					Bridg	e Culve	ert Insp	ection						
Bridge File Number 71090		71090 -1	1090 -1 Bridge Culvert					уре		CUL1				
Year Built	/ear Built 1965						Lot No.			3				
Bridge or Town	Name	NEVIS					Inspector Name			Owen Salava				
Located Over	aar Built 1965 idge or Town Name NEVIS idge or Town Name NEVIS autors of Cl/Year TAIL C SW SE ingitude, Latitude -113:04 SW SE ingitude, Latitude -113:04 Alberta ontract Main. Area CMA20 ear Roadway/Skew 13.4 / 0 ADT/Year 1,350 / ad Classification RAU-2 etour Length (km) 2 idge Culvert Information Imber of Culverts oe # Barrel MAIN pecial Features pecial Features Comment ility Attachments lephone ower hers emarks		EEK, 3.65, W/	ATERCR	S-ST		Inspector Class		BR CLS A					
Located On	24	12:12 C1	20.764				Assista	ant Name						
Water Body Cl.	/Year						Assistant Class							
Navigabil. CI./Y	'ear	0.000			Inspection Date			30-Aug-2012						
Legal Land Location SW SEC 2			; 23 TWP 39 RGE 22 W4M					ntry By		Marcia Chavez				
Longitude, Latitude -113:04:0 Road Authority Alberta Tr			03, 52:21:57					ntry Date	•	17-Sep-2012				
Road Authority Alberta Tr Contract Main, Area CMA20			ransportation	(ALL)			Reviewer Name			John O'Brien				
Contract Main. Area CMA20								/ Date		06-Sep-2012				
Clear Roadway/Skew 13.4 / 0 d							Dept. Reviewer Name		Andrew Smiki	es				
AAD1/Year	AADT/Year 1,350 / 20		011 (A)		Dept. Review Date		18-Sep-2012							
Road Classifica		RAU-213	5.4-110		Follow-Up By									
Detour Length (km) 2														
Bridge Culvert Information														
Pipe #	Barrel	S	span	n Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab	Shape		
1	ΜΔΙΝΙ			1900		SP		5/ 9		152851	THICKNESS			
Special Feature	26			1000		01		04.0		102/01		ROOND		
Special Feature	es Comn	nent												
opeolari eatar														
					Uti	lities (L	ocated	at)						
Utility Attachme	ents						1							
Telephone							Gas							
Power							Munici	Municipal						
Others	_						Problem (Y/N) No							
Remarks														
				A	pproac	ch Road	d / Emb	ankment	<b>o</b> "'					
Horizontal Alignment			Last	NOW	In curve with super elevation Field access @ NE/SE Hill to the									
					5	5	West.	No passin	ng WB.	valion. Field ad				
venical Alignment					5	5	On sup	erelevation	on.					
Roadway Width	Roadway Width (m)		13.400											
Embankment	Embankment				5	5	North end measured.							
Sideslope (	_:1)		3.0											
(Height of Co	ver(m):	6)			1									
Guardrail (Y/N)			Yes											
Approach Roa	ad / Emb	ankment	t General Rat	ing	5	5								
						Upstre	am End							
Culvert Comp	onent				Last	Now	Explar	ation of	Condit	ion				
Direction			1		N									
End Treatment Others, None)	(Concre	ete, Steel,	STEEL											
Headwall					X	X								
Collar	Collar				Х	X								
Wingwalls					X	Х	Cage a	at end with	h beave	er dam.				
(Shape:)														
Cutoff Wall					X	Х								

