

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08242022-1	
Date: 7/27/2022	Inspected By: M Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	4-006 - TROUT HOLE BRIDGE		
Route:		Overall Length:	10.4 m
Year Built:	1962	Est: No	Overall Width: 8.2 m
Year Last Rehab.:		Est: No	Roadway Width: 7 m
Region:	WEST COAST/NORTHERN		Sidewalk Width: 0 m
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.: 1.5 m
Type of Structure:	02 - Double Tee		Max Depth of N.W.L.: 1 m
Purpose of Structure:	03 - Over Navigable Waters		Spans:
Type of Handrail:	02 - Concrete Rail		
Roadway Surface:	02 - Asphalt		
Alignment Vertical:	01 - Good		
Alignment Horizontal:	02 - Adequate		
Restrictions:	No		
BRIDGE PHOTOS			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	U - Uninspectable
		Bearing Seat:	U - Uninspectable
Comments:	- Both abutments have very severe erosion around the waterline with all aggregates exposed. One abutment corner has severe disintegration near the double tee elevation. Abutment face has very severe rust staining and efflorescent deposits leaching along the bearing seat. - Wingwalls generally in fair condition, some efflorescent leachate through curb/top of wingwall construction joint. - No visible bearings or bearing seat.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	P1 - Poor
Comments:	- Double tees have numerous longitudinal cracks likely caused from corrosion to the pre-stressing cables. Double tee near the center line of the bridge has a large spall, P3. - Deck soffit uninspectable due to deep water. No efflorescent materials built up on double tees. - No expansion joints. Expansion gaps allowing corrosion path behind double tees.		
DECK			
Condition:	P3 - Poor	Curbs:	F1 - Fair
Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor
Approach Rail:	P3 - Poor		
Comments:	- Asphalt on approaches in fair condition. Wide cracks at the entrance to the structure and along the structure centerline, P3. - Curbs mostly covered in gravels but appear in fair condition. Exteriors in fair condition. - Structure rail in fair condition. - Guiderail in poor condition due to extreme weathering/splitting, connected to end blocks, does not have regulation post spacing and is missing all hazard markers. End blocks have isolated spalls likely		

from snow plough damage.

HYDROLOGY

Water Velocity:	Tidal m/s	Ice Problem:	N - No Problem
Water Depth:	Tidal m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Structure is tidal.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	2026
Antic. Rehab. Cost:	\$	Replacement Cost:	\$1,000,000
Recommendations:	- Recommend to replace the structure within 3-5 years. Replace with Arch culvert.		

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- Bridge deck and double tees P3 to P1. Replace the bridge.		

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 F3, P4, P1, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS