



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR  
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT**  
**B05292020-3**

Date: 5/29/2020

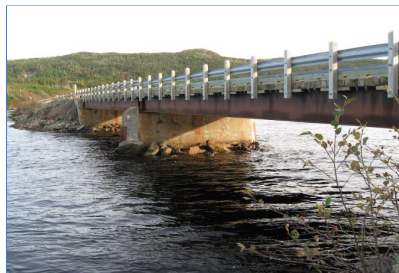
Inspected By: Alex Ford

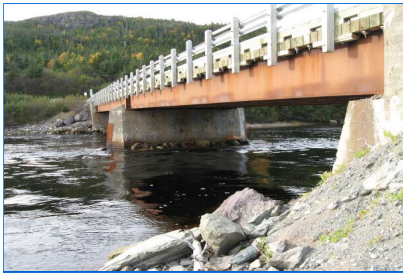
Category: Eng. - Engineering

**BRIDGE INFORMATION**

<b>Site:</b>	2-021 - BAY D'LEAU BROOK BRIDGE		
<b>Route:</b>	215	<b>Overall Length:</b>	59 m
<b>Year Built:</b>	1990	<b>Est:</b> No	<b>Overall Width:</b> 9 m
<b>Year Last Rehab.:</b>	2007	<b>Est:</b> No	<b>Roadway Width:</b> 7.3 m
<b>Region:</b>	CENTRAL EAST	<b>Sidewalk Width:</b>	0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	3 m
<b>Type of Structure:</b>	08 - Steel Bridge	<b>Max Depth of N.W.L.:</b>	1.5 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	06 - None	<b>Span No.:</b>	<b>Length</b>
<b>Roadway Surface:</b>	03 - Timber	1	23
<b>Alignment Vertical:</b>	01 - Good	2	23
<b>Alignment Horizontal:</b>	02 - Adequate	3	0
<b>Restrictions:</b>	No	<b>Span No.:</b>	<b>Length</b>
		4	0
		5	0
		6	0

**BRIDGE PHOTOS**







**SUBSTRUCTURE**

<b>Condition:</b>	P3 - Poor	<b>Bearings:</b>	P3 - Poor
		<b>Bearing Seat:</b>	P3 - Poor
<b>Comments:</b>	Concrete abutments, pier and wingwalls. Moderate to severe cracking with efflorescence all components, disintegration with exposed rebar. Bearing are severely rusted and have some delamination of the steel. Bearing seat is cracking and covered with debris. Right side of Pier 1 is missing all protective armour stone. The steel ice protection is also rusted and broken along the bottom.		

**SUPERSTRUCTURE**

<b>Condition:</b>	P1 - Poor	<b>Expansion Joints:</b>	I - Inapplicable
<b>Comments:</b>	5 WWF 1100 x 220 steel beams with steel bracing. Light to moderate rusting girders 1 and 5 both spans, some section loss up to 10%. Girders 2,3 and 4 severely rusted with section loss up to 40%. Severe rusting of all bracing with some significant section loss.		

**DECK**

<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	P1 - Poor	<b>Roadway Condition:</b>	F2 - Fair
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	200mm x 200mm timber deck with 50mm timber wearing surface. Some splits, wear and rot in wearing surface, end are plow damaged. Flex beam bridge rail with 38mm x 89mm top hand rail, top rail mostly missing - flex beam squat in left side. Approach rail abutment one left side has some lean. Abutment 2 left and right hazard markers missing.		

**HYDROLOGY**

<b>Water Velocity:</b>	Varies m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	Varies m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Tidal. Causeway approaches. No scour issues.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>		<b>Replacement Year:</b>	2021
	\$0		\$0

<b>Antic. Rehab. Cost:</b>	<b>Replacement Cost:</b>			
<b>Recommendations:</b> Section loss of girders too great for rehab, concrete in very poor condition. Replace with panel bridge.				
<b>OBSERVATIONS</b>				
<b>Overall Condition:</b> P1 - Poor	<b>Requires Further Inspection:</b> No			
<b>Additional Observations:</b> Abutments and pier constructed in 1965, superstructure replaced in 1990, deck replaced 2007.				
<b>LEGEND:</b>				
<b>Condition Definitions:</b>				
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	<b>Problem Definitions:</b>	<b>Category Definitions:</b>
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	N - No Problem.	Maint. - Maintenance.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	P - Possible Problem.	Eng. - Engineering.
4 - *Unsafe - [discontinued code].	P1 - Poor.		K - Known Problem.	Office - Bridge Office.
G - Good.	P - Poor.		NA - Not Applicable.	
<b>PHOTO GUIDELINES:</b>				
<b>Inspection Photos:</b>				
Please provide photos using guidelines below:				
<ul style="list-style-type: none"> <li>● Any item which inspector feels should be documented by photograph</li> <li>● All items noted above as being P3, P1, P, or C</li> <li>● Any evidence of known ice, scour, debris, waterway problems</li> </ul>				
<b>INSPECTION PHOTOS</b>				

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