

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B12122022-2	
Date: 10/20/2022	Inspected By: M Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	5-021 - WALSH RIVER BRIDGE		
Route:		Overall Length:	37.2 m
Year Built:	1971	Est: No	Overall Width: 11.1 m
Year Last Rehab.:		Est: No	Roadway Width: 9.5 m
Region:	LABRADOR	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.1 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	04 - Steel Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	36
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	F1 - Fair
		Bearing Seat:	F1 - Fair
Comments:	- Abutment faces in fair condition with some hairline cracks. Faces also covered in graffiti. Some small spalls at the abutment/wingwall control joints. - East abutment appears to have localized disintegration at the bearing seat edge. - Wingwalls in fair condition, light scaling and narrow map cracking in some locations. - Bearing seat exteriors covered in gravels but in fair condition. - West abutment bearings have splits and cracks with compression or bulging lines but are in fair condition. - East abutment bearings only visible on exteriors but appear undersized and maybe just a piece of rubber (not elastomeric).		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	P1 - Poor
Comments:	- Girders ends have hairline cracks. North exterior girder has 1 hairline crack with efflorescence near the east abutment. There also appears to be a longitudinal crack in the bottom flange near mid-span with efflorescence. - Deck soffit has isolated hairline cracks with efflorescence over the west abutment. Cracks causing adjacent areas		

of the deck soffit to become damp. Deck soffit otherwise in fair condition. - Note deck soffit and girders not inspectable on east side due to deep fast flowing water. - Southern deck fascia has light spalling on under barrier joints. - Expansion joint seals full of gravel and are visibly leaking onto the bearing seat below. Light spalling to concrete end dam edges, P3.

DECK

Condition:	F1 - Fair	Curbs:	F1 - Fair
Hand Rail:	P3 - Poor	Roadway Condition:	F1 - Fair
Approach Rail:	F1 - Fair		
Comments:	- Asphalt has pattern transverse cracking on approaches. Asphalt has small potholes near concrete end dams. - Curbs in fair condition overall, some localized damage around expansion joints armor plating. - Structure barrier leaking through joints and causing damage to southern fascia. Barrier joints disintegrating. Barrier rail has some damaged sections. Barrier post anchor bolts exposed in numerous locations, P3. - Guiderail has light denting on approaches. No end blocks. Hazard markers in place.		

HYDROLOGY

Water Velocity:	1 m/s	Ice Problem:	N - No Problem
Water Depth:	1 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- No comments.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2026	Replacement Year:	2050
Antic. Rehab. Cost:	\$200,000	Replacement Cost:	\$3,500,000
Recommendations:	- Replace structure concrete rail with steel. Install end blocks and upgrade guiderail at new connection. - Clean gravels on bearing seat corners. - Consider installing curtain walls on bearing seat at girder ends. - Repair concrete on east abutment and deck fascia. - Consider waterproofing structure. - Replace expansion joints.		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Bridge overall in fair condition with P3 areas. - Hazards - Traffic, leading edges near wingwalls and working around water.		

LEGEND:

Condition Definitions:

- 1 - *Good - [discontinued code].
- 2 - *Fair - [discontinued code].
- 3 - *Poor - [discontinued code].
- 4 - *Unsafe - [discontinued code].
- G - Good.

- F2 - Fair.
- F1 - Fair.
- P3 - Poor.
- P1 - Poor.
- P - Poor.

- C - Unsafe (Closed to Public).
- U - Uninspectable.
- I - Inapplicable.

Problem Definitions:

- N - No Problem.
- P - Possible Problem.
- K - Known Problem.
- NA - Not Applicable.

Category Definitions:

- Maint. - Maintenance.
- Eng. - Engineering.
- Office - Bridge Office.

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- Any item which inspector sees should be documented by photograph
- All items noted above as being P3, P1, P, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS