

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B10042024-3	
Date: 10/4/2024		Inspected By: B. Grandy/D. Avery		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		2-083 - LAWN HARBOUR BRIDGE EAST (OLD) - R220-16			
SUBSTRUCTURE					
Condition:		F2 - Fair		Bearings: F2 - Fair	
				Bearing Seat: F2 - Fair	
Comments:		Previous inspection - Both abutments, all wingwalls, bearing seats and bearings all in fair condition. New inspection - Some spalling and rust staining on abutment 1			
SUPERSTRUCTURE					
Condition:		F2 - Fair		Expansion Joints: P1 - Poor	
Comments:		Previous inspection - Girders and deck soffit in fair condition. - Diaphragms on the north side of the bridge have 300mm plastic culvert penetrating them. -Both expansion joints have damage to their armoring, potholes in the concrete end dams and have seals broken, P1. New inspection - Minor efflorescence in areas. Moderate longitudinal cracking on bottom of girders 1 & 6. Exposed rebar on girders 4 & 5 and on soffit between girders 3 & 4 near abutment 2.			
DECK					
Condition:		F2 - Fair		Curbs: P3 - Poor	
Hand Rail:		F2 - Fair		Roadway Condition: F2 - Fair	
Approach Rail:		F1 - Fair			
Comments:		Previous inspection - Asphalt in fair condition. - Curbs around the expansion joints have large spalls. Roadway surface has spalls exposing reinforcement and suspected widespread delamination. Sidewalk has wide spread spalling exposing reinforcement presenting a tripping hazard with suspected wide spread delamination. - Structure rail in fair condition. - Guiderail in fair condition, connected to end blocks, but does not have regulation post spacing or hazard markers. New inspection - Severe damage to curb on left side. Water likely trapped in low spots. Leaking expansion joint at abutment 2.			
HYDROLOGY					
Water Velocity:		0.5 m/s		Ice Problem: N - No Problem	
Water Depth:		Deep m		Scour Problem: N - No Problem	
Waterway:		01 - Adequate		Debris Problem: N - No Problem	
Comments:		Previous inspection - Area is tidal. Hydro structure upstream.			
REPLACEMENT/REHABILITATION					
Next Rehab. Date:		2025		Replacement Year: 2050	
Antic. Rehab. Cost:		\$100,000		Replacement Cost: \$2,000,000	
Recommendations:		Previous inspection - Replace expansion joints. - Replace curbs. - Salvage and reinstall structure rail. - Upgrade guiderail post spacing and place regulation hazard markers.			
OBSERVATIONS					
Overall Condition:		F2 - Fair		Requires Further Inspection: No	
Additional Observations:		Previous inspection - Bridge overall in fair condition with P3 areas. - Waterline attached to north side of structure.			

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2026.