

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		<b>BRIDGE INSPECTION REPORT</b> <b>B07032024-3</b>	
Date: 7/2/2024		Inspected By: D. Burns/J. Rowe		Category: Eng. - Engineering	
<b>BRIDGE INFORMATION</b>					
Site:		2-121 - CULL'S HARBOUR BAILEY BRIDGE - R310-13			
<b>SUBSTRUCTURE</b>					
Condition:	F1 - Fair	Bearings:	P3 - Poor		
		Bearing Seat:	P3 - Poor		
Comments:	Sloped sand abutments with structural posts and boards for retainment purposes. Bearing pads are disintegrated and heavily rusted as well as the bearings themselves are rusted. Anchor bolts are also rusted.				
<b>SUPERSTRUCTURE</b>					
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable		
Comments:	90 out of 132 stringer sets were replaced in 2021 with stock components - anticipate max 20 years of life in the bridge before replacement. Stringers can not be inspected properly without removing deck sections. Some damage and denting of various panels throughout the structure. Rusting throughout the structure, but worse in places of bolts, suspectedly a chemical reaction happening between the components. Noticeable wave throughout the bridge. Pins were inspected for rings, some rusted and none visibly missing.				
<b>DECK</b>					
Condition:	F1 - Fair	Curbs:	I - Inapplicable		
Hand Rail:	I - Inapplicable	Roadway Condition:	F2 - Fair		
Approach Rail:	P1 - Poor				
Comments:	Bridge was re-decked in 2021, approaches paved and the plate over the gap between backwall and bridge was redesigned for better transition. Hazard marker missing approach #2 right. Approach rail bent and curved, meanwhile rail posts are rotten and deteriorating.				
<b>HYDROLOGY</b>					
Water Velocity:	Varies 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 hydrology.				
<b>REPLACEMENT/REHABILITATION</b>					
Next Rehab. Date:	2031	Replacement Year:	2040		
Antic. Rehab. Cost:	\$250000	Replacement Cost:	\$3000000		
Recommendations:	Rehab/replace wood deck and some panels. repair bearings and bearing seats. repair wire mesh and concrete repairs within ten years. replace structure in the twenty year range.				
<b>OBSERVATIONS</b>					
Overall Condition:	F1 - Fair	Requires Further Inspection:	No		
Additional Observations:	Load restriction 25t. signs and narrow bridge signs in place. Blue marking can be observed on various features of concern throughout the structure and appears to be fairly fresh.				