

Bridge Culvert Inspection			
Bridge File Number	77713 -2 Bridge Culvert	Form Type	CULM
Year Built	2003	Lot No.	2
Bridge or Town Name	WOKING	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO SADDLE BURNT RIVER, 8.10.72.17, WATERCRS-ST	Inspector Class	BR CLS A
Located On	677:02 C1 13.462	Assistant Name	Clem Guenette
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	05-Mar-2012
Legal Land Location	NE SEC 15 TWP 76 RGE 6 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:50:15, 55:35:32	Data Entry Date	28-Mar-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05	Review Date	27-Mar-2012
Clear Roadway/Skew	9.8 /	Dept. Reviewer Name	David Morrison
AADT/Year	600 / 2011 (A)	Dept. Review Date	18-Oct-2012
Road Classification	RAU-209-110	Follow-Up By	
Detour Length (km)	18		

Bridge Culvert Information

Number of Culverts		2						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	4300	SP	61.57	152X51	4.0	ROUND
2	MAIN	-	4300	SP	61.57	152X51	4.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments					
Telephone	South r/w.	Gas			
Power		Municipal			
Others		Problem (Y/N)	No		
Remarks					

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Approaches E. and W. Bottom of a sag, no passing.
Vertical Alignment		6	6	
Roadway Width (m)	9.000			
Embankment		9	9	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 5.8)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		S		EAST CULVERT
End Treatment (Concrete, Steel, Others, None)		CONCRETE		
Headwall		9	9	
Collar		N	N	Covered in silt.
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Cutoff Wall		N	N	
Bevel End		N	N	Silt/drift buildup
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1800			
Scour Protection		N	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Upstream End General Rating		9	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4300, Type: SP)				
Barrel Last Accessible Date	05-Mar-2012			
Special Features				
Special Feature				Drift blocking inlet.
(Type :)				
Special Feature				
(Type :)				
Roof		9	8	Silt on floor. 2225mm silt to roof
Measured Rise (mm)				
Measured At Ring No.	8			
Sag (mm)	46			
Percent Sag				
Sidewall		9	8	
Measured Span (mm)	4326			
Measured At Ring No.	8			
Deflection (mm)	26			
Percent Deflection	1			
Floor		N	N	Silt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	8	
Separation (mm)	0			
Longitudinal Seams		N	8	
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		N	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4300, Type: SP)				
Camber POS/ZERO/NEG	POS			
Ponding (Y/N)	No			
Fish Passage Adequacy		9	4	Silt buildup throughout pipe.-photo
Baffle		X	X	
(Type :)				
Waterway Adequacy		3	4	2m silt in pipe.
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
(Pipe # : 1, Span Type: Primary Span)				
Direction		N		East culvert. 7ft fence d/s.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	N	Snow/silt covered.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	900			
Scour Protection		N	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Downstream End General Rating		9	5	
Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		S		West Culvert
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		9	9	
Collar		N	9	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Bevel End		N	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1800			
Scour Protection		N	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Upstream End General Rating		9	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4300, Type: SP)				
Barrel Last Accessible Date	05-Mar-2012			
Special Features				
Special Feature				7 ft. fence d/s
(Type :)				
Special Feature				
(Type :)				
Roof		9	8	Silt on floor. 3400mm silt/ice to roof.
Measured Rise (mm)				
Measured At Ring No.	8			
Sag (mm)	25			
Percent Sag				
Sidewall		9	8	
Measured Span (mm)	4303			
Measured At Ring No.	3			
Deflection (mm)	3			
Percent Deflection				
Floor		N	N	Silt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	8	
Separation (mm)	0			
Longitudinal Seams		N	8	
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		N	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 4300, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		N	6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		N	6	
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
(Pipe # : 2, Span Type: Secondary Span)				
Direction		N		West culvert. 7 ft. fence d/s/
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	900			
Scour Protection		N	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Downstream End General Rating		9	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	90d bend D/S
Bank Stability		6	6	Banks sloughing U/S
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)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		6	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2012	U/S end.					
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) (%)	100.0/88.9	Sufficiency Rating (Last/Now) (%)	76.2/60.3	Est. Repl. Yr	2048	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							