				Brid	dge Cul	/ert Insp	ection				
Bridge File Nur	File Number 86163 -1 Bridge Culvert					Form Type		CUL1			
Year Built 1961								2			
Bridge or Town Name WATERCOURSE CULVERT OF				VERT ON	N		tor Name	Brian Pientsch			
PROVINCIAL HIGHWAY 35 NE MEANDER RI							tor Class	BR CLS A			
Located Over					9		ant Name	Clem Guenette			
Located Over TRIBUTARY TO HAY RIVER, 9 WATERCRS-ST				NIVEN, 3.3,	.9,		ant Class				
Located On 35:18 C1 39.124							tion Date	10-Jan-2012			
Water Body Cl./Year						Data E	ntry By	Theresa Lacusta			
Navigabil. Cl./Year						Data E	ntry Date	04-Mar-2012			
Legal Land Location NE SEC 10 TWP 119 RGE 20 W						Review	ver Name	Eric Carcoux			
Longitude, Latitude -117:20:58, 59:19:22						Review	v Date	26-Feb-2012			
Road Authority	/	Alberta	Transportation	(AIT)	Dept. Reviewer Name			David Morriso	n		
Contract Main.	Area	CMA01			Dept. Review Date			30-Mar-2012			
Clear Roadway	y/Skew	9.4 / 30	deg. (RHF)			Follow	-Up By				
AADT/Year		370 / 20	011 (A)								
Road Classifica	ation	RAU-21	0-110								
Detour Length	(km)	999									
Bridge Culver		ation									
Number of Cul	verts		1				1	1	1		
Pipe #	Barrel		Span	Rise (or Dia.) Type		Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	1500	SP		26.9	68X13	2.8	ROUND	
Special Feature	es										
Special Feature	es Comi	ment									
Utility Attachme Telephone Power						Gas	GasMunicipalProblem (Y/N)No				
Others Remarks						Munici					
				Appro	bach Ro	Munici Proble					
				Appro Las		Munici Proble	m (Y/N) No	ition			
	nment				st Now	Munici Proble ad / Emb Explar	m (Y/N) No ankment nation of Cond	ition			
Remarks				Las	st Now	Munici Proble	m (Y/N) No ankment nation of Cond	ition			
Remarks Horizontal Alig	nent		10.200	Las 8	st Now	Munici Proble ad / Emb Explar	m (Y/N) No ankment nation of Cond	ition			
Remarks Horizontal Align	nent		10.200	Las 8	st Now 8 8 7	Munici Proble Ad / Emb Explar Sag cu	m (Y/N) No ankment nation of Cond	ition de 6m East of r	oad shoulder.		
Remarks Horizontal Alig Vertical Alignm Roadway Widt	nent h (m)		10.200	Las	st Now 8 8 7	Munici Proble Ad / Emb Explar Sag cu	m (Y/N) No ankment nation of Cond		oad shoulder.		
Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment	nent h (m) _:1)	1)		Las	st Now 8 8 7	Munici Proble Ad / Emb Explar Sag cu	m (Y/N) No ankment nation of Cond		oad shoulder.		
Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (nent h (m) _:1) over(m) :	1)		Las	st Now 8 8 7	Munici Proble Ad / Emb Explar Sag cu	m (Y/N) No ankment nation of Cond		oad shoulder.		
Remarks Horizontal Alig Vertical Alignm Roadway Widtl Embankment Sideslope (nent h (m) _:1) over(m) :)	·	4.0	Las 8 8 4 4	St Now 8 8 3 7	Munici Proble Ad / Emb Explar Sag cu	m (Y/N) No ankment nation of Cond		oad shoulder.		
Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (nent h (m) _:1) over(m) :)	·	4.0	Las 8 8 4 4	St Now 8 8 7 7 4 4 5 7	Munici Proble Ad / Emb Explar Sag cu	m (Y/N) No ankment nation of Cond urve		oad shoulder.		
Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (nent h (m) _:1) over(m) :) ad / Eml	·	4.0	Las 8 8 4 4	st Now 8 8 7 4 4 3 7 4 7 4 7	eam Enc	m (Y/N) No ankment nation of Cond urve	de 6m East of r	oad shoulder.		
Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (nent h (m) _:1) over(m) :) ad / Eml	·	4.0	Las 8 8 8 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	st Now 8 8 7 4 4 3 7 4 7 4 7	eam Enc	m (Y/N) No ankment nation of Cond Irve and vertical sli	de 6m East of r	oad shoulder.		
Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (nent h (m) _:1) over(m) :) ad / Eml	pankmei	4.0 No nt General Rat	ing Las	st Now 8 8 7 4 4 3 7 4 7 4 7	eam Enc	m (Y/N) No ankment nation of Cond Irve and vertical sli	de 6m East of r	oad shoulder.		
Remarks Horizontal Alig Vertical Alignm Roadway Widt Embankment Sideslope (nent h (m) _:1) over(m) :) ad / Eml	pankmei	4.0 No nt General Rat	ing Las	st Now 8 8 7 4 4 5 7 Upsti st Now	eam Enc	m (Y/N) No ankment nation of Cond Irve and vertical sli	de 6m East of r	oad shoulder.		
Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (nent h (m) _:1) over(m) :) ad / Eml	pankmei	4.0 No nt General Rat	ing 8	st Now 8 8 7 4 4 5 7 Upstr st Now	eam Enc	m (Y/N) No ankment nation of Cond Irve and vertical sli	de 6m East of r	oad shoulder.		
Remarks Horizontal Align Vertical Alignm Roadway Widtl Embankment Sideslope (nent h (m) _:1) over(m) :) ad / Eml	pankmei	4.0 No nt General Rat	ing 8	st Now 8 8 7 4 4 5 7 Upstr st Now X X X	eam Enc	m (Y/N) No ankment nation of Cond Irve and vertical sli	de 6m East of r	oad shoulder.		

