

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B03212024-3	
Date: 9/6/2023		Inspected By: M Button / T Upshall		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site: 1-049 - NORTHWEST RIVER BRIDGE - R10					
SUBSTRUCTURE					
Condition: P3 - Poor		Bearings: F1 - Fair			
		Bearing Seat: F1 - Fair			
Comments:		Very wide horizontal cracks, medium pattern cracks with severe erosion and scour in original footings. Wide horizontal cracks and medium pattern cracking in bearing seat. Lumber and debris accumulating on bearing seat. Medium pattern cracking, delamination, efflorescence deposits on wingwalls. Numerous wide horizontal/vertical cracks with medium efflorescence deposits in original section of abutments. Severe erosion of backfill beneath SE wingwall. Narrow vertical/horizontal cracking in ballast walls with light efflorescence.			
SUPERSTRUCTURE					
Condition: F1 - Fair		Expansion Joints: P3 - Poor			
Comments:		Medium abrasions/deformations/corrosion to expansion joint dams. Medium longitudinal cracks in bottom flanges of all concrete girders. More severe on exterior girders. East exterior girder has narrow longitudinal cracking throughout web. Medium longitudinal cracks in some top flanges leaking efflorescence. Medium spall with exposed corroded reinforcement in bottom of interior girder. Severe spalling with exposed corroded reinforcement to SE deck fascia. Narrow longitudinal cracks with light efflorescence in deck soffit. Heavy deposits of efflorescence on some girders leaking from soffit joint. Narrow horizontal cracking with light efflorescence in diaphragms. Narrow map cracking in ends of some girders.			
DECK					
Condition: F1 - Fair		Curbs: P3 - Poor			
Hand Rail: F2 - Fair		Roadway Condition: F1 - Fair			
Approach Rail: F2 - Fair					
Comments:		Numerous medium longitudinal/transverse cracks with medium efflorescence to curb fascia and curb surfaces. Aluminum end caps missing in handrail. No structural guiderail. NE/SE/SW missing hazard markers. Hairline longitudinal/transverse cracks in cantilever soffit.			
HYDROLOGY					
Water Velocity: Tidal m/s		Ice Problem: N - No Problem			
Water Depth: Tidal m		Scour Problem: P - Possible Problem			
Waterway: 01 - Adequate		Debris Problem: N - No Problem			
Comments:		Some moderate slope erosion on all 4 corners of structure.			
REPLACEMENT/REHABILITATION					
Next Rehab. Date: 2026		Replacement Year: 2035			
Antic. Rehab. Cost: \$0		Replacement Cost: \$0			
Recommendations:		Replace expansion joints. Repair concrete defects and shoulder erosion. Install structural approach/exit guiderail. Install missing hazard markers. Clean debris from bearing seats. Clear deck drains.			
OBSERVATIONS					
Overall Condition: P3 - Poor		Requires Further Inspection: No			
Additional Observations:		P3 - Original footings, wingwalls, SE curb fascia, and abutments.			