

Bridge Inspection									
Bridge File Number	07096 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1971/1971				Lot No.	2			
Bridge or Town Name	ORION				Inspector Name	Jon Davies			
Located Over	KETCHUM CREEK, 11.2, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	887:02 C1 10.282				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	24-Jun-2012			
Legal Land Location	SW SEC 30 TWP 4 RGE 6 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-110:48:47, 49:19:29				Data Entry Date	25-Jul-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA24				Review Date	09-Jul-2012			
Clear Roadway/Skew	8.3 / -15 deg. (LHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	90 / 2011 (A)				Dept. Review Date	30-Jul-2012			
Road Classification	RCU-208-110				Follow-Up By				
Detour Length (km)	10								
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 70 GIRDER	----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> Primary Span		
Posting Information									
Required Load Posting (t)	Single			Semi			Truck Train		
Posted Loading (t)	Single			Semi			Truck Train		
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not req.								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	"Slippery when wet" Caution North and South.								
Utilities (Located at)									
Utility Attachments									
Telephone	Conduit on West side- in West bridge rail.				Gas				
Power					Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9	Gravel road.				
Vertical Alignment			9	9					
Roadway Width (m)	8.300				Not thriebeam.				
Approach Bump			5	5					
Guardrail (Y/N)	Yes				Not thriebeam.				
Guardrail			3	8					
Length (m)	15.200								
Current Standard (Y/N)	No								
Termination Type	TURN DOWN								
Drainage			7	6					
Approach Road General Rating			3	9					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 8.5-10.1-8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			3	5	5 Spalls in the deck top where previously repaired has spalled.
Deck Rideability			6	6	
Deck Joints			5	5	Buffer angles.
Bump (Y/N)		No			
Deck Drainage			6	5	Erosion in the NW corner btwn the bridge end & the road.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			7	8	Double layer.
(Type : STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	11	
Now	0	0	0	0	
Girders			3	4	Drift pin spalls at several girders. Narrow shear crack Sp. 1- G6 and Sp.3-G4.
Last Complete Inspection Date		24-Jun-2012			Wide crack in AZ- 1 leg only sound concrete.
Cracking (Y/N)		Yes			Sp.1- G 1,3,4+5, Sp.3- G 2,4,7+8.
Spalling (Percent Area)		5			Wide crack in AZ- 1 leg unsound Sp.2-G7.
Lift or Connector Pocket Grouted (Y/N)		No			Connector pockets not grouted.
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	4	

Substructure						
Bridge Component				Last	Now	Explanation of Condition
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1300)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls				4	4	Gap in backwall at NW causing loss of road gravel.
Greatest Height (m)		1.00				
Wingwalls				7	6	
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Piles				6	5	
Paint/Coating				X	X	
Abutment Stability				6	5	
Scour/Erosion				4	4	Erosion gullies at South abut.
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				6	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 356)						
(Width(mm) : 305)						
(Total Number of Bearing Piles : 8:5)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				5	5	
Greatest Height (m)		3.80				
Bracing/Struts/Sheathing				6	5	
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		6	5	
Scour		7	6	
Debris (Y/N)	Yes			Old piles.
Substructure General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		5	5	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Patch girder top-0.1m3- 5 locations.					
OTHER ACTION	2012	Patch exposed lift hooks and connector pockets.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/50.0	Sufficiency Rating (Last/Now) (%)	57.5/66.5	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	24-Sep-2015		Previous Inspection Date	14-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							