

CK-2505

MURDO SIXTEEN 0.4km

2016 Inspection



CBR iPad Offline Ver 0.23

## CBR Data

|                              |                     |          |    |
|------------------------------|---------------------|----------|----|
| Latitude                     | Longitude           |          |    |
| 49°17'42.2"                  | -122°13'24.1"       |          |    |
| Crossing Name                | Unknown             |          |    |
| FSR #                        | 8466                | Branch # | 16 |
| Road Name                    | MURDO SIXTEEN       |          |    |
| User km                      | 0.4                 |          |    |
| Current Load Rating (tonnes) | 109                 |          |    |
| Structure Class              | Woodbox/Log Culvert |          |    |
| Portable                     | N                   |          |    |
| Superstructure               |                     |          |    |
| Deck Type                    |                     |          |    |
| Abutment Left                |                     |          |    |
| Abutment Right               |                     |          |    |
| Spans                        | 0                   |          |    |
| Total Length (m)             | 7                   |          |    |
| Deck Width (m)               |                     |          |    |

## Updated Data

|                           |               |              |   |
|---------------------------|---------------|--------------|---|
| Latitude                  | Longitude     |              |   |
| 49°17'41.96"              | -122°13'23.8" |              |   |
| HD Diff. (m)              | 9.6           | Accuracy (m) | 5 |
| 0 tonnes                  |               |              |   |
| Temporary Bridge          |               |              |   |
| N                         |               |              |   |
| Log Stringer              |               |              |   |
| Gravel                    |               |              |   |
| Sill -Temporary Materials |               |              |   |
| Sill -Temporary Materials |               |              |   |
| 1                         |               |              |   |
| 5.3                       |               |              |   |

## Inspection

Date of Inspection 2016-11-14 1:25:05 PM

Inspector Name Tyson Miller

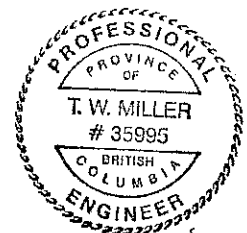
Inspection Company MFLNRO

## Inspector Comments

incomplete bearing under both log sills  
the high flows are eroding material under each sill  
remove or repair and block access ASAP

## P.Eng Comments

The foundation soils under both log sills have continued to erode to a point where now there is a serious concern to users. The structure is now condemned (0 tonnes) until either the structure is removed or the bearing of both log sills are complete. The road use is restricted by gate at the junction with the Lost Creek FSR (approx 2.5km from this site). Please post the structure as condemned until the repair or removal is complete.



Nov 18 / 2016  
P.Eng Seal

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## Approach

Alignment Fair

VC left approach

 Bridge Ahead Signs  
Missing ☐ 0 ☐ 1 ☒ 2

Brushing Required N

 Delineator Missing  
Left ☒ 0 ☐ 1 ☐ 2

 Delineator Missing  
Right ☒ 0 ☐ 1 ☐ 2

Fender Condition Fair

missing left upstream approach

Posted Load Rating

not posted

Road Surface Fair

## Abutment

Log/Timber Cribs N/A

Tie Backs N/A

Bin Wall N/A

Concrete N/A

Caps or Sills Poor

scoured and incomplete bearing

Piles or Posts N/A

Ballast Wall N/A

Wing Wall N/A

Bracing N/A

Hardware Fair

Fill Poor

eroding under sill

Riprap Poor

eroding

Bearings Poor

not complete

Corrosion Protection N/A

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**Deck**

|                        |      |            |
|------------------------|------|------------|
| Running Surface        | N/A  |            |
| Running Planks         | N/A  |            |
| Sub Deck               | N/A  |            |
| Ties                   | N/A  |            |
| Nails                  | N/A  |            |
| Deck to Girder Bolts   | N/A  |            |
| Concrete Deck          | N/A  |            |
| Grout Pockets          | N/A  |            |
| Deck Joints            | N/A  |            |
| Steel Deck Plate       | N/A  |            |
| Gravel Surface         | N/A  |            |
| Curb Rail/Blocks/Posts | Fair |            |
| Hand Rails/Walkouts    | N/A  |            |
| Hardware               | N/A  |            |
| Overall Deck Condition | Fair | 6.0 m span |
| Gravel Depth (mm)      | 400  |            |

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**Steel/Concrete**

Serial/ID Plate

Girders

Diaphragms

Bracing

Under Trussing

Hardware

Welded/grouted  
shear connectors**Log**

Log Curbs

Needle Beam

Needle Lashing/  
Shimming

| Stringer<br>Number | Needle Beam to Crib (m) |        | Diameter<br>(mm) | Needle Diameter (mm) |  | Condition | Comment |
|--------------------|-------------------------|--------|------------------|----------------------|--|-----------|---------|
|                    | Species                 | Peeled |                  | Rot Depth<br>(mm)    |  |           |         |
| 1                  | Fd                      | Y      | 600              |                      |  |           |         |
| 2                  | Fd                      | Y      | 500              |                      |  |           |         |
| 3                  | Fd                      | Y      | 550              |                      |  |           |         |
| 4                  | Fd                      | Y      | 530              |                      |  |           |         |
| 5                  | Fd                      | Y      | 550              |                      |  |           |         |
| 6                  | Fd                      | Y      | 520              |                      |  |           |         |
| 7                  | Fd                      | Y      | 500              |                      |  |           |         |
| 8                  | Fd                      | Y      | 520              |                      |  |           |         |
| 9                  | Fd                      | Y      | 540              |                      |  |           |         |
| 10                 | Fd                      | Y      | 500              |                      |  |           |         |
| 11                 | Fd                      | Y      | 480              |                      |  |           |         |
| 12                 | Fd                      | Y      | 540              |                      |  |           |         |

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## Hazards

|                                          |     |             |                                     |        |                                     |
|------------------------------------------|-----|-------------|-------------------------------------|--------|-------------------------------------|
| Estimated Present Water Level Depth (m)  | 0.3 | High Water  | <input checked="" type="checkbox"/> | Debris | <input type="checkbox"/>            |
| Estimated Present Water Level Width (m)  | 2.5 | Aggradation | <input type="checkbox"/>            | Scour  | <input checked="" type="checkbox"/> |
| Estimated High Water Level Clearance (m) | 0   | Ice         | <input type="checkbox"/>            |        |                                     |

Comments    The material under both log sills has further scoured putting users at risk. Deactivate or repair ASAP.

## Repairs and Monitoring

| Repair Item | Priority | Repair Description |
|-------------|----------|--------------------|
|-------------|----------|--------------------|

|   |      |                            |
|---|------|----------------------------|
| 1 | High | remove or repair structure |
|---|------|----------------------------|

|   |      |                             |
|---|------|-----------------------------|
| 2 | High | post structure as condemned |
|---|------|-----------------------------|

|   |  |  |
|---|--|--|
| 3 |  |  |
|---|--|--|

| Item | Monitor Description | Frequency |
|------|---------------------|-----------|
|------|---------------------|-----------|

|   |  |  |
|---|--|--|
| 1 |  |  |
|---|--|--|

|   |  |  |
|---|--|--|
| 2 |  |  |
|---|--|--|

|   |  |  |
|---|--|--|
| 3 |  |  |
|---|--|--|

Sketch  
(Select Signature)



Approach from Right Bank when facing downstream



looking upstream



Deck



looking downstream



Approach from Left Bank when facing downstream



Right Bank Abutment when facing downstream



Upstream Profile



right bank abutment erosion



stream erosion is leading to abutment erosion



stream erosion leading to abutment erosion



Left Bank Abutment when facing downstream