Bridge Culvert Inspection													
Bridge File Number 80779 -1 Bridge Culvert							Form Type			CUL1			
Year Built 1984						Lot No.			2				
Bridge or Town Name GROVEDALE						Inspector Name			Russel Vanderschaaf				
Located Over TRIBUTARY TO CUTBANK RIVI 8.10.58.20.2, WATERCRS-ST				ΈR,		· ·	tor Class		BR CLS B				
Located On 40:38 C1 49.194								ant Name					
Water Body Cl.	/Year							nt Class		00.4			
Navigabil. Cl./Y								tion Date		23-Aug-2012			
Legal Land Location NW SEC 4 TWP 65 RGE 5 W6				SE 5 W6N	/			ntry By	Theresa Lacusta				
			:52 54:26:04					ntry Date		26-Sep-2012			
			a Transportation (AIT)					ver Name	!	Eric Carcoux			
Contract Main. Area CMA05				,			Review Date 24-Sep-2012						
Clear Roadway		11.8 /							David Morrison				
AADT/Year		1,220 / 2	2011 (A)						ate	10-Jan-2013			
Road Classifica	ation	RAU-21					Follow-Up By						
Detour Length (	(km)	999											
Bridge Culvert	,	ation											
Number of Culv	erts		1										
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN			2400		SP	129.2		152X51	4.0,4.0,5.0	ROUND		
Special Feature							1, 1, 1						
Special Features Comment													
					Uti	ilities (L	ocated	at)					
Utility Attachme	ents								1				
Telephone							Gas						
Power	7 W o/	/h W r/w					Munici						
Others							Proble	m (Y/N)	No				
Remarks				Δ.		sh Dage	l / Emb	ankment					
				A	Last					tion			
Horizontal Alignment			8	8	Explanation of Condition Passing both directions.								
Vertical Alignment				7 7			On a crest curve.						
Roadway Width	n (m)		11.800			3mWx10mLx1.5mD SE.							
Embankment				N	4	Minor gullies 600 x 400 at SW, 3x2x10.4:1 near bottom.							
Sideslope (	_:1)		3.0				Gully @ NW 6m wide, 0.8m deep, 20m longphoto						
(Height of Co	ver(m):	20.8)											
Guardrail (Y/N)			Yes					8 broken posts, 7 sections bent rail SE corner. 7 leaning posts due to collision.					
Approach Roa	d / Emb	ankmen	nt General Rati	ing	7	7							
						Upstre	am <u>End</u>						
Culvert Compo	onent				Last	Now		ation of	Condi	tion			
Direction			Е										
End Treatment (Concrete, Steel, STEEL Others, None)													
Headwall			Х	Х									
Collar			Х	Х									
Wingwalls			Х	X									
(Shape · )													

			l lootus	Fuel
Culvert Component		Last	Now	am End Explanation of Condition
Cutoff Wall		X	X	Explanation of Condition
Cuton Wan				
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
			lara A	hart Parrel
Culvert Component			lge Cu Now	vert Barrel  Explanation of Condition
Culvert Component (Pipe # : 1, Primary Span, Location   (Pipe * 1, Primary Spa	tion Code: MAIN Sec			Explanation of Condition , Rise (mm): 2400, Type: SP)
Barrel Last Accessible Date		(11111)	<i>)</i> -	, moe ming. 2400, type. or
Darrei Lasi Accessible Date	23-Aug-2012			
Special Features				
Special Feature		7	7	RING 6-18 SHOTCRETED @ 9:00
(Type : <b>SHOTCRETE BEAM</b> )				Minor spall ring 7 to 9, vertical cracking at rings 12 to 13.
Special Feature				Shotcrete approx 150mm thick.
(Type:)				
Roof		4	4	
Measured Rise (mm)	2187			
Measured At Ring No.	13			
Sag (mm)	213			
Percent Sag	9			
Sidewall		4	3	
Measured Span (mm)	2533			
Measured At Ring No.	13			
Deflection (mm)	283			
Percent Deflection	12			
Floor		N	5	
Bulge (mm)	0			
Measured At Ring No.	13			
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	Water piping from R23 to R27.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	5	Superficial rust, 800mm strip on floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

	Bridge Culvert Barrel									
Culvert Component		Last Now		Explanation of Condition						
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	):	, Rise (mm): 2400, Type: SP)						
Ponding (Y/N)	No									
Fish Passage Adequacy		5	5							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		6	6							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		4	3							
g										
				ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction	1	W								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		X	X							
Wingwalls		Х	Х							
(Shape: )										
Cutoff Wall		Х	Х							
Bevel End			7							
Heaving (mm)	0									
Invert Above/Below Stream Bed										
Above/Below (mm)										
Scour Protection		N	7							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		N	7							
Beavers (Y/N)	No									
Downstream End General Ratio	ng	7	7							
		9	tructu	re Usage						
		Last		Explanation of Condition						
Channel (U/S and D/S)	·	1_0.01	1							
Alignment			6	U/S & d/s ends veer north.						
Bank Stability			5	Slough and vertical faces d/s away from structure.						
HWM (m below Top of Culvert)				Hwm not visible.						
Drift (Y/N) No										
Channel Bottom DEGRADING				Beaver dam 50m u/s.						
Degrading/Aggrading										
Beavers (Y/N) Yes										
(Fish Compensation Measure 1 :	·									
(Figh Companyation Massure 2 .	NICHE!									

Structure Usage								
	Last Now Explanation of Condition							
Channel General Rating	5	6						

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Maintenance Recommendations											
Inspector Recommendations		Year Inspector Comments				Department Com		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		2013	Repair guardrail								
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		44.4/33.	3	Sufficiency Rating (Last/	Now)	53.1/48.3	Est. Repl. Yr	st. Repl. Yr 2030		qd. (Y/N)	Yes
Special Comments for Next Inspection Monitor barrel shape.						Department Comments					
Maintenance Reviewed By						Date		E	stimated Total	0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Russel	Russel Vanderschaaf			Previous Assistant's Name						
		23-May-2014			Previous	Previous Inspection Date 24-Nov-2010					
Inspection Cycle (Default) (months)	21										
Comment											