

CTI Consultants Pty Ltd

Materials and Environmental Investigations

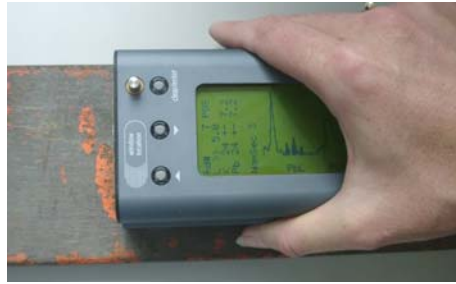
ABN 56 003 824 815

CTI CONSULTANTS was formed in 1987 to provide specialised consulting services. Our clients are the construction, asset and infra-structure management, building maintenance and allied industries throughout Australia, with offices in NSW, Victoria and Tasmania.

Areas of expertise include protective coatings, lead paint management, corrosion and metallurgy, concrete condition assessment and repair, waterproofing, material selection and cathodic protection.

CTI has also developed expertise in environmental and occupational health. We design and conduct contaminated site investigations, especially where paint is a source of contamination, and carry out assessments of houses and buildings for lead.

CTI can provide occupational risk assessment, exposure monitoring, hygiene recommendations, inductions and training for lead abatement, paint application and many aspects of general construction and maintenance.



XRF Lead Paint Analyser



Reid Park Aqueduct – Coating assessment and repair specification



Wolli Creek Aqueduct – Lead Paint Management (specification and environmental monitoring)



Wallerawang Power Station – concrete condition assessment

Directors:	Fred Salome Carol Bodle	B.Sc. (Hon.) B.Med.Sc. (Hon.), M.App.Sc. (OH&S), Grad.Cert.Ind.Hyg.Sc.
Associates:	Bill McEwan Don Bartlett David Stitt	Dip.App.Chem; Dip. Met FRMIT (Chem Eng) ARMIT (App Chem) ARACI MIE (Aust) CP Eng Ph.D., B.Sc.(Hon.)
Coating	Robert Sutcliffe	ACA Accredited, Certificate No. 1845F
Inspectors:	Johann Nesper	ACA Accredited, Certificate No. 1483F

CTI Consultants Pty. Ltd.

For more information, contact:

Head Office (Sydney)

Directors:

Fred Salome (0418 276 819)

fred@cticonsultants.com.au

Carol Bodle (0418 207 106)

carol@cticonsultants.com.au

4 Rothwell Avenue,

Concord West NSW 2138

PO Box 153,

North Strathfield NSW 2137

Ph: (02) 9736 3911

Fax: (02) 9736 3287

Melbourne Office:

Manager: Don Bartlett

24 Verene Avenue

Lower Templestowe Vic 3107

Ph/Fax: (03) 9850 7407

Mobile: 0413 126 753

Email: dbartlet@melbpc.org.au

Hobart Office:

Manager: Bill McEwan

10 Wandella Avenue,

Taroona Tas 7053

Ph/Fax: (03) 6227 8926

Mobile: 0419 337 406

Email: bill@cticonsultants.com.au

Or visit

www.cticonsultants.com.au

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CTI Consultants Pty Ltd

❖ Coatings Technology

Coating recommendations, specifications and supervision. Product evaluation and failure investigations. Formulation and development of specialised coatings, waterproofing membranes and treatments and epoxy compounds. Lead paint investigations, monitoring and removal techniques.

❖ Lead Paint Management

Project design, including full environmental background monitoring, compliance with environmental safeguards and development and implementation of OH&S monitoring programs. Field and/or laboratory testing for presence of lead including portable XRF technology, coating condition surveys and abatement specifications. Provision of BCCA-endorsed training courses.

❖ Specialised Coatings Testing

Specialised laboratory and site testing for performance and physical properties including film thickness, adhesion, elongation, tensile strength, weathering and cathodic disbondment.

❖ Corrosion and Metallurgical Studies

Metalurgical investigations on steel, cast iron, stainless steel, aluminium and other alloys. Surveys for extent of corrosion and coating condition on cast iron and steel structures. Surveys for corrosion of steel in concrete. Provision of maintenance recommendations and specifications.

❖ Concrete Technology

Selection, specification and quality assurance of concrete materials. Development of specifications for concrete to meet strict performance criteria.

❖ Concrete Condition Surveys

Inspection and survey of concrete structures for concrete condition, including surveys for visual defects, soundness, half-cell corrosion potentials, cover, resistivity, chemical analysis (carbonation, chloride content, sulphate content, cement content, etc.); petrographic analysis (air entrainment, AAR, SCM's) and physical properties (compressive strength, modulus of elasticity, sorptivity, permeability).

❖ Concrete Repair

Specification and supervision for repair of commercial and industrial buildings and floors, bridges, pavements and other structures. Development and evaluation of repair products and systems.

❖ Specialised Concrete Testing

Specialised studies of thermal and physical characteristics of concrete and grout systems. Specialised laboratory and site testing for thermal, stress and strain characteristics, compressive strength, modulus of elasticity, carbonation rates, water permeability and section properties.

❖ Environmental Studies

Contaminated site investigations and remediation programs; underwater sediment assessments; air quality assessments and monitoring of particulate emissions to air.

❖ Occupational Health and Safety

Specialising in OH&S aspects of abrasive blast cleaning and protective coating industry, such as hazardous paints, organic solvents and chemicals. Hazard identification, risk assessments, exposure monitoring and site safety inductions for lead work.