				Bridg	e Culve	ert Insp	ection						
Bridge File Number	lge File Number 80702 -1 Bridge Culvert 1986 Ige or Town Name GRANDE CACHE ated Over TRIBUTARY TO SMOKY RIVER, WATERCRS-ST ated On 40:36 C1 35.724 Iter Body Cl./Year al Land Location NE SEC 8 TWP 59 RGE 6 W6M gitude, Latitude -118:51:08, 54:05:34 ad Authority Alberta Transportation (AIT) ater Roadway/Skew 10.2 / 10 deg. (RHF)					Form Type			CUL1				
Year Built						Lot No.		4					
Bridge or Town Nar	ne GRAN	DE CACHE				Inspector Name		Russel Vanderschaaf					
Located Over	TRIBU	TARY TO SMOR	KY RIVER	R, 8.10	.58.25,			BR CLS B					
Located On						Assistant Name							
		51 33.724				Assistant Class							
	ar					Inspection Date		23-Aug-2012					
	- NE CE	C 0 TWD 50 DC	-			Data Entry By		Lisa Fairhurst					
			E 6 WOIV	ı		Data Entry Date			28-Sep-2012				
Longitude, Latitude -118:51:08, 54:05:34						Reviewer Name			Eric Carcoux				
Road Authority Alberta Transportation (AIT)						Review	Review Date 24-Sep-2012						
						Dept. Reviewer Name Steve Pasquan							
Clear Roadway/Skew 10.2 / 10 deg. (RHF) AADT/Year 1,220 / 2011 (A)						Dept. Review Date		07-Jan-2013					
AADT/Year 1,220 / 2011 (A) Road Classification RAU-211.8-110					Follow	-Up By							
		11.8-110	.8-110										
Detour Length (km)													
Bridge Culvert Info													
Number of Culverts		1		-									
Pipe # Bar	rel	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MAI	IN	-	2134		SP		121.3		152X51	5.0	ROUND		
Special Features	Features FLOOR ABR PLATES, BARREL ELB					OW							
Special Features Comment													
				1 14	lities (l	ocated	at)						
Utility Attachments				- C.I	iiiioo (L	<u>-ccatcc</u>	acj						
Telephone						Gas							
						Munici	nal						
Power Others							m (Y/N)	No					
Remarks							,						
Approach Road / Embankment													
				Last	Now	Explar	nation of	Condi	tion				
Horizontal Alignment		6	6	On a g	On a gentle curve and a grade (est 4%). No passing SB due to a crest								
Horizontal Alignment Vertical Alignment					4	curve.	curve. 7% Grade to the west.						
Roadway Width (m))	10.200											
Embankment			7	7	D/S has 1:1 and > 5			slopes 21m D/S	S.				
Sideslope (:1)		1.0											
(Height of Cover(m) : 9)												
Guardrail (Y/N)		Yes											
Approach Road / B	Embankme	ent General Rat	ing	4	4								
					Upstre	am Enc							
Culvert Componer	nt			Last	Now	1	nation of	Condi	tion				
Direction				N									
End Treatment (Co Others, None)	ncrete, Ste	el, CONCRETE											
Headwall		7	7										
Collar		Х	Х										
Wingwalls			7	7									
(Shape:)													

80702 -1 Bridge Culvert

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall		N	N							
Bevel End		X	X							
Heaving (mm)	0			-						
Invert Above/Below Stream Bed										
Above/Below (mm)	500									
Scour Protection	000	N	7	80% Sandstone						
(Type : RIP RAP)				- Con Sandsone						
(Avg. Rock Size(mm) : 400)										
Scour/Erosion		N	7							
	I	'`	L'							
Beavers (Y/N)	No		_							
Upstream End General Rating		7	7							
				Ivert Barrel						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca		an (mm	1):	, Rise (mm): 2134, Type: SP)						
Barrel Last Accessible Date	23-Aug-2012									
Special Features										
Special Feature		7	7	Heavy abrasion. No perforations.						
(Type: FLOOR ABR PLATES)				Plates at 2 and 4 bent. AT ring 25						
Special Feature		7	7							
(Type : BARREL ELBOW)										
Roof		7	7	Assume 50mm for plates						
Measured Rise (mm)	2139									
Measured At Ring No.	23									
Sag (mm)	5									
Percent Sag	1									
Sidewall		7	7							
Measured Span (mm)	2014									
Measured At Ring No.	23									
Deflection (mm)	40									
Percent Deflection	2									
Floor		7	N	Abrasion plates						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	Yes									
Circumferential Seams		7	7							
Separation (mm)	0									
Longitudinal Seams		7	7							
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams				3N Stagger						
Min. Remaining Steel										
Between Cracks (mm) Proper Lap (Y/N)	Yes									
Longitudinal Stagger (Y/N)	Yes									
	1 53	6	G	Minor superficial on abrasion plates						
Coating	No	6	6	Minor superficial on abrasion plates.						
Corrosion By Soil (Y/N)	No			-						
Corrosion By Water (Y/N)	Yes			<u> </u>						
Camber POS/ZERO/NEG	ZERO									

Bridge Culvert Barrel								
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 2134, Type: SP)				
Ponding (Y/N)	No							
Fish Passage Adequacy		4	4	Too steep				
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		4	4					
Icing (Y/N)	No			Minor rock and drift buildup at inlet				
Silting (Y/N)	Yes							
Drift (Y/N)	Yes							
Barrel General Rating		7	7					
		D	ownstr	ream End				
Culvert Component		Last		Explanation of Condition				
Direction		S	,					
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall		7	7					
Collar		Х	Х					
Wingwalls		7	7					
(Shape:)								
Cutoff Wall		N	N					
Bevel End		Х	Х					
Heaving (mm)	0							
Invert Above/Below Stream Bed								
Above/Below (mm)	0							
Scour Protection		N	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 600)		T	1					
Scour/Erosion		N	7					
Beavers (Y/N)	No							
Downstream End General Ratio	ng	7	7					
		s	tructu	re Usage				
		Last		Explanation of Condition				
Channel (U/S and D/S)								
Alignment		8	8					
Bank Stability		7	7					
HWM (m below Top of Culvert)	2.1			Minor rock and drift buildup at inletphoto				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading	DEGRADING			DEG D/S				
Beavers (Y/N)	Yes							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7	8					

		Maintenance R	ecommend	dations					
Inspector Recommendations	Year	Inspector Comments		Department Comm	ents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	6								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 77.8/77	.8 Sufficiency Rating (Last (%)	/Now)	47.7/48.3	Est. Repl. Yr	2031	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	stimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name Russel Vanderschaaf Previo			Previous	Assistant's Name					
Next Inspection Date	23-May-2014		Inspection Date 19-Nov-2010						
Inspection Cycle (Default) (months)	21								
Comment									