Bridge Culvert Inspection													
Bridge File Num	1 Bridge Culvert				Form Type		CUL1						
Year Built	Year Built 1960							Lot No.		3			
Bridge or Town I	Name Dl	UCHES	SS				Inspector Name		Jon Davies				
Located Over	EI	D - IRF	RIGATION C, V	WATERC	RS-IC		Inspector Class			BR CLS B			
Located On	36	6:08 C1	19.985				Assistant Name						
Water Body CI./	Year						Assistant Class						
Navigabil. Cl./Ye	ear						Inspection Date			14-Jan-2012			
Legal Land Loca	ation NV	W SEC	30 TWP 21 R	GE 14 W	/4M		Data Entry By			Alyssa Boynton			
Longitude, Latitu	ude -1	11:56:3	30, 50:48:44				Data Entry Date		22-Feb-2012				
Road Authority	All	berta T	ransportation		Reviewer Name			Garry Roberts					
Contract Main. Area CMA23					Review Date		20-Jan-2012						
Clear Roadway/Skew 11.1 / -14			4 deg. (LHF)		Dept. Reviewer Name		Tim Davies						
AADT/Year	AADT/Year 1,450 / 20						Dept. Review Date		24-Feb-2012				
Road Classificat	ion RA	AU-211	.8-110				Follow-Up By						
Detour Length (k	(m) 10)											
Bridge Culvert Information													
Number of Culve	erts	1									1		
Pipe # E	Barrel	S	Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	Pl./Slab Thickness	Shape	
1 N	MAIN	-		1200		SSP		48.8			12.0	ROUND	
Special Features	5												
Special Features Comment													
Utility Attachmer	nts				01			aty					
Telephone							Gas		Cross	ing 500m North	1		
Power High voltage E 3-wire West						Municipal							
Others Fiber optic cable East row.							Probler	n (Y/N)	No				
Remarks													
Approach Road / Embankment													
				Last	Now	Explanation of Condition							
Horizontal Alignment					8	7	4:1 on east side, benched 3.0 m over						
Vertical Alignment					7	7	barrele	ends.					
Roadway Width (m)		10.300											
Embankment					4	4	300mm DP erosion gully 5m long at D/S over pipe						
Sideslope (:	1)		3.0										
(Height of Cov	er(m) : 4.	5)											
Guardrail (Y/N)			No										
Approach Road	l / Emban	nkment	t General Rat	ing	7	7							
						Upstre	am End						
Culvert Compo	nent				Last	Now	Explan	ation of	Condit	ion			
Direction			E		East er	nd.							
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall				X	X								
Collar				Х	Х								
Wingwalls					X	X							
(Shape :)													
Cutoff Wall					X	Х							

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		Х	7	1800mm Bevel has been installed and grouted into the existing pipe						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW			_						
Above/Below (mm)	100		1							
Scour Protection			7	_						
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 250)										
Scour/Erosion			7							
Beavers (Y/N)	No									
Upstream End General Rating			7							
		Bric	lge Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):	, Rise (mm): 1200, Type: SSP)						
Barrel Last Accessible Date	14-Jan-2012		-							
Special Features										
Special Feature				-						
(Type:)				-						
Special Feature				_						
(Туре :)										
Roof		8	7	Has been lined with a 1200mm steel pipe						
Measured Rise (mm)	1200			_						
Measured At Ring No.	3			-						
Sag (mm)	0									
Percent Sag	0									
Sidewall		8	7							
Measured Span (mm)	1200									
Measured At Ring No.	3									
Deflection (mm)	0									
Percent Deflection	0									
Floor		8	7							
Bulae (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		7	7	All foam sealed						
Separation (mm)	70									
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)				-						
			E	D/S have been included surface correction on restants						
	No	5	5	No coating at liner minor corrosion with scaling throughout.						
Correspon By Soli (Y/N)	INO Vee			-						
Corrosion By water (Y/N)	res									
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

75214 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):	, Rise (mm): 1200, Type: SSP)						
Fish Passage Adequacy		X	4	High flow rate evident with perched invert D/S.						
Baffle		Х	X	_						
(Туре :)										
Waterway Adequacy			5							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			7							
		D	ownst	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		W		West end.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar			X							
Wingwalls		X	X							
(Shape :)										
Cutoff Wall			X							
Bevel End		8	7	New 1800mm bevel has been installed and grouted into the existing						
Heaving (mm)	0			pipe						
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm) 400										
Scour Protection		3	3	2m long x 0.5m x 0.5m scour at South side of bevel						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 400)										
Scour/Erosion			3							
Beavers (Y/N) No										
Downstream End General Ration	ng	3	3							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment			7	15m dia scour hole 30m u/s from steel pipe @ SE Some slumping u/s and d/s						
				Concrete drop structure 50m u/s						
Bank Stability			5							
HWM (m below Top of Culvert)	0.8			May 20/08						
Drift (Y/N) No				No visible HWM.						
Channel Bottom DEGRADING Degrading/Aggrading										
Beavers (Y/N)	No									
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			7							

Alberta Transportation

75214 -1 Bridge Culvert

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments			Department Com	iments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP		2012	3m3 rock and 2m3 clay at D/S erosid and embankment		ion at bevel						
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF											
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		88.9/77.8		Sufficiency Rating (Last/Now) (%)		7.1/57.8	Est. Repl. Yr	2036	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 Tom		Fom Carey				vious Assistant's Name					
Next Inspection Date 1		14-Oct-2013				us Inspection Date 22-Jun-2010					
Inspection Cycle (Default) (months) 21											
Comment											