Bridge Culvert Inspection														
Bridge File Nur	nber	75824	-1 Bridge Culve	rt			Form T	уре		CUL1				
Year Built		1986					Lot No			4				
Bridge or Town	Name	GEM					Inspec	tor Name		Tom Carey				
Located Over		EID - IF	RRIGATION C,	WATERC	RS-IC	C Inspector Class			BR CLS A					
Located On		862:04	C1 12.423				Assista	ant Name						
Water Body Cl.	/Year						Assista	ant Class						
Navigabil. Cl./Y	'ear						Inspec	tion Date		09-Feb-2010				
Legal Land Loc	ation	SE SE	C 2 TWP 24 RG	E 16 W4	М		Data E	ntry By		Erin Roberts				
Longitude, Latit	tude	-112:07	7:44, 51:00:31				Data E	ntry Date	!	08-Mar-2010				
Road Authority		Alberta	Transportation	(AIT)			Review	ver Name		Garry Roberts				
Contract Main.	Area	CMA23	3				Review	v Date		24-Feb-2010				
Clear Roadway	//Skew	8.5 /					Dept. F	Reviewer	Name	Lorenz Bohner	rt			
AADT/Year		110/2	008 (A)				Dept. F	Review D	ate	09-Mar-2010				
Road Classifica	ation	RAU-2	12-110				Follow	-Up By						
Detour Length	(km)	10												
Bridge Culvert		ation												
Number of Culv	erts/		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		3870	2480		RPE		25.6		152X51		ELLIPSE		
Special Feature	es													
Special Feature	es Comr	ment												
Utility Attachme	onte				Uti	ilities (L	ocated	at)						
Telephone	south						Gas							
Power 3-wire north							Munici	nal						
	3-WIIE	1101111						m (Y/N)	No					
Others							FIUDIE	III (1/I N)	INO					
Remarks Approach Road / Embankment														
	Approach Road / Embankment Last Now Explanation of Condition													
Horizontal Alignment				7	7		ent-120m							
Vertical Alignment					6	6	CREST APPROX. 120m WEST							
Roadway Width			9.000											
Embankment					7	N	Snow							
Sideslope (:1)		3.0											
(Height of Cover (m) :)			10.0				-							
Guardrail (Y/N)		. ,	No											
Approach Roa	id / Emb	oankme	ent General Rat	ing	6	6								
						Upstre	am End							
Culvert Compo	onent				Last	Now	1	nation of	Condi	tion				
Direction						SOUTH END								
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall					Х	Х								
Collar					Х	Х								
Wingwalls					Х	X								
(Shape:)														
Cutoff Wall					X	X								

75824 -1 Bridge Culvert

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		7	N	70% snow covered						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	400									
Scour Protection			N	Snow						
(Type : RIP RAP)										
(Avg. Rock Size (mm) : 200)										
Scour/Erosion			N							
Beavers (Y/N)	No									
Upstream End General Rating		7	N							
		Bri	dae Cu	Ivert Barrel						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	n): 3870), Rise (mm): 2480, Type: RPE)						
Barrel Last Accessible Date	09-Feb-2010									
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof			8	ESTIMATE						
Measured Rise (mm)										
Measured At Ring No.										
Sag (mm)	70									
Percent Sag	2									
Sidewall		N	6							
Measured Span (mm)	3940									
Measured At Ring No.	3									
Deflection (mm)	70									
Percent Deflection	1									
Floor		N	N	Ice covered						
Bulge (mm)										
Measured At Ring No.										
Abrasion (Y/N)										
Circumferential Seams		7	7							
Separation (mm)										
Longitudinal Seams		7	7							
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)	0									
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	No									
Coating			5	20mm soil corrosion all along West side- coating is deteriorated at						
Corrosion By Soil (Y/N)	Yes			these spots- no loss of section or perforationos						
Corrosion By Water (Y/N)	No									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									

	Bridge Culvert Barrel										
Culvert Component		Last		Explanation of Condition							
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 3870	, Rise (mm): 2480, Type: RPE)							
Fish Passage Adequacy		Х	X								
Baffle		X	Х								
(Type:)											
Waterway Adequacy		8	8								
Icing (Y/N)	No										
Silting (Y/N)	No										
Drift (Y/N)	No										
Barrel General Rating			6								
Downstream End											
Culvert Component		Last	Now	Explanation of Condition							
Direction				NORTH END							
End Treatment (Concrete, Steel, Others, None)	STEEL										
Headwall		X	X								
Collar		Х	Х								
Wingwalls		Х	Х								
(Shape:)											
Cutoff Wall		Х	Х								
Bevel End		7	N	Bevel 50% snow covered							
Heaving (mm)	100										
Invert Above/Below Stream Bed BELOW											
Above/Below (mm) 600											
Scour Protection			N	Snow							
(Type: RIP RAP)											
(Avg. Rock Size (mm) : 200)											
Scour/Erosion		7	N								
Beavers (Y/N)	No										
Downstream End General Ratin	ng	7	N								
		s	tructu	re Usage							
		Last	Now	Explanation of Condition							
Channel (U/S and D/S)											
Alignment		8	8								
Bank Stability			N	Snow							
HWM (m below Top of Culvert) 0.4				Snow							
Drift (Y/N) No											
Channel Bottom Degrading/Aggrading AGGRADING											
Beavers (Y/N)	No										
(Fish Compensation Measure 1 :											
(Fish Compensation Measure 2 : NONE)											
Channel General Rating		8	8	GR carried forward							

			Maintenance	Recommen	dations					
Inspector Recommendations	Year	Inspector Co	mments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	i									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTO	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 77.8/66	5.7 Suf (%)	Sufficiency Rating (Last/Now) (%)		81.3/72.8	Est. Repl. Yr	2033 Maint.		qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	stimated Tota	I 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Tim Davies			Assistant's Name						
Next Inspection Date	09-May-2013			Previous	Inspection Date	30-Jan-2007				
Inspection Cycle (Default) (months)	39									
Comment										