

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B05302019-2	
Date: 5/30/2019	Inspected By: lyver C	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-284 - QUARRY BROOK BRIDGE		
Route:		Overall Length:	10.3 m
Year Built:	1970	Est: Yes	Overall Width: 12.4 m
Year Last Rehab.:		Est: No	Roadway Width: 11.8 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.4 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	0.2 m
Purpose of Structure:	04 - Over Non-Navigable Waters		
Type of Handrail:	02 - Concrete Rail	Spans:	
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	3
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	Original structure extended approximately 2m West side and 5m downstream. Note structure rehab 2018. Severe scour and erosion at bases of original frame legs repaired in 2018 rehab. Narrow medium cracks with light efflor deposits in original extension footings. Frame leg footings on extension remain in fair condition.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	I - Inapplicable
Comments:	Narrow vertical horizontal cracks with light efflor deposits in original extension frame legs. Heavy efflor deposits along top of center pier hairline alligator cracks in 4 wing walls.		
DECK			
Condition:	F1 - Fair	Curbs:	G - Good

Hand Rail:	G - Good	Roadway Condition:	G - Good
Approach Rail:	G - Good		
Comments:	New type C, C, G at North East/North West end of the structure. New asphalt patches in front of new curbs on structure. New curbs/exterior deck facials end block in 2019 rehab. Light rutting in asphalt on deck and approaches. New steel handrails and approach/exit guiderail in 2018 re-hab approach/exit guiderail at North East / North West and South West end only.		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	P - Possible Problem
Water Depth:	0.4 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Scour under footings at South West ends repaired in 2018 re-hab. Minor shifting with medium loss of components in upstream abutment retaining walls.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2019	Replacement Year:	2030
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$500
Recommendations:			

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Unchanged from 2009 inspection.		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- Any item which inspector feels should be documented by photograph
- All items noted above as being P3, P1, P, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS