



THOMAS DALE

Geotechnical Manager

EDUCATION

University of
Wollongong (BE)

Bachelor of
Engineering (Honours)

Institution of
Engineers Australia,
MIEAust

LANGUAGES

English

CONTACT

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PROFILE

Thomas Dale is a practising Geotechnical Engineer and leads the Alliance Geotechnical consulting team. He has 11 years' experience in the civil consulting sector with a focus on construction phase services, geotechnical investigations, and Project Management. Since commencement with Alliance Geotechnical in 2011, Tom has helped to develop and sustain a successful and experienced team of engineers and geologists.

His typical responsibilities cover the engineering team's oversight with strategic planning, personnel development, and operations direction. This includes managing the risk and quality for on-time and on-budget execution of engineered outputs through clear communication and coordination. He also has significant experience with business development and client relationship management.

AREAS OF EXPERTISE

- Geotechnical Engineering
- Foundation and Retention
- Construction phase inspections
- Monitoring
- Instrumentation
- Earthworks
- Site Investigation
- Project Management

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EXPERIENCE

CPBDJV, FERRY CARRIG, DIONA, VAUGHAN CIVIL, QUICKWAY, GARDE, JONISHAN | PARRAMATTA LIGHT RAIL | NSW

- AG are providing construction phase services (CPS) to multiple contractors on the project including the main client CPBDJV. CPS services include pavement design over shallow utilities, excavation stability assessments, piling and crane platform assessment, test pitting to finalise design of retaining walls, boreholes for detailed design and input on temporary structure design. Tom has an operations role on the project, coordinating the CPS engineers, financial, client management, staff technical training and review and safety issues.

GRANSOLAR DESARROLLO Y CONSTRUCTION SL | SOLAR FARMS AT HILLSTON, PARKES AND MOLONG | NSW, WINTON VIC AND CHINCHILLA QLD

- AG has undertaken geotechnical investigations and reports for five sites in NSW, Victoria, and QLD. Tom was the Operations Manager for the investigations and report and over seven solar projects established a solid relationship with the client GRS DYC. Investigations comprised of 3-12 day fieldwork programs with borehole and test pit investigations with an array of in-situ and specialised laboratory testing. Key technical issues were to refine the borehole and test pit coverage of the sites, assessing the soil properties and depth of disturbance for the design of driven H and C pile foundations for uplift and lateral loads in particular. Tom also attended technical meetings with Spanish based tracking manufacturer PVH to optimise pile design as these sites generally have 40,000 driven piles installed to support the PV. Reporting covers inverter and substation structures as well as internal access roads and transmission lines (above and underground)

SYDNEY WATER | CASCADES DROUGHT RESPONSE AND DESALINATION PROJECT AUGMENTATION (DESAL 2)

- Geotechnical investigation at 8 Sydney Water Reservoir sites across the Blue Mountains for facility upgrades for Cascades to increase drought resilience of the network. Plus, a geotechnical investigation along 7km of a 1.8m DIA delivery main and a 50ML buffer storage tank and pump station to increase the pipeline capacity to a nominal 5000ML/Day for the Desal 2 scope. All fieldwork and reporting reviewed by Aurecon/Arup (SWC planning partner). Tom quoted the project and negotiated the contract, coordinated the investigation and reporting, and resolved external review comments and ensured project delivery on time.

DOWNER | GARDEN ISLAND, NSW | HV FEEDER

- This project consisted of two separate geotechnical investigations for a proposed HV line extending into the Garden Island military base. Although the project only comprised 6 boreholes, the project conducted for Downer was particularly challenging to get started with Lend Lease and Military WHS and clearances to be obtained prior to drilling. The investigation included thermal resistivity laboratory testing and 2 road occupations.



EXPERIENCE

SYSTEMS CONNECT (CPB/UGL) | SYDNEY METRO LINE WIDE WORKS | NSW

- Tom was and continues to be the Project Manager for multiple geotechnical investigations within the Sydney Metro Line Wide Works for Systems Connect. These include a new substation in Artarmon, thermal resistivity investigations for HV feeder routes in Surry Hills, Campsie and Artarmon, and trackside investigations along the Bankstown line. Tom negotiated the contract with CPB to provide ongoing geotechnical services for the project. These recently have included 2 rail shutdown weekends with CPS supervision provided by 4 geotechnical engineers. Tom attended design meetings with Ausgrid for HV feeders, organised night works within Surry Hills during peak pedestrian periods and coordinating rig access into live rail corridors.

