					Bridg	e Culve	ert Insp	ection						
Bridge File Num	ber	73135	-1 Bridge Culve	rt			Form 7	Гуре	CUL1					
Year Built 1959							Lot No			2				
Bridge or Town Name SWAN HILLS						Inspec	tor Name		Russel Vanderschaaf					
Located Over TRIBUTA			ΓARY TO MORSE RIVER,				-	tor Class		BR CLS B				
8.11.95.2.1, WATERCRS-ST Located On 33:10 C1 38.268				10-01				ant Name						
Water Body Cl./		33.10	71 30.200					ant Class						
Navigabil. Cl./Ye								tion Date		11-Feb-2013				
Legal Land Loca		SE SE	C 32 TWP 64 R	GE 8 W/5I	 \Λ			ntry By		Theresa Lacu	sta			
Longitude, Latitu):19, 54:34:28	GL 0 WJ	IVI			ntry Date		13-Apr-2013				
	Jue		Transportation	(AIT)			Reviev	Reviewer Name Eric Carcoux						
Road Authority Alberta Contract Main. Area CMA06			·	(ДП)				Review Date 07-Apr-2013						
Clear Roadway/		10 / 0 c						Dept. Reviewer Name						
AADT/Year							Dept. Review Date							
Road Classificat		RAU-2	012 (A) 10-110				Follow-Up By							
Detour Length (I		99												
Bridge Culvert														
Number of Culve			1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1 1	MAIN		2905	2905 3203		SPE		39.6		152X51	4.2	ELLIPSE		
Special Features				0200						102/10				
Special Features		nent												
					Uti	ilities (L	ocated	at)						
Utility Attachmer	T .								ı					
Telephone West r/w.						Gas								
Power		s East r					Munici							
Others Depth gauges both ends.						Proble	m (Y/N)	No						
Remarks														
				A				ankment		tion				
Horizontal Alignment				Last 7	Now 7	Explanation of Condition Field access @ NW.								
Vertical Alignment			8	8	i idia access & ivvv.									
Roadway Width (m)		10.000	000											
, , ,														
Embankment				8	8									
Sideslope (:			5.0											
(Height of Cov	/er(m) :	0.9)	1											
Guardrail (Y/N)		Yes												
Approach Road / Embankment General Rating			7	7										
						Upstre	am Enc							
Culvert Compo	nent				Last	Now	Explar	nation of	Condi	tion				
Direction					W									
End Treatment (Others, None)	(Concre	ete, Stee	el, STEEL											
Headwall			Х	Х										
Collar			Х	Х										
Wingwalls					Х	Х								
(Shape:)														
Cutoff Wall			X	X										

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		4	4	End of bevel damaged when removing beaverdam.
Heaving (mm)	500			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection	000	7	N	
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		7	N	snow covered.
Octour/E1031011		,		Show covered.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
oponoum End Conordi Rading				
				Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat		Span (mm): 2905	6, Rise (mm): 3203, Type: SPE)
Barrel Last Accessible Date	11-Feb-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	N	Measurements not taken due to ice on floor.
Measured Rise (mm)				
Measured At Ring No.				lce 2.4m from crown.
Sag (mm)	58			
Percent Sag	2			
Sidewall		6	6	
Measured Span (mm)	2002	0	0	
· · · /	3003			
Measured At Ring No.	7			
Deflection (mm)	98			
Percent Deflection	3			
Floor		N	N	Under ice.
Bulge (mm)	0			
Measured At Ring No.	6			
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		6	6	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				1N stagger.
Min. Remaining Steel				
Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	Pitting 5-7 o'clock24-Jul-2009
Corrosion By Soil (Y/N)	No			Under ice.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
	I			

		Bric	lao Cul	lvert Barrel			
Culvert Component			T	Explanation of Condition			
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Sp			•			
Fish Passage Adequacy			4	Outlet above streambed. Evident through snow.			
Baffle		Х	Х				
(Type:)							
Waterway Adequacy		4	4	D/S scour hole.			
Icing (Y/N)	No						
Silting (Y/N)	No						
Drift (Y/N)	No						
Barrel General Rating		6	6				
			ownetr	eam End			
Culvert Component		Last		Explanation of Condition			
Direction	<u> </u>	E	INOW	Explanation of Condition			
End Treatment (Concrete, Steel, Others, None)	STEEL						
Headwall		Х	Х				
Collar		Х	Х				
Wingwalls		Х	Х				
(Shape:)			1				
Cutoff Wall		X	X				
Bevel End		5	5	Rate based on 45% visiblility.			
Heaving (mm)	50						
Invert Above/Below Stream Bed	ABOVE			Couldn't tell exactly how many mm above SB due to snow.			
Above/Below (mm) Scour Protection	1000	3	3	Scour hole 1.2m x 15m x 20m. Bevel projecting 1.5m from fill.			
(Type : NONE)		<u> </u>	<u> </u>	Evident through snow photo			
(Avg. Rock Size(mm):)							
Scour/Erosion		3	3	Scour hole 20mx15m-evident through snowphoto			
	No						
Beavers (Y/N)	INO						
Downstream End General Ratio	ng	3	3				
		S	tructur	e Usage			
		Last	Now	Explanation of Condition			
Channel (U/S and D/S)			1				
Alignment			4	Channel makes bend 20m D/S and has eroded bank.			
Bank Stability			5				
HWM (m below Top of Culvert)				HWM not visible.			
Drift (Y/N) No							
Channel Bottom Degrading/Aggrading DEGRADING				Beaver lodge 100m U/S.			
Beavers (Y/N) Yes							
(Fish Compensation Measure 1 :	·						
(Fish Compensation Measure 2 :	NONE)						
Channel General Rating		4	4				

		Maintenanc	e Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Com	ments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2013	Place 30m3 D/S.					
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING	G						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUT	OFF						
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/N(%)	Now) 66.7/66	Sufficiency Rating (L	ast/Now) 43.5/43.4	Est. Repl. Yr 2017	Maint. Re	qd. (Y/N)	Yes
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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	11-Nov-2014		Previous Inspection Date	06-Apr-2011			
Inspection Cycle (Default) (months)	21		<u> </u>				
mopodion Cydio (Boldan) (montho)	4						