Road Authority														
Bridge File Nun	nber	76641 -1	Bridge Culve	rt			Form 7	Гуре		CUL1				
Year Built	r Built 1971						Lot No							
Bridge or Town	Name	SWAN F	HILLS				Inspector Name		Russel Vande	rschaaf				
Located Over		TRIBUT. 8.11.80.3	ARY TO SWAI	N RIVER, RCRS-ST						BR CLS B				
8.11.80.39.12, WATERCF Located On 33:14 C1 12.508 Water Body CI./Year Navigabil. CI./Year Legal Land Location NW SEC 10 TWP 70 RGF Longitude, Latitude -115:17:10, 55:02:49 Road Authority Alberta Transportation (Al Contract Main. Area CMA06 Clear Roadway/Skew 10.6 / 15 deg. (RHF) AADT/Year 770 / 2012 (A) Road Classification RAU-210-110 Detour Length (km) 99 Bridge Culvert Information Number of Culverts 1														
Water Body Cl.										<u> </u>				
							-							
					M									
Water Body CI./Year Navigabil. CI./Year Legal Land Location NW SEC 10 TWP 70 RGE 9 W5M Longitude, Latitude -115:17:10, 55:02:49 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA06 Clear Roadway/Skew 10.6 / 15 deg. (RHF) AADT/Year 770 / 2012 (A) Road Classification RAU-210-110 Detour Length (km) 99 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Span Rise (or Di 1 MAIN 1724 1901 Special Features Special Features Comment Utility Attachments Telephone									·					
									NI	07-Apr-2013				
Clear Roadway	/Skew	10.6 / 15	deg. (RHF)											
						·								
Road Classifica							FOIIOW	-ор ву						
Detour Length ((km)	99												
Bridge Culvert	Informa	ation												
Number of Culv	erts											_		
Pipe #	Barrel	(Span	Rise (or Dia.)		Туре		Length		Corr. Profile		Shape		
1	MAIN		1724	1901		SPE		134.7		152X51		ELLIPSE		
								1						
		nent												
					Uti	ilities (L	ocated	at)						
	0.0111		,											
	3 OHL	. Power E	ast r/w											
							Proble	m (Y/N)	NO					
Remarks				Λn	progr	oh Boo	d / Emb	ankmant						
										tion				
Horizontal Align	ment							Direction of passing changes at						
							bottom	of sag.	9	9				
J														
Roadway Width	n (m)		10.600											
Embankment					4	N	(U/S N	& S side	. Gullie	es est 1.5 x 1.5	x 70 m lona.			
	:1)		4.0								J			
(Height of Co		22.4)		<u>'</u>			1							
Guardrail (Y/N) Yes		Yes												
Approach Roa	d / Emb	ankmen	t General Rat	ing	7	7								
						Unetro	am Enc							
Culvert Component Last Now Explanation of Condition														
Direction	Jiiciit				E	11011	LAPIGI	iation or	Conai	LIOII				
End Treatment Others, None)	(Concre	ete, Steel	, STEEL											
Headwall				X	Х									
Collar				Х	X									
Wingwalls				Х	X									
(Shane ·)														

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		Х	Х	
Bevel End		5	5	
Heaving (mm)	300			
Invert Above/Below Stream Bed				
Above/Below (mm)	300			
Scour Protection	300	6	N	Snow covered
(Type : NATURAL)		0	I IN	Show covered
(Avg. Rock Size(mm):)				
Scour/Erosion		6	N	Snow covered
Occur/E103i0i1		0	l IN	Show covered
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Bri	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, S	Span (mm): 1724	l, Rise (mm): 1901, Type: SPE)
Barrel Last Accessible Date	05-Apr-2011			Ice 0.6m from u/s crown
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		5	N	(Measurements not taken due to ice on floor. Shape looks adequate
Measured Rise (mm)	1764			5 Apr 2011)
Measured At Ring No.	12			
Sag (mm)	137			
Percent Sag	7			
Sidewall		5	N	(Insufficent thread ring 14 at 9:00. 5 Apr 2011)
Measured Span (mm)	1837		- ' '	(modification and a fing 11 at 0.00. 07 pt 2011)
Measured At Ring No.	12			
Deflection (mm)	113			
Percent Deflection	7			
Floor	,	N	N	(Missing 10 bolts on floor throughout entire pipe24-Jul-2009)
Bulge (mm)	0	IN	I IN	(Under ice 5 Apr 2011)
Measured At Ring No.	12			
Abrasion (Y/N)	No			
Circumferential Seams	INO	5	N	
	0	5	IN	
Separation (mm)	0			
Longitudinal Seams		5	N	-
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		N	N	(Pitting and scaling 5-7 o'clock24-Jul-2009
Corrosion By Soil (Y/N)	No	1,		Under ice)
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Camber FOS/ZERO/NEG	INEG			

		Brio	lge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1724	, Rise (mm): 1901, Type: SPE)
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Outfall of 1000 mm at outlet.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		4	4	Outfall at outlet.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	N	GR carried forward
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls			Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		5	5	Rate baed on 45% visibility
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection		5	N	Outfall of 1000mm.
(Type : RIP RAP)				Under snow
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		5	N	Snow cover.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		s	tructur	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N) No				
Channel Bottom Degrading/Aggrading	DEGRADING			D/S only.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

