

Bridge Culvert Inspection			
Bridge File Number	70242 -2 Bridge Culvert	Form Type	CUL1
Year Built/Lined	1959/2000	Lot No.	2
Bridge or Town Name	WANHAM	Inspector Name	Russel Vanderschaaf
Located Over	KAKUT CREEK, 8.10.58.11.3, WATERCRS-ST	Inspector Class	BR CLS B
Located On	733:04 C1 17.432	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	08-Nov-2011
Legal Land Location	SW SEC 27 TWP 76 RGE 3 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:23:18, 55:36:37	Data Entry Date	13-Dec-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05	Review Date	20-Nov-2011
Clear Roadway/Skew	9.1 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	610 / 2010 (A)	Dept. Review Date	10-Jan-2012
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	6		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
2	MAIN FULL LINER	-	3400	SP	146.3		3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	West r/w	Gas		
Power	20m east, 3 wire	Municipal		
Others		Problem (Y/N)	No	
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Deep gully
Vertical Alignment		5	5	
Roadway Width (m)	9.100			
Embankment		7	7	
Sideslope (_ :1)	3.0			
(Height of Cover(m) : 13.2)				
Guardrail (Y/N)	Yes			4 posts broken, 1 missing on West side.
Approach Road / Embankment General Rating		5	5	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	
Collar		5	5	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		5	6	
(Type : CONCRETE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	6	
Beavers (Y/N)	No			
Upstream End General Rating		5	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2 , Secondary Span, Location Code: MAIN , Span (mm): , Rise (mm): 3400 , Type: SP)				
Barrel Last Accessible Date	08-Nov-2011			
Special Features				
Special Feature				Note: Type : Elbow
(Type :)				
Special Feature				
(Type :)				
Roof		7	6	at 2nd circumferential seam in the liner plate, approx c/l.
Measured Rise (mm)	3310			
Measured At Ring No.				
Sag (mm)	90			
Percent Sag	3			
Sidewall		7	6	at 2nd circumferential seam in the liner plate, approx c/l.
Measured Span (mm)	3395			Liners installed in 1999. Damage to old liner (during construction) Ring 22 just before bend.
Measured At Ring No.				
Deflection (mm)	5			
Percent Deflection				
Floor		7	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
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)				1N stagger
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	5	
Corrosion By Soil (Y/N)	Yes			
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 # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3400, Type: SP)				
Fish Passage Adequacy		4	4	Hanging outlet
Baffle		X	X	
(Type :)				
Waterway Adequacy		4	4	Hanging outlet
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	6	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	2000			
Scour Protection		4	4	Gabion baskets coming apart at the end of the settling pond. Protruding from gabions 1.2m.
(Type : GABION)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	4	
Beavers (Y/N)	No			
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		5	5	
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	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	2012	Repair guardrail					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/66.7	Sufficiency Rating (Last/Now) (%)	55.1/52.1	Est. Repl. Yr	2040	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	08-Feb-2015		Previous Inspection Date	29-Aug-2008			
Inspection Cycle (Default) (months)	39						
Comment							