

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B03042025-4	
Date: 2/27/2025	Inspected By: T Upshall / M Button	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site: 1-102 - CUSLETT RIVER BRIDGE - R			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	F1 - Fair
Comments:	The north abutment has a medium vertical crack around the mid-transverse point. The NE back wall corner has medium-severe cracking with efflorescence. NE and NW wingwalls have medium pattern cracking with efflorescence with one wide crack propagating from the expansion joint gap. NE wingwall/back wall corner has moderate to severe cracking with efflorescence. Heavy efflorescent deposits visible behind bearing seat diaphragms. Defects likely caused by a leaking expansion joint/no caulking through curb. South abutment has several narrow leaking vertical cracks. The SE back wall corner has medium horizontal cracking with efflorescence. SW wingwall has medium map cracking with efflorescence throughout and a wide horizontal crack below the curb. Styrofoam obstructing visual inspection of bearings. Embankment material accumulating on NW bearing seat. Rocks and formwork on north and south bearing seat. Substructure F1 in general with P3 locations.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	P1 - Poor
Comments:	Severe deformation to south expansion joint steel embedment edge beam. Medium pattern cracking in SE soffit leaking efflorescence onto girders. Medium spalling and delamination with severe corrosion to exposed reinforcement to bottom of NW exterior girder near abutment. Narrow to medium longitudinal cracks in the bottom flanges and end blocks of all 5 girders. Exposed vertical reinforcement in most girders in various locations, low cover issues from construction. Rust dot staining on the bottom face of the bottom flange throughout most girders, likely corrosion chasing the support chairs. Isolated location of efflorescence at about 1/3 span from the north abutment on the downstream girder, likely from water dripping above through the deck/curb construction joint. Hairline map cracking throughout all girder webs and end blocks. All expansion joints/curbs leaking and causing accelerated damage to other bridge elements, P1. Superstructure F1 with P1 locations.		
DECK			
Condition:	F1 - Fair	Curbs:	F1 - Fair
Hand Rail:	P3 - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	F1 - Fair		
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. Medium transverse cracks in asphalt adjacent to expansion joints. Medium raveling and numerous severe potholes in asphalt exposing the concrete deck and approaches, P3. One top section of horizontal handrail at the NE corner has cracked off from the post and is resting on the bottom rail (P3). Wide vertical cracks in handrail posts. Remaining concrete handrail in fair condition, F1. Longitudinal and transverse cracks along roadway curbs, F1. Medium pattern cracking in all end blocks with severe spall to SW corner. Approach/exit guiderail in fair condition with no hazard markers. Guiderail not connected to end blocks and no additional energy dampening posts prior to end blocks. Bottom of deck in fair condition. No visible leakage around girders on the north side. On the south side, there is light cracking with efflorescence over the bearing seat. The SE fascia/soffit has medium cracking with efflorescence. Defects on the south side likely caused by the south expansion joint leakage. Both fascia's/exterior curb have light pattern cracking throughout. In some locations, the curb/deck construction joint is starting to open and is visible leaking. NE curb spalled around expansion joint. The east exterior curb at 1/3 span from the north abutment has a small spall under the concrete handrail. Curb caulking cracked though.		
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:		Replacement Year:	
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Replace expansion joints. Caulk expansion joints. Repair concrete defects on wingwalls and curbs around expansion joints. Install waterproofing and resurface deck and approaches. Clear brush on southwest exit. Install hazard markers. Remove formwork and debris from bearing seats.		
OBSERVATIONS			
Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:			

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