

BRIDGE REFURBISHMENT CAPABILITY



INCOSPEC 
CORROSION ENGINEERS

Conformance. Compliance. Reassurance





ABOUT US

Since 1981, Incospec have been providing expert consultancy in the field of Corrosion Engineering to all corners of Australia and overseas. We are a wholly Australian owned and operated company.

We have offices in Brisbane, Sydney, Darwin, Melbourne and Adelaide. When retaining Incospec to undertake inspections and analysis, you are retaining the largest team of full time coating inspectors and consultants in Australasia.

Our experience in the industry has repeatedly proved to us and our clients that independent coating inspection is a value-adding exercise that ensures that our clients durability expectations are met and exceeded.



INDEPENDENCE

A fully-independent organisation, Incospec is not aligned to any coating supply or application companies. This gives us the opportunity to offer totally unbiased advice. We are also able to use this independence in areas of conflict resolution and failure analysis.



ACCREDITATION

Incospec coating division is a **NATA** accredited Inspection Company (no. 19849), subject to audit and evaluation by this esteemed body.

All of our Coatings Inspection and consultants are trained to the **NACE CIP** standards of accreditation. We are also a registered corrosion consulting group with the Australasian Corrosion Association.



Experience. Independence. Excellence



PROJECT CAPABILITY

Independent Coating Inspection

Condition Assessment

Repair Prioritisation

Specification Development

Specialist Access

Failure Analysis

Contractor Auditing

Inspection and Test Plans

Training

Expert Witness

> TESTING CAPABILITY

Surface Preparation

Surface Profile inspections

QA/QC System auditing

Dry Film Thickness testing

Continuity Testing

Cure Testing

Wet Film thickness testing

Concrete Cover depth

Chloride Ingress

Surface Contamination testing

Equipment Auditing

Environmental readings

Adhesion testing

Abrasive media testing

Hardness testing

Moisture testing

Concrete Carbonation



Qualified. Analysed. Certified



> SPECIALIST ACCESS CAPABILITY

Incospec and its partners are proud to offer drone inspections and photography for coating and condition assessment/survey projects.

Utilising RPAs (Remotely Pilot Aircraft) allows us to inspect assets in a safer, faster and more cost-efficient way. UAVs or 'drone' technology has moved very quickly over the last few years and is now becoming a commonplace technology for undertaking condition assessments, sampling, scanning and commercial photography.

The benefits of using drones for certain projects include:

- Reduced OH&S risks for staff
- Faster setup times
- Faster survey times
- Reduced client costs for scaffolding/EWP/Rope access teams
- Ability to continue work during poor weather conditions
- Improved access and perspectives to assets
- Significant increase in types of data that can be collected such as:
 - Thermal imaging
 - Volumetric calculations
 - Surface modelling/contouring
 - 3D modelling
 - Air/water/soil sampling



BRIDGE PROJECTS

THE ALBERT BRIDGE (QLD) 2016

The Albert Bridge is a heritage-listed railway bridge of steel truss design crossing the Brisbane River, Queensland. The bridge links Indooroopilly and Chelmer stations, and has two long spans with one central pier.

The structure consists of two spans supported by masonry abutments and a central concrete pier that is encased in an iron caisson.

Incospec have been engaged to provide full-time inspection services for the maintenance painting of the Albert Bridge.



