

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B02182025-3	
Date: 2/12/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-329 - GREEN'S HARBOUR BRIDGE - R80			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	F1 - Fair		
		Bearing Seat:	F1 - Fair		
Comments:	- Both abutments and pier faces have light erosion & staining to waterline concrete, F1. - Strip bearing between deck and abutment checked across south abutment only due to deep water levels. Bearing in fair condition with no significant defects. - Bearing seat perimeter in fair condition with no significant defects, F1. - Water too deep to check for scour.				
SUPERSTRUCTURE					
Condition:	F1 - Fair	Expansion Joints:	P - Poor		
Comments:	- Construction joint over the pier has its rubber membrane exposed and is visibly leaking onto the pier below, P. The west fascia over the pier has a wide crack near the designed construction joint which likely forms a movement point for the bridge. Joint likely not performing as intended, P3. Note that this issue does not reflect to the east fascia. Remainder of fascia has hairline map cracks or possible plastic shrinkage cracks, F1. - Only possible to get under south span due to deep water on the north side. South span deck soffit in fair condition with no observed defects, F2. - Deck haunch/transition to pier bearing area on the south side has light cracking with light efflorescence, F1. - Deck insertion area into abutment keyway has a wide crack on the southeast corner, P3.				
DECK					
Condition:	F1 - Fair	Curbs:	P3 - Poor		
Hand Rail:	P3 - Poor	Roadway Condition:	P - Poor		
Approach Rail:	P3 - Poor				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. Visible areas of the exposed concrete deck have severe scaling with medium cracks and spalls around the center pier construction joint, F1 to P3. - Curb top covered in snow and not inspectable. - Large delamination/spall to the exterior curb on the southeast structure corner, P3. Remaining exterior vertical faces of the curbs have hairline damp vertical cracks, F1. - Structure rail post on the southeast corner not in sound concrete, P3. Structure railing F2 remainder. - Approach rail/guidrail has many posts with wide splits and with rotten cores and is not of type "Guidrail Structures", P3. - Asphalt missing in numerous locations exposing the concrete deck. Asphalt also has wide transverse cracks at the approach slab joints, P. - Waterproofing not visible in any of the exposed areas. - All hazard markers in place.				
HYDROLOGY					
Water Velocity:	Tidal m/s	Ice Problem:	P - Possible Problem		
Water Depth:	Tidal m	Scour Problem:	P - Possible Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- Area is tidal and subject to scour.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2028	Replacement Year:	2070		

Antic. Rehab. Cost:	\$450,000	Replacement Cost:	\$4,500,000
Recommendations:	- Remove asphalt/waterproofing and complete deck repairs, and seal deck crack over the pier and install asphaltic fiber-based expansion board? - Waterproof and repave. - Seal/caulk all exterior joints. - Repair concrete curbs. - Structure rail post on southeast corner must be removed and epoxied back into place after the concrete is repaired. - Inject keyway crack on southeast corner. - Replace approach rails.		
OBSERVATIONS			
Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Investigate potential expansion issues.		

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