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall		X	X							
Bevel End		X	Х							
Heaving (mm)	Heaving (mm)									
Invert Above/Below Stream Bed										
Above/Below (mm) 300										
Scour Protection			N	Snow covered						
(Type : NATURAL)										
(Avg. Rock Size(mm) :)										
Scour/Erosion			N	Snow covered						
Beavers (Y/N) No										
Upstream End General Rating		5 5		GR carried fwd from 26-May-2010						
		Brid	dge Cu	lvert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 1500, Type: SP)						
Barrel Last Accessible Date	26-May-2010			Not accessible, 480mm crown to ice.						
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)			-							
Roof		7	N							
Measured Rise (mm)	1487									
Measured At Ring No.	20									
Sag (mm)	13									
Percent Sag	1									
Sidewall		7	N							
Measured Span (mm)	1519									
Measured At Ring No.	20									
Deflection (mm)	19									
Percent Deflection	2									
Floor		N	N	Under water/ice.						
Bulge (mm)			14							
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		6	N							
Separation (mm)	90	0	11							
Longitudinal Seams		6	N	Rivetted pipe.						
Total No. of Cracked Rings										
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)	Min. Remaining Steel									
Proper Lap (Y/N)				1						
Longitudinal Stagger (Y/N)										
Coating		4	N	Pitting rust on floor.						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

86163 -1 Bridge Culvert

		Bri	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			, Rise (mm): 1500, Type: SP)
Ponding (Y/N)	No		<u>,-</u>	
Fish Passage Adequacy		3	3	d/s drop.
Baffle			X	
(Type :)		X		
Waterway Adequacy		5	4	
Icing (Y/N)	Yes			
Silting (Y/N)	No			at downstream bevel.
Drift (Y/N)	Yes			
Barrel General Rating		7	N	GR 7 -26-May-2010
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		Х	X	
Wingwalls			X	
(Shape :)				
Cutoff Wall		Х	Х	
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			Culvert end undermined by 2m26-May-2010
Above/Below (mm)	2000			Completely iced up.
Scour Protection		3	N	Vertical slump 2m high along North side of culvert end26-May-2010
(Type : NONE)				Snow covered
(Avg. Rock Size(mm) :)				
Scour/Erosion		3	N	Erosion 2m high along North side of culvert end26-May-2010
				Snow covered
Beavers (Y/N)	No			
Downstream End General Ration	ng	3	3	GR carried fwd from 26-May-2010
		5	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		4	N	Slumping banks on d/s channel/slide 1.5m high along S and N side of culvert-5m d/s26-May-2010
				Snow covered
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	None)			
(Fish Compensation Measure 2 :				
Channel General Rating			4	GR carried over from 26-May-2010
			Dogo	3 of 5

Structure Usage Last Now Explanation of Condition

Maintenance Recommendations											
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/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION		2012	Repair da already d	/s embankment and apron, done.	if not						
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		77.8/55.0	6	Sufficiency Rating (Last/ (%)	Now)	52.6/38.2	Est. Repl. Yr	2015	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments					
Maintenance Reviewed By						Date		E	Estimated Total	0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Bria		Brian Pientsch			Previous	Previous Assistant's Name Lisbeth Medina					
		2013			Previous	Inspection Date	26-May-201)			
Inspection Cycle (Default) (months)	21										
Comment											