## Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Inspection													
Bridge File Num	ber	77482 -1 Bridge Culvert					Form Type		CUL1				
Year Built 1973						Lot No.			2				
Bridge or Town	Name	KANAN	NASKIS				Inspector Name			Garry Roberts			
Located Over		PORCL WATEF	JPINE CREEK, RCRS-ST	2.13.56.3	3,		Inspector Class			BR CLS A			
Located On		40:12 C	1 33.609				Assistant Name						
Water Body Cl./	Year							Assistant Class		27 Mar 2012			
Navigabil. Cl./Ye	ear							ntru Pu		27-Mar-2013			
Legal Land Loca	ation	NE SEC	C 20 TWP 23 R	GE 8 W5	М		Data Entry Date			Lauren Korte			
Longitude, Latitu	Jde	-115:04	:58, 50:58:40			Reviewer Name		Ti-Apr-2013					
Road Authority		Alberta	Transportation			Review Date		10m Carey					
Contract Main. A	Area	CMA28						Povioworl	Namo				
Clear Roadway/	Skew	11.2 /				Dept. Reviewer Name							
AADT/Year		1,690 /	2012 (A)			Follow-Lip By		00 1112 2010					
Road Classificat	tion	RAU-21	10-110				Гоном-ор Бу						
Detour Length (km) 50													
Bridge Culvert	Inform	ation											
Number of Culverts			1								1		
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1 [	MAIN	- 4570			SP		65.8		152X51	5.0	ROUND		
Special Features													
Special Features													
					Uti	ilities (L	ocated	at)					
Utility Attachmer	nts												
Telephone West r/w & East r/w.						Gas							
Power							Munici	lunicipal					
Others	Others					Proble	m (Y/N)	No					
Remarks													
A					pproad	proach Road / Embankment							
				Last	Now	Explanation of Condition							
Horizontal Alignment						6	Built over a curve, limited sight distance.						
Vertical Alignment			44.000			6							
Roadway Width (m)			11.200			1							
Embankment				7	7	4:1 @ West.							
Sideslope (:	:1)		3.0										
(Height of Cov	/er(m) :	<b>3.4</b> )											
Guardrail (Y/N)			Yes	es									
Approach Road	d / Emb	bankme	nt General Rat	ing	6	6							
						Upstre	am End						
Culvert Compo	nent				Last	Now	Explan	ation of	Condit	tion			
Direction					E								
End Treatment ( Others, None)	Concre	ete, Stee	I, CONCRETE	-									
Headwall					X	Х							
Collar					5	4	Repair	Repaired but voids still remain that extend under collar and bev			r and bevel.		
Wingwalls				X	X	-							
(Shape : )													
Cutoff Wall						Х							

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Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		5	5	Bevel is pushing 400mm.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	700		1						
Scour Protection		5	4	Voids under collar and both sides of bevel.					
(Type : <b>RIP RAP</b> )				_					
(Avg. Rock Size(mm) : 400)		1	1						
Scour/Erosion		5	4						
Beavers (Y/N)	No		1						
Upstream End General Rating		5	4						
Orderent Organization		Bric	lge Cu	vert Barrel					
Culvert Component	tion Code: MAIN Eng	Last	NOW	Explanation of Condition					
Pipe # . 1, Primary Span, Loca	Con Code: MAIN, Spa	n (mm	<u>):</u>	, Rise (mm): 4570, Type: SP)					
Barrel Last Accessible Date	27-Mar-2013								
Special Features									
Special Feature									
(Type:)		1							
Special Feature									
(Type:)									
Roof		7	7	Not measured due to rock in barrel.					
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)									
Percent Sag									
Sidewall		5	5	Sidewalls have heavy corrosion to midpoint- worst at West side.					
Measured Span (mm)	4395								
Measured At Ring No.	7								
Deflection (mm)	175								
Percent Deflection	4								
Floor		N	N	Rock covered average 460mm deep.					
Bulge (mm)	0			Multiplate section laying in R7-not causing problems at present but should be removed?					
Measured At Ring No.									
Abrasion (Y/N)	Yes			We both sidewalls and naunches.					
Circumferential Seams		7	7						
Separation (mm)	0								
Longitudinal Seams		6	6						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No								
Coating		4	4	Some pitting & scaling @ sidewalls.					
Corrosion By Soil (Y/N)	Yes			Son corrosion at upper seams.					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

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Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 4570, Type: SP)					
Fish Passage Adequacy		7	7						
Baffle		5	5	Rocks act as baffles.					
(Туре : )									
Waterway Adequacy		6	6	Rock and silt to 460mm.					
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	Drift (Y/N) No								
Barrel General Rating			5						
		D	ownst	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		W		_					
End Treatment (Concrete, Steel, Others, None)	CONCRETE		_						
Headwall			7	Concrete with rock inlayed.					
Collar		7	7						
Wingwalls		X	Х						
(Shape : )									
Cutoff Wall		X	X						
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW			_					
Above/Below (mm)	100								
Scour Protection		8 8		Some 1000mm rock D/S 6m.					
(Type : <b>RIP RAP</b> )				_					
(Avg. Rock Size(mm) : 500)									
Scour/Erosion		8	8						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	6	6						
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability			5	90 degree cut bank @ NW bank, vertical banks @ u/s.					
HWM (m below Top of Culvert)				No visible HWM.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	AGGRADING			@ U/S.					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

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Maintenance Recommendations											
Inspector Recommendations	Y	'ear	Inspecto	r Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP	2	014	Repair vo 5m3 grou	oids at U/S bevel and collar a ut.	approx						
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION	2	014	Remove	plate section in R7.							
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now (%)		v) 55.6/55.6		Sufficiency Rating (Last/Now) (%)		56.7/55.6	.6 Est. Repl. Yr 2025		Maint. Reqd. (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	Garry Ro	oberts			Previous A	Assistant's Name					
Previous Inspector's Name Next Inspection Date	Garry Ro 27-Dec-2	oberts 2014			Previous <i>I</i> Previous I	Assistant's Name	25-May-2011				
Previous Inspector's Name Next Inspection Date Inspection Cycle (Default) (months)	Garry Ro 27-Dec-2 21	oberts 2014			Previous / Previous I	Assistant's Name	25-May-2011				