

GOVERNMENT OF **NEWFOUNDLAND** AND LABRADOR Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT B09232021-3

Date: 1/28/2020 Inspected By: Hunt R Category: Eng. - Engineering

BRIDGE INFORMATION

Site: 1-029 - BAY BULLS RIVER BRIDGE

10 Route:

1965 Year Built: Est: No Year Last Rehab.: 2000 Est: No

Region: **AVALON PENINSULA**

Jurisdiction: Provincial

Type of Structure: 03 - Reinforced Concrete Beam/Slab

01 - Good

Purpose of Structure: 04 - Over Non-Navigable Waters

01 - Aluminum Rail Type of Handrail: 02 - Asphalt Roadway Surface:

Alignment Vertical: 02 - Adequate Alignment Horizontal:

No

19.7 m **Overall Length:**

Overall Width: 9 m Roadway Width: 6.3 m

Sidewalk Width: 0.95 m

5 **m**

Clearance to R.D. or

N.W.L.:

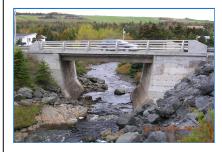
Max Depth of N.W.L.: 0.3 m

Spans:

Span No.: Length Span No.: Length 1 10 4 2 0 5 0 3 0 6 0

Restrictions:

BRIDGE PHOTOS





SUBSTRUCTURE

F1 - Fair F1 - Fair Condition: Bearings:

> F1 - Fair **Bearing Seat:**

- Light scour under ends of footings. - Medium/ severe spalling to ends and center of footings. - Medium spalling Comments:

> to NW end/ center of north footing. - Narrow vert./ horiz. cracks and light spalling with efflor. deposits to abutment faces. - Wide alligator cracks at top of north abutment (NE end) on original section. - Narrow horiz./ vert. cracks

and light spalling to four wingwalls. - No visible signs of bearings. Bearing seats in fair condition.

SUPERSTRUCTURE

F1 - Fair Condition: F2 - Fair **Expansion Joints:**

- Narrow horiz. cracks in 3 deck beams. - Light spall with medium corrosion to exposed reinf. to bottom of U/S Comments:

exterior beam. - No visible signs of exp. joints (paved over on deck).

DECK

Condition: F1 - Fair F1 - Fair Curbs: Hand Rail: F1 - Fair **Roadway Condition:** F1 - Fair Approach Rail: F1 - Fair - Narrow long, cracks, flow lines with light efflor, deposits to deck sofit. - No hazard markers at SE/SW ends. -Comments: Medium/ wide trans. cracks in cantilevered deck soffit. - Narrow vert. cracks with some concrete deterioration in in ext. curb fascia. - Medium scaling to U/S curb surface and ext. fascia. - Light scaling/ delamin./ spalling to tops and sides of end blocks. - Unable to see slopes and shoulder due to snow build up **HYDROLOGY** Water Velocity: 0.8 m/s Ice Problem: NA - Not Applicable Water Depth: 0.6 m Scour Problem: NA - Not Applicable Waterway: 01 - Adequate **Debris Problem:** NA - Not Applicable - Some damage to approach and exit guiderail. - Unable to see slopes and shoulder due to snow build up, Comments: assumed same as last inspection REPLACEMENT/REHABILITATION 2022 2021 Next Rehab. Date: Replacement Year: Antic. Rehab. Cost: \$40 **Replacement Cost:** \$0 - Install missing hazard markers (maint). - Repair damaged guiderail (maint). - Correct all concrete defects. -Recommendations: Correct all slope/ erosion problems. - Install extra rip-rap at structure corners. **OBSERVATIONS**

F1 - Fair Requires Further No **Overall Condition:**

Inspection:

Additional Observations: Unchanged from 2018 inspection

LEGEND:

Condition Definitions:

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:

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| Any tiem writen inspector reers snource a occumented by photograph
| All tems noted above as being P3, P1, P1, or C
| Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS

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