

CK-2550

PURCELL km

2019 Inspection

CBR iPad Offline Ver 0.31



CBR Data

Latitude	Longitude		
49°44'7.9"	-122°5'18.4"		
Crossing Name	Unknown		
FSR #	11024	Branch #	1
Road Name	PURCELL		
User km			
Previous Load Rating (tonnes)	91		
Structure Class	Major Culvert		
Culvert Type	Round		
Culvert Material			
Opening Height (mm)	2400		
Opening Width (mm)	2400		
Inlet Cover (mm)	900		
Outlet Cover (mm)	1100		
Culvert Gradient %			
Culvert Length (m)	15.5		

Updated Data

Latitude	Longitude		
49°44'8.56"	-122°5'17.29"		
HD Diff. (m)	30.0	Accuracy (m)	10
L100 or 91 tonnes			
650			
1000			
5			

Inspection

Date of Inspection 2019-04-25 9:11:05 AM

Recommended Next Inspection Year 2020

Inspector Name Tyson Miller

Inspection Company FLNRORD

Inspector Comments

P.Eng Comments

The stability of the riprap placed downstream of the culvert is steep at 1.25:1 slope, ties into bedrock and requires monitoring. Also, monitor the inlet of the culvert for debris accumulations and material deposition (aggradation). The current load rating of L100 or 91 tonnes to continue.



23/05/2019

P.Eng Seal

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Approach

Alignment Fair

VC left approach

Bridge Ahead Signs

Missing

☒ 0☐ 1☐ 2

NA

Brushing Required

N

Delineator Missing

Left

☒ 0☐ 1☐ 2

NA

Delineator Missing

Right

☒ 0☐ 1☐ 2

NA

Fender Condition

Good

Log on outside edge

Posted Load Rating

Not posted

Road Surface

Good

Abutment

Log/Timber Cribs

Tie Backs

Bin Wall

Pier

Concrete

Caps or Sills

Piles or Posts

Ballast Wall

Wing Wall

Bracing

Hardware

Fill

Riprap

Bearings

Corrosion Protection

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Culvert

Baffles

Bolted Connections

Coating Good

Coupled Connections

Fair

The 2 culvert lengths are slightly misaligned at coupler location

Embedment Materials

Fill Good

Floor Good

Footing

Head Walls

Inlet Good

Minor material deposition is starting to occur, along with debris accumulations noted upstream.

Outlet Good

Overall Good

Rip Rap

Good

The riprap installed below the culvert intersects with exposed bedrock at an angle of 1.25:1. The long term stability of this riprap requires monitoring.

Roof Good

Sidewalls Good

Trash Rack

Weirs/Backwater
Structures

Wing Walls

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Hazards

Estimated Present Water Level Depth (m)	0.1	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	1.5	Aggradation	☒	Scour	☒
Estimated High Water Level Clearance (m)	1.5	Ice	☐		

Comments The long term stability of the riprap located below the culvert requires monitoring.
Monitor inlet for debris accumulations and aggradation

Repairs and Monitoring

Repair	
Item	Priority
	Repair Description

1

2

3

Item	Monitor Description	Frequency
1	Riprap stability located downstream of the culvert	Routine Inspection
2	Inlet debris accumulations and aggradation	Routine Inspection
3		

Sketch
(Select Signature)



Approach from Left Bank when facing downstream



Running width



Upstream from Crossing



Downstream from Crossing



Approach from Right Bank when facing downstream



Inlet



Culvert info



Culvert slightly misaligned at coupled location



Outlet



Outlet