

# Structures: Inspections and assessments

## About ARRB:

ARRB Group Ltd (ARRB) provides research, consulting and information services to the road and transport industry. ARRB applies research outcomes to develop equipment that collects road and traffic information and software that assists with decision making across road networks. ARRB is the leading provider of road research and best practice workshops in Australia.

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INFRASTRUCTURE ASSET MANAGEMENT | EQUIPMENT MANUFACTURE & DATA COLLECTION SERVICES |  
SAFE SYSTEMS | ROAD SAFETY | TRAFFIC ENGINEERING | HEAVY VEHICLE TESTING & SIMULATION | PARKING |  
LAND TRANSPORT RESOURCES & INFORMATION | KNOWLEDGE TRANSFER & CAPACITY BUILDING |

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bridging the gap between state and local government

ARRB Group has established itself as a leader in structure inspections and offers a comprehensive package across Australia which includes a detailed condition inspection of the structure, valuation and a scheduled maintenance program.

ARRB has extensive experience in:

- bridges
- culverts
- boardwalks
- pontoons
- jetties.

Combined with our wide knowledge and strong connections across Australia you are assured that ARRB will provide your organisation with the best solutions for your infrastructure.

### Our inspection services include:

- **Level 1** - A routine maintenance inspection
- **Level 2** - A detailed bridge condition inspection
- **Level 3** - Detailed structural engineering inspection.

The total management of bridges can be as simple as or as complex as desired but ultimately it starts with a solid inspection program. Bridges should have a level 1 maintenance inspection annually to determine if there are any issues that need to be remedied to keep the public safe. A level 1 inspection can be used effectively to screen and develop a program for more detailed needs such as higher level inspections.

A level 2 condition inspection is a more comprehensive inspection and is completed on a less frequent and scheduled basis. Handover inspections can be completed as a level 2 inspection or as a separate report as required.

It is imperative that any problems with the infrastructure are identified. Regular inspections make it easier to plan and manage future network demand including budgets and risk.



### Inspections

#### Level 1

A visual inspection to check the overall serviceability of the structure. General photos are supplied and a report is generated.

#### Level 2

A detailed inspection outlining the condition state of every component on the bridge. An extensive photographic log is supplied and an overall condition rating is applied to the structure. ARRB manages any traffic control and under bridge inspection units (UBIU) needs as required.

#### Level 3

A detailed structural engineering inspection that reports on the structural integrity of the asset. Core samples, half cell and structural integrity testing can be conducted at this level.

### Outputs include:

- a condition summary
- a photographic log
- detailed reports
- digital reports
- sketches
- GPS locations
- maps
- an inventory schedule
- a risk evaluation.

All the above assessments can then be used as inputs to develop management programs, maintenance schedules and future budget estimates.

