

Bridge Culvert Inspection			
Bridge File Number	77068 -1 Bridge Culvert	Form Type	CUL1
Year Built	1983	Lot No.	2
Bridge or Town Name	THREE CREEKS	Inspector Name	Brian Pientsch
Located Over	ELDER CREEK, 8.10.47.6, WATERCRS-ST	Inspector Class	BR CLS A
Located On	986:02 C1 22.751	Assistant Name	Clem Guenette
Water Body Cl./Year		Assistant Class	BR CLS B
Navigabil. Cl./Year		Inspection Date	12-Mar-2013
Legal Land Location	NE SEC 18 TWP 86 RGE 18 W5M	Data Entry By	Lisa Fairhurst
Longitude, Latitude	-116:49:54, 56:27:50	Data Entry Date	23-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA02	Review Date	03-Apr-2013
Clear Roadway/Skew	9.4 / -15 deg. (LHF)	Dept. Reviewer Name	
AADT/Year	1,120 / 2012 (A)	Dept. Review Date	
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	135		

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	2314	2552	SPE	38.4	152X51	2.8	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	Buried cable along South row.	Gas	
Power	3 wire o/h along North row.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	No passing eastbound. In a gradual sag curve.
Vertical Alignment		7	6	
Roadway Width (m)	9.400			
Embankment		4	4	Erosion/slide 10mx8m(LxW) on South embankment.
Sideslope (_ :1)	3.0			
(Height of Cover(m) : 4)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	8	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		4	4	Bevel end cut off.
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		3	N	(Erosion along bevel.- 01 Apr 2011) Snow Covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		3	N	(Erosion along bevel.- 01 Apr 2011)
Beavers (Y/N)	Yes			Beavers at U/S end
Upstream End General Rating		3	4	GR carried forward
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2314, Rise (mm): 2552, Type: SPE)				
Barrel Last Accessible Date	12-Mar-2013			952mm ice to crown
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Measurements not taken due to ice on floor.
Measured Rise (mm)	2477			Est.
Measured At Ring No.	9			
Sag (mm)	75			
Percent Sag	3			
Sidewall		6	6	Too much ice to measure span (Measured 01 Apr 2011)
Measured Span (mm)	2432			
Measured At Ring No.	9			
Deflection (mm)	118			
Percent Deflection	5			
Floor		N	N	Under ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	4	(Pitting 4-8 o'clock. 01 Apr 2011)
Corrosion By Soil (Y/N)	Yes			Alkaline deposits through bolts.
Corrosion By Water (Y/N)	Yes			
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): 2314, Rise (mm): 2552, Type: SPE)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	N	(50mmx70mm holes cut on east side. 01 Apr 2011) Snow covered
Heaving (mm)	125			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		5	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	N	Snow covered
Beavers (Y/N)	No			
Downstream End General Rating		5	5	GR carried forward
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)	1.0			HWM(2000/06/22)
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading				Numerous beaverdams u/s & d/s.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2013	remove beaver dam u/s bevel					
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) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	56.1/57.0	Est. Repl. Yr	2028	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor u/s scour Monitor slide on u/s embankment		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	12-Jun-2016		Previous Inspection Date	01-Apr-2011			
Inspection Cycle (Default) (months)	39						
Comment							