

Bridge Culvert Inspection				
Bridge File Number	76687 -1 Bridge Culvert		Form Type	CUL1
Year Built	1967		Lot No.	2
Bridge or Town Name	FAUST		Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO LESSER SLAVE RIVER, 8.11.80.45, WATERCRS-ST		Inspector Class	BR CLS B
Located On	2:50 C1 14.954		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	12-Feb-2013
Legal Land Location	NE SEC 8 TWP 73 RGE 11 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:39:11, 55:18:57		Data Entry Date	13-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA06		Review Date	07-Apr-2013
Clear Roadway/Skew	9.8 / 0 deg.		Dept. Reviewer Name	
AADT/Year	1,800 / 2012 (A)		Dept. Review Date	
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2120	SP	67.7	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	Buried cable along South ditch.	Gas	
Power	6 wires OH North r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Approach to the West.
Vertical Alignment	8	8	
Roadway Width (m)	9.800		
Embankment	4	N	Gully approx 40m longx1m deepx1.5m wide along SE ditch.-30-Mar-2011
Sideslope (__:1)	4.0		
(Height of Cover(m) : 9.3)			Snow covered
Guardrail (Y/N)	Yes		
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	S		
End Treatment (Concrete, Steel, Others, None)	NONE		
Headwall	X	X	
Collar	X	X	
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	Bevel torn off - photo.
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			Couldn't tell due to snow.
Above/Below (mm)	400			
Scour Protection		4	N	Scour along SE and SW side of bevel.-30-Mar-2011
(Type : NONE)				Snow covered
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	N	SW bank scoured 3m wide x 2m deep x 3m long . SE bank scoured 2.5m wide x 20m deep x3m.30-Mar-2011
Beavers (Y/N)	No			
Upstream End General Rating		4	4	GR carried over from 30-Mar-2011
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2120, Type: SP)				
Barrel Last Accessible Date	23-Jul-2009			Ice to crown 0.75m at u/s end 0.3m. Culvert couldn't be inspected.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	N	Couldn't measure due to rock accumulation in pipe. Shape looks OK.-23-Jul-2009
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	62			Estimated sag.-23-Jul-2009
Percent Sag	3			
Sidewall		6	N	
Measured Span (mm)	2217			
Measured At Ring No.	6			
Deflection (mm)	97			
Percent Deflection	5			
Floor		N	N	Rock covered.-23-Jul-2009
Bulge (mm)	0			
Measured At Ring No.	10			
Abrasion (Y/N)	Yes			
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				1N stagger.-23-Jul-2009
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	Superficial rust on lower 1/2.-23-Jul-2009
Corrosion By Soil (Y/N)	Yes			
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): 2120, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	D/S perched outlet.-23-Jul-2009
Baffle		X	X	
(Type :)				
Waterway Adequacy		N	N	(Icing. 2006/03/13)
Icing (Y/N)	No			Rock.-23-Jul-2009
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		N	N	GR '6'-23-Jul-2009
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
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	Bevel cantilevered 1.0m over scour.-23-Jul-2009
Heaving (mm)	0			Snow covered.
Invert Above/Below Stream Bed	ABOVE			Couldn't tell due to ice/snow
Above/Below (mm)	600			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 100)				
Scour/Erosion		N	N	Scour around pipe. 14m long x 12m wide x 0.6 deep - photo.-23-Jul-2009 Snow covered.
Beavers (Y/N)	No			
Downstream End General Rating		3	3	GR carried forward.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			Degrading D/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	2013	50m3, Class 2 D/S & 30m3, Class 2 U/S.-carried over 30-Mar-2011					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2013	Repair U/S bevel.-carried over 30-Mar-2011					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	58.9/58.8	Est. Repl. Yr	2017	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	Lisbeth Medina			
Next Inspection Date	12-Nov-2014		Previous Inspection Date	30-Mar-2011			
Inspection Cycle (Default) (months)	21						
Comment							