Bridge Culvert Inspection														
Bridge File Number 75		75521 -	75521 -1 Bridge Culvert				Form Type			CUL1				
Year Built		1962					Lot No			4				
Bridge or Town Name HALKIRK Located Over SLOUGH		₹K				Inspector Name Ja			Jason Saly					
Located Over		SLOUG	SLOUGH CREEK, 5.23.6, WATERCRS-ST					Inspector Class BR CLS A						
Located On		855:06	i:06 C1 16.830					Assistant Name						
Water Body Cl.	/Year						Assista	Assistant Class						
Navigabil. Cl./Year						Inspec	Inspection Date 16-Jun-2010							
Legal Land Location SW SEC 1		C 12 TWP 40 F	C 12 TWP 40 RGE 16 W4M				ntry By		Jill Potts					
Longitude, Latitude -112:11:17		:17, 52:25:34					ntry Date	:	02-Jul-2010					
Road Authority Alberta T		Transportation (AIT)							John O'Brien					
Contract Main. Area CMA21						Review Date			24-Jun-2010	24-Jun-2010				
Clear Roadway/Skew 9.2 /						Dept. F	Dept. Reviewer Name Chris Black							
		490 / 20	009 (A)				Dept. F	Review Da	ate	09-Jul-2010				
		RCU-20	RCU-209-110					-Up By						
Detour Length (km)		5				-,								
Bridge Culver	Inform	ation												
Number of Culv	verts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		2134	1549		RPP		24.4		152X51	2.8	PIPE ARCH		
Special Feature	es		VERT TIMBER	STRUTS	3									
Special Feature	es Comr	ment												
Litility Attachmy	onto				Uti	ilities (L	ocated	at)						
Utility Attachme		oida ban	ging on fonce				Gas							
Telephone			ging on fence.					l						
Power	6 WITE	Tom ea	st of centerline	•			Munici		No					
Others Remarks							Floble	m (Y/N)	No					
Remarks				Δι	nnroad	ch Road	l / Emb	ankment						
					Last	Now		nation of		tion				
Horizontal Alignment				9	8	90m south of NE 11. Bottom of sag with limited sight distance.					distance.			
Vertical Alignment				7	7				3	3				
Vertical Alignment Roadway Width (m)		9.200				Wide longitudinal crack for 200m on West shou			k in West shoulder in ACP patch. ACP patch ulder.					
Embankment Sidesland (2.0	5		5									
Sideslope (0.7\	3.0											
(Height of Cover(m) : 0.7) Guardrail (Y/N) No			No											
Approach Roa		ankma		ina	7	7								
Арргоасп Коа	ia / Liiik	Jankine	in General Nat	iiig	,	•								
						Upstre								
Culvert Comp	onent				Last	Now	Explar	nation of	Condi	tion				
Direction				W		-								
End Treatment (Concrete, Steel, Others, None)		el, STEEL												
Headwall					X	X								
Collar			Х	Х										
Wingwalls			X X		X									
(Shape:)					1									
(Shape :) Cutoff Wall					Х									

Alberta Transportation

			Heetes	am End
Culvert Component		Last	T '	Explanation of Condition
	<u> </u>		Now	Explanation of Condition
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	 			
Above/Below (mm) 300		6		
Scour Protection			6	Ingrown.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)			1	
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	5	
		Bri	d <u>ge Cu</u>	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp			·
Barrel Last Accessible Date	14-Nov-2003			Extended on west end in 1981. Pipe half full of water. Viewed from both ends.
Special Features				
Special Feature		8	N	150 x 100mm T.T.
(Type : VERT TIMBER STRUTS)			
Special Feature				
(Type:)				
Roof		4	N	(Roof sagging 3rd ring under Southbound lane. 14/Nov/2003)
Measured Rise (mm)	1549			
Measured At Ring No.	3			Estimate.
Sag (mm)	100			0.504
Percent Sag	7			6.5%
Sidewall		5	N	
Measured Span (mm)	2184	J J	14	Estimate.
Measured At Ring No.	3			
Deflection (mm)	50			2.3%
,	2			
Percent Deflection		h.1		(D/C Could be used about size of building D) 4545
Floor		N	N	(D/S South haunch shows signs of buckling. Rise 1515mm, 3rd ring. 14/11/2003)
Bulge (mm)				, '
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams	1	N	N	(1 ring is cracked South longitudinal seam. 50% proper lap.
Total No. of Cracked Rings	1			14/11/2003)
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			Negative camber in original barrel.
Tambon Gorelli Girle				

75521 -1 Bridge Culvert

		Brid		Ivert Barrel					
Culvert Component		Last	Now	•					
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2134	, Rise (mm): 1549, Type: RPP)					
Ponding (Y/N) Yes									
Fish Passage Adequacy		5	5						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		6	6	Minor drift caught on struts.					
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel General Rating		4	4	G.R. carried forward from 14/Nov/2003, based on roof rating.					
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E	1						
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar		Х	Х						
Wingwalls			X						
(Shape:)									
Cutoff Wall		Х	Х						
Bevel End			5						
Heaving (mm)	150								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	150								
Scour Protection		5	6	Ingrown.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		5	6						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	5	5						
		S	tructu	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		5	5	Meander.					
Bank Stability		6	6						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N) No									
Channel Bottom Degrading/Aggrading	DEGRADING			(00/11/22) Not visible.					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		5	5						

		Maintenance R	ecommendations				
Inspector Recommendations	Year	Inspector Comments	Department Co	omments	Target Year	Est. Cost	Cat #
OVERLAY DECK							
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTO)FF						
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/No. (%)	ow) 44.4/4	Sufficiency Rating (Last (%)	/Now) 54.8/53.7	Est. Repl. Yr 2021	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	I 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Tim Davies		Previous Assistant's Name	е			
Next Inspection Date	16-Sep-2013		Previous Inspection Date	22-Mar-2007			
Inspection Cycle (Default) (months)	39						
Comment							