

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		<b>BRIDGE INSPECTION REPORT</b> <b>B05062022-7</b>	
<b>Date:</b> 4/29/2022		<b>Inspected By:</b> Trevor Upshall		<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>					
<b>Site:</b>		1-046 - HOLYROOD POND BRIDGE - R			
<b>SUBSTRUCTURE</b>					
<b>Condition:</b>		F2 - Fair		<b>Bearings:</b>	
				F2 - Fair	
				<b>Bearing Seat:</b>	
				F2 - Fair	
<b>Comments:</b>		Assumed condition of partially buried abutment footings. Narrow vertical cracks in faces of abutments, ballast walls and creep blocks. Hairline map cracks in face of SW wingwall and SE abutment. Light bulging in bearing pads. Severe rusting to concrete filled steel tube pier piles. Medium map cracks in concrete pier cap. Pier caps and bearings remain inaccessible. Efflorescence deposits on east/west ballast walls leaking from expansion joints. Grout covering tie-rod holes have popped out exposing steel in wing walls.			
<b>SUPERSTRUCTURE</b>					
<b>Condition:</b>		F2 - Fair		<b>Expansion Joints:</b>	
				F2 - Fair	
<b>Comments:</b>		Narrow angular shear cracks in web at ends of multiple girders. Light rust stains on interior girder webs from reinforcement. Light abrasion to end blocks. Narrow longitudinal cracks in expansion joint dams.			
<b>DECK</b>					
<b>Condition:</b>		F2 - Fair		<b>Curbs:</b>	
				F2 - Fair	
<b>Hand Rail:</b>		F2 - Fair		<b>Roadway Condition:</b>	
				F2 - Fair	
<b>Approach Rail:</b>		F1 - Fair			
<b>Comments:</b>		Medium/severe rusting to left in place light gauge steel Q-deck soffit formwork. Hairline map cracks in NE wheelchair ramp. Narrow vertical cracks to interior curb at NW corner. Wide vertical crack SW corner curb fascia. SW corner deck soffit light spall with exposed rebar. No hazard markers. Severe slope erosion and undermining to concrete gutter NW corner with gabion migrating down slope. Shoulder/embankment erosion at NE/SE ends of structure. Guiderail/posts showing signs of damage and decay. Severe asphalt edge cracks at SW corner. East approach has medium longitudinal cracks and small potholes on bridge deck.			
<b>HYDROLOGY</b>					
<b>Water Velocity:</b>		Tidal (Gut Closed) m/s		<b>Ice Problem:</b>	
				N - No Problem	
<b>Water Depth:</b>		0 m		<b>Scour Problem:</b>	
				N - No Problem	
<b>Waterway:</b>		01 - Adequate		<b>Debris Problem:</b>	
				N - No Problem	
<b>Comments:</b>		Type II and III hydraulic rip rap at 4 corners and along faces of abutments/footings in good condition.			
<b>REPLACEMENT/REHABILITATION</b>					
<b>Next Rehab. Date:</b>		2027		<b>Replacement Year:</b>	
				2050	
<b>Antic. Rehab. Cost:</b>		\$50,000.00		<b>Replacement Cost:</b>	
				\$2,500,000.00	
<b>Recommendations:</b>		Install hazard markers, repair gabion and erosion damage to NW gutter. Repair/replace damaged guiderail/posts, clean out deck drains and expansion joint seals.			
<b>OBSERVATIONS</b>					
<b>Overall Condition:</b>		F2 - Fair		<b>Requires Further Inspection:</b>	
				No	
<b>Additional Observations:</b>		Bridge office has been notified of the shear cracks in girders. (Mike Button / Justine Geddes)			