

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B02142025-1	
Date: 2/6/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-305 - WESTERN BAY BROOK BRIDGE NO.2 - R			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	I - Inapplicable		
		Bearing Seat:	P3 - Poor		
Comments:	- Wingwalls have moderate to severe scaling throughout with delaminations, P3. - The west or upstream exterior abutment corners and bearing seat edges have severe spalls, P3. - Interior bearing seat edges in fair condition. - Abutment faces have moderate to severe erosion at the waterline. Upstream corner has a high potential for scour given river alignment. - Abutment faces generally in fair condition with no concerning defects.				
SUPERSTRUCTURE					
Condition:	P - Poor	Expansion Joints:	P - Poor		
Comments:	- Expansion gaps leaking and causing distress to elements below, P. - Northwest double tee disintegrated with ruptured pre-stressing cables, P. - Remaining double tees and the deck soffit have widespread low cover issues with reinforcement visible throughout, P3 to F1. - Joints between double tee pre-cast sections leaching rust and efflorescent material. Due to this, I can infer that the cast in place deck has cracking throughout, P1.				
DECK					
Condition:	P - Poor	Curbs:	P3 - Poor		
Hand Rail:	P - Poor	Roadway Condition:	P3 - Poor		
Approach Rail:	F1 - Fair				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - Approach rail not of type guiderail structures but otherwise in fair condition, F1. - One hazard marker missing. - End blocks have wide cracks throughout with local spalls and widespread delaminations. Original structure rail cast into end blocks. Corrosion of the rail has caused the above effects. - Steel structure has section loss so severe members have failed/disintegrated, P. - Asphalt has wide transverse cracks behind the ballast wall with local depressions from fill settlement, P3. - Curbs disintegrated over the southeast wingwall and around expansion gaps, P3.				
HYDROLOGY					
Water Velocity:	m/s	Ice Problem:	K - Known Problem		
Water Depth:	m	Scour Problem:	P - Possible Problem		
Waterway:	02 - InAdequate	Debris Problem:	N - No Problem		
Comments:	- Water impacting directly into southwest corner of the south footing, scour is suspected. Structure is misaligned to river and seems narrow for the flow rate.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:		Replacement Year:	2030		
Antic. Rehab. Cost:	\$N/A	Replacement Cost:	\$2,000,000		
Recommendations:	- Replacement year is an estimate only. - Consider replacing with a multi-plate.				
OBSERVATIONS					
Overall Condition:	P - Poor	Requires Further Inspection:	Yes		
Additional Observations:	- Poor due to mentioned double tee and structure rails. P3 remainder				

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2026.