

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B01282025-1	
Date: 1/23/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-171 - PETTY HARBOUR BRIDGE #1 - R11			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	- Frame legs have regular transverse spacing of wide longitudinal cracks extending down from the deck soffit. Suspect these cracks maybe the start of reinforcement corrosion, F1. - Frame legs have light erosion to the concrete surface at the waterline. Frame legs otherwise in fair to good condition, F1.				
SUPERSTRUCTURE					
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable		
Comments:	- Construction joint between deck and curb opened throughout and visibly leaking water and efflorescent material in some locations, P3. - Deck soffit has regular transverse spacing of wide longitudinal cracks. Suspect these cracks maybe the start of reinforcement corrosion, F1.				
DECK					
Condition:	F1 - Fair	Curbs:	F1 - Fair		
Hand Rail:	P - Poor	Roadway Condition:	F1 - Fair		
Approach Rail:	I - Inapplicable				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - Asphalt has wide transverse cracks located above the back of the frame legs, F1. - Structure railing is a pedestrian fall protection measure only. Handrailing has severe and permanent deformations. P for traffic use but ok for pedestrians. - No end blocks, guide railing or hazard markers. - Curb tops not inspectable due to snow cover. Exterior faces of the curb have isolated hairline to narrow cracks with very light efflorescent deposits in some of the cracks, F1.				
HYDROLOGY					
Water Velocity:	Slow m/s	Ice Problem:	N - No Problem		
Water Depth:	Shallow m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	K - Known Problem		
Comments:	- A lot of debris in river channel - Chanel overgrown with grass and other vegetation - Very low flow - Aggradation in channel under the bridge				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2030	Replacement Year:	2050		
Antic. Rehab. Cost:	\$100,000	Replacement Cost:	\$2,000,000		
Recommendations:	- Crack injections - Local concrete repairs - Replace structure railing. - Install end blocks and hazard markers. - Consider waterproofing and repaving.				
OBSERVATIONS					
Overall Condition:	F1 - Fair	Requires Further Inspection:	No		
Additional Observations:	Structure in fair condition. Monitor deck soffit cracking on future inspections.				