

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09092021-2	
Date: 3/13/2020	Inspected By: Chris Lyver	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-093 - BALDWIN'S RIVER BRIDGE, SE PLACENTIA		
Route:	91	Overall Length:	15.3 m
Year Built:	1964	Est: No	Overall Width: 8.6 m
Year Last Rehab.:		Est: No	Roadway Width: 8 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.3 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.2 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Max Depth of N.W.L.:	0.3 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	7
Alignment Vertical:	02 - Adequate	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	F1 - Fair
		Bearing Seat:	F1 - Fair
Comments:	- Medium erosion along faces of both abut. footings. - Medium horizontal/vertical cracks with med. efflor. deposits in 4 wings. - Medium/wide vert./horizontal cracks in face in both footings. - Severe spalling/disintegration to D/S ends of both abutments - Medium vert cracks in face of east abut. med scour under footings - Wide vertical crack in face of west abut.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	P3 - Poor
Comments:	- No visible signs of expansion joints. - Wide vert./horiz. cracks with medium efflor. deposits in 2 exterior beams.		
DECK			
Condition:	F1 - Fair	Curbs:	F1 - Fair

Hand Rail:	P - Poor	Roadway Condition:	F1 - Fair
Approach Rail:	F1 - Fair		
Comments:	- Handrail - P (D/S, F2 (U/S). - Severe damage remains to D/S steel tube/guiderail posts. (top steel tube rail not attached to tipped and sheared off posts, held on with steel chain) - Medium damage to NW exit guiderail. - Light delamin./spalling to deck/curb fascia. - Several areas of medium delamin./spalling with medium rusting to exposed reinf. on deck soffit. - Haz. marker at NW end damaged		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	0.3 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	P - Possible Problem
Comments:	- Structure of rip-rap remains in fair cond.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2020	Replacement Year:	2030
Antic. Rehab. Cost:	\$75	Replacement Cost:	\$900
Recommendations:	- Repair all concrete defects - Repair D/S handrails ASAP - Resurface deck and approaches. Repair/replace NW exit guiderail - Install new hazard markers at NW and SW ends		

OBSERVATIONS

Overall Condition:	P - Poor	Requires Further Inspection:	No
Additional Observations:	P - surface and D/S handrail F1 - remainder unchanged from previous inspections		

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 P3, P1, P, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS