

CK-2100

FLORENCE LAKE 14km

2019 Inspection

CBR iPad Offline Ver 0.31



## CBR Data

|                               |               |
|-------------------------------|---------------|
| Latitude                      | Longitude     |
| 49°19'25.79"                  | -122°20'22.2" |
| Crossing Name                 | Clem's Creek  |
| FSR #                         | 8648          |
| Branch #                      | 1             |
| Road Name                     | FLORENCE LAKE |
| User km                       | 14            |
| Previous Load Rating (tonnes) | 68            |
| Structure Class               | Major Culvert |
| Culvert Type                  | Round         |
| Culvert Material              | Other         |
| Opening Height (mm)           | 650           |
| Opening Width (mm)            | 650           |
| Inlet Cover (mm)              | 300           |
| Outlet Cover (mm)             | 300           |
| Culvert Gradient %            | 3             |
| Culvert Length (m)            | 7.6           |

## Updated Data

|                                               |                |
|-----------------------------------------------|----------------|
| Latitude                                      | Longitude      |
| 49°19'25.75"                                  | -122°20'21.87" |
| HD Diff. (m)                                  | 6.8            |
| Accuracy (m)                                  | 5              |
| L75 or 68 tonnes                              |                |
| 5 - 650mm diameter thick rubber wall culverts |                |

## Inspection

Date of Inspection 2019-08-13 9:41:48 AM

Inspector Name Tyson Miller

Recommended Next Inspection Year 2020

Inspection Company FLNRORD

## Inspector Comments

Road narrows substantially at culvert crossing  
Recommend placing fenders or large rocks to delineate road edge  
If existing structure washes out consider replacing with a properly designed ford if appropriate with road use.

## P.Eng Comments

Limit access during periods of heavy precipitation or rain on snow events - monitor the site following these events. The current load rating of L75 or 68 tonnes to continue.



P.Eng Seal

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## Approach

Alignment Fair

VC and HC both approaches

Bridge Ahead Signs  
Missing ☒ 0 ☐ 1 ☐ 2

Brushing Required N

Delineator Missing  
Left ☒ 0 ☐ 1 ☐ 2

Delineator Missing  
Right ☒ 0 ☐ 1 ☐ 2

Fender Condition Poor

None

Posted Load Rating

Not posted

Road Surface Fair

## 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

Coupled Connections

Embedment Materials

Fill Fair

Floor Fair

Footing

Head Walls

Inlet Fair

Outlet Fair

Overall Fair

Rip Rap Fair

Roof Fair

Sidewalls Fair

Trash Rack

Weirs/Backwater  
Structures

Wing Walls

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## Hazards

|                                          |     |             |                                     |        |                                     |
|------------------------------------------|-----|-------------|-------------------------------------|--------|-------------------------------------|
| Estimated Present Water Level Depth (m)  | 0.1 | High Water  | <input checked="" type="checkbox"/> | Debris | <input checked="" type="checkbox"/> |
| Estimated Present Water Level Width (m)  | 1.5 | Aggradation | <input checked="" type="checkbox"/> | Scour  | <input checked="" type="checkbox"/> |
| Estimated High Water Level Clearance (m) | 0.0 | Ice         | <input type="checkbox"/>            |        |                                     |

Comments 5 - 75mm thick smooth wall rubber culverts  
Stream appears to aggrade often, most likely following heavy precipitation events

## Repairs and Monitoring

### Repair

| Item | Priority | Repair Description                                                                       |
|------|----------|------------------------------------------------------------------------------------------|
| 1    | High     | Place proper fenders or large rocks to delineate the road edge through crossing location |
| 2    |          |                                                                                          |
| 3    |          |                                                                                          |

| Item | Monitor Description          | Frequency |
|------|------------------------------|-----------|
| 1    | For aggradation and/or scour | Anually   |
| 2    |                              |           |
| 3    |                              |           |

Sketch  
(Select Signature)



Approach from Left Bank when facing downstream



Running surface



Upstream from Crossing



Downstream from Crossing



Approach from Right Bank when facing downstream



Road narrows substantially over culverts



Material excavated from stream channel



Inlet



Inlet



Outlet