

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08202021-4	
Date: 8/12/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	1-321 - TURK'S WATER BRIDGE OVER GOULD'S BROOK		
Route:	71	Overall Length:	14.45 m
Year Built:	1960	Est: Yes	Overall Width: 4.4 m
Year Last Rehab.:		Est: No	Roadway Width: 5 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	0.9 m
Type of Structure:	11 - Timber Bridge	Max Depth of N.W.L.:	0.6 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	03 - Timber Rail	Span No.:	Length
Roadway Surface:	03 - Timber	1	6
Alignment Vertical:	01 - Good	2	6
Alignment Horizontal:	01 - Good	3	0
Restrictions:	Yes	Span No.:	Length
Describe Restrictions:	1 lane traffic	4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	P3 - Poor
Comments:	- Upstream side of pier is severely deteriorated with large cracks/spalls vegetation growing out of spalls. - Both abutments have wide vertical cracks from the water level to top of concrete. - Bearing areas on the south abutment have large spalls near creosote beams (P3). 12x12" creosote beams extend ~1m beyond both abutments and are buried into the ground. - North abutment bearing areas F1.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable
Comments:	- 12x12" creosote beams in fair condition with mild splitting.		
DECK			

Condition:	P1 - Poor	Curbs:	I - Inapplicable
Hand Rail:	P - Poor	Roadway Condition:	I - Inapplicable
Approach Rail:	I - Inapplicable		
Comments:	- Handrail posts toe-nailed to deck in some locations, 2x6" rails missing and with some cut. - No app/exit rails. - No curb or hazard markers. - Timber decking heavily worn with numerous splits. - Underside of deck uninspectable, but open to elements.		

HYDROLOGY

Water Velocity:	0.1 m/s	Ice Problem:	P - Possible Problem
Water Depth:	1.0 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Deep water prevented scour inspection.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	2022
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$200000
Recommendations:	- If structure is the responsibility of T&I, replace the structure. - 12x12" creosote timbers likely re-useable. Abutments, pier, handrails, and timber decking need replacement.		

OBSERVATIONS

Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	- Structure leads to atv trail. Services no homes. - Licensed Salmon River. - Structure not professionally maintained, handrail modifications likely completed by locals in the area. - Vertical alignment on south approach very steep. Hazards: Deep water, missing handrails to Brook below.		

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