GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B03122026-1

Date: 3/10/2026 **Inspected By:** T Upshall / M Button **Category:** Eng. - Engineering

BRIDGE INFORMATION

Site: 1-067 - PETER'S RIVER BRIDGE - R

SUBSTRUCTURE

Condition: P1 - Poor
Bearings: U - Uninspectable
Bearing Seat: P1 - Poor

Comments: - Assumed condition of buried concrete footings. - Unable to inspect bearings due to water/height restrictions. - Abutment faces inspected from corners only during this inspection. Water levels were very high. - Wingwalls have delaminations, spalls and areas of disintegration with hairline to narrow map cracks with light to moderate efflorescence throughout. A very wide crack has opened along the northeast wingwall to curb construction joint, exposing reinforcement with severe corrosion. Below the crack, is a large area of delamination with local disintegration exposing beach rock aggregates internally fractured concrete. Possible ASR reaction. - West abutment face has medium pattern cracking throughout. Bearing seat has an area of disintegration adjacent to the northwest exterior girder. Old repairs to bearing seat perimeter have dampness surrounding their perimeter with hairline pattern cracks. - East abutment main concrete face has varying width map cracks throughout with light efflorescence. Rehabilitated exterior southeast corner has various width cracks leaching light efflorescent material. Spalls dominate construction joint to original abutment concrete. The northeast exterior corner has very severe disintegration. Northeast upper corner of the ballast wall, below the expansion joint, has a wide crack. Concrete section likely to spall. - Both abutments have moderate erosion to waterline concrete. - All exterior creep blocks have wide cracks and on the northeast corner is also undermined from abutment corner disintegration. - Spalled concrete and lumber accumulating on bearing seat.

SUPERSTRUCTURE

Condition: P1 - Poor
Expansion Joints: P - Poor

Comments: - Inspection limited to abutment corners due to water depth. - Deck fascia and cantilever soffit has severe disintegration on the south side and especially towards the southwest corner, P1. Remaining areas have medium to wide cracks with severe efflorescent leachate and widespread delaminations, P3. - Deck soffit interior not visible. Bottom flange of various girders and in numerous locations along their length have efflorescent stalagmites built up atop of the slope portion of the bottom flanges. This is indicative of deck soffit leaking of water and efflorescent material, P3 to P1. - Girder bottoms have isolated spalls exposing reinforcement. North exterior girder towards the northeast corner has a spall the full width of the bottom flange and approximately 300mm long exposing reinforcement with severe corrosion. All visible girder ends from structure corners have wide cracks, delaminations, spalls and areas of disintegration within. P3 areas, but overall F1. - Carried forward from last inspection “Narrow vertical cracks in diaphragms. Narrow vertical/horizontal cracks in interior girder webs. Light spalling with exposed reinforcement on girder webs.” - Deck ends/ballast wall concrete spalling below joints accumulating significant material on the bearing seats. All joints assumed to be leaking, P.

DECK

Condition: P1 - Poor
Curbs: P3 - Poor
Hand Rail: F1 - Fair
Roadway Condition: P3 - Poor
Approach Rail: F2 - Fair

Comments: *Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. Deck actively leaching water and efflorescent material to elements below. - Structure rail is four rail aluminum system on posts. Joiner missing on the southeast corner. Rail/posts have no other notable defects, F1. - Guiderail not of type guiderail structures but is connected to end blocks. No defects of concern, F2. All hazard markers missing. - Narrow pattern cracking in end blocks. - Curbs have narrow longitudinal/transverse cracks, with delaminations, spalls and areas of disintegration, P3. Curb/deck construction joint actively leaching water. - Asphalt surface has

	medium pattern cracks throughout. Progressive edge cracking and isolated potholes adjacent to concrete end dams. Northwest corner near the end block has visible settlement.

HYDROLOGY

Water Velocity:	1 **m/s**	**Ice Problem:**	N - No Problem
Water Depth:	> 3 **m**	**Scour Problem:**	P - Possible Problem
Waterway:	01 - Adequate	**Debris Problem:**	N - No Problem
Comments:	- Deep tidal channel below structure.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:		**Replacement Year:**	
Antic. Rehab. Cost:	$	**Replacement Cost:**	$
Recommendations:	- Replace structure		

OBSERVATIONS

Overall Condition:	P1 - Poor	**Requires Further Inspection:**	No
Additional Observations:	- All concrete contains rounded beach rock aggregates. Possible ASR in all element concrete.		