

Bridge Culvert Inspection			
Bridge File Number	74800 -1 Bridge Culvert	Form Type	CUL1
Year Built	1957	Lot No.	4
Bridge or Town Name	MOSSLEIGH	Inspector Name	Garry Roberts
Located Over	TRIBUTARY TO WEST ARROWWOOD CREEK, 2.13.18.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	547:04 C1 2.275	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	03-Jan-2012
Legal Land Location	SE SEC 28 TWP 20 RGE 24 W4M	Data Entry By	Anne Roberts
Longitude, Latitude	-113:15:38, 50:43:05	Data Entry Date	30-Jan-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Joel Wozney
Contract Main. Area	CMA25	Review Date	04-Jan-2012
Clear Roadway/Skew	8.5 /	Dept. Reviewer Name	Tim Davies
AADT/Year	940 / 2010 (A)	Dept. Review Date	06-Feb-2012
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	6		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1524	MP	30.7	68X13		ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	2 wire 15m north	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Field entrance E&W
Vertical Alignment		5	5	Sag curve, no passing WB
Roadway Width (m)	8.200			
Embankment		N	5	
Sideslope (__:1)	2.0			
(Height of Cover(m) : 5.5)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		5	5	

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	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
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): 1524 , Type: MP)				
Barrel Last Accessible Date	03-Jan-2012			Lined with 1200mm steel pipe- 12mm steel wall thickness.
Special Features				
Special Feature				New 1600mm ends, no bevel @ 68x13 corrugation.
(Type :)				
Special Feature				
(Type :)				
Roof		N	8	
Measured Rise (mm)	1620			
Measured At Ring No.	1			
Sag (mm)				
Percent Sag				
Sidewall		N	8	
Measured Span (mm)	1580			
Measured At Ring No.	1			
Deflection (mm)	20			
Percent Deflection	2			
Floor		N	8	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	8	Lined with smooth wall steel pipe Welded seams in SWP
Separation (mm)	0			
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	5	Rating for CSP ends is "7" Liner is unpainted steel- light surface corrosion.
Corrosion By Soil (Y/N)	No			
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): 1524, Type: MP)				
Fish Passage Adequacy		X	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		4	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	1600mm CSP
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Iced over
Above/Below (mm)	150			
Scour Protection		N	5	Gravel around end, minimal rock @ invert
(Type : GRAVEL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Downstream End General Rating		4	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	100m.east is a 600mm csp
Bank Stability		5	7	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
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) (%)	77.8/88.9	Sufficiency Rating (Last/Now) (%)	63.6/75.8	Est. Repl. Yr	2030	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	03-Apr-2015		Previous Inspection Date	05-Feb-2010			
Inspection Cycle (Default) (months)	39						
Comment							