

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		<b>BRIDGE INSPECTION REPORT</b> <b>B06012022-4</b>	
Date: 5/3/2022		Inspected By: Trevor Upshall		Category: Eng. - Engineering	
<b>BRIDGE INFORMATION</b>					
Site:		1-024 - PIERRE'S BROOK BRIDGE, WITLESS BAY - R10			
<b>SUBSTRUCTURE</b>					
Condition:	P3 - Poor	Bearings:	F1 - Fair		
		Bearing Seat:	P3 - Poor		
Comments:	P3 - Abutment corners/bearing seat/creep blocks. F1 - Remainder. Assumed condition of reinforced concrete abutment footings. Bearings unable to be inspected due to height restriction. Severe delamination/spalling/disintegration with wide vertical cracks and exposed reinforcement to NW/NE/SE creep blocks and bearing seat. SW creep block has wide vertical cracks leaking heavy efflorescence deposits onto abutment wing wall. Medium-wide vertical/horizontal cracks with medium efflorescence in all wing walls. Numerous medium vertical cracks in north/south abutment face. Efflorescence deposits and corrosion stains on north abutment face beneath double tee girders/bearing seat.				
<b>SUPERSTRUCTURE</b>					
Condition:	F1 - Fair	Expansion Joints:	F1 - Fair		
Comments:	No visible signs of expansion joints (paved over on deck). Light delamination/spalling with light corrosion to exposed reinforcement on all double tee girders. Most likely the result of insufficient concrete cover. Double tee girders near deck drains are heavily stained and subject to erosion and exposing additional reinforcement. No chalking in curb expansion gaps.				
<b>DECK</b>					
Condition:	F2 - Fair	Curbs:	F2 - Fair		
Hand Rail:	F1 - Fair	Roadway Condition:	F1 - Fair		
Approach Rail:	F1 - Fair				
Comments:	Medium vertical/horizontal cracks with medium spalling to deck//curb fascia. Light abrasions to curbs and end blocks. Wide vertical/horizontal cracks with medium spalling to concrete handrail. No hazard markers. Embankment erosion at NE corner. Hairline map cracks in NW end block. Light rust, abrasions, and dents to approach and exit rail.				
<b>HYDROLOGY</b>					
Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem		
Water Depth:	0.3 m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:					
<b>REPLACEMENT/REHABILITATION</b>					
Next Rehab. Date:	2023	Replacement Year:	2035		
Antic. Rehab. Cost:	\$100,000.00	Replacement Cost:	\$1,500,000.00		
Recommendations:	Repair concrete defects to abutment corners, bearing seat, and creep blocks. Repair NE corner embankment erosion. Install four new hazard markers. Chalk expansion gaps in curb.				
<b>OBSERVATIONS</b>					

<b>Overall Condition:</b>	P3 - Poor	<b>Requires Further Inspection:</b>	Yes
<b>Additional Observations:</b>	P3 - Abutment corners/bearing seat/creep blocks. F2 - Remainder. Bridge office should re-inspect P3 components.		

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.