

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B07202021-5	
Date: 7/8/2021	Inspected By: McCaw J	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	TCH-052 - BIRCHY LAKE BRIDGE		
Route:	1	Overall Length:	82.6 m
Year Built:	1965	Est: No	Overall Width: 9.8 m
Year Last Rehab.:	2004	Est: No	Roadway Width: 8.2 m
Region:	CENTRAL WEST	Sidewalk Width:	0.8 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	7.7 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:	01 - Concrete	1	21.9
Alignment Vertical:	01 - Good	2	30.4
Alignment Horizontal:	01 - Good	3	21.8
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F1 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Hairline cracks and efflor on concrete faces. Two bearings appear to be starting to fail.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	Joints are leaking. Minor spalling/cracking on girder.		
DECK			
Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	P1 - Poor	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	Damage to sections of handrail. Rail tied back on damage to approach rail. One pothole seen on surface of road.		
HYDROLOGY			
Water Velocity:	0.1 m/s	Ice Problem:	N - No Problem
Water Depth:	1.8 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			

REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2035	Replacement Year:	2060
Antic. Rehab. Cost:	\$200000	Replacement Cost:	\$8000000
Recommendations:	Replace joints in bridge. Install steel handrail.		
OBSERVATIONS			
Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Unable to inspect top of bridge very well due to heavy traffic. Did not get to west abutment due to traffic Parking off to side of highway on east side. hazards: traffic, water, slipping		
LEGEND:			
Condition Definitions:		Problem Definitions:	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		
Category Definitions:			
			Maint. - Maintenance.
			Eng. - Engineering.
			Office - Bridge Office.
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● Any item which inspector feels should be documented by photograph ● All items noted above as being F3, P1, P, or C ● Any evidence of known ice, scour, debris, waterway problems 			
INSPECTION PHOTOS			

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