

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09142021-12	
Date: 2/20/2020	Inspected By: Gillis M	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-046 - HOLYROOD POND BRIDGE		
Route:		Overall Length:	114.2 m
Year Built:	1995	Est: No	Overall Width: 10.7 m
Year Last Rehab.:		Est: No	Roadway Width: 8.5 m
Region:	AVALON PENINSULA	Sidewalk Width:	1.5 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0 m
Purpose of Structure:	03 - Over Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	34
Alignment Horizontal:	01 - Good	2	37
Restrictions:	No	3	34
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	G - Good
Comments:	- Assumed condition of partially buried abutment footings and paved app. slabs. Med alligator cracks in pier caps - Narrow vertical cracks in faces of abutments and ballast walls. - Medium/ severe rusting continues to concrete filled steel tube pier piles. - Hairline map/ alligator cracks in face of SE abutment and face of SW wingwall - Light bulging in bearing pads. Pier caps/ bearing pads remain inaccessible. - Grout in tie-rod holes in wingwalls popping out in some locations.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	- Light abrasion and snow clearing damage to end blocks. - Narrow angular cracks in webs at ends of all girders. - Narrow long. cracks in exp. joint dams.		
DECK			

Condition:	G - Good	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F1 - Fair		
Comments:	- Asphalt/ shoulder/ slope erosion at NE and SE ends of structure - Light erosion under top of SW rock embedded gutter. - Some deck drains partially blocked. - Medium/ severe rusting to left in place light gauge steel Q-deck soffit formwork. - Guiderail and posts aging with minor damage and decay. - Light scrapes, dents and end caps missing on alum. handrails. - Severe slope erosion at end of NW rock embedded gutter (gabion shifted and migrating down slope).		

HYDROLOGY

Water Velocity:	tidal, gut closed m/s	Ice Problem:	N - No Problem
Water Depth:	2.0 when gut is open m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Type II and III hyd. rip-rap at 4 corners and along faces of abut./footings in fairly good cond.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2027	Replacement Year:	2050
Antic. Rehab. Cost:	\$50	Replacement Cost:	\$2500
Recommendations:	- Clean exp. joint seals, clean out deck drains - Install hazard markers - Repair/replace damaged guiderail - Repair shoulder/slope erosion. Replace NW gabion		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Mostly 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