

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B11072024-1	
Date: 11/7/2024		Inspected By: T Upshall		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-008 - MANUELS RIVER BRIDGE (DOWNSTREAM) - R2			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	F1 - Fair		
		Bearing Seat:	F2 - Fair		
Comments:	Narrow vertical/horizontal/pattern cracking with light efflorescence in wingwalls. Medium erosion to abutment face below high-water mark. Medium spall with exposed reinforcement and severe delamination to east/west abutment face. Organic and concrete debris accumulating on bearing seat. Unable to inspect bearing/bearing seat/ballast wall due to height restriction.				
SUPERSTRUCTURE					
Condition:	P1 - Poor	Expansion Joints:	P1 - Poor		
Comments:	Very severe abrasion deformation to west expansion joint with damage to seal and leaking joint. Deck expansion is restricted due to joint deformation and asphalt/debris blocking the seal creating a performance deficiency. West joint has severe asphalt raveling, alligator/transverse cracking, and potholes. Concrete dam contains medium spalling/abrasions/disintegration and covered in asphalt. East expansion joint in fair condition however severe deformation to joint in sidewalk. Light spall with exposed reinforcement in diaphragms. Narrow transverse/longitudinal cracks, medium delamination's, and rust stained surface due to insufficient cover of reinforcement in soffit overhangs. Severe disintegration to visible exterior girder ends over bearing seat. Hairline horizontal/ angular shear cracks in SE exterior girder end over bearings. Medium honeycombing to numerous bottom flange of girders. Longitudinal construction joint opening along exterior fascia.				
DECK					
Condition:	P3 - Poor	Curbs:	P3 - Poor		
Hand Rail:	F2 - Fair	Roadway Condition:	P3 - Poor		
Approach Rail:	F1 - Fair				
Comments:	Narrow vertical cracks with light efflorescence in exterior curb top and fascia over wing walls. Hairline pattern cracking in end blocks. Medium transverse/longitudinal/pattern cracking in top of sidewalks. Deck drains blocked with debris. Hazard marker missing on SE corner. Large boulders and cavities observed beneath NE sidewalk adjacent to wingwall. Graffiti covering abutment face and pigeons nesting on bearing seats. No exit rail installed.				
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 east and west expansion joints. Install guiderail structures with hazard markers. Repair all concrete				

defects. Clean debris from deck drains. Remove graffiti from abutments and wingwalls.

OBSERVATIONS

Overall Condition:	P1 - Poor	Requires Further Inspection:	No
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Additional Observations:

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