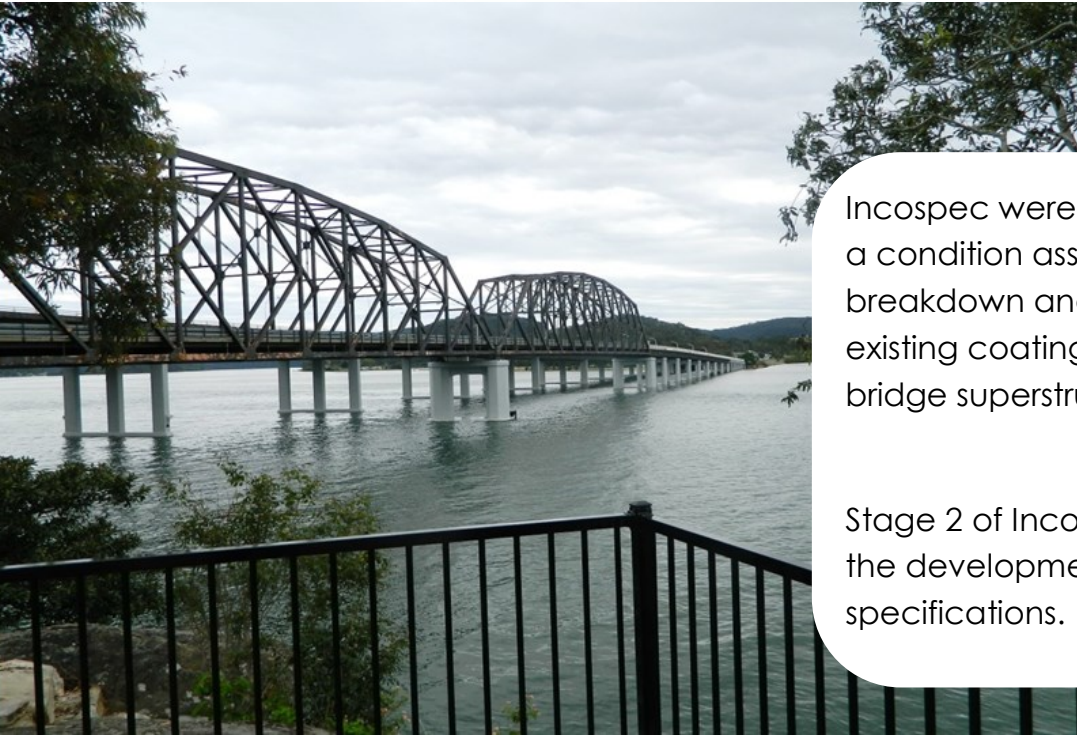
WEST LAKES FOOTBRIDGES (SA) 2016



Two footbridges at West Lakes required significant maintenance where the steel protective coating and paint system required local repairs to ensure it will extend its useful life. Incospec were engaged to provide a coating repairs specification and inspection of the painting applied onto the handrails.

BRIDGE PROJECTS

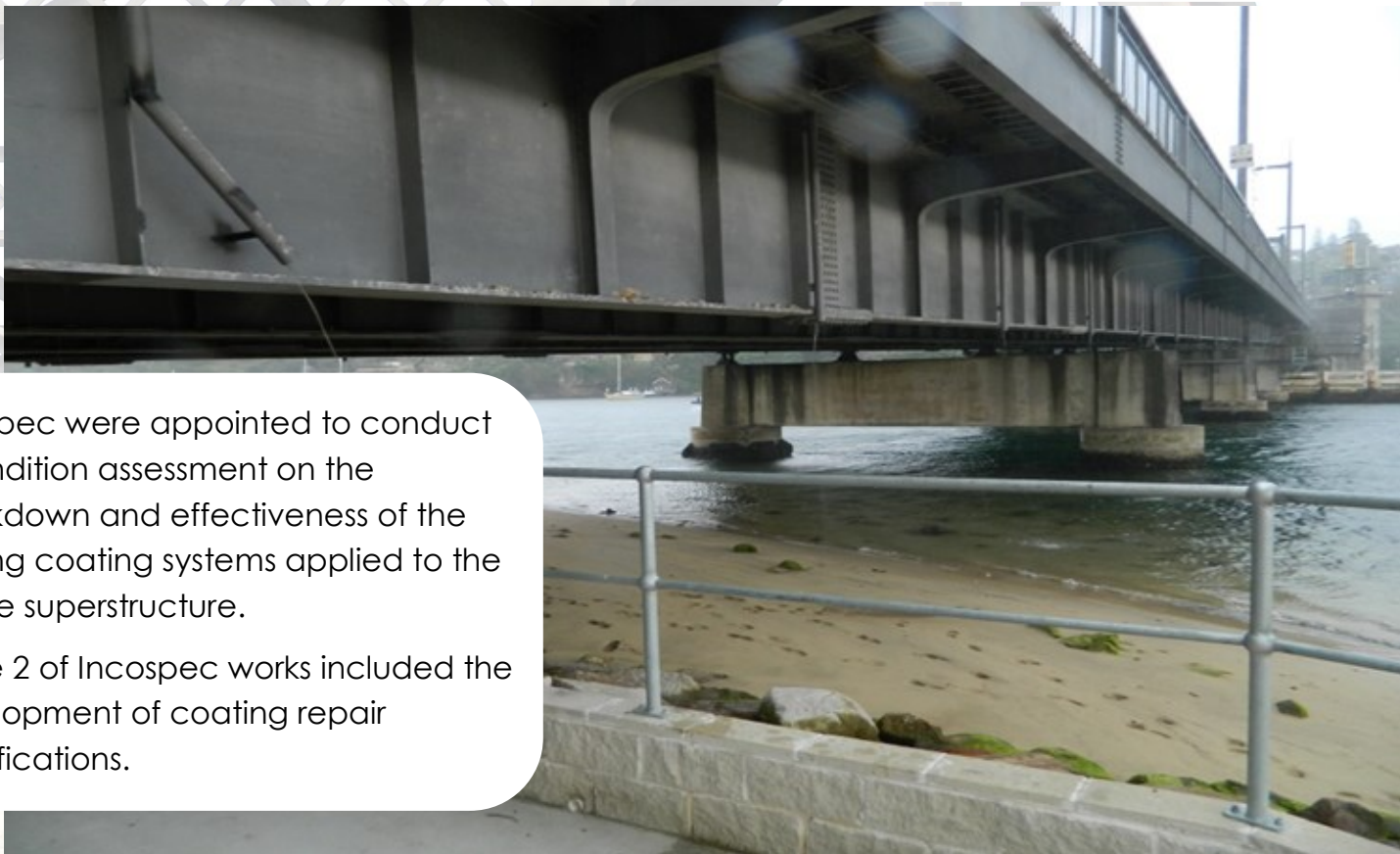
PEATS FERRY BRIDGE (NSW) 2014



Incospec were appointed to conduct a condition assessment on the breakdown and effectiveness of the existing coating systems applied to the bridge superstructure.

