



	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B06212019-1	
Date: 6/21/2019	Inspected By: lyver C	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-363 - SPRINGFIELD RIVER BRIDGE, SOUTH RIVER		
Route:	70	Overall Length:	7 m
Year Built:	1966	Est: Yes	Overall Width: 9.1 m
Year Last Rehab.:		Est: No	Roadway Width: 7 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.3 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Max Depth of N.W.L.:	0.2 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	5.4
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	F1 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Assumed condition of buried or submerged reinforcement concrete abutment footings. Wide vertical cracks in center of North abutment. Medium wide vertical horizontal cracks with light efflor deposits in abutment and wingwall severe concrete spalling, disintegration to corner of North East wingwall at deck. Asphalt board bearing visible along north abutment only. Numerous vertical horizontal cracks. Medium spalling with light efflor deposits in upstream and downstream retaining walls.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	F1 - Fair
Comments:	No visible signs of expansion joints. Expansion joint gap visible at North East end.		
DECK			

Condition:	P3 - Poor	Curbs:	F2 - Fair
Hand Rail:	P3 - Poor	Roadway Condition:	F2 - Fair
Approach Rail:	P1 - Poor		
Comments:	Medium light rutting with some patched potholes on deck and approaches. No hazard marker at South East end. Medium severe spalling/disintegration to deck facials especially at North East end. Guiderail(on steel posts) handrail upstream struck and tipped out. Medium spalling with wide horizontal cracks. Medium rusting to exposed reinforcement of downstream handrail.		

HYDROLOGY

Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem
Water Depth:	0.2 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	P - Possible Problem
Comments:			

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2020	Replacement Year:	2035
Antic. Rehab. Cost:	\$40	Replacement Cost:	\$400
Recommendations:	Repair all concrete defects. Replace downstream handrail and upstream guide handrail. Install approach and exit guide rail where possible.		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	unchanged from 2009 inspection. Some debris collecting under structure.		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- Any item which inspector feels should be documented by photograph
- All items noted above as being F3, P4, P, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS