

Bridges: Effective Asset Management



As managers of a substantial bridge stock you face a variety of competing pressures:-

- ✚ Community & industry demand for increased load limits
- ✚ Aging infrastructure
- ✚ Spiraling maintenance & replacement costs
- ✚ Limited information on structural capacity from traditional inspection systems

The **DBTS™ DYNAMIC** bridge test system and service from Integrity Testing lessens the pressure by providing a precise assessment of the bridges current capacity and structural integrity in its dynamic (working) state. This **COST EFFECTIVE** service helps you optimise the performance of your bridge assets:-

- ✚ **A measured in service load capacity** rather than a necessarily conservative desktop analysis can obviate the need for complete rehabilitation.
- ✚ The **DBTS™ report** provides specific rehabilitation strategies to precisely target and minimise the cost of repair.
- ✚ **A specific remedial strategy** in the report details options for repairs, based on price and length of serviceability requirements.
- ✚ **Supplementing visual inspection** with in service testing gives the information you need to optimise your overall asset management program

TECHNOLOGY & EXPERIENCE- Each DBTS™ test engagement is undertaken at the test and reporting stage by one of our principals each of whom have over 25 years in the construction industry and extensive experience in our bridge program.

EXPERIENCE IN USE initially deployed in the evaluation of 200 railway bridges for a British Aid/ World Bank project in Asia the service has been used extensively by Australian Local Government Authorities around Australia with outstanding results.

TIMBER-CONCRETE-STEEL— Our test system has been proven on structures of all types and materials from all timber construction, timber/concrete & timber/steel hybrids through cast iron and even filled masonry arches.

BEST VALUE is assured through the fast cost effective testing regime, no disruption to traffic flows, clear unambiguous reporting, a responsive organisation and an established customer feedback system.

Integrity Testing Pty Ltd

Background

Integrity testing is a long established firm of structural testing consultants; its two founding principals David Tongue and John Higgs first began working together in Asia in the early 1980's.

These two founding principals each have over 30yrs experience in the construction industry and have developed substantial experience in materials and non-destructive testing using traditional techniques and complemented these capabilities by developing a range of specialist tests based on the modified shock test.(For details see www.integritytesting.com.au) These tests have been proven over many years on a wide range of materials and circumstances.

Services & Applications

Integrity offers a broad range of structural consulting and testing services that have been utilised in applications as diverse as location of groundwater ahead of tunnelling activity and the evaluation of deteriorating facades on high rise buildings. Over the years we have developed a number of focussed testing techniques & programs:

- ✚ **Bridges-** a highly cost effective bridge testing service as indicated overleaf and a repair specification & job supervision service that can either assist your team in getting the most effective result from contracting out the repair.
- ✚ **Drains-**using micro-seismic techniques we are able to locate voids in surrounding subsoil that will cause damage to drains -these techniques have been successfully used in major metropolitan drains.
- ✚ **Jetties & Marine Structures-**using similar techniques to those used for bridges we have evaluated a large part of the marine infrastructure in Australia.
- ✚ **Utility Poles** –Our Mod-Shock™ testing system is a highly advanced and economical method of testing of utility poles available and offers significant cost and safety benefits over existing methods.
- ✚ **Buildings & General Construction-** we undertake numerous investigations and provide appropriate rehabilitation and repair recommendations for facades, suspended slabs and foundations etc including Heritage Structures and landmark buildings such as the, late Victorian style, Ipoh railway station Kuala Lumpur. Our extensive materials experience has resulted in our appearance as **expert witness** in several disputes.

Summary

We specialise in helping our clients find innovative, cost effective strategies for the repair and maintenance of their Built Infrastructure Assets. We do this by combining extensive experience as Engineers and Material Specialists with the latest advances in testing and computer technology to provide the answers you need to manage your infrastructure. To find out more please visit our website at www.integritytesting.com.au

For immediate information or quotation phone-0438512171