

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B01232023-2</b>	
<b>Date:</b> 4/21/2022	<b>Inspected By:</b> Mike Fleming	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	TCH-178 - COOPER'S BROOK BRIDGE		
<b>Route:</b>		<b>Overall Length:</b>	16.5 m
<b>Year Built:</b>	1970	<b>Est:</b> No	<b>Overall Width:</b> 13.8 m
<b>Year Last Rehab.:</b>	2000	<b>Est:</b> No	<b>Roadway Width:</b> 12.3 m
<b>Region:</b>	WEST COAST/NORTHERN		<b>Sidewalk Width:</b> 0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	3.3 m
<b>Type of Structure:</b>	03 - Reinforced Concrete Beam/Slab		<b>Max Depth of N.W.L.:</b> 0 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters		<b>Spans:</b>
<b>Type of Handrail:</b>	01 - Aluminum Rail		<u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u>
<b>Roadway Surface:</b>	01 - Concrete	1	12.3   4   0
<b>Alignment Vertical:</b>	01 - Good	2	0   5   0
<b>Alignment Horizontal:</b>	01 - Good	3	0   6   0
<b>Restrictions:</b>	No		
<b>BRIDGE PHOTOS</b>			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	I - Inapplicable
		<b>Bearing Seat:</b>	I - Inapplicable
<b>Comments:</b>	Light to moderate spalling, delamination, and fracturing (Vertical and Horizontal) noted on the abutments.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	I - Inapplicable
<b>Comments:</b>			
<b>DECK</b>			
<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	G - Good	<b>Roadway Condition:</b>	F1 - Fair
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	Light to moderate settlement and pothole patching noted on the West Approachment. Shoulder erosion noted between end blocks and approach rails. Moderate to severe erosion noted between Coopers Brook and the approach rail on the West side of the structure---erosion extended to the approach rail posts. One section of cracked and damaged/missing curb.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	0 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0 m	<b>Scour Problem:</b>	P - Possible Problem

<b>Waterway:</b>	02 - InAdequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Waterway runs parallel to the TCH and makes a 90 degree meander to the bridge crossing leading to erosion issues.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	<b>Replacement Year:</b>
<b>Antic. Rehab. Cost:</b> \$0	<b>Replacement Cost:</b> \$0
<b>Recommendations:</b> The erosion noted between the river and the approach rail should be treated with Hydraulic Class II Rip-Rap. Rehab on the abutments and approaches recommended in the future.	

**OBSERVATIONS**

<b>Overall Condition:</b>	F1 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	One Hazard Marker Missing; Windrows of winter sand accumulation under the approach rails. Moderate to severe erosion noted between the river and the approach rail on the West side of the structure. Erosion noted up to the approach rail posts. Pics on file		

**LEGEND:**

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

**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**