SHOTCRETE REPAIRS PLACE ADDITIONAL RIP RAP SEMOVE DRIPF ACCUMULATION NSTALL CONCRETE STEEL LINING NSTALL STRUTS NSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION OTHER				Maintenance Recomn	nendations					
PLACE ADDITIONAL RIP RAP REMOVE DRIFT ACCUMULATION NSTALL CONCRETE/STEEL LINING NSTALL STRUTS NSTALL CONCRETE/STEEL COLLAR/CUTOFF REPAIR SEAMS DTHER ACTION DTHER	Inspector Recommendations	Year	Inspector Comme	ents	Department Com	nments		Target Year	Est. Cost	Cat #
REMOVE DRIFT ACCUMULATION NSTALL CONCRETE/STEEL LINING NSTALL STUTS NSTALL STUTS NSTALL STUTS NSTALL STRUTS NSTALL STRUTS NSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS DTHER ACTION DTHER ACTION DTHER ACTION STRUCTURAL CONDITION STRUCTURAL CONDITION DTHER ACTION DTHER ACTION DTHER ACTION DTHER ACTION DTHER ACTION STRUCTURAL CONDITION STRUCTURAL CO	SHOTCRETE REPAIRS									
NSTALL CONCRETE/STEEL LINING NSTALL STRUTS NSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION OTHER ACTI	PLACE ADDITIONAL RIP RAP									
NSTALL STRUTS NSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION	REMOVE DRIFT ACCUMULATION									
NSTALL CONCRETE COLLAR/CUTOFF REPAIR SEAMS OTHER ACTION Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Brian Pientsch Previous Inspection Date 11-Nov-2014 Previous Inspection Date 11-Nov-2014 Previous Inspection Date 11-Nov-2014 Previous Inspection Date O5-Apr-2011 Inspection Cycle (Default) (months) 20 Department Comments OFTENDATION OFTENDATIO	INSTALL CONCRETE/STEEL LINING	G								
REPAIR SEAMS OTHER ACTION OTHER	INSTALL STRUTS									
OTHER ACTION Structural Condition Rating (Last/Now) (%) Structural Condition Rating (Last/Now) (%) Special Comments for Next Inspection Maint. Reqd. (Y/N) No Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Brian Pientsch Previous Inspection Date 11-Nov-2014 Previous Inspection Date Inspection Cycle (Default) (months) 21	INSTALL CONCRETE COLLAR/CUT	OFF								
OTHER ACTION OTHER	REPAIR SEAMS									
OTHER ACTION OTHER ACTION OTHER ACTION Structural Condition Rating (Last/Now) Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Brian Pientsch Next Inspection Date 11-Nov-2014 Inspection Cycle (Default) (months) Sufficiency Rating (Last/Now) 43.2/43.1 Est. Repl. Yr Department Comments Department Comments Department Comments Department Comments Previous Assistant's Name Lisbeth Medina Department Comments Lisbeth Medina Department Comments Department Com	OTHER ACTION									
Structural Condition Rating (Last/Now) 55.6/55.6 Sufficiency Rating (Last/Now) 43.2/43.1 Est. Repl. Yr 2016 Maint. Reqd. (Y/N) No Special Comments for Next Inspection Maintenance Reviewed By Date Estimated Total 0 Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Brian Pientsch Previous Inspection Date 11-Nov-2014 Previous Inspection Date 05-Apr-2011 Inspection Cycle (Default) (months) 21	OTHER ACTION									
Structural Condition Rating (Last/Now) 55.6/55.6 Sufficiency Rating (Last/Now) 43.2/43.1 Est. Repl. Yr 2016 Maint. Reqd. (Y/N) No	OTHER ACTION									
Special Comments for Next Inspection Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Brian Pientsch Previous Assistant's Name Previous Inspection Date 11-Nov-2014 Inspection Cycle (Default) (months) 21 Department Comments Department Comments Department Comments Pestimated Total O Previous Assistant's Name Lisbeth Medina O5-Apr-2011 Inspection Cycle (Default) (months)	OTHER ACTION									
Comments for Next Inspection Maintenance Reviewed By Date Estimated Total 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 11-Nov-2014 Previous Inspection Date 121	Structural Condition Rating (Last/I) (%)	Now) 55.6/5	Sufficie (%)	ency Rating (Last/Now)	43.2/43.1	Est. Repl. Yr	2016	Maint. Re	eqd. (Y/N)	No
Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action Previous Inspector's Name Brian Pientsch Previous Assistant's Name Next Inspection Date Inspection Cycle (Default) (months) 21	Special Comments for Next Inspection				Department Comments					
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 05-Apr-2011 Inspection Cycle (Default) (months)	Maintenance Reviewed By				Date		E	Estimated Tota	I 0	
Previous Inspector's Name Brian Pientsch Previous Assistant's Name Lisbeth Medina Next Inspection Date Inspection Cycle (Default) (months) 21	Proposed Long-Term Strategy									
Previous Inspector's Name Brian Pientsch Previous Assistant's Name Lisbeth Medina Next Inspection Date Inspection Cycle (Default) (months) 21	On 3-Year Program (Y/N)									
Next Inspection Date 11-Nov-2014 Previous Inspection Date 05-Apr-2011 Inspection Cycle (Default) (months) 21	Proposed Action									
Inspection Cycle (Default) (months) 21	Previous Inspector's Name	Brian Pientsc	h	Prev	ious Assistant's Name	Lisbeth Medir	na			
Inspection Cycle (Default) (months) 21	Next Inspection Date	11-Nov-2014		Prev	revious Inspection Date 05-Apr-2011					
	Inspection Cycle (Default) (months)	21								
	Comment									