

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B03122026-4	
Date: 3/10/2026		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-074 - TORS COVE POND SPILLWAY BRIDGE & CULVERT - R10			
SUBSTRUCTURE					
Condition:	P1 - Poor	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	- Upstream wingwalls have narrow to medium horizontal and vertical cracks with light efflorescence. - Various footing to leg/wingwall construction joints have perimeter spalls and disintegration. The upstream footing corner of the overflow culvert has an area of delamination surrounding a moderate spall, P3. - Pockets of moderate scour under all footings/frame legs, P3. - Upstream extension frame legs footings have wide map cracks throughout, P3. Areas of honeycombs remain from original construction. Upstream and downstream frame leg faces have hairline to narrow map cracks to the exterior corners and are otherwise free of concerning defects, F1. - The concrete surrounding the structures extension construction joints has wide cracks, delaminations, disintegration and is leaching severe efflorescent material, P3. - Original/middle frame leg footings have very wide cracks with large boulders completing the section. Frame leg faces have very wide pattern cracks throughout. Local delaminations and areas of disintegration, P1. - Overflow arch 1500Wx1200H runs through south wingwalls. Upper ring of barrel still has intact galvanization, light surface corrosion to bolts, medium deformations, severe corrosion with stratification to the barrel bottom, and couplers/banding opening exposing backfill. Downstream culvert concrete casing has vegetation growing atop, P3 to P1.				
SUPERSTRUCTURE					
Condition:	P1 - Poor	Expansion Joints:	I - Inapplicable		
Comments:	- Upstream and downstream extension/exterior headwalls have narrow to medium horizontal and vertical cracks with light efflorescence, F1. At the top on the upstream side, the headwall is disintegrated exposing reinforcement with moderate to severe corrosion, P3. - Original structures upstream and downstream headwalls (under structure) have severe spalling and disintegration exposing a steel rail tie and stirrups with severe corrosion, P1. - Upstream extension deck soffit has wide cracks at its exterior corner. Corner is suspected to spall soon. Interior has narrow to medium longitudinal cracks. These cracks likely align with rail ties. - Original deck soffit has wide cracks, delaminations or spalls under every steel rail tie, P1. Between rail ties, the deck soffit has hairline to narrow map cracks with light efflorescence. - Downstream extension deck soffit exterior corner has wide cracks with light efflorescence with a small spall towards the northeast corner, P3. Interior deck soffit has hairline pattern cracks throughout with visible large cobbles (>150m).				
DECK					
Condition:	P1 - Poor	Curbs:	I - Inapplicable		
Hand Rail:	P1 - Poor	Roadway Condition:	P3 - Poor		
Approach Rail:	P - Poor				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. All concrete decks buried in fill. - Structure rail is flexrail on wooden posts attached to the exterior concrete headwalls. On the upstream side, one post has 1 of 3 anchor bolts exposed from disintegrated headwall concrete. Roughly 50mm of embedment lost. Hardware has moderate corrosion. All posts have rot within their cores, P1. - Guiderail not of type guiderail structures. All standard guiderail around the structure needs replacement. Ruptured buried ends, broken posts, rotten posts & twisted flexrail, P. - No curbs or end blocks installed. - Asphalt surface has numerous medium to wide longitudinal/transverse cracks. No potholes at time of inspection. Significant patching to northeast quadrant, P3.				
HYDROLOGY					

Water Velocity:	Varies m/s	Ice Problem:	N - No Problem
Water Depth:	Varies m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Structure downstream of a spillway. All flow controlled by pond elevation upstream.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$	Replacement Cost:	\$
Recommendations:	- Replace structure.		
OBSERVATIONS			
Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	- All concrete contains rounded large "beach rock" aggregates. These aggregates are known to be reactive. Structure maybe undergoing ASR. - Overflow arch 1500Wx1200H through south wingwalls. Broken/separated banding and moderate corrosion to bottom of barrel, P3. - Bedrock within 100mm of top of asphalt on structure approaches/exits. - Structure needs to be replaced. Middle/original structure, P1. F1 to P3 extensions overall.		

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