

TRISTAN SALTER

CIVIL & STRUCTURAL ENGINEER



CONTACT

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Tristan has been part of the RSA team since mid-2008 and graduating from Curtin University in 2012. His experience includes forensic investigation of failed structures and developing remedial engineering solutions for clients. Other significant project experience has incorporated work on timber and concrete structures, geotechnical investigation and site soil classifications and debris impact testing.

Tristan completed his Honours Thesis on small cyclonic windborne debris, and went on to design and construct an air cannon to meet AS/NZ 1170.2:2011 for small cyclonic debris. This cannon continues to be used by RSA for spherical steel ball testing.

PROJECT HIGHLIGHTS

Aspen: Review Drainage and Undermining at Village Karratha

Stop the undermining of the central facility at the Karratha Woodside Village. Provide review of structural integrity of the footings near undermining. Provide remediation design of overland drainage to prevent water from re-entering the cavity under the building.

T.L.M Transport: Stormwater Sump Design

Review of watershed and run off generated. Provide calculations on stormwater runoff vs infiltration. Provide certified design for council approval.

Mephalene Rust Control: Retrospective Approval, bitumen hardstand & Drainage design

Review existing emulsion pavement design. Review newly (unauthorised) stormwater network. Providing retrospective 1:100 year stormwater design certification. Provide retaining and bank stabilisation for rear boundary. Provide certified designs for council approval.

Instant Waste Management: New Build, Full Design

Design concrete slab on grade to withstand acid, heavy front end loader & steel tracked equipment. Pavement design for heavy vehicles and semi-trailers: Concrete, Emulsion, Limestone. Drainage design for all pavement types.

AREAS OF EXPERTISE

- Wind and cyclonic design
- Engineering design of transportable and modular buildings and accommodation villages
- Design and remedial repairs to concrete structures
- Existing concrete structures and repairs, and concrete mix design
- Investigations into concrete structure failures, building and civil works
- Building and design of special or complex concrete structures
- Concrete and related materials technology
- Geotechnical and related investigations
- Forensic investigations
- Timber structures

QUALIFICATIONS

Bachelor of Engineering
(Civil and Construction) (Hons) –
Curtin University

Member of the Institution of
Engineers Australia (MIEAust Eng)

