

Bridge Culvert Inspection			
Bridge File Number	81934 -1 Bridge Culvert	Form Type	CUL1
Year Built	1993	Lot No.	4
Bridge or Town Name	KEG RIVER	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO KEMP RIVER, 8.10.31.1.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	35:10 C1 43.019	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	15-Nov-2011
Legal Land Location	SW SEC 1 TWP 101 RGE 23 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:37:57, 57:43:56	Data Entry Date	13-Dec-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA01	Review Date	12-Dec-2011
Clear Roadway/Skew	10.9 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	1,090 / 2010 (A)	Dept. Review Date	09-Jan-2012
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	-	3670	SP	35.4	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	East ditch	Gas	
Power	2 ROWS-11 wires o/h	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	SH 695 INTERSECTION 250M SOUTH
Vertical Alignment	7	8	
Roadway Width (m)	10.900		
Embankment	7	7	No visible problems thru snow.
Sideslope (__:1)	3.5		
(Height of Cover(m) : 1.5)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

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 :)			
Cutoff Wall	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	5	Wire mesh on the inlet. 300mm slice @ 9 o'clock
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	5	No visible problems thru snow.
Beavers (Y/N)	No			800 mm of silt in bevel.
Upstream End General Rating		6	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3670, Type: SP)				
Barrel Last Accessible Date	15-Nov-2011			(3725 x 3605 measured near c/l - 97/06/24)
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Covered with ice-floor. est
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	65			
Percent Sag				
Sidewall		7	6	near cl
Measured Span (mm)	3728			
Measured At Ring No.				
Deflection (mm)	58			
Percent Deflection	1			
Floor		N	N	Ice covered & silt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	6	
Separation (mm)	0			
Longitudinal Seams		5	6	2N Stagger
Total No. of Cracked Rings	0			
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		5	5	Pitting rust visible on sidewall. Alkaline deposit on roof bolts.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			

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		4	5	
Baffle		N	X	
(Type :)				
Waterway Adequacy		4	6	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	Yes			
Barrel General Rating		7	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	5	300 mm slice @ top of bevel N. side.
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	No visible problems thru snow.
Beavers (Y/N)	Yes			
Downstream End General Rating		6	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	8	
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
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							
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) (%)	77.8/66.7	Sufficiency Rating (Last/Now) (%)	55.9/61.5	Est. Repl. Yr	2032	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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	15-Aug-2013		Previous Inspection Date	16-Feb-2010			
Inspection Cycle (Default) (months)	21						
Comment							