

Bridge Culvert Inspection			
Bridge File Number	75831 -1 Bridge Culvert	Form Type	CUL1
Year Built	1985	Lot No.	1
Bridge or Town Name	FISHER HOME	Inspector Name	Owen Salava
Located Over	TRIBUTARY TO PIGEON LAKE, 5.62.4.4, WATERCRS-ST	Inspector Class	BR CLS A
Located On	771:06 C1 12.569	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	06-Feb-2013
Legal Land Location	SW SEC 12 TWP 47 RGE 2 W5M	Data Entry By	Marcia Chavez
Longitude, Latitude	-114:10:21, 53:02:14	Data Entry Date	07-Mar-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA17	Review Date	14-Feb-2013
Clear Roadway/Skew	12 / 40 deg. (RHF)	Dept. Reviewer Name	Chris Black
AADT/Year	690 / 2011 (A)	Dept. Review Date	28-Mar-2013
Road Classification	RCU-210-110	Follow-Up By	
Detour Length (km)	13		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1600	MP	62	68X13	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West r/w.	Gas	
Power	Crosses road approx 60m North.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Access 15m South. Curve to North.
Vertical Alignment	7	7	Hill to South & North.
Roadway Width (m)	12.000		
Embankment	5	5	
Sideslope (:1)	3.0		
(Height of Cover(m) : 5)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	5	7	

Upstream 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	X	
(Shape :)			
Cutoff Wall	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	N	Snow covered.
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	4	Snow covered; probable scour at SW shoulder (photo).
Beavers (Y/N)	Yes			Possible dam u/s.
Upstream End General Rating		6	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP)				
Barrel Last Accessible Date	06-Feb-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		2	2	Unable to confirm due to ice; rating carried forward based on appearance.
Measured Rise (mm)	1350			
Measured At Ring No.	6			
Sag (mm)	250			15.6%
Percent Sag	16			
Sidewall		3	3	
Measured Span (mm)	1838			
Measured At Ring No.	3			14.9%
Deflection (mm)	238			
Percent Deflection	15			
Floor		6	N	(Bulges along North sidewall on 2/3 of pipe. 12Feb2010) - Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	Some separation. Some have been bolted.
Separation (mm)	150			
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		4	4	Some pitting extending into sidewall.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
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): 1600, Type: MP)				
Fish Passage Adequacy		3	3	Due to beaver dam, some scour holes and drift.
Baffle		X	X	
(Type :)				
Waterway Adequacy		3	3	Based on scour at outlet; address when pipe replaced.
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		2	2	
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		X	X	
Bevel End		5	5	Small trees growing at shoulders.
Heaving (mm)	0			
Invert Above/Below Stream Bed		ABOVE		
Above/Below (mm)	0			
Scour Protection		4	N	Snow covered.
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	4	Large scour hole, 1m x 8m x 15m. Snow indicates still here.
Beavers (Y/N)		No		
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Culvert)				No HWM visible.
Drift (Y/N)		Yes		
Channel Bottom Degrading/Aggrading		DEGRADING		
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
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	2013	Restore fill along u/s bevel & add rock riprap at both ends.					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS	2013						
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2020	Replace pipe.					
OTHER ACTION	2016	Concrete floor if invert softens or perforates.					
OTHER ACTION	2013	Remove beaver dam.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	22.2/22.2	Sufficiency Rating (Last/Now) (%)	26.3/24.3	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	LRA emailed to Donald Saunders on 12Feb2013.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	06-May-2016		Previous Inspection Date	12-Feb-2010			
Inspection Cycle (Default) (months)	39						
Comment							