Bridge Culvert Inspection													
Bridge File Number	r 70946 ·	70946 -1 Bridge Culvert				Form Type			CUL1				
Year Built	1990	1990				Lot No.			1				
Bridge or Town Nar	me VERMI	LION				Inspect	or Name		Owen Salava				
Located Over	GRIZZI	Y BEAR CREE	EK, 5.11, \	NATE	RCRS-	Inspect	or Class		BR CLS A				
Located On	610:06	9.06 C1 11 670					nt Name						
Water Body CL/Ver	or 013.00	0111.070				Assista	nt Class						
Navigabil CL/Vear					Inspection Date			07-Nov-2012					
Legal Land Location				M		Data E	Entry By Marcia Chavez						
	-110.42	0 23 TWT 40 T		111	Data Entry Da				20-Nov-2012				
Road Authority	ority Alberta Transportation (AIT)					Reviewer Name		John O'Brien					
Contract Main, Area	CMA15				Review Date			14-Nov-2012					
Clear Roadway/Ske	w 9.7 / 30 dea. (RHF)				Dept. Reviewer Name			Andrew Smikles					
AADT/Year	ar 510 / 2011 (A)				Dept. Review Date			26-Nov-2012					
Road Classification	RCU-2	RCU-209-110				- Follow-Up By							
Detour Length (km)	15												
Bridge Culvert Info	Bridge Culvert Information												
Number of Culverts	5	1											
Pipe # Bar	rel	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MA	IN	4090	4515		SPE		96.3		152X51	4.0	ELLIPSE		
Special Features													
Special Features C	omment												
				IJti	ilities (l	ocated	at)						
Utility Attachments					intree (L	looutou	ut)						
Telephone Gas													
Power		Municipal											
Others				Probler	Problem (Y/N) No								
Remarks													
Approach Road / Embankment													
Last Now						Explanation of Condition							
Horizontal Alignment				8	8	Leng steep grade in both directions.							
				U	Limited signt distance but passing allowed in valley.								
Roadway Width (m)	9.700											
Embankment				8	8								
Sideslope (:1)		2.5											
(Height of Cover(m) : 8.5)	_											
Guardrail (Y/N)		Yes											
Approach Road / B	Embankme	nt General Rat	ing	6	6								
					Upstrea	am End							
Culvert Componer	nt			Last	Now	Explan	ation of C	ondit	ion				
Direction				N									
End Treatment (Co Others, None)	ncrete, Stee	el, CONCRETE	E										
Headwall				5	5	Vertica photo.	l cracks ha	ave de	eveloped in hea	dwall. Wide 7r	nm @ crown -		
Collar				N	N	Snow covered.							
Wingwalls				Х	X								
(Shape:)													

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall		N	N							
Bevel End			6	Heaving estimated.						
Heaving (mm)	800									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	600									
Scour Protection		N	5	Snow covered - partially.						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 350)										
Scour/Erosion			5							
Beavers (Y/N)	No									
Upstream End General Rating		5	5							
Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 4090	, Rise (mm): 4515, Type: SPE)						
Barrel Last Accessible Date	21-Feb-2000			(1930mm from crown to ice. 21Feb2000). Design 4090 x 4515. Viewed from ends & appears W wall at 1/3 L might be cracked. Slushy ice.						
Special Features										
Special Feature										
(Type :)										
Special Feature										
(Type :)										
Roof		N	N	Est roof sag @ 8%. (Roof slightly flattening beginning @ 20mm in						
Measured Rise (mm)				from both ends. Numerous swallow nests attached to root of pipe.						
Measured At Ring No.										
Sag (mm)										
Percent Sag	8									
Sidewall		N	N	(Span 4430mm. 8% deflection. Covered with ice. 00/02/21)						
Measured Span (mm)	4430									
Measured At Ring No.				-						
Deflection (mm)	340			-						
Percent Deflection	8									
Floor		N	N							
Bulge (mm)				-						
Measured At Ring No.				-						
Abrasion (Y/N)										
Circumferential Seams		N	N							
Separation (mm)	0									
Longitudinal Seams		N	N	West wall at 1/3 L might be cracked. (No cracks in visible seams.						
Total No. of Cracked Rings	0			UU/UZ/Z1)						
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	Yes									
Longitudinal Stagger (Y/N)	Yes									
Coating		6	6							
Corrosion By Soil (Y/N)	Yes									
Corrosion By Water (Y/N)	Yes									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

70946 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 4090	, Rise (mm): 4515, Type: SPE)					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								
Fish Passage Adequacy		8	8						
Baffle		Х	Х						
(Type :)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4	G.R. carried forward since 21/Feb/2000.					
Culvert Component		D	ownstr	eam End					
Direction		Last	NOW	Explanation of Condition					
Direction	OTEEL	5							
Others, None)	STEEL								
Headwall		X	X						
Collar			X						
Wingwalls		Х	X						
(Shape :)									
Cutoff Wall		Х	X						
Bevel End		7	7						
Heaving (mm)	600								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	1100								
Scour Protection		N	7	Snow covered - partially.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 350)									
Scour/Erosion		N	7						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	7	7						
			4						
			Now	e Usage					
Channel (II/S and D/S)		Lasi	NOW						
Alignment		6	6	U/S entry at 60 degree corner.					
Bank Stability		7	5	Vertical bank erosion just beyond NE rock riprap.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom	DEGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	6						

Maintenance Recommendations											
Inspector Recommendations		Inspecto	or Comments		Department Comm	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	2013	Dewate	r & Lvl 2 insepction.								
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		/44.4	4.4 Sufficiency Rating (Las (%)		59.0/58.4	Est. Repl. Yr	st. Repl. Yr 2029		Maint. Reqd. (Y/N)		
Special Comments for Next Inspection	sidewall defle osion with ph	ction and loc oto looking u	ok for cracks. J/s.		Department Comments						
Maintenance Reviewed By					Date		I	Estimated Total	0		
Proposed Long-Term Strategy							, i				
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Owen Salav	wen Salava			Previous Assistant's Name						
Next Inspection Date 07-Fe		7-Feb-2016			Previous Inspection Date 27-Jan-2010						
Inspection Cycle (Default) (months) 39											
Comment											