

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B01192021-16																	
Date: 5/19/2020	Inspected By: Terrance Coates	Category: Eng. - Engineering																	
BRIDGE INFORMATION																			
Site:	TCH-060 - DEER LAKE TAILRACE BRIDGE (HINTON)																		
Route:		Overall Length:	108.1 m																
Year Built:	1955	Est: No	Overall Width: 9.9 m																
Year Last Rehab.:	1987	Est: No	Roadway Width: 7.3 m																
Region:	WEST COAST/NORTHERN		Sidewalk Width: 1.26 m																
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.: 5 m																
Type of Structure:	01 - AASH to Girder		Max Depth of N.W.L.: 4 m																
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:																
Type of Handrail:	01 - Aluminum Rail		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Span No.:</u></th> <th style="text-align: left;"><u>Length</u></th> <th style="text-align: left;"><u>Span No.:</u></th> <th style="text-align: left;"><u>Length</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>31.43</td> <td>4</td> <td>0</td> </tr> <tr> <td>2</td> <td>31.58</td> <td>5</td> <td>0</td> </tr> <tr> <td>3</td> <td>31.52</td> <td>6</td> <td>0</td> </tr> </tbody> </table>	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>	1	31.43	4	0	2	31.58	5	0	3	31.52	6	0
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1	31.43	4	0																
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Roadway Surface:	02 - Asphalt																		
Alignment Vertical:	01 - Good																		
Alignment Horizontal:	01 - Good																		
Restrictions:	No																		
BRIDGE PHOTOS																			
																			
SUBSTRUCTURE																			
Condition:	F2 - Fair	Bearings:	F2 - Fair																
		Bearing Seat:	F2 - Fair																
Comments:	Moderate to severe cracking and deterioration in abutments, piers, and wing walls.																		
SUPERSTRUCTURE																			
Condition:	F2 - Fair	Expansion Joints:	P3 - Poor																
Comments:	Deterioration of deck fascia and soffit. Expansion joints deteriorating. 2 expansion joints are damaged and the seal is broke causing leaking onto the abutments. Diaphragms are deteriorating with exposed rebar. Spalling on bottom of center girder and the side of the upstream girder.																		
DECK																			
Condition:	F2 - Fair	Curbs:	F2 - Fair																

Hand Rail:	G - Good	Roadway Condition:	F2 - Fair
Approach Rail:	G - Good		
Comments:	Potholes in concrete deck that have been patched with a Set-45 product. Requires proper remediation. Deterioration of curb. Deck drains in poor conditions, downspouts rusting and corroded. Potholes in asphalt surface.		

HYDROLOGY

Water Velocity:	0 m/s	Ice Problem:	P - Possible Problem
Water Depth:	0 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	P - Possible Problem
Comments:			

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2021	Replacement Year:	2021
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Scheduled for replacement. Remove winter sand build-up along curbs. Resurface curbs in deteriorated areas. Strip asphalt and repair deck deterioration. Replace expansion joints. Install 3 missing hazard markers. Latex concrete repairs to abutments, piers and girders.		

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:			

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