

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B07022021-2	
Date: 1/29/2020	Inspected By: Gillis M	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-279 - TORS COVE BRIDGE (PENSTOCK)		
Route:		Overall Length:	14.7 m
Year Built:	1966	Est: Yes	Overall Width: 10.6 m
Year Last Rehab.:	1975	Est: Yes	Roadway Width: 8.7 m
Region:	AVALON PENINSULA		Sidewalk Width: 0 m
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.: 0 m
Type of Structure:	04 - Rigid Frame		Max Depth of N.W.L.: 0 m
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:
Type of Handrail:	02 - Concrete Rail		<u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u>
Roadway Surface:	02 - Asphalt		1 4.9 4 0
Alignment Vertical:	01 - Good		2 0 5 0
Alignment Horizontal:	01 - Good		3 0 6 0
Restrictions:	No		
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	I - Inapplicable	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	Original structure extended downstream (east side). No footings on original structure. Abutment poured on high bedrock. Extension abutments poured on low bedrock. Penstock is close to abutments, limited abutments. Scour area on North abutment.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable
Comments:	Medium vertical cracks with light efflor. deposits in faces of abutment and wingwalls. Some heavy efflor. deposits to west abutment corners.		
DECK			
Condition:	F1 - Fair	Curbs:	P3 - Poor

Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor
Approach Rail:	F2 - Fair		
Comments:	Numerous narrow transverse cracks with light efflor deposits in deck soffit. No hazard markers on NE/SE end of concrete handrail. Medium delamination/spalling to outside deck edge/soffit/fascia on west end. Wide cracks and medium spalling to handrail and posts. Medium delamination/spalling with medium corrosion to exposed reinforcement to top of curb at SW end. Some minor dents to guiderail, 1 cracked post on west side.		

HYDROLOGY

Water Velocity:	0 m/s	Ice Problem:	NA - Not Applicable
Water Depth:	0 m	Scour Problem:	NA - Not Applicable
Waterway:	03 - Not Applicable	Debris Problem:	NA - Not Applicable
Comments:			

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2020	Replacement Year:	2026
Antic. Rehab. Cost:	\$30000	Replacement Cost:	\$450000
Recommendations:	repair concrete defects. Install hazard markers on east sides of structure. Fix guide post and install guiderail reflectors.		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	Unchanged from 2018 inspection		

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