. Repl. Yr	2044	Maint. Req'd. (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	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	02-Apr-2013		Previous Inspection Date	18-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							