

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B06142024-1</b>	
<b>Date:</b> 6/14/2024	<b>Inspected By:</b> Damien Burns	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	TCH-015 - LOWER SHOAL HARBOUR RIVER BRIDGE		
<b>Route:</b>	1	<b>Overall Length:</b>	21 m
<b>Year Built:</b>	1964	<b>Est:</b> No	<b>Overall Width:</b> 18.2 m
<b>Year Last Rehab.:</b>	2021	<b>Est:</b> No	<b>Roadway Width:</b> 16.4 m
<b>Region:</b>	CENTRAL EAST	<b>Sidewalk Width:</b>	0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	3 m
<b>Type of Structure:</b>	02 - Double Tee	<b>Max Depth of N.W.L.:</b>	0.5 m
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters		<b>Spans:</b>
<b>Type of Handrail:</b>	04 - Steel Rail	<b>Span No.:</b>	<b>Length</b>
<b>Roadway Surface:</b>	02 - Asphalt	1	11
<b>Alignment Vertical:</b>	01 - Good	2	0
<b>Alignment Horizontal:</b>	01 - Good	3	0
<b>Restrictions:</b>	No	4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	U - Uninspectable
		<b>Bearing Seat:</b>	U - Uninspectable
<b>Comments:</b>	Previous inspection - All wingwalls and both abutment faces have mild alligator cracking throughout. Efflorescence on both abutment faces but from leaking joints prior to 2021 rehab. - Bearings and bearing seat too high for inspection but look to be in fair condition from below. New inspection - Alligator cracking on rehab surfaces. - Abutment #2 has leaking near right side double tee precast panels, could be due to recent weather conditions.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	G - Good
<b>Comments:</b>	Previous inspection - New asphaltic plug joints in 2021. - Bottom of deck and double tees, F1. No leaks between double tee precast panels. - South fascia in fair condition, small rust stain spots over southeast bearing area. New inspection - Spalling on double tee precast panel #3 flange adjacent to abutment #2. - double tee precast panel		

#15 has rust staining/leaking. - Spalling on Abutment #1, double tee precast panel #12, could not access. - Staining on double tee precast panels #6 and #7 near abutment #1, could not access. - Double tee precast panel #2 near abutment #1 has longitudinal cracking on bottom of double tee precast panel. - Double tee precast panel #15 near abutment #2 has a rust stain. - Spalling near double tee precast panel #11, abutment #2. - Abutment #1, double tee precast panel #17 has rust stain and cracking. - Abutment #1, double tee precast panel #16 has cracking. - Abutment #1, double tee precast panel #14 has cracking and staining. - Abutment #1, double tee precast panel #2 has cracking.

**DECK**

<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	G - Good	<b>Roadway Condition:</b>	G - Good
<b>Approach Rail:</b>	G - Good		
<b>Comments:</b>	Previous inspection - Structural handrail, curbs, asphalt, waterproofing & approach/exit rails all new in 2021. New inspection - slight gap between new plug joint and concrete. - Check cracking on all curbs. - Spalling on approach #2 left. - approach #2 right missing two posts adjacent to end block. - Slight rusting of new steel structural handrail. - Approach #1 left has excessive water/sand/salt build up.		

**HYDROLOGY**

<b>Water Velocity:</b>	0.5 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.2 m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Previous inspection - Some migration of rip-rap into river channel.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>		<b>Replacement Year:</b>	
<b>Antic. Rehab. Cost:</b>	\$0	<b>Replacement Cost:</b>	\$1500000
<b>Recommendations:</b>	Previous inspection - Rehabbed in 2021. Likely a replacement within 20 years.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	Previous inspection - Hazards, fast moving traffic. Rubber boat for inspection under the deck		