

Bridge Culvert Inspection				
Bridge File Number	71311 -2 Bridge Culvert		Form Type	CUL1
Year Built	2003		Lot No.	2
Bridge or Town Name	WOKING		Inspector Name	Brian Pientsch
Located Over	2ND ORDER TRIBUTARY TO SADDLE BURNT RIVER, 8.10.72.17.1, WATERCRS-ST		Inspector Class	BR CLS A
			Assistant Name	Clem Guenette
Located On	677:02 C1 13.623		Assistant Class	
Water Body Cl./Year			Inspection Date	05-Mar-2012
Navigabil. Cl./Year			Data Entry By	Theresa Lacusta
Legal Land Location	NE SEC 15 TWP 76 RGE 6 W6M		Data Entry Date	28-Mar-2012
Longitude, Latitude	-118:50:06, 55:35:32		Reviewer Name	Eric Carcoux
Road Authority	Alberta Transportation (AIT)		Review Date	27-Mar-2012
Contract Main. Area	CMA05		Dept. Reviewer Name	David Morrison
Clear Roadway/Skew	9.8 / 10 deg. (RHF)		Dept. Review Date	28-Aug-2012
AADT/Year	600 / 2011 (A)		Follow-Up By	
Road Classification	RAU-209-110			
Detour Length (km)	10			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	5230	SP	57.3	152X51	4.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	S. R/W		Gas	
Power	N. R/W 2 wire		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Approach and 77713 west.East of sag, NO PASSING.
Vertical Alignment		6	6	
Roadway Width (m)	9.000			
Embankment		5	3	Erosion 10mx10mx2.5m eep above d/s end of pipe.
Sideslope (_ :1)	2.0			
(Height of Cover(m) : 5.3)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		9	9	
Collar		N	8	(Small spalls from riprap placement 2005-07-26) Snow Covered.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	8	(50% sand Stone 2005-07-26)
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	8	
Beavers (Y/N)	No			
Upstream End General Rating		9	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 5230, Type: SP)				
Barrel Last Accessible Date	05-Mar-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		9	8	Floor silt covered.
Measured Rise (mm)				Silt to roof 4280mm
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		9	8	@ C.L.
Measured Span (mm)	5244			
Measured At Ring No.	7			
Deflection (mm)	14			
Percent Deflection	0			
Floor		N	N	1m silt on floor
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		9	9	
Separation (mm)				
Longitudinal Seams		9	9	
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		9	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 5230, Type: SP)				
Fish Passage Adequacy		9	9	
Baffle		X	N	Silt on floor
(Type : SPOILER)				
Waterway Adequacy		9	9	Silt and Gravel 1000mm deep
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		9	8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	9	
Collar		X	9	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	N	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Rating		9	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
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		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	2012	Replace 2 guardrail posts on North side.					
OTHER ACTION	2012	Repair erosion above pipe North embankment.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	100.0/88.9	Sufficiency Rating (Last/Now) (%)	98.5/89.1	Est. Repl. Yr	2049	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	Brian Pientsch		Previous Assistant's Name	Tim Miskiman			
Next Inspection Date	05-Jun-2015		Previous Inspection Date	08-Jan-2009			
Inspection Cycle (Default) (months)	39						
Comment							