

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B11082024-1	
Date: 11/7/2024		Inspected By: T Upshall		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-295 - MANUELS RIVER BRIDGE UPSTREAM - R60			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	F1 - Fair		
		Bearing Seat:	F1 - Fair		
Comments:	Narrow vertical/horizontal/pattern cracking with light efflorescence and rust stained surface in wingwalls. Medium erosion to abutment face below high-water mark. Very severe delamination to SE abutment face P3. Severe disintegration to SE abutment corner. Medium vertical cracks in abutments. Concrete debris accumulating on bearing seat. Light erosion to vertical construction joint in abutment between structures with light algae growth covering surface. Unable to inspect bearing/bearing seat/ballast wall due to height restriction.				
SUPERSTRUCTURE					
Condition:	P3 - Poor	Expansion Joints:	P3 - Poor		
Comments:	Severe spalling with exposed reinforcement (medium corrosion) to numerous locations on bottom flange of upstream exterior girder. Spalling occurring near deck drain locations. Narrow angular shear cracks, very wide vertical cracks, medium spalling/delamination/disintegration and medium honeycombing to upstream exterior girder ends. Narrow shear cracks also observed on downstream exterior girder ends. Narrow horizontal cracks along top flange of upstream exterior girder becoming more severe towards SE end. Wide horizontal crack in NW bottom flange of interior girder near bearing seat. Light spalling with light corrosion to exposed reinforcement in deck soffit, diaphragms, and girder bottom. Light corrosion, medium abrasions, narrow transverse cracks, and light deformations to expansion joints.				
DECK					
Condition:	P3 - Poor	Curbs:	P3 - Poor		
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair		
Approach Rail:	P1 - Poor				
Comments:	Severe spalling/disintegration to SE curb/deck fascia beneath aluminum handrail post. Medium to wide horizontal cracks, medium disintegration to remaining upstream deck fascia. Light scrapes, deformations and missing end caps to aluminum handrails. NE approach rail and posts severely damaged from vehicle impact. Medium wheel track rutting to asphalt surface. Incorrect hazard markers installed. Very severe deterioration to upstream insulated watermain with insulation exposed to elements. Pigeons nesting on bearing seat. Graffiti cover abutment faces.				
HYDROLOGY					
Water Velocity:	0 m/s	Ice Problem:	N - No Problem		
Water Depth:	0 m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:					
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2025	Replacement Year:	2040		
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0		

Recommendations:	Replace expansion joints. Install guiderail structures with hazard markers. Repair all concrete defects. Clean debris from deck drains. Remove graffiti from abutments. Replace upstream watermain protective housing.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:			

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