

Bridge Culvert Inspection				
Bridge File Number	79313 -1 Bridge Culvert		Form Type	CUL1
Year Built	1980		Lot No.	4
Bridge or Town Name	WHITECOURT		Inspector Name	Eric Carcoux
Located Over	CARSON CREEK, 8.11.108.1, WATERCRS-ST		Inspector Class	BR CLS A
Located On	32:12 C1 13.333		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	14-Oct-2012
Legal Land Location	NW SEC 23 TWP 61 RGE 12 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:42:05, 54:17:34		Data Entry Date	19-Dec-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Stew Hagan
Contract Main. Area	CMA12		Review Date	12-Dec-2012
Clear Roadway/Skew	9.2 / 30 deg. (RHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	2,050 / 2011 (A)		Dept. Review Date	21-Dec-2012
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	20			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2920	3230	SPE	94.5	152X51	4.2	ELLIPSE
Special Features								
Special Features Comment	Tagged at u/s end.							

Utilities (Located at)

Utility Attachments							
Telephone	West r/w.			Gas	East r/w.		
Power	6 wires East r/w.			Municipal			
Others				Problem (Y/N)	No		
Remarks							

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Access 75m North.
Vertical Alignment		6	6	Vertical crest, blind crest curve North & South.
Roadway Width (m)	9.200			
Embankment		N	5	Gullyng at toe of sideslopes on NE side, has stabilized with vegetation.
Sideslope (__:1)	3.0			
(Height of Cover(m) : 13)				
Guardrail (Y/N)	Yes			East side only.
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar		N	5	Shoulder slabs have settled 250mm.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	450			
Scour Protection		N	5	
(Type : CONCRETE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	5	
Beavers (Y/N)	Yes			60mm tall dam on inlet.
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2920, Rise (mm): 3230, Type: SPE)				
Barrel Last Accessible Date	14-Oct-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	
Measured Rise (mm)	3106			
Measured At Ring No.	10			
Sag (mm)	124			
Percent Sag	4			
Sidewall		7	7	Tear on wall
Measured Span (mm)	3006			
Measured At Ring No.	10			
Deflection (mm)	76			
Percent Deflection	3			
Floor		N	5	Ring 3 torn 75 x 25
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	Yes			
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				1N Stagger
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	6	Minor superficial rust lower 1/3 .
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2920, Rise (mm): 3230, Type: SPE)				
Ponding (Y/N)	No			(0.25m ponding due to drift D/S. Culvert still functioning. 20/July/2007)
Fish Passage Adequacy		6	6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream 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	6	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
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)	1.2			Waterline in barrel.-15-Dec-2010
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			Beaver dam U/S .
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	70.1/70.0	Est. Repl. Yr	2021	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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	14-Jul-2014		Previous Inspection Date	15-Dec-2010			
Inspection Cycle (Default) (months)	21						
Comment							