

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B11192021-3	
Date: 10/22/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	1-162 - CATARACTS RIVER BRIDGE (ELLIS MEMRL)		
Route:	91	Overall Length:	31.5 m
Year Built:	1926	Est: No	Overall Width: 5.4 m
Year Last Rehab.:	1980	Est: No	Roadway Width: 4.7 m
Region:	AVALON PENINSULA		Sidewalk Width: 0.35 m
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.: 15.5 m
Type of Structure:	13 - Other		Max Depth of N.W.L.: 0.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:
Type of Handrail:	01 - Aluminum Rail		<u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u>
Roadway Surface:	01 - Concrete		1 27.3 4 0
Alignment Vertical:	02 - Adequate		2 0 5 0
Alignment Horizontal:	01 - Good		3 0 6 0
Restrictions:	Yes		
Describe Restrictions:	1lane traffic and weight restriction of 15 tonnes.		
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- Arch and supporting columns poured onto bedrock. Only access was on the northeast corner below structure and inspection was limited due to extreme hazards. Connections to bedrock look to be in fair condition from a distance.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	F1 - Fair
Comments:	- Only access was on the northeast corner below structure and inspection was limited due to extreme hazards. Main arch and columns appear in fair condition with light cracking.		
DECK			
Condition:	F1 - Fair	Curbs:	F1 - Fair

Hand Rail:	F1 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	P1 - Poor		
Comments:	- Moderate gravel accumulation and vegetation growth against structure curb causing ponding water atop the concrete deck. - No guiderail northeast corner, 1 Jersey barrier on the northwest corner, guiderail on southeast corner old with broken posts and rails missing bolts. 2 jersey barriers on the northeast corner. Structure overgrown with trees on approaches. - Several potholes on both approaches, F1. - Some handrail posts twisted and disconnected from the top rail. Otherwise handrail in fair condition. Deck concrete in fair condition with mild wear. Hazard marker missing on the northeast end block.		

HYDROLOGY

Water Velocity:	n/a m/s	Ice Problem:	NA - Not Applicable
Water Depth:	n/a m	Scour Problem:	NA - Not Applicable
Waterway:	03 - Not Applicable	Debris Problem:	NA - Not Applicable
Comments:	- Structure over a deep gorge and in contact with water.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2022	Replacement Year:	T.B.D.
Antic. Rehab. Cost:	\$15,000	Replacement Cost:	\$0
Recommendations:	- Install guiderail on approaches complete with regulation hazard markers. - Remove gravel from structure to allow drainage and clean out the expansion joints.		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Structure over a deep gorge. Detailed inspection limited to the deck. Hazards, very steep slippery cliffs around structure. Stay well back of leading edges.		

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, P1, P2, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS