Newfoundland Labrador	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Works	BRID	BRIDGE INSPECTION REPORT B10082021-1 Printed: Friday, October 8, 2021				
Date: 10/5/2021	Inspected By: Mike Button		Category: Office - Bridge Office				
BRIDGE INFORMATION							
Site:	TCH-013 - NORTHWEST BROOK C	ULVERT					
Route:	1		Overall Length: 20 m				
Year Built:	1965 Est: Ye	•	Overall Width: 40 m				
Year Last Rehab.:	Est: No		Roadway Width: 14 m				
Region:	CENTRAL EAST		Sidewalk Width: 0 m				
Jurisdiction:	Provincial		Clearance to R.D. or 4 m N.W.L.:				
Type of Structure:	04 - Rigid Frame		Max Depth of N.W.L.: 1 m				
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:				
Type of Handrail:	06 - None		Span No.:	Length	Span No.:	Length	
Roadway Surface:	02 - Asphalt		1	15	4	0	
Alignment Vertical:	01 - Good		2	0	5	0	
Alignment Horizontal:	01 - Good		3	0	6	0	
Restrictions:	No						
A	2012/12/20	2012/12/20-				1-12/20	
SUBSTRUCTURE							
Condition:	P3 - Poor (Repair within 3 Years)	Bearings:	l - Ina	applicable			
		Bearing Seat:	l - Ina	applicable			
Comments:	- East frame leg has medium staining with mild vertical cracking with efflorescence on the upstream half of the structure. Downstream half of frame leg has light-medium erosion at the leg/footing construction joint Northeast retaining structure has medium alligator cracking with efflorescence with mild erosion to the footing joint at the waterline, F1. Inspection of area placed as P3 due to region reporting voids and severe erosion to the frame leg/footing construction joints who were also on the inspection.						
SUPERSTRUCTURE							
Condition:	P3 - Poor (Repair within 3 Years)	Expansion Joints:	l - Ina	applicable			
Comments:	- Bottom of arch on north side has medium-heavy cracking with heavy efflorescence forming stalactites, P3. Past about the one-third point, efflorescence no longer visible, F1. Some leakage through both construction joints North face of arched frame has mild cracking with medium-heavy efflorescence.						

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DECK Condition:	D2 Door (Donoir within 2 Voors)	Curbs:	L Inonnliaghla					
	P3 - Poor (Repair within 3 Years)		I - Inapplicable					
Hand Rail:	I - Inapplicable	Roadway Condition:	I - Inapplicable					
Approach Rail:	F2 - Fair (Inspection within 2 Years)							
Comments:	 North side of arch has heavy vegetation growth from the roadway down the slope. Leaking on north side through deck. Suspect deck is in poor condition (P3) but condition assumed based on evidence below and ~3m of fill over top of structure. 							
HYDROLOGY								
Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem					
Water Depth:	1.2 m	Scour Problem:	P - Possible Problem					
Waterway:	01 - Adequate	Debris Problem:	N - No Problem					
Comments:	- None.							
REPLACEMENT/REHAB	ILITATION							
Next Rehab. Date:		Replacement Year:	2030					
Antic. Rehab. Cost:	\$0.00	Replacement Cost:	\$2,500,000.00					
Recommendations:	- Monitor frame leg/footing construction joint for continued erosion. Recommend a replacement within 5-10 years. Arch is cracked/leaking in certain locations which cannot be repaired in this case.							
OBSERVATIONS								
Overall Condition:	P3 - Poor (Repair within 3 Years)	Requires Further Inspection:	No					
Additional Observations:	- Inspection limited due to deep water under structure and no traffic control on the south side of the structure Need hip-waders for inspection Hazards fast moving traffic. Path on northwest side of structure to access north face of structure and river.							
LEGEND: Condition Definitions: 1 * 'Good - [discontinued code]. 2 * 'Fair - [discontinued code]. 3 * 'Poor - [discontinued code]. 4 * 'Unsafe - [discontinued code]. G - Good (Inspection within 2 Years). PHOTO GUIDELINES: Inspection Photos: Please provide photos using guidelin Please provide photos using guidelin Please provide photos using guidelin (a May them which inspector fr		C - Unsafe (Closed to Public). U - Uninspectable. I - Inapplicable.	Problem Definitions: Category Definitions: N - No Problem. Maint Maintenance. P - Possible Problem. Eng Engineering. K - Known Problem. Office - Bridge Office. NA - Not Applicable. Office - Bridge Office.					
Please provide photos using guidelines below: • Any item which inspector reels should be documented by photograph • All items noted above as being P3, P1, P, or C • Any evidence of known ice, scour; debris, waterway problems								

Department of Transportation and Works, Government of Newfoundland and Labrador 2021.

INSPECTION PHOTOS