73948 -1 Bridge Culvert

Bridge Culvert Inspection														
Bridge File Number 73948 -1 I			1 Bridge Culve		F		Form Type		CUL1					
Year Built		1992					Lot No			4				
Bridge or Town Name Located Over RID - IRRIC Located On S2:02 C1 2 Water Body Cl./Year Navigabil. Cl./Year Legal Land Location Longitude, Latitude Road Authority Contract Main. Area UNDEFINE Clear Roadway/Skew AADT/Year AADT/Year Detour Length (km) Rridge Culvert Information Number of Culverts RID - IRRIC			DND				Inspec	tor Name		Jon Davies				
Located Over		RID - IRRIGATION C, WATERCE			RS-IC	;	Inspector Class		BR CLS B					
Located On		52:02 C	1 21.091			Assistant Name								
Water Body Cl.	/Year						Assista	ant Class						
Navigabil. Cl./Y	'ear						Inspec	tion Date		28-Sep-2011				
Legal Land Loc	cation	SE SEC	EC 16 TWP 6 RGE 19 W4N						Erin Roberts					
Longitude, Latit	tude	-112:29	:41, 49:27:57				Data E	ntry Date		01-Nov-2011				
Road Authority		Alberta	Transportation	(AIT)			Reviev	ver Name		Garry Roberts				
Contract Main.	Area	UNDEF	INED CMA				Reviev	v Date		03-Oct-2011				
Clear Roadway	//Skew	10 /					Dept. F	Reviewer	Name	Tim Davies				
AADT/Year		400 / 20	010 (A)				Dept. F	Review Da	ate	17-Nov-2011				
Road Classifica	ation	RAU-20	09-110				Follow	-Up By						
Detour Length	(km)	7												
Number of Culv	verts		1											
Pipe #	Barrel				Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		-	1800		MP		25		125X26	2.8	ROUND		
Special Feature	es													
Special Features Comment														
Utilities (Located at)														
Utility Attachments  Telephone South ditch. Gas														
Telephone South ditch.								l						
Power 3 wires 20m North & 3 wires 7m West.			m west.			Munici		No						
Others Fibre optic cable North ditch.						Proble	m (Y/N)	INO						
Remarks Approach Boad / Embankment														
Approach Road / Embankment  Last Now Explanation of Condition														
Horizontal Alignment			8	8		access at								
Vertical Alignment					9	9	Januar							
Roadway Width			7.200											
Embankment					8	8								
Sideslope (	:1)		6.0											
		0.7)	0.0											
(Height of Cover(m) : <b>0.7</b> )  Guardrail (Y/N)  Ye			Yes											
Approach Road / Embankment General Rating			ing	8	8									
						Upstre	am End							
Culvert Compo	onent				Last	Now	1	nation of	Condi	tion				
Direction			Last	ITOW	South		Contai	шоп						
End Treatment (Concrete, Steel, Others, None)					Coduit	cria.								
Headwall			Х	Х										
Collar					Х	X								
Wingwalls					Х	X								
(Shape: )														
Cutoff Wall					Х	X								

Outros Comment				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	400			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>200</b> )		T	Ι_	
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	ı):	, Rise (mm): 1800, Type: MP)
Barrel Last Accessible Date	15-Jan-2009			Not accessible- due to high water depth
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	Viewed from ends- general shape is good
Measured Rise (mm)	1794			
Measured At Ring No.	2			
Sag (mm)	6			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)	1800			
Measured At Ring No.	2			
Deflection (mm)	6			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0	IV	1.4	
Measured At Ring No.	2			
Abrasion (Y/N)	No			
Circumferential Seams	110	NI	N1	
Separation (mm)	15	N	N	
· · · · ·	10	V	V	
Longitudinal Seams	0	X	X	
Total No. of Cracked Rings Total No. of Rings with Two	0			
Cracked Seams  Min. Remaining Steel	0			
Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	(Superficial corrosion on the floor) 15- Jan-2009
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			No sight line possible
Ponding (Y/N)	No			

		Bric	dge Cu	ulvert Barrel							
culvert Component		Last Now		Explanation of Condition							
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa			):	, Rise (mm): 1800, Type: MP)							
Fish Passage Adequacy		5	5								
Baffle		Х	X								
(Type:)											
Waterway Adequacy			5	(Ice to barrel roof) 19-Jan-2010							
Icing (Y/N)	Yes										
Silting (Y/N)	No										
Drift (Y/N)	No										
Barrel General Rating			N								
Downstream End											
Culvert Component		Last	Now	Explanation of Condition							
Direction				North end.							
End Treatment (Concrete, Steel, Others, None)	STEEL										
Headwall		Х	X								
Collar			Х								
Wingwalls		Х	Х								
(Shape: )											
Cutoff Wall		Х	Х								
Bevel End			7								
Heaving (mm)	0										
Invert Above/Below Stream Bed BELOW											
Above/Below (mm) 400											
Scour Protection		N	7								
(Type : RIP RAP)											
(Avg. Rock Size(mm) : <b>200</b> )											
Scour/Erosion		N	7								
eavers (Y/N) No											
Downstream End General Ratio	ng	8	7								
		S	tructu	re Usage							
		Last	Now	Explanation of Condition							
Channel (U/S and D/S)											
Alignment			5	Curves U/S & D/S of the pipe. A pump inlet and turnout structure U/S							
Bank Stability			7								
HWM (m below Top of Culvert)	0.6			No visiblw HWM							
Drift (Y/N) No											
Channel Bottom AGGRADING Degrading/Aggrading											
Beavers (Y/N) No											
(Fish Compensation Measure 1 :	NONE)										
(Fish Compensation Measure 2 :	NONE)										
Channel General Rating		5	5								

			Maintena	ance Recommer	dations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 55.6/5	5.6	Sufficiency Rating (%)	g (Last/Now)	60.4/59.4	Est. Repl. Yr	2040	Maint. Re	eqd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Stimated Tota	ıI 0	
Proposed Long-Term Strategy									·	
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry Roberts	3		Previous	Assistant's Name					
Next Inspection Date	28-Jun-2013			Previous	Inspection Date	19-Jan-2010				
Inspection Cycle (Default) (months)	21									
Comment										