

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09052023-3
Date: 8/28/2023	Inspected By: Darrell Avery	Category: Eng. - Engineering
BRIDGE INFORMATION		
Site: 2-163 - CHAPEL ARM BRIDGE NO.2 - R201-10		
SUBSTRUCTURE		
Condition:	P1 - Poor	Bearings: I - Inapplicable
		Bearing Seat: I - Inapplicable
Comments:	Previous inspection - North frame leg exterior faces have severe disintegration, large (>300mm aggregated exposed). Northeast corner has severe disintegration and a void extending back to sloped earth fill materials, P3. - South frame leg exterior faces in fair condition. Half the southwest wingwall (no rebar) has cracked off and is in the river below. Surrounding soils left unprotected, P3. - East frame leg face (under structure) has medium cracking throughout. Northeast section of frame leg as severe effloresce leaking from the slab/top of wall joint and building up on the face, P1. - West frame leg face (under structure) has medium horizontal cracking across the bottom 1m with medium efflorescence. Northwest section has severe effloresce leaking from the slab/top of wall joint and building up on the face, P1. New inspection - Abut. #2 - left frame corner has large void in concrete as noted previous..	
SUPERSTRUCTURE		
Condition:	P3 - Poor	Expansion Joints: I - Inapplicable
Comments:	Previous inspection - Both fascia's in fair condition. - Bottom of deck is heavily cracked with severe efflorescence on the north half of the structure (P3), map cracking covers the south half (P3). Bottom of deck on the north side also has a medium sized spall to extremely corroded reinforcing steel, P3. New inspection - Near abut. #2 left side the section thick spalling at U/S deck with exposed deteriorated rebar - also noted previous.	
DECK		
Condition:	P3 - Poor	Curbs: I - Inapplicable
Hand Rail:	P1 - Poor	Roadway Condition: F1 - Fair
Approach Rail:	I - Inapplicable	
Comments:	Previous inspection - Asphalt in fair condition. - No approach/exit rail due to surrounding properties/homes. Hazard markers mostly missing. No end blocks. - South handrail in poor condition and too low, P3. South roadway edge to south handrail grown over with grass. - North structure guiderail in fair condition, some posts are getting old/worn, F1. - Deck concrete cracked and leaking below, P3. New inspection - Abut. #1 left - void in shoulder. Left object markers in place.	
HYDROLOGY		
Water Velocity:	0.3 m/s	Ice Problem: N - No Problem
Water Depth:	0.3 m	Scour Problem: N - No Problem
Waterway:	01 - Adequate	Debris Problem: N - No Problem
Comments:	Previous inspection - Erosion of roadway gravels on both north corners of the structure.	
REPLACEMENT/REHABILITATION		
Next Rehab. Date:		Replacement Year: 2024
Antic. Rehab. Cost:	\$0	Replacement Cost: \$\$500,000

Recommendations:	Previous inspection - Recommend replacing structure with a culvert within 3 years.		
OBSERVATIONS			
Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	Previous inspection - Hazards, mild slopes, slippery rocks and structure located on a sharp turn. - Rubber boots for inspection.		

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.