

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B07232018-8	
Date: 5/7/2018	Inspected By: Chris Lyver	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-118 - OUTER COVE BRIDGE		
Route:	30	Overall Length:	74 m
Year Built:	1975	Est: Yes	Overall Width: 10.5 m
Year Last Rehab.:		Est: No	Roadway Width: 7.7 m
Region:	AVALON PENINSULA		Sidewalk Width: 0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	7 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0.3 m
Purpose of Structure:	04 - Over Non-Navigable Waters		
Type of Handrail:	01 - Aluminum Rail		
Roadway Surface:	02 - Asphalt	Spans:	
Alignment Vertical:	01 - Good	<u>Span No.:</u>	<u>Length</u>
Alignment Horizontal:	02 - Adequate	<u>Span No.:</u>	<u>Length</u>
Restrictions:	No	1	16.7
		2	16.4
		3	16.2
		4	15.7
		5	0
		6	0
BRIDGE PHOTOS			
SUBSTRUCTURE			
Condition:	G - Good	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- Assumed condition of buried reinf. conc. frame leg footings. - South frame leg footing on river structure doweled into bedrock. - Remaining frame leg footings perched on structural rock fill. - Numerous areas of medium vert./angular cracks with medium sized delamin. in MSE wall panels. Some panels have been repaired only to find cracks and delamin. re-occurring adjacent to repair.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	I - Inapplicable
Comments:	- Hairline alligator cracking in exterior faces of frame legs. - Hairline alligator cracks in end blocks. Minor impact damage to top of NE end block. - Graffiti covering lower sections of frame legs. - Sections of MSE walls and along backs of curbs/ end blocks and barrier walls.		
DECK			
Condition:	G - Good	Curbs:	F2 - Fair
Hand Rail:	P1 - Poor	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	- Handrail: P1 (east posts), G (remainder). - No hazard marker at NE end. - Medium undermining at bottom end of NE rock embedded gutter. - Old retaining wall has shifted moving gabion basket at end of gutter causing undermining. - Narrow vert. cracks in barrier walls with light efflor. deposits. - Severe/ medium damage to 4 aluminum rail posts along east side of structure (snow plow). Rails remain intact with only medium scrapes. - Narrow long. cracks in deck soffits. Medium trans. cracks in asphalt between structures. - Minor damage to NE		

exit guiderail. Medium damage to NW buried end approach guiderail. - Small potholes in asphalt on decks. - Medium abrasion to top and fascia of west side sidewalk curb.

HYDROLOGY

Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem
Water Depth:	0.3 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Hydrology not applicable to beach structure.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2047	Replacement Year:	2085
Antic. Rehab. Cost:	\$200	Replacement Cost:	\$3000
Recommendations:	- Replace all damaged alum. rail posts. Replace damaged guiderail. - Install missing hazard marker. - Repair delaminating MSE wall panels. Paint over graffiti on various areas of both structures. - Install new gabion basket at end of NE rock embedded gutter. - Monitor delamination, spalling and cracking in MSE wall panels.		

OBSERVATIONS

Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	- P1 (east alum. handrail), F2 (remainder). - Unchanged from 2011 and 2015 inspections except add manhole at top of beach access road accepting water from north and south sides of lower road and C.B. plip at NW corner of structure. Water piped from manhole, under existing berm to river. - New stop sign/ road sign on steel post at NW corner of structure.		

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 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