

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B11262021-1	
Date: 10/27/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	5-061 - ST. LEWIS RIVER BRIDGE		
Route:	510	Overall Length:	110 m
Year Built:	2001	Est: No	Overall Width: 0 m
Year Last Rehab.:		Est: No	Roadway Width: 10 m
Region:	LABRADOR	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	0 m
Type of Structure:	08 - Steel Bridge	Max Depth of N.W.L.:	0 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	04 - Steel	1	110
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	G - Good	Bearings:	G - Good
		Bearing Seat:	F2 - Fair
Comments:	- Pot bearings in good condition with mild corrosion to anchorage bolts. - Bearing seat has light to mild map cracking throughout. Both abutments concrete/wingwalls in good condition.		
SUPERSTRUCTURE			
Condition:	G - Good	Expansion Joints:	F2 - Fair
Comments:	- Expansion joint is an overlapping slip plate on both sides of the structure. Slip plate has spall plate section missing at the centerline on the north side. Slip plate has medium plate section missing at the centerline on the east side. - One loose bolt at the first stringer to girder connection over the north abutment and was painted orange. - Inspected all visible elements of the bridge walking across the deck and using binoculars from below at the abutment level. All gusset plates/bolts/nuts/splice plates, stringer to girder connections, and the various types of members used in the main truss chords and bracing members were found to be in good condition.		

DECK			
Condition:	F2 - Fair	Curbs:	I - Inapplicable
Hand Rail:	G - Good	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	- Approach asphalt in fair condition, there are several wide cracks at the transition to the expansion joint concrete. - Approach/exit guiderails have isolated split posts, is connected to end blocks complete with hazard markers and collision dampening posts. - Steel decking has areas of isolated damage to sections of the grating. - Structure handrail in good condition.		
HYDROLOGY			
Water Velocity:	Tidal m/s	Ice Problem:	N - No Problem
Water Depth:	Deep m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Abutments and bottom of bridge 5m above the waterline. Structure unaffected.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2026	Replacement Year:	2070
Antic. Rehab. Cost:	\$30,000	Replacement Cost:	\$3,000,000
Recommendations:	- Replace damaged guiderail posts. Remove gravels atop the approach girders. Remove gravels from abutments and top members at the entrances to the bridge.		
OBSERVATIONS			
Overall Condition:	G - Good	Requires Further Inspection:	No
Additional Observations:	- Utilities attached to the east side of the structure. Traffic control needed for inspection. Hazards, traffic, slopes and working around water. Inspection limited below structure with use of binoculars at the waterline.		
LEGEND:			
Condition Definitions:		Problem Definitions:	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		
Category Definitions:			
Maint. - Maintenance.			
Eng. - Engineering.			
Office - Bridge Office.			
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● Any item which inspector feels 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 			
INSPECTION PHOTOS			

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