

Bridge Culvert Inspection			
Bridge File Number	81105 -1 Bridge Culvert	Form Type	CUL1
Year Built	1986	Lot No.	4
Bridge or Town Name	GRANDE CACHE	Inspector Name	Russel Vanderschaaf
Located Over	TRIBUTARY TO SMOKY RIVER, 8.10.58.29, WATERCRS-ST	Inspector Class	BR CLS B
Located On	40:36 C1 27.226	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	23-Aug-2012
Legal Land Location	NW SEC 3 TWP 59 RGE 7 W6M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-118:58:27, 54:04:25	Data Entry Date	26-Sep-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA05	Review Date	24-Sep-2012
Clear Roadway/Skew	10.2 / 0 deg.	Dept. Reviewer Name	Steve Pasquan
AADT/Year	1,220 / 2011 (A)	Dept. Review Date	07-Jan-2013
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	60		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	3080	2465	RPP	37.8	152X51	4.0	PIPE ARCH
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	LONG GRADUAL CURVE - GOOD SIGHT DISTANCE
Vertical Alignment		8	8	
Roadway Width (m)	10.200			
Embankment		8	8	
Sideslope (__:1)	4.0			
(Height of Cover(m) : 3)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		8	8	

Upstream 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	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	5	Fill settled on both sides of barrel 0.3m.
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 400)		N	6	Mostly sandstone.
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): 3080 , Rise (mm): 2465 , Type: RPP)				
Barrel Last Accessible Date	23-Aug-2012			
Special Features				
Special Feature (Type :)				No rise measurements due to gravel on floor.- 450mm deep
Special Feature (Type :)				
Roof		7	7	
Measured Rise (mm)				
Measured At Ring No.	6			Sag est - shape looks good. No rise measurements due to ice/gravel on floor.
Sag (mm)	32			
Percent Sag	17			
Sidewall		7	7	
Measured Span (mm)	3122			
Measured At Ring No.	6			
Deflection (mm)	42			
Percent Deflection	1			
Floor		N	N	Gravel on floor - 450mm deep.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	0			
Longitudinal Seams		8	8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			
Coating		7	7	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
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): 3080, Rise (mm): 2465, Type: RPP)				
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	5	Gravel 450mm deep
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	7	Mostly grown over.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	Makes smooth bend u/s
Bank Stability		8	8	
HWM (m below Top of Culvert)	2.0			(SILT DEPOSITS ON BANK - 00/01/25)
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
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															
<table border="1"> <tr> <td>Structural Condition Rating (Last/Now) (%)</td> <td>77.8/77.8</td> <td>Sufficiency Rating (Last/Now) (%)</td> <td>77.1/65.5</td> <td>Est. Repl. Yr</td> <td>2031</td> <td>Maint. Reqd. (Y/N)</td> <td>No</td> </tr> </table>								Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	77.1/65.5	Est. Repl. Yr	2031	Maint. Reqd. (Y/N)	No
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	77.1/65.5	Est. Repl. Yr	2031	Maint. Reqd. (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	Russel Vanderschaaf		Previous Assistant's Name												
Next Inspection Date	23-May-2014		Previous Inspection Date	19-Nov-2010											
Inspection Cycle (Default) (months)	21														
Comment															