



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR  
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT**  
**B08052024-6**

Date: 8/2/2024

Inspected By: D. Burns/B. Grandy

Category: Eng. - Engineering

**BRIDGE INFORMATION**

Site:	2-091 - LITTLE BAY BRIDGE			Overall Length:	40 m
Route:	220-10			Overall Width:	10.2 m
Year Built:	1988	Est: No		Roadway Width:	7.4 m
Year Last Rehab.:		Est: No		Sidewalk Width:	1.3 m
Region:	CENTRAL EAST			Clearance to R.D. or N.W.L.:	2 m
Jurisdiction:	Provincial			Max Depth of N.W.L.:	3 m
Type of Structure:	01 - AASH to Girder			<b>Spans:</b>	
Purpose of Structure:	03 - Over Navigable Waters			<u>Span No.:</u>	<u>Length</u>
Type of Handrail:	01 - Aluminum Rail			<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	01 - Concrete			1	26.8
Alignment Vertical:	01 - Good			2	0
Alignment Horizontal:	01 - Good			3	0
Restrictions:	No			4	0
				5	0
				6	0

**BRIDGE PHOTOS**





**SUBSTRUCTURE**

<b>Condition:</b>	F2 - Fair	<b>Bearings:</b>	F1 - Fair
		<b>Bearing Seat:</b>	F2 - Fair
<b>Comments:</b>	All substructure in fair condition. Bearings are either squat or cracked in some areas.		

**SUPERSTRUCTURE**

<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	P3 - Poor
<b>Comments:</b>	Superstructure in overall fair condition. Expansion joints in poor condition due to sand filling the seals, also suspected to be leaking.		

**DECK**

<b>Condition:</b>	P3 - Poor	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	F1 - Fair	<b>Roadway Condition:</b>	P1 - Poor
<b>Approach Rail:</b>	F1 - Fair		
<b>Comments:</b>	Multiple areas near approach 1 with large potholes and exposed rebar on deck; no signs of water leaking through on underside. Both approach asphalt is in poor condition with large cracking and potholes. Water build up in between drainage points on left side of deck. Aluminum rail in fair condition with minor impact damage in some areas. Left side fascia has spalling with exposed rebar. Minor impact damage to guard rail.		

**HYDROLOGY**

<b>Water Velocity:</b>	Tidal m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	Tidal m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Tidal-Depth and Velocity fluctuate.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2028	<b>Replacement Year:</b>	2050
<b>Antic. Rehab. Cost:</b>	\$100,000	<b>Replacement Cost:</b>	\$3,000,000
<b>Recommendations:</b>	Previous Inspection - Upgrade guiderail post spacing near end blocks and remove overgrowth on approaches. Remove vegetation growth in deck drains. Replace expansion joints and re-chaulk curbs. Partial depth deck repair on various deck potholes. Consider waterproofing exposed concrete deck and paving if asphalt exists. Repave asphalt approaches.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>			