DIONA | POWELLS CREEK BANK RENEWAL | NSW

- Tom was the Project Manager of the geotechnical investigation for the Sydney Water Corporation Powells Creek Bank Renewal project. The project included multiple investigation methods utilising CPT, auger/SPT, coring, groundwater data logging and DCP along with challenging site conditions and access constraints. Tom's role included determination of the scope, cost estimation, onsite supervision, attending design meetings, analysing field data, project, and technical management of the geotechnical investigation.

LANDMARK | FOUR MULTI-STOREY TOWER DEVELOPMENT | MERRYLANDS, NSW

- A 2 staged construction of four 11 storey residential towers each with 3 to 4 levels of basement. This project included a comprehensive geotechnical investigation, collaboration with a hydrogeologist and structural engineers for drained basement design, construction phase inspections for excavation stability and foundations. Construction monitoring comprised 1 year of inclinometer, vibration, and groundwater monitoring for the 12m deep, 100m long excavation for a shared basement which was adjacent to a Sydney Train boundary.

UGL/UEA | SHOALHAVEN RECLAIMED WATER MANAGEMENT SCHEME | SHOALHAVEN RIVER UNDERBORE, NSW

- Tom was the Project Manager for the detailed design stage site investigation for a 1.6km HDD bore under the Shoalhaven River. The role included coordinating both barge and land based site drilling. Boreholes drilled from the barge extended to 60m depth through cobble layers prior to bedrock coring. As well as organising the field engineers, office team, multiple subcontractors, contractual obligations, financial and commercial activities associated with the large scale investigation.



EXPERIENCE

DYLDAM | MULTI-STOREY UNIT DEVELOPMENT | MERRYLANDS, NSW

- The geotechnical investigation, design review and construction advice associated with an 18-storey mixed use building with four levels of basement parking. The site had challenging hydrogeological conditions with the proposed basement to be constructed adjacent to a large stormwater culvert built in place of a previous creek. The reporting process required managing the interdisciplinary communications and design process with developer, piling contractors, builder, structural engineers, and storm water engineers.

NACE CIVIL | ALFORDS POINT ROAD UPGRADE, ROCK CUTTING STABILISATION | NSW

- This project comprised supervision and direction of rock cutting stabilisation as part of a 2.1km lane widening project for the RMS. Tom was the Project Engineer and was responsible for determining an appropriate schedule of inspections, geological mapping and construction methodology as well as liaising directly with RMS engineers on behalf of AG's client. The project involved controlling the risk of rock collapse, wedge failure or localised instability onto a majoring RMS arterial road. This included stabilising two 18m high sandstone cuttings with a combination of rock bolting, shotcreting, scaling, grooming, air and water blasting and drainage. The advice on bolting locations and shotcreting was undertaken with review and input from an RMS geotechnical engineer.

WARD CIVIL | NORTHERN BEACHES HOSPITAL | NSW

- Tom was the Lead Geotechnical Engineer for the civil works of the new Northern Beaches Hospital. The geotechnical aspects of the project included bearing capacity and piling platform assessments, bulk earthworks and material specification control, batter stabilisation and excavation stability. Aside from the fieldworks themselves, Tom was also responsible for all financial and client management elements of the project and helped see it completed ahead of schedule.

LEND LEASE, DIONA, KILLARDS, VEOLIA, RA SMITH CONTRACTING AND AUSTRALIAN WATER | NORTH WEST GROWTH CENTRE (NWGC - PACKAGE 2 AND 3A)

- The NWGC comprised the construction of approximately 30km of pressure, carrier, and lead in mains throughout Sydney's North West. The major infrastructure was rolled out to support the growth of Box Hill, Schofields, Alex Avenue, North Kellyville, and Riverstone precincts. As Project Geotechnical Engineer Tom was responsible for supervising and maintaining the stability of all the onsite excavations, ranging from 12m pump station wet well excavations to deep sandstone trenching cuts. As well as providing on-going geotechnical and construction advice for the various elements of the project.