Bridge Culvert Inspection														
Bridge File Number 734		73471 -1	73471 -1 Bridge Culvert					Form Type		CUL1				
Year Built 1959)				Lot No.		2					
Bridge or Town	Name	HAWK H	IILLS				Inspector Name		Russel Vanderschaaf					
Located Over		SLIMS C	REEK, 8.10.4	1.3.1, WA	.3.1, WATERCRS-ST			Inspector Class		BR CLS B				
Located On		35:08 C1	36.290				Assistant Name							
Water Body Cl.	/Year				Assistant Class									
Navigabil. Cl./Y	'ear							Inspection Date		15-Nov-2011				
Legal Land Loc	ation	NW SEC	2 8 TWP 95 RGE 22 W5M					ntry By		Theresa Lacus	sta			
Longitude, Latit	tude	-117:32:	38, 57:13:44					Data Entry Date		13-Dec-2011				
Road Authority Alberta T			Transportation (AIT)					Reviewer Name		Eric Carcoux				
Contract Main. Area CMA04								Review Date		12-Dec-2011				
Clear Roadway/Skew 10.5 / 22			2 deg. (RHF)					Dept. Reviewer Name		Steve Pasquan				
AADT/Year		1,700 / 2	2010 (A)					Dept. Review Date		11-Jan-2012				
Road Classifica	ation	RAU-210	10-110					Follow-Up By						
Detour Length	(km)	999												
Bridge Culvert	Bridge Culvert Information													
Number of Culv	/erts	1	<u> </u>							1				
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		2430		SP		38.4		152X51	3.0	ROUND		
Special Feature	es													
Special Feature	es Comr	ment												
					Uti	lities (L	ocated	at)						
	ents													
Telephone	Buried	d cable of	n East ditch.			Municipal								
Power	7 wire	o/h on W			Problem (Y/N) No									
Others	-													
Remarks				Δ.		b D								
				A		Now	Explan	ation of	Condi	tion				
Horizontal Alignment		7	7	Intersection 400m N										
Vertical Alignment				8			Field entrance 200m S.							
Roadway Width	Roadway Width (m)		10.500			'								
Embankment			-		N	6	NW ditch erosion into channel(4mX3mX0.5m)-May 16, 2008					6, 2008		
Sideslope (_:1)		4.0				-							
(Height of Co	ver(m) :	0.5)	-											
Guardrail (Y/N)			No											
Approach Roa	ld / Emb	bankmen	t General Rat	ing	7	7								
						Upstre	am End							
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion				
Direction					W		-							
End Treatment Others, None)	(Concre	ete, Steel	, STEEL											
Headwall					X	Х								
Collar					X	Х								
Wingwalls					X	Х								
(Shape:)														

Alberta Transportation

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Cutoff Wall		Х	X						
Bevel End		N	4						
Heaving (mm) 200									
Invert Above/Below Stream Bed	nvert Above/Below Stream Bed BELOW			ESTMay 16, 2008					
Above/Below (mm)	100		_						
Scour Protection		N	4						
(Type : NONE)									
(Avg. Rock Size(mm) :)		1	-						
Scour/Erosion		N	4	Erosion at sides of bevel (2mX0.4mX0.7m)-May 16, 2008					
Beavers (Y/N)	Yes								
Upstream End General Rating		4	4						
		Brid	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 2430, Type: SP)					
Barrel Last Accessible Date	16-Feb-2010			~1m of water					
Special Features	·								
Special Feature									
(Type:)									
Special Feature									
(Type :)									
Roof		7	N						
Measured Rise (mm)									
Measured At Ring No.				est					
Sag (mm)	80								
Percent Sag									
Sidewall		7	N						
Measured Span (mm)	2304								
Measured At Ring No.	6								
Deflection (mm)	126								
Percent Deflection	5								
Floor		N	N	Covered with ice.					
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		6	N						
Separation (mm)	0								
Longitudinal Seams		6	N						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)				1N stagger					
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	Yes								
Coating		6	N	Minor superficial rust on sidewall.					
Corrosion By Soil (Y/N)	Yes			Alkaline deposit through roof bolts.					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	NEG			Approx 300mm neg chamber					

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

73471 -1 Bridge Culvert

Bridge Culvert Barrel								
Culvert Component			Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 2430, Type: SP)				
Ponding (Y/N) Yes				(1.3 m ponding20010510)				
Fish Passage Adequacy		7	5	Beaverdam in u/s bevel.				
Baffle		X	Х					
(Type:)								
Waterway Adequacy		6	5	Drift accumulation at u/s end.				
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	Yes							
Barrel General Rating		7	N	GR was 7 on 16-Feb-2010				
		D	ownst	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction	I	E						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall			X					
Collar		X	X					
Wingwalls		Х	Х					
(Shape :)								
Cutoff Wall		X	X					
Bevel End		7	5	Estimated-May 16, 2008				
Heaving (mm)	Heaving (mm) 0			Rated based on 50% visibility.				
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	100							
Scour Protection		N	4					
(Type : NONE)								
(Avg. Rock Size(mm) :)								
Scour/Erosion		N	4	Length of bevel 400mm wide X 1m deep				
Beavers (Y/N)	No							
Downstream End General Ratin	ng	4	4					
		S	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment			7					
Bank Stability			8					
HWM (m below Top of Culvert)				HWM NOT VISIBLE				
Drift (Y/N) Yes								
Channel Bottom DEGRADING Degrading/Aggrading								
Beavers (Y/N)	Yes							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			7					

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments	Department Comr	ments		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION		2012	Remove drift accumulation at u/s.								
INSTALL CONCRETE/STEEL LININ	G										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUT	OFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/I (%)	low)	77.8/55.	6 Sufficiency Rating (Last/Now) (%)	64.9/50.1	Est. Repl. Yr	st. Repl. Yr 2015		Maint. Reqd. (Y/N)			
Special Comments for Next Inspection	Department Comments										
Maintenance Reviewed By				Date		E	Estimated Tota	I 0			
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Brian F	Pientsch	Previou	s Assistant's Name	Assistant's Name Lisbeth Medina						
Next Inspection Date 15-A		j-2013	Previou	Inspection Date 16-Feb-2010							
Inspection Cycle (Default) (months) 21											
Comment											