



**Name:**

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**Areas of expertise:**

Slope stability; Soil nails; Residual soils; Geotechnical modelling; Unsaturated soils; Data management; Computer programming; Various software including GeoStudio, GRLWEAP, gINT, Core-GS, Strater, Surfer, AutoCAD and ArcMap

**Qualifications:**

- BEng(Civil) First Class Honours, 2012, Queensland University of Technology
- Certificate III in Engineering – Technical, 2007, TAFE NSW

**Professional Memberships & Affiliations:**

- Graduate member of the Institution of Engineers, Australia (GradIEAust)
- Member of the Australian Geomechanics Society (AGS)
- Member of the Australasian Tunnelling Society (ATS)

**Employment History:**

**Foundation Specialists Group, Brisbane, Australia**

July 2014 to current – Geotechnical Engineer

**Sinclair Knight Merz, Brisbane, Australia (acquired by Jacobs - December 2013)**

2012 to 2014 – Graduate and Undergraduate Geotechnical Engineer; plan and undertake site investigations, develop geotechnical models and perform calculations for a variety of scenarios including slope stability and stress deformation analysis.

**Tricend Design & Engineering, Byron Bay, Australia**

2007 to 2012 – Civil and Structural Designer / Drafter; Advanced drafting and plan production for roads, subdivisions, residential and light commercial buildings. Regular liaison with clients and local government.

**Selected Projects:**

**M1 Exit 54 Coomera Interchange Upgrade**

Geotechnical Engineer. Design and reporting for various working platforms and temporary slopes. Working platforms included sheet piles beyond the crest of an existing embankment for piling rig access.

**Hawkesbury River Underbridge Repair**

Geotechnical Engineer. Cofferdam seepage analysis and hydraulic heave design.



### **Norman Creek Pedestrian and Cycle Bridge**

Geotechnical Engineer. FSG was engaged to provide economical and safe working platform designs in very soft mangroves when pile locations were found to be unintentionally in the water. Finite element stress deformation and limit equilibrium analysis was performed for combined pile and geogrid reinforced working platform structures.

### **Babinda Creek Train Bridge Replacement**

Geotechnical Engineer. Driveability analysis for octagonal prestressed concrete piles, highlighting potential savings on pile length and piles running under hammer weight near the start of driving.

### **Icon Milton; G.H. Development**

Geotechnical Engineer. Plan, undertake and report on site investigation for twin 20 storey residential towers and 4-5 level basement. Design parameter and constructability recommendations.

### **Oro Bridges PNG; Canstruct**

Geotechnical Engineer. Design checks for unconventional driven pile installations through significant boulders and heavily constrained by plant and material availability.

### **Confidential site**

Geotechnical Engineer assisting Expert Witnesses. Analyse piled foundation movements and produce vector drawings versus time. Global stability calculations for temporary sheet pile walls.

### **Brown Street Bridge, Caboolture; Hazell Bros**

Geotechnical Engineer. Bored pile inspections in high strength sandstone. Log and report on additional boreholes drilled due to deficiencies in the original investigation.

### **Moreton Bay Rail; Thiess**

Site Engineer. Perform Pile Integrity Testing (PIT) onsite and issue test reports.

### **Yeppen South Project; John Holland**

Geotechnical Engineer. On site bored pile inspections for a 100 m long bored pile wall.

### **Confidential site**

Geotechnical Engineer assisting Expert Witness. Rainfall analysis, unsaturated stability modelling and reporting for a retaining wall failure.

### **Bruce Highway Upgrade (Cooroy to Curra) Section C; Queensland Transport and Main Roads**

Geotechnical Engineer. Arch and bridge options comparison, finite element stress deformation analysis. Production of geological sections projecting prior investigation onto new project alignment. Data management of field information and GIS data including advanced database design and subsequent queries. Preparation of Factual Report on geotechnical investigation for structures.

### **Enoggera Training Area and Ranges Program; Department of Defence**

Geotechnical Engineer. Site investigation, factual and interpretive reporting including test pit supervision and DCP testing for upgrades to existing army base roads.

### **Safer Roads Sooner; Queensland Transport and Main Roads**

Geotechnical Engineer. Drilling supervision, concept and detailed design for several curve widening sites on the Kennedy Highway. Challenging designs included combined soil nail and gabion walls founded on existing embankments.

### **Koo Wee Rup; VicRoads and Lend Lease**

Geotechnical Engineer. Embankment design checks including stress deformation analysis founded on alluvial clay.

**Far North Transport Network Reconstruction Program (TNRP); Queensland Transport and Main Roads**

Geotechnical Engineer. Assessment and remedial designs for various landslip sites in the Cairns region. Back analysis combined with limited-access site investigations and testing regimes to rationalise design material parameters. Designs included: passive rock dowels; soil nails; and gabion walls in various geological conditions including colluvium and failed fill embankments.

**Gateway Upgrade South Busway Upgrade South (GUSBUS); Queensland Transport and Main Roads**

Geotechnical Engineer. Desk study interpretation of historical laboratory testing records and contemporary ground investigation in an area of concentrated development. Slope stability modelling for Gateway Motorway lane widening and Busway extension. Pile monitoring.

**Sarina Water Recycling Facility; Mackay Regional Council**

Geotechnical Engineer. Provide geotechnical advice on the extent and depth of required excavation and engineered fill thicknesses on an alluvial plain. Assess earthworks tenders and material suitability.

**GS1b Mine Water Dam; BHP Billiton Mitsubishi Alliance**

Geotechnical Engineer. Statistical analysis of laboratory test results. Seepage and slope stability analysis for various dam sections. Development of three-dimensional slope stability models for acute corners.

**Technical Papers:**

Priddle, J., Lacey, D., Look, B. and Gallage, C. (2013) "Residual Soil Properties of South East Queensland," Australian Geomechanics, Vol 48 No 1, pp 67 – 76