Bridge Culvert Inspection															
Bridge File Number 7		78459 -1 Bridge Culvert						Гуре		CUL1					
Year Built		1981					Lot No			2					
Bridge File Number 78459 -1 Bridge Culvert Year Built 1981 Bridge or Town Name ROLLING HILL Located Over EID - IRRIGATION C, WATERC Located On 525:02 C1 7.181 Water Body CI./Year Navigabil. CI./Year Legal Land Location NE SEC 35 TWP 14 RGE 13 W4 Longitude, Latitude -111:40:05, 50:13:20 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA23 Clear Roadway/Skew 10.4 / AADT/Year 190 / 2011 (A) Road Classification RCU-210-110 Detour Length (km) 5 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Span Rise (or I 1 MAIN 1830 1120 Special Features Special Features Comment Utility Attachments Telephone Power						Inspec	tor Name)	Jon Davies						
Year Built Bridge or Town Name ROLLING Located Over Located On S25:02 C1 Water Body CI./Year Navigabil. CI./Year Legal Land Location Longitude, Latitude Road Authority Contract Main. Area Clear Roadway/Skew AADT/Year Road Classification Detour Length (km) S Bridge Culvert Information Number of Culverts Pipe # Barrel Special Features Special Features Comment S1981		RIGATION C,	WATERC	RS-IC	;	Inspector Class			BR CLS B						
Located On						Assistant N			!						
Water Body Cl.	./Year						Assista	Assistant Class							
							Inspec	tion Date		07-Mar-2012					
Legal Land Loc	cation	NE SEC	C 35 TWP 14 R	GE 13 W	4M		Data E	ntry By		Anne Roberts					
Longitude, Latin	tude	-111:40	:05, 50:13:20				Data E	ntry Date)	08-Apr-2012					
Road Authority		Alberta	Transportation	(AIT)			Review	ver Name)	Garry Roberts					
Contract Main.						Review	Review Date 24-Mar-2012								
Clear Roadway	//Skew	10.4 /					Dept. I	Reviewer	Name	Tim Davies					
AADT/Year		190 / 20)11 (A)				Dept. I	Review D	ate	17-Apr-2012					
Road Classifica	ation	RCU-21	10-110				Follow	Follow-Up By							
Detour Length	(km)	5													
Pipe #	Barrel		Span	Rise (or	r Dia.) Type			Length		Corr. Profile	Pl./Slab Thickness	Shape			
1	MAIN		1830	1120		FP		41		68X13		ARCH			
Special Feature	es														
·															
					Ut	ilities (L	ocated	at)							
Utility Attachments															
								sing 100 m Wes	t						
Power					Munici										
Others						Proble	m (Y/N)	No							
Approach Road / Embankment Last Now Explanation of Condition															
· ·						Now	· ·	Explanation of Condition Super-elevated smooth curve. Intersection 30 m East.							
			6	6	Super-	elevated	smooti	n curve. Interse	ction 30 m Ea	St.					
Vertical Alignm Roadway Width			10.400		8	8									
. , ,															
Embankment					N	6									
Sideslope (3.0				-								
(Height of Co															
Guardrail (Y/N) No															
Approach Roa	ad / Emb	oankmei	nt General Rat	ing	6	6									
						Upstre	am End								
Culvert Comp	onent				Last	Now	Explar	nation of	Condi	tion					
Direction					400mn	100mm drainage pipe from upper road- way, 500 r				m top of primary					
End Treatment (Concrete, Steel, NONE Others, None)					to top	of this pip	e.								
Headwall					Х	X									
Collar					Х	Х									
Wingwalls			Х	Х											
(Shape:)															
Cutoff Wall	Cutoff Wall					X									

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	4	All of rip rap displaced.
(Type : RIP RAP)		'		
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	4	Erosion around the pipe caused by cattle all around U/S end.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Bri	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			
Barrel Last Accessible Date	14-May-2002			
Special Features				
Special Feature				Barrel not accessible due water and ice levels. No sight line possible
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	(2020 x 880 4th seam d/s
Measured Rise (mm)	880			INSPECTED TO MID FROM D/S END) 14 May 2002
Measured At Ring No.	4			
Sag (mm)	240			
Percent Sag	21			
Sidewall	•	N	N	
Measured Span (mm)	2020			
Measured At Ring No.	4			
Deflection (mm)	190			
Percent Deflection	10			
Floor		N	N	FLOOR BULGE NOT SEEN DUE TO WATER.
Bulge (mm)	40			
Measured At Ring No.	-			
Abrasion (Y/N)	No			
Circumferential Seams		N	N	(Seam #2 100 mm separation horizontally) 14 May 2002
Separation (mm)	100			(Seam #2 100 mm separation horizontally) 14 May 2002 (#3 80 mm vert. sep.(Seam #1 from u/s end 60mm vert. sep.,fill mat. @ inter-face) 14 May 2002
Longitudinal Seams		X	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	(EXTENSIVE RUST ON FLOOR, MINOR PIT) 14 May 2002
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			At U/S

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 1830	, Rise (mm): 1120, Type: FP)						
Fish Passage Adequacy		Х	5							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		N	N	(500 mm DP ROCK @ U/S) 14 May 2002						
Icing (Y/N)	Yes									
Silting (Y/N)	Yes									
Drift (Y/N) No										
Barrel General Rating			N							
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction				2-400 mm surface drain culverts NORTH						
End Treatment (Concrete, Steel, Others, None)	NONE			NORTH						
Headwall			Х							
Collar		Х	Х							
Wingwalls			X							
(Shape:)										
Cutoff Wall		X	Х							
Bevel End			X							
Heaving (mm)	0									
Invert Above/Below Stream Bed BELOW										
Above/Below (mm) 150		N	1							
Scour Protection			6							
(Type: RIP RAP)										
(Avg. Rock Size(mm) : 150)		1								
Scour/Erosion		N	6							
Beavers (Y/N)	No									
Downstream End General Ratio	ng	N	6							
		S	tructu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		5	5	u/s end has sharp 90deg. turn,just as it enters culvert.						
Bank Stability			4	U/S erosion at both banks						
HWM (m below Top of Culvert) 0.5				No HWM visible						
Drift (Y/N)	No									
Channel Bottom AGGRADING Degrading/Aggrading				@ U/S						
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·									
(Fish Compensation Measure 2 :	NONE)		1							
Channel General Rating		5	5							

			Maintenance Rec	ommend	ations						
Inspector Recommendations	Year	Inspecto	r Comments		Department Com	nments			Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF											
REPAIR SEAMS											
OTHER ACTION	2012	Determir still in us span to e	ne prior to irrigation season if ie. If so de-water and confirm estimate year of replacement.	pipe is rise and							
OTHER ACTION			,								
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/N (%)	ow) 55.6/	55.6	Sufficiency Rating (Last/No. (%)	ow) 6	67.7/68.8	Est. Re	epl. Yr	2012	Maint. R	eqd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments				·		
Maintenance Reviewed By					Date				Estimated Tot	al 0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Tim Davies			Previous A	ous Assistant's Name						
Next Inspection Date	07-Jun-2015			Previous I	vious Inspection Date 03-Mar-2009						
Inspection Cycle (Default) (months)	39										
Comment											