

CK-2306

UZTLIUS-E ANDERSON 27.2km

2016 Inspection

CBR iPad Offline Ver 0.23 SNT



## CBR Data

|                              |                               |          |   |
|------------------------------|-------------------------------|----------|---|
| Latitude                     | Longitude                     |          |   |
| 49°43'28.7"                  | -121°16'56.1"                 |          |   |
| Crossing Name                | not known                     |          |   |
| FSR #                        | 7972                          | Branch # | 2 |
| Road Name                    | UZTLIUS-E ANDERSON            |          |   |
| User km                      | 27.2                          |          |   |
| Current Load Rating (tonnes) | 10                            |          |   |
| Structure Class              | Temporary Bridge              |          |   |
| Portable                     | N                             |          |   |
| Superstructure               | Log Stringers                 |          |   |
| Deck Type                    | Gravel                        |          |   |
| Abutment Left                | Crib, Log or Untreated Timber |          |   |
| Abutment Right               | Crib, Log or Untreated Timber |          |   |
| Spans                        | 1                             |          |   |
| Total Length (m)             | 7.8                           |          |   |
| Deck Width (m)               | 5.1                           |          |   |

## Updated Data

|              |           |              |
|--------------|-----------|--------------|
| Latitude     | Longitude |              |
| °0'0"        | °0'0"     |              |
| HD Diff. (m) | 5535321.5 | Accuracy (m) |

N

## Inspection

Date of Inspection 2016-09-13 11:23:08 AM

Inspector Name Rick Johnson

Inspection Company SNT Engineering

## Inspector Comments

Coordinates confirmed with GPS.

Stringers appear to be reasonably sound for 10 tonnes rating. Replace structure for industrial use due to poor right abutment and reduced capacity of stringers. Note that coring was only possible on the left end of stringers.

Note that stringer table on the iPad starts at #2 so actual stringers are one less than shown in table unless table is corrected.

## P.Eng Comments

The load rating of 10 tonnes was assigned due to the poor bearing on the right bank as opposed to the stringer condition. 10 tonnes load rating to continue. Plan to replace the entire structure prior to industrial activity. Please post load rating sign.



02/03/2017

P.Eng Seal

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## Approach

Alignment Good

 Bridge Ahead Signs Missing ☐ 0 ☐ 1 ☒ 2

Brushing Required Y

 Delineator Missing Left ☒ 0 ☐ 1 ☐ 2

 Delineator Missing Right ☒ 0 ☐ 1 ☐ 2

Fender Condition Poor No fenders

Posted Load Rating 0 Not posted

Road Surface Fair

## Abutment

Log/Timber Cribs Poor The right crib has significant scour. The cribs act to hold fill for the sill logs and do not support the stringers. Both have sap rot up to 50mm.

Tie Backs Poor Rotting

Bin Wall N/A

Concrete N/A

Caps or Sills Poor Sill logs are just behind the top crib logs. Left has 25mm of rot. Right side could not be reached but has scour under half its length.

Piles or Posts N/A

Ballast Wall Unrated Could not see or access.

Wing Wall N/A

Bracing N/A

Hardware N/A

Fill Fair

Riprap Poor No riprap in front of cribs.

Bearings Poor Due to undermined sill on right bank.

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         | Fair |                                                                                                                                       |
| Curb Rail/Blocks/Posts | Poor | Both are too low and are at or below the deck level. Both curb diameters 500mm.                                                       |
| Hand Rails/Walkouts    | N/A  |                                                                                                                                       |
| Hardware               | Fair | Outside stringers lashed to sill.                                                                                                     |
| Overall Deck Condition | Poor | Due to low level of curb which does not offer any protection from driving off and which also permits side cast to go into the stream. |
| Gravel Depth (mm)      | 0.5  |                                                                                                                                       |

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**Steel/Concrete**

Serial/ID Plate

Girders

Diaphragms

Bracing

Under Trussing

Hardware

Welded/grouted  
shear connectors**Log**

Log Curbs Fair

Needle Beam N/A

Needle Lashing/  
Shimming N/A

Needle Beam to Crib (m)

Needle Diameter (mm)

| Stringer<br>Number | Species | Peeled | Diameter<br>(mm) | Rot Depth<br>(mm) | Condition | Comment                        |
|--------------------|---------|--------|------------------|-------------------|-----------|--------------------------------|
| 2                  | Cw      | N      | 450              | 20                | Fair      | Left drills sound              |
| 3                  | Cw      | N      | 370              | 20                | Fair      | Left drills sound              |
| 4                  | Cw      | N      | 420              | 20                | Fair      | Pocket rot in sapwood          |
| 5                  | Cw      | N      | 420              | 20                | Fair      | Left drills sound              |
| 6                  | Cw      | N      | 440              | 50                | Fair      | Left drills sound              |
| 7                  | Cw      | N      | 430              | 20                | Fair      | Left drills sound              |
| 8                  | Cw      | N      | 350              | 40                | Fair      | Left drills sound              |
| 9                  | Cw      | N      | 400              | 50                | Fair      | Left has 100mm saprot          |
| 10                 | Cw      | N      | 410              | 20                | Fair      | Left drills sound              |
| 11                 | Cw      | N      | 500              | 20                | Poor      | Left has pocket and core rot   |
| 12                 | Cw      | N      | 470              | 70                | Fair      | Left drills sound              |
| 13                 | Cw      | N      | 570              | 20                | Poor      | Left feels and smells punky    |
| 14                 | Cw      | N      | 480              | 20                | Fair      | Left drills sound              |
| 15                 | Cw      | N      | 450              | 40                | Poor      | Left has core rot, 150mm shell |

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## Hazards

|                                          |     |             |                          |        |                                     |
|------------------------------------------|-----|-------------|--------------------------|--------|-------------------------------------|
| Estimated Present Water Level Depth (m)  | 0.2 | High Water  | <input type="checkbox"/> | Debris | <input type="checkbox"/>            |
| Estimated Present Water Level Width (m)  | 3.5 | Aggradation | <input type="checkbox"/> | Scour  | <input checked="" type="checkbox"/> |
| Estimated High Water Level Clearance (m) | 0.5 | Ice         | <input type="checkbox"/> |        |                                     |

Comments    Scour under right abutment. This may be affecting the scour under the right sill log.

## Repairs and Monitoring

| Repair Item | Priority | Repair Description                    |
|-------------|----------|---------------------------------------|
| 1           | High     | Post 10 tonnes load rating sign.      |
| 2           | Medium   | Post 2 bridge signs.                  |
| 3           | Medium   | Brush out approaches and bridge area. |

| Item | Monitor Description                                    | Frequency          |
|------|--------------------------------------------------------|--------------------|
| 1    | Monitor for continued scour under right sill and crib. | Routine Inspection |
| 2    |                                                        |                    |
| 3    |                                                        |                    |

Sketch  
(Select Signature)



Left approach facing structure



Right approach facing away from structure



Left approach facing away from structure



Right approach facing structure



Upstream from Crossing



Upstream Profile



Downstream from Crossing



Left Bank Abutment when facing downstream



Right Bank Abutment when facing downstream



Downstream Profile



Right Bank Abutment when facing downstream



Stringers

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Stringers