

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B06112021-1	
Date: 6/11/2021	Inspected By: Alex Ford	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	2-121 - CULL'S HARBOUR BAILEY BRIDGE		
Route:	310-13	Overall Length:	102 m
Year Built:	1990	Est: No	Overall Width: 5 m
Year Last Rehab.:	2007	Est: No	Roadway Width: 3.3 m
Region:	CENTRAL EAST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	4.5 m
Type of Structure:	09 - Bailey Bridge	Max Depth of N.W.L.:	4 m
Purpose of Structure:	03 - Over Navigable Waters	Spans:	
Type of Handrail:	06 - None	Span No.:	Length
Roadway Surface:	03 - Timber	1	50.3
Alignment Vertical:	01 - Good	2	50.3
Alignment Horizontal:	01 - Good	3	0
Restrictions:	Yes	4	0
Describe Restrictions:	Loads restricted to 5t starting 31 May 2021 until further notice.		
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Concrete abutments each end - some cracking. Steel centre pier surface rusting all components above water with areas of scaling and flaking, especially in the tidal zone; below water uninspectable. Sliding bearing for panel bridge abutment one some deterioration of the grout pads, sliding bearings @ centre pier good condition, fixed bearing for panel bridge abutment two some deterioration of the grout pad.		
SUPERSTRUCTURE			
Condition:	P - Poor	Expansion Joints:	I - Inapplicable
Comments:	Significant rusting of the stringer sets throughout bridge - some sets have failed. 85 out of 132 sets should be replaced. Upper sway brace in every bay is severely rusted and requires replacement. Vertical bracing bolts severely rusted and requires replacement. Transoms and panels in fair to good condition.		
DECK			

Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	P3 - Poor		
Comments:	Deck chesses mostly fair condition, some need replacement due to weakened stringers. Raceway in poor shape, constant maintenance issue, requires replacement. Guide rail at all corners poor condition.		

HYDROLOGY

Water Velocity:	Tidal m/s	Ice Problem:	N - No Problem
Water Depth:	Varies m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Tidal zone - known for high velocity during changes.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2021	Replacement Year:	2021
Antic. Rehab. Cost:	\$200000	Replacement Cost:	\$0
Recommendations:	Reduce loading until repairs are made. Tender 47-21PSE to address issues.		

OBSERVATIONS

Overall Condition:	P - Poor	Requires Further Inspection:	No
Additional Observations:	Update inspection after repairs completed.		

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

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.