

Rails to Trails
Routine Condition Culvert Inspection Form



Crossing Boundary Creek	Structure # CW-064	Site # 5-2	Km 145.4	UTM Zone 11 N	UTM E 377538	UTM N 5441192
Trail Name C&WT	Height (m) 4	Width (m) 4	Length (m) 60.0	Diameter (m) Quarry rock and mortar walls with CIP con	Material	Flumes (Y or N) No
Inspection Co. Name Sean Annan	Inspector's Signature 			Inspection Date September 9, 2019		Next Inspection
GENERAL INFORMATION:						
GENERAL CULVERT ITEMS						
Item	Present Condition	Comments				
Baffles	NA					
Bolted Connections	NA					
Coupled Connections	NA					
Coating	NA					
Fill	NA					
Roof	Good	Board form concrete free from cracks or spalling				
Side Walls	Good	Quarry cut rock and mortar				
Floor	Poor	Significant floor scouring				

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GENERAL INFORMATION:

LEFT/RIGHT APPROACHES (as seen facing downstream)

GENERAL CULVERT ITEMS

Item	Present Condition	Comments
Headwalls	Good	Quarry cut rock and mortar
Wing Walls	Poor	Inlet wing walls good. Outlet wing walls failing on both sides. Bank scouring has occurred as a result. Wing wall ends have sheared off and dropped as a result of suspected undercutting by flow
Inlet	Good	
Outlet	Fair	Wing wall failure puts upslope at risk of movement
Riprap	NA	
Trash Rack	NA	
Aprons or Other Inlet/Outlet Items	Poor	Outlet apron scoured, undercut and no longer present
Overall Condition	Fair	Culvert floor needs re-pour. Outlet wingwalls need repair

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GENERAL INFORMATION:

LEFT/RIGHT APPROACHES (as seen facing downstream)

Item	Present Condition	Comments
Alignment	NA	
Bridge Ahead Signs Missing	NA	
Brushing Required	No	
Approach Handrail/Guardrail	NA	
Posted Load Rating (tonnes)		
Road Surface	Good	

FLUMES

Upstream Flume	Good	Boundary creek
Downstream Flume	Good	Boundary creek

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CHANNEL

Est. Present Water Level Depth (m) 1	Est. Present Water Level Width (m) 15	Est. High Water Level Clearance (m) 4
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HAZARDS

High Water? No	Scour? Yes	Ice? No	Debris? Yes	Aggradation? No
Hazard Comments				

REPAIRS (Priority = High, Medium, Low)

#	Priority	Description	Estimate (\$)
1	High	Add slope retention element to outlet wingwalls to prevent further slope sloughing	50000
2			
3			
4			
5			

ITEMS TO MONITOR

#	Description
1	Outlet slopes adjacent to wing walls for sloughing and movement
2	Floor scour
3	
4	
5	

General Comments

Culvert floor significantly scoured. Outlet wing walls collapsed due to undercutting by flow. Sloughing present on outlet upslope as a result.

P. Eng Inspection Required?	Yes	Estimated Date of Replacement:
PROFESSIONAL ENGINEER (P.Eng) CERTIFICATION		Replacement Date:
Current Load Rating GVW (tonnes):	Reviewed by - P.Eng Sean Annan	Date Reviewed
New Load Rating GVW (Tonnes):		

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Location



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Outlet flume - Boundary Creek



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Outlet



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Outlet wingwall failure and sloughing



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Outlet wingwall failure



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Drone Photo



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