

BRIDGE INSPECTION

BRIDGE NO.	61-046: Michelle-Coglistiko (23 KM)
Inspection Date:	October 6 th 2011
Inspected By:	D. Chen
Year Built:	1980
Number of Spans:	1
Span Lengths:	23,000 mm
Superstructure Type:	Four glulam girders 371mm x 1520 mm; girders spaced at 545 mm c/c (pairs), 2220 mm clear distance between groups.
Deck:	Wearing surface, un-treated timber planks, 75 mm thick. Structural planks, creosote treated timber planks 75 mm thick. Deck width 4530 mm.
Deck Structural:	Creosote treated timber ties 250 mm x 280 mm spaced at 400 mm c/c.
Curb:	Timber curbs and risers.
Substructure:	Concrete pile cap with piles (buried); creosote treated timber ballast walls; creosote treated sawn timber crib wing walls.
Superstructure Condition:	Good
Substructure Condition:	Good
Deck Condition:	Fair
Posted Load Restriction:	90 tonnes
Date for the Next Close Proximity Inspection:	2014
Projection for Replacement:	2030

INSPECTION NOTES:

(Note: Girders and piles are numbered from the upstream face and spans and piers are numbered from the left bank when looking Downstream).

The projected date for the bridge replacement is based on our estimated the remaining service life of the bridge. We estimate the remaining service life of a forestry bridge as the larger of:

- Original design life, typically 50 years for glulam girder bridges.
- If a bridge is nearing the end of its estimated service life but is still in fair condition, we recommend that the Ministry assume a remaining service life of five years.

Approaches:

- Observed potholes and loose gravel at both approaches.
- Roadway at both approaches is lower than the bridge wearing planks at the wheel tracks.
- Delineators present at all 4 corners; both downstream delineators are damaged.

- Approach concrete no-post barriers are in good condition.

Deck:

- Wearing planks are in fair condition; gravel accumulation was noted.
- Minor wear was noted on the wearing planks at the wheel tracks.
- Wearing planks are worn at the wheel tracks adjacent to approach roadways; extruding nail heads were noted.
- Drilled 2 locations, no rot was found.

Curb:

- Fair to poor condition; rub damage were noted on both upstream and downstream rails.
- Signs of bug infestation were noted on a few rails.
- Both upstream and downstream 2nd rails from camp end have a long unsupported segment.
- Upstream woods end curb rail is damaged; the 2nd upstream rail from woods end has a large pocket of rot.
- The 2nd downstream rail from woods end has a wide longitudinal check extended along the line of anchor bolts.
- 2 missing anchor bolt nuts were noted along downstream curbs; 1 loose anchor bolt nut was noted on downstream curb near woods end.

Abutments:

- Abutments are generally in good condition; a few abutment wing walls sawn timbers have mid-depth check.
- Drilled 1 sawn timber at woods end upstream wing wall, no rot was found.

Girders:

Girder 1 upstream face:

- Creosote leaching out, < 25 % of girder face is exposed.
- Minor weathering; a few checks, < 25mm deep in places, were noted.
- Existing checks tag AE127, tag AE128, and tag AE130 have not propagated.
- New check extends from tag AE1404 to tag AE952, 55mm deep in places, approximately 2800mm long, 920mm from top of girder.

Girder 2 downstream face & Girder 3 upstream face:

- Creosote leaching out of girder face at laminate joints.
- Generally no weathering on girder face; a few checks were noted on downstream face of Girder 2.
- Existing check tag AE425 has not propagated.

Girder 4 downstream face:

- Creosote leaching out, < 25 % of girder face is exposed.
- Minor weathering; a few checks were noted.
- Existing check tag AE129 has not propagated.

MAINTENANCE ITEMS/ RECOMMENDATIONS:

- 1 Repair downstream delineators.
- 2 Replace wearing planks as required.
- 3 Schedule curbs for replacement.

Prepared by:



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Reviewed by:



10 Feb, 2012

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