

Bridge Culvert Inspection			
Bridge File Number	79311 -1 Bridge Culvert	Form Type	CUL1
Year Built	1991	Lot No.	4
Bridge or Town Name	OLDS	Inspector Name	Owen Salava
Located Over	TRIBUTARY TO LONEPINE CREEK, 3.46.21.6, WATERCRS-ST	Inspector Class	BR CLS A
Located On	2:20 R1 32.938;2:20 L1 32.938	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	12-Mar-2013
Legal Land Location	SW SEC 25 TWP 32 RGE 1 W5M	Data Entry By	Marcia Chavez
Longitude, Latitude	-114:01:31, 51:46:15	Data Entry Date	27-Mar-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA29	Review Date	17-Mar-2013
Clear Roadway/Skew	41 / -4 deg. (LHF)	Dept. Reviewer Name	Chris Black
AADT/Year	26,880 / 2011 (A)	Dept. Review Date	28-Mar-2013
Road Classification	RFD-412.4-130	Follow-Up By	
Detour Length (km)	1		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2700	MP	146	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	1 wire o/h, W r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	9	9	Hwy 2 N, S, E, W, service roads.
Vertical Alignment	9	9	
Roadway Width (m)	41.000		
Embankment	5	5	(8m lg x 3m wide x 1m dp erosion at SW. Rock lined at bottom. 10Aug2011) - Snow covered.
Sideslope (:1)	3.0		
(Height of Cover(m) : 2.5)			
Guardrail (Y/N)	Yes		On service roads only.
Approach Road / Embankment General Rating	9	9	

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		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	N	Well ingrown; snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 2700 , Type: MP)				
Barrel Last Accessible Date	12-Mar-2013			Some minor install damage throughout.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	6	Patched hole & localized 100mm deformations at roof & sidewalls. Unable to measure due to ice.
Measured Rise (mm)	2600			
Measured At Ring No.	4			
Sag (mm)	30			(10Aug2011)
Percent Sag	1			
Sidewall		6	6	Patched hole & localized 100mm deformations at roof & sidewalls.
Measured Span (mm)	2730			
Measured At Ring No.	4			
Deflection (mm)	30			
Percent Deflection	1			
Floor		4	N	(FLOOR HEAVED 70 mm @ section #5. 10Aug2011) - Ice.
Bulge (mm)	70			
Measured At Ring No.	5			
Abrasion (Y/N)	No			
Circumferential Seams		5	5	@ 3rd seam from u/s; no infiltration.
Separation (mm)	85			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		6	6	Minor superficial corrosion - visible through ice.
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): 2700, Type: MP)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
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		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		8	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		8	N	Well Ingrown; snow covered.
Beavers (Y/N)	No			
Downstream End General Rating		8	8	
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)	1.0			Flow line on wall.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	75.9/75.8	Est. Repl. Yr	2036	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	12-Dec-2014		Previous Inspection Date	10-Aug-2011			
Inspection Cycle (Default) (months)	21						
Comment							