Stage 2 of Incospec works included the development of coating repair specifications.

SPLIT BRIDGE (NSW) 2014

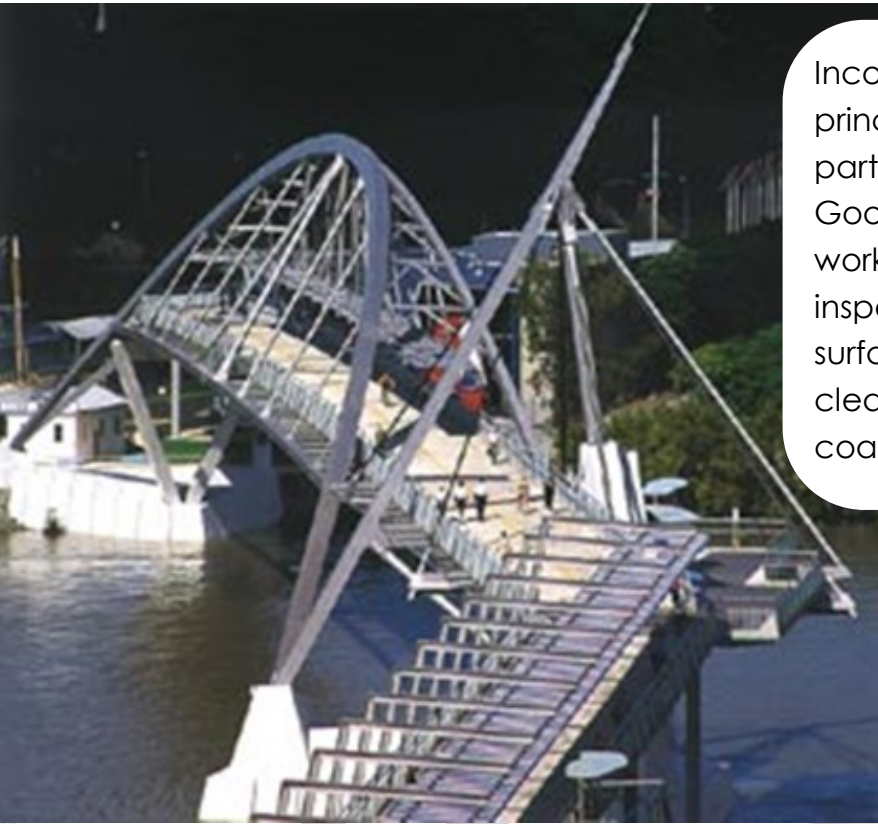


Incospec were appointed to conduct a condition assessment on the breakdown and effectiveness of the existing coating systems applied to the bridge superstructure.

Stage 2 of Incospec works included the development of coating repair specifications.

BRIDGE PROJECTS

GOODWILL BRIDGE (QLD)



Incospec were engaged by the principle contractor to conduct third party coating inspection to the Goodwill Bridge coating maintenance works. The scope consisted of inspection and testing included surface defect identification, surface cleanliness, DFT recordings of existing coating and applied coatings.



ALBERT BRIDGE (SA) 2013-2014

Working with the Heritage Architects, Swabury Penglase, Incospec undertook several project stages on the Albert Bridge, an iconic heritage structure of over one hundred years which crosses the Torrens River in Adelaide.

- Condition Assessment of above and below road/deck level coating systems to determine scope of required repairs
- Development of Coating Specifications for above and below deck bridge elements
- Provision of third party coating inspection during preparation and repainting works



BRIDGE PROJECTS

PATAPINDA BRIDGE (SA) 2015



Incospec were engaged by the Coating Contractor to conduct third party coating inspection during the Patapinda Road Bridge coating maintenance works.

The bridge is over 80 years old and provided challenges to the Project Team due to the presence of the original lead based coatings which required full removal and preparation to an Sa2.5 class blast, before the application of a zinc phosphate/epoxy/polyurethane coating system. We expect the newly applied system to provide 25 years durability until its next required maintenance.

CONTACT

Incospec Pty Ltd

Head Office

Level 1,
86-88 Melbourne Street
North Adelaide SA 5006

Postal

PO Box 7069
Hutt Street
Adelaide SA 5000

National Toll Free

1300 721 029

tel +61 8 8267 4744

fax +61 8 8267 4434

mail@incospec.com.au

www.incospec.com.au

ABN 93206390840



Adelaide. Brisbane. Darwin. Melbourne. Sydney

Metallurgy & Materials Consulting

3rd Party Welding Inspection

3rd Party Coating Inspection

Corrosion Consulting

Cathodic Protection

Investigation & Failure Analysis