Alberta Transportation

	Upstream End									
Culvert Component		Last	Now	Explanation of Condition						
Bevel End	1	6	6							
Heaving (mm)	0									
Invert Above/Below Stream Bed				_						
Above/Below (mm)	0									
Scour Protection		5	5	_						
(Type : NATURAL)				_						
(Avg. Rock Size(mm) : )			1							
Scour/Erosion		5	5							
Beavers (Y/N)	Yes									
Upstream End General Rating			5							
		Bric	lge Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 1800, Type: SP)						
Barrel Last Accessible Date	27-Feb-2009			Viewed from outlet, water 0.7m deep, shape OK.						
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof		N	N	(Numerous local spot corrosion with small perforations. < than 20mm						
Measured Rise (mm)	Measured Rise (mm)			dia. 27Feb2009).						
Measured At Ring No.										
Sag (mm) 60				(Est  3% - same as roof  27Eeb2000)						
Percent Sag	3			$(131.3\%)^{-3}$ same as 1001. 211 eb2003).						
Sidewall			N	(Lower sidewall seam under water - not visible.						
Measured Span (mm)	1860			Numerous local spot corrosion with perforations < than 25mm dia -						
Measured At Ring No.	9									
Deflection (mm)	60									
Percent Deflection	3									
Floor		N	N	Water						
Bulge (mm)										
Measured At Ring No.										
Abrasion (Y/N)										
Circumferential Seams		N	N							
Separation (mm)	0									
		N	N	Lower seam under ice.						
Total No. of Cracked Rings	0			Longitudinal seams rusting where visible. 27Feb2009).						
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)				(All visible seams properly lapped. 27Feb2009).						
Proper Lap (Y/N) No										
Longitudinal Stagger (Y/N) Yes										
		N N		(Corrosion on roof & sidewall with small perforations						
Corrosion By Soil (V/N)	Yes	IN	11	Alkali staining at upper seams. 27Feb2009).						
Corrosion By Water (V/N)	Yes									
Camber POS/ZERO/NEG	ZERO									
Donding (V/N)	No									
Fonding (T/N)	INO									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

71090 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı):	, Rise (mm): 1800, Type: SP)						
Fish Passage Adequacy		5	4	Blocked by beaver dam.						
Baffle		Х	Х							
(Type : )										
Waterway Adequacy		4	4	Rating based on previous silting condition.						
Icing (Y/N)	Icing (Y/N) No			(Silt at U/S to 0.4m. 27Feb2009).						
Silting (Y/N)	Silting (Y/N) Yes			_						
Drift (Y/N)	No									
Barrel General Rating		4	4	GR based on element ratings from 27Feb2009.						
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction	1	S		-						
End Treatment (Concrete, Steel, Others, None)	nd Treatment (Concrete, Steel, STEEL Others, None)									
Headwall		X	X							
Collar		X	Х							
Wingwalls		Х	Х							
(Shape : )										
Cutoff Wall		X	X							
Bevel End		5	5	50% of bevel under water/mud.						
Heaving (mm) 0										
Invert Above/Below Stream Bed BELOW										
Above/Below (mm) 200										
Scour Protection			5	-						
(Type : <b>RIP RAP</b> )				-						
(Avg. Rock Size(mm) : 200)										
Scour/Erosion			5	Eroding 5m East but not affecting bevel. Also ditch erosion 4m to W.						
Beavers (Y/N)	avers (Y/N) No									
Downstream End General Rati	ng	5	5							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)			-							
Alignment			5	Pond 15 m wide by 50 m long at inlet.						
Bank Stability			5							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N) No										
Channel Bottom DEGRADING Degrading/Aggrading				Dam at U/S.						
Beavers (Y/N) Yes										
(Fish Compensation Measure 1 :	NONE)			-						
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		5	5							

Maintenance Recommendations											
Inspector Recommendations	Ye	ear	Inspector	r Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION	20	012	Remove to openin	dam @ inlet & realign	North channel						
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 44	4.4/44.4	1	Sufficiency Rating (L (%)	ast/Now)	46.7/40.4	Est. Repl. Yr	2020	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments					
Maintenance Reviewed By						Date		E	Estimated Total	0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Owen Salava				Previous	Previous Assistant's Name					
Next Inspection Date	30-May-2014			Previous	Previous Inspection Date 26-Aug-2010						
Inspection Cycle (Default) (months)	21										
Comment											