Bridge Culvert Inspection													
Bridge File Num	ber	74121	-1 Bridge Culve	rt			Form 7	уре		CUL1			
Year Built		1953					Lot No			4			
Bridge or Town I	Name	HANNA	4				Inspec	tor Name		Owen Salava			
Located Over	ocated Over 2ND ORDER TRIBUTARY TO BE 3.14.10.3, WATERCRS-ST			BERRY	CK,	Inspector Class			BR CLS A				
Located On		9:10 C		3-01				ant Name					
Water Body Cl./		9.10 C	1 7.111					ant Class					
							Inspec	tion Date		03-Nov-2011			
Navigabil. Cl./Ye		S/W SE	C 2 TWP 31 R	CE 12 \\\\	11.4		Data E	ntry By		Marcia Chavez			
				3E 13 VV4	FIVI		Data E	ntry Date		29-Nov-2011			
Longitude, Latitu			1:42, 51:37:12	/ <b>/ IT</b> \			Reviev	ver Name		John O'Brien			
Road Authority Alberta Contract Main. Area CMA21		a Transportation (AIT)				Review Date		14-Nov-2011					
Clear Roadway/Skew 10.2 /								Andrew Smikles					
AADT/Year			/ 2010 (A)					Review Da	ate	02-Dec-2011			
Road Classificat		2,0307 RAU-2					Follow	-Up By					
Detour Length (F		27											
Bridge Culvert													
Number of Culve			1										
	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1 1	MAIN		2000	2000		BP	19.5				THICKIESS	RECTANGLE	
Special Features		, Cathodic Protection System											
Special Features Comment													
Utilities (Located at)													
Utility Attachments													
Telephone South ditch.							Gas						
Power City and the Month of the							Municipal Problem (Y/N) No						
Others	·						Proble	m (Y/N)	No				
Remarks Annuach Bood / Embarkment													
	Approach Road / Embankment  Last Now Explanation of Condition												
Horizontal Alignment			7	7	Local road int 500m East.								
Vertical Alignment				8	8	Local Toda III Ocom Last.							
Roadway Width (m)		10.200	0.200				Transverse ACP crack over pipe & West of pipe.						
Embankment	-1)		3.0		6	6							
Sideslope (:1)   3.0   (Height of Cover(m) : <b>1.6</b> )													
Guardrail (Y/N)	er(III).	1.0)	Yes										
Guardiali (1714)													
Approach Road / Embankment General Rating			7	7									
						Upstre	am End						
Culvert Compo	nent				Last	Now	Explar	nation of	Condi	tion			
Direction			S		_								
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall			5	5									
Collar			X	X									
Wingwalls			7	7	Wings attached to cell, typical.								
(Shape: )													
Cutoff Wall					X	X							

74121 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)	0	7.	- / (	
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	400			
Scour Protection	400	5	5	
(Type : RIP RAP)			J	
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		5	5	
SCOUI/ETOSIOTI		3	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Bri	dae Cu	l Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN.			·
Barrel Last Accessible Date	03-Nov-2011		,	
Special Features				
Cathodic Protection System		N	N	Filled open spots with foam insulation.
(Cathodic Protection System Ty	ype : <b>PASSIVE</b> )			
Special Feature				
(Type:)				
Roof		7	7	Rise measured at South end = 2008mm, 8mm. North end =
Measured Rise (mm)	2009			2008mm, 8mm.
Measured At Ring No.				At mid point.
Sag (mm)	9			0.5%
Percent Sag	1			
Sidewall		5	5	Longitudinal chamfer crack @ roof/wall interface both sides of U/S
Measured Span (mm)	2009			cell. Narrow vertical cracks @ end location along sidewalls. Span measured @ mid point = 2001, 1mm. North end = 1999mm, 1mm.
Measured At Ring No.				At South end.
Deflection (mm)	9			0.5%
Percent Deflection	1			0.576
Floor		5	5	4 - 5mm wide cracks & medium scaling. 75mm gap at mid span
Bulge (mm)		J		seam on floor.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams	140	4	4	At floor, Fill infiltration at floor.
	65	4	4	ACTION. FIII ITIIIII AUOT ACTION.
Separation (mm)	UU	V	V	
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

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	Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition							
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 2000	, Rise (mm): 2000, Type: BP)							
Fish Passage Adequacy		6	6								
Baffle		Х	X								
(Type:)											
Waterway Adequacy		7	7								
Icing (Y/N)	No										
Silting (Y/N)	No										
Drift (Y/N)	No										
Barrel General Rating		5	5								
Downstream End											
Culvert Component		Last	Now	Explanation of Condition							
Direction		N									
End Treatment (Concrete, Steel, Others, None)	CONCRETE										
Headwall		5	5								
Collar			X								
Wingwalls		7	7								
(Shape: )											
Cutoff Wall		X	X								
Bevel End		X	X								
Heaving (mm)	0										
Invert Above/Below Stream Bed	ABOVE										
Above/Below (mm) 100											
Scour Protection			5	Waste concrete in streambed filling scour hole.							
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 300)											
Scour/Erosion		N	5	Small scour hole off end of outlet, filled with rock. Not affecting bevel end. 10 x 8m scour hole beyond riprap.							
Beavers (Y/N)	No										
Downstream End General Ratio	l ng	5	5								
				re Usage							
Channel (II/S and D/S)		Last	Now	Explanation of Condition							
Channel (U/S and D/S) Alignment			6								
Bank Stability			6								
HWM (m below Top of Culvert)				HWM not visible.							
Drift (Y/N)	No										
Channel Bottom Degrading/Aggrading  DEGRADING				Not visible.							
Beavers (Y/N)	No										
(Fish Compensation Measure 1 : <b>NONE</b> )											
(Fish Compensation Measure 2 :	NONE)										
Channel General Rating		6	6								

			Mainte	nance Recommer	dations					
Inspector Recommendations	Yea	ar Insp	ector Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 55.0	6/55.6	Sufficiency Rati (%)	ng (Last/Now)	58.2/58.2	Est. Repl. Yr	2025	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 Jas		/		Previou	s Assistant's Name					
Next Inspection Date	03-Aug-20	13		Previou	s Inspection Date	12-Mar-2010				
Inspection Cycle (Default) (months)	21									
Comment										