

Bridge Culvert Inspection			
Bridge File Number	79045 -1 Bridge Culvert	Form Type	CUL1
Year Built	1979	Lot No.	3
Bridge or Town Name	JUMPING POUN	Inspector Name	Jon Davies
Located Over	LIVINGSTONE CREEK, 2.13.43.3.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	68:04 C1 36.229	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	12-Sep-2012
Legal Land Location	NW SEC 7 TWP 25 RGE 5 W5M	Data Entry By	Lauren Korte
Longitude, Latitude	-114:41:41, 51:07:24	Data Entry Date	10-Oct-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA28	Review Date	21-Sep-2012
Clear Roadway/Skew	12.3 /	Dept. Reviewer Name	Tim Davies
AADT/Year	310 / 2011 (A)	Dept. Review Date	11-Oct-2012
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	16		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2607	2881	SPE	53	152X51	3.0	ELLIPSE
Special Features	BEAVR CTRL DEV							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	East ditch.	Gas	North of culvert-250m.
Power	3 Wires X-ing culvert.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Volker Stevin Access 150m North. Located on curve.
Vertical Alignment		6	6	Crest to North. 1st pipe on Hwy 68 from Hwy 1.
Roadway Width (m)	12.300			
Embankment		7	4	Erosion gully at NE 18m from culvert. 5m long X 3m wide X 2m deep.
Sideslope (__:1)	3.0			
(Height of Cover(m) : 2.7)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		5	5	

Upstream 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 :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		7	6	Metal grating over bevel.
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2607, Rise (mm): 2881, Type: SPE)				
Barrel Last Accessible Date	12-Sep-2012			
Special Features				
Special Feature		6	6	
(Type : BEAVR CTRL DEV)				
Special Feature				
(Type :)				
Roof		6	6	
Measured Rise (mm)	2740			
Measured At Ring No.	9			
Sag (mm)	141			
Percent Sag	5			
Sidewall		6	5	
Measured Span (mm)	2770			
Measured At Ring No.	9			
Deflection (mm)	163			
Percent Deflection	6			
Floor		N	N	Water up to 500mm deep.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	Only upper seams visible due to water.
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		5	5	Superficial corrosion up to lower sidewalls.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2607, Rise (mm): 2881, Type: SPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	4	Drift catch at U/S West beaver control grate.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		6	5	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	Metal grating over bevel.
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Sharp bends just d/s of pipe.
Bank Stability		5	5	Cut banks d/s.
HWM (m below Top of Culvert)	0.6			No visible HWM.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2013	At U/S West.					
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/55.6	Sufficiency Rating (Last/Now) (%)	63.6/52.3	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	12-Jun-2014		Previous Inspection Date	07-Jan-2011			
Inspection Cycle (Default) (months)	21						
Comment							