

Bridge Culvert Inspection			
Bridge File Number	07075 -1 Bridge Culvert	Form Type	CUL1
Year Built	1974	Lot No.	2
Bridge or Town Name	LA GLACE	Inspector Name	Russel Vanderschaaf
Located Over	COLQUHOUN CREEK, 8.10.58.18.2.10, WATERCRS-ST	Inspector Class	BR CLS B
Located On	724:04 C1 13.358	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	11-May-2010
Legal Land Location	SW SEC 3 TWP 73 RGE 8 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:09:14, 55:17:25	Data Entry Date	11-Jun-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA05	Review Date	07-Jun-2010
Clear Roadway/Skew	8.2 /	Dept. Reviewer Name	Steve Pasquan
AADT/Year	1,020 / 2009 (A)	Dept. Review Date	19-Aug-2010
Road Classification	RCU-208-110	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	-	4900	SP	57.9	152X51	5.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West r/w	Gas	
Power	EAST r/w-2 wire, x's 100m north	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Farm entrance and road intersection 200m south. In sag curve no passing both directions.
Vertical Alignment	6	6	
Roadway Width (m)	8.200		
Embankment	8	4	0.5mDx0.3mWx8mL scour NW ditch.
Sideslope (__:1)	3.0		
(Height of Cover(m) : 6)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	X	X	
Collar	N	6	
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	800			
Scour Protection		N	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	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): 4900, Type: SP)				
Barrel Last Accessible Date	31-Jan-2007			Water 3.4m below crown - too high.
Special Features				
Special Feature				Shape to access pipe.
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	Estimated - 31-Jan-2007
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	133			
Percent Sag	3			
Sidewall		7	N	31-Jan-2007
Measured Span (mm)	4787			CL
Measured At Ring No.				
Deflection (mm)	133			
Percent Deflection	3			
Floor		N	N	Under water.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	
Separation (mm)	0			
Longitudinal Seams		7	N	
Total No. of Cracked Rings	0			@ 11 O'clock
Total No. of Rings with Two Cracked Seams				1N
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
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): 4900, Type: SP)				
Fish Passage Adequacy		8	8	
Baffle		N	N	
(Type :)				
Waterway Adequacy		8	4	Drift at u/s and over bevel-310g2 200to400mm in dia.-photo
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		7	N	GR 7 - 31-June-2007
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	X	
Bevel End		4	N	(Suspect 300mm & heaving looking at bolts and deformation next to top step bevel.-31-Jan-2007) Under water
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)		1200		
Scour Protection		N	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	7	
Beavers (Y/N)		No		
Downstream End General Rating		4	4	GR carried over 31-Jan-2007
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)				Drift on u/s bevel.
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading				Stable
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
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	2010	Place 5m3 of class 1 riprap in NW ditch.					
REMOVE DRIFT ACCUMULATION	2010	On u/s end bevel.					
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) (%)	77.8/55.6	Sufficiency Rating (Last/Now) (%)	76.5/54.0	Est. Repl. Yr	2019	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	Colin Roy		Previous Assistant's Name				
Next Inspection Date	11-Aug-2013		Previous Inspection Date	31-Jan-2007			
Inspection Cycle (Default) (months)	39						
Comment							