					Bridg	e Culve	rt Inspe	ection						
Bridge File Number 77488 -1 Bridge Culvert Year Built 1977					Form Type		CUL1							
Year Built 1977						Lot No.	•		4					
Bridge or Town Name CANMORE Located Over GRIZZLY CK, 2 13 56 15, WA						Inspec	tor Name	!	Garry Roberts					
			Y CK, 2.13.56.15, WATERCRS-ST				Inspec	tor Class		BR CLS A				
Located On 40:12 C1 5		5.943				Assista	ınt Name							
Water Body Cl./Year							Assista	int Class						
Navigabil. Cl./Y	'ear						Inspec	tion Date		02-Apr-2013				
Legal Land Loc	cation	SE SEC	11 TWP 21 R	GE 9 W5	М		Data E	ntry By		Lauren Korte				
Longitude, Latit	tude	-115:08:	33, 50:45:53				Data E	ntry Date	:	11-Apr-2013				
Road Authority		Alberta 7	Transportation	(AIT)						Tom Carey				
Contract Main.	Area	CMA28					Review Date			10-Apr-2013				
Clear Roadway	//Skew	11.2 /					Dept. F	Reviewer	Name	Tim Davies				
AADT/Year		1,690 / 2	2012 (A)				Dept. Review Date		06-May-2013					
Road Classifica	ation	RAU-209	9-110				Follow-	-Uр Ву						
Detour Length	(km)	50												
Bridge Culvert	t Inform	ation												
Number of Culv	verts	1	1											
Pipe #	Barrel	8	Span	Rise (or	e (or Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	2	2027	2240		SPE		39.6		152X51	4.0	ELLIPSE		
Special Feature	es													
Special Feature		ment												
•														
					Uti	ilities (L	ocated.	at)						
Utility Attachme		124 1					_		1					
Telephone	West						Gas							
Power	East F	ROW.						Municipal						
Others							Problei	m (Y/N)	No					
Remarks														
				A				ankment		tion				
Harizantal Alian	omont				Last	Now 6	_	Explanation of Condition Curves both ends.						
Horizontal Alignment				7	7	Curves	DOUT ELIC	JS.						
Vertical Alignment Roadway Width (m)		11.200		/	,									
					7	7								
Embankment 3.0			/	1										
Sideslope (:1) 3.0														
(Height of Cover(m) : 1.2) Guardrail (Y/N) Yes		Yes					West side only.							
Approach Road / Embankment General Rating		ing	6	6										
						Unotro	om End							
Culvert Comp	onent				Last	Upstrea Now		ation of	Condi	tion				
Culvert Component Direction				E	INOW	Ехріаі	iation or	Contai	LIOII					
End Treatment (Concrete, Steel, STEEL			_											
Others, None) Headwall			Х	Х										
Collar					Х	X								
Wingwalls					Х	X								
(Shape:)														
Cutoff Wall				X	X									

77488 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	I.	5	5	Explanation of containen
Heaving (mm)	0			-
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			-
Scour Protection	000	5	5	Minor gracion at Couth aids of havel
		<u> </u>	3	Minor erosion at South side of bevel.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)			Ι -	
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Bri	dge <u>Cu</u>	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			· ·
Barrel Last Accessible Date	01-Apr-2013		<u> </u>	
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	2187			
Measured At Ring No.	4			
Sag (mm)	53			
Percent Sag	2			
Sidewall		6	6	
Measured Span (mm)	2095			
Measured At Ring No.	4			
Deflection (mm)	68			
Percent Deflection	3			
	3	5		Crade steenens at D4. Book dente along floor, worst at D0.10 D/S
Floor	0	5	5	Grade steepens at R4. Rock dents along floor- worst at R9-10 D/S.
Bulge (mm)	U			
Measured At Ring No.	Voc			
Abrasion (Y/N)	Yes	_	_	
Circumferential Seams		7	7	-
Separation (mm)	0			
Longitudinal Seams	T -	6	6	Minor seam bulging inward 50 mm @ some areas at upper sidewall.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	4	Corrosion with some pitting at sides of floor at waterline corrosion
Corrosion By Soil (Y/N)	Yes			stains around bolt holes.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

77488 -1 Bridge Culvert

		Bric	ige Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2027	, Rise (mm): 2240, Type: SPE)
Fish Passage Adequacy		6	6	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		W		West.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		5	5	Corrosion with some pitting at floor bevel.
Heaving (mm)	50			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1100			
Scour Protection		7	7	Cl.2 placed at D/S.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	5	5	
		s	tructur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Culvert)				No visible HWM.
Drift (Y/N)	No			
Channel Bottom AGGRADING Degrading/Aggrading				@ D/S.
Channel Bottom AGGRADING				
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	6	

77488 -1 Bridge Culvert

		Maintenand	e Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Con	nments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS		·	·				
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTO	FF						
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Nov (%)	w) 66.7/66	.7 Sufficiency Rating (I	ast/Now) 64.0/63.9	Est. Repl. Yr 2025	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	I 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
TOVIOGO HISPOULOI S HAITIC							
	02-Jan-2015		Previous Inspection Date	26-May-2011			
Next Inspection Date	02-Jan-2015 21		Previous Inspection Date	26-May-2011			