

Bridge Culvert Inspection				
Bridge File Number	08922 -1 Bridge Culvert		Form Type	CUL1
Year Built	1995		Lot No.	2
Bridge or Town Name	WHITECOURT		Inspector Name	Kris Bosters
Located Over	TRIBUTARY TO MCLEOD RIVER, 8.11.107.2, WATERCRS-ST		Inspector Class	BR CLS A
Located On	43:16 R1 0.966;43:16 L1 0.965		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	02-Oct-2011
Legal Land Location	NW SEC 26 TWP 59 RGE 12 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:41:22, 54:08:16		Data Entry Date	25-Oct-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA12		Review Date	22-Oct-2011
Clear Roadway/Skew	22.8 / 21 deg. (RHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	14,560 / 2010 (A)		Dept. Review Date	26-Oct-2011
Road Classification	RAD-412.4-120		Follow-Up By	
Detour Length (km)	5			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2200	MP	70	125X26	2.8	ROUND
Special Features	BARREL ELBOW							
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	North r/w.		Gas	
Power	4 wires South r/w, 6 wires North r/w.		Municipal	
Others	Fibre optics, North r/w.		Problem (Y/N)	No
Remarks	BF tag installed on top of South end concrete headwall.			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Town intersection 120 m East. At bottom of long hill to the east.
Vertical Alignment		6	6	
Roadway Width (m)	23.600			12.7 WBL, 10.9 EBL.
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 2.5)				
Guardrail (Y/N)	Yes			Creased, but functional.
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		7	7	
Collar		8	8	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 2200 , Type: MP)				
Barrel Last Accessible Date	16-Oct-2002			1.2m of water in pipe. Viewed from end, shape & condition look good, but cannot see through barrel.
Special Features				
Special Feature		N	N	
(Type : BARREL ELBOW)				
Special Feature				
(Type :)				
Roof		7	N	
Measured Rise (mm)	2190			5m North of elbow.
Measured At Ring No.				
Sag (mm)	10			(16/Oct/2002)
Percent Sag	1			
Sidewall		7	N	
Measured Span (mm)	2175			5m North of elbow.
Measured At Ring No.				
Deflection (mm)	25			(16/Oct/2002)
Percent Deflection	1			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	(Seam south of elbow has 100mm gap on one side to correct horizontal alignment, 2.6 degrees. 2002/10/16)
Separation (mm)	100			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		6	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Ponding (Y/N)	Yes			0.5m
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Type :)				
Waterway Adequacy		7	3	Siltation is reducing capacity of pipe by a significant amount.-photo Silted to within 600mm of crown at d/s end.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		N	N	G.R. was "7" from 16/Oct/2002.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	Small chip on top edge, minor.
Collar		8	8	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			Silt accumulation d/s.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

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	2011	Rewmove vegetation and silt from d/s end of pipe to minimize future silt buildup.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	62.1/48.5	Est. Repl. Yr	2054	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	Wade Nanninga		Previous Assistant's Name				
Next Inspection Date	02-Jul-2013		Previous Inspection Date	30-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							