



EDUCATION

**BSc (Hons),
Engineering Geology
and Geotechnics**

**Chartered
Professional Engineer
(MIEAus) (Civil)**

**National Engineer
Registration (NER);
APEC Engineer IntPE
(Aus)**

**Chartered Geologist
(UK) (CGeol); Fellow,
Geological Society of
London (FGS)**

**Justice of the Peace
(JP)**

**RMS (RTA) Slope Risk
Assessor**

LANGUAGES

English
Basic French

CONTACT

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alliance

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MARK GREEN

Principal Geotechnical
Engineer

PROFILE

Mark has over 38 years' experience in the geotechnical and engineering geological investigation and assessment of a wide range of sites, including civil engineering / site development, contaminated land / landfill, highways, airports, power/ energy, canals/ waterways, reservoirs, pipelines, tunnels, and new & historic building works.

This has included road, rail and building construction contracts. He is a Chartered Professional Engineer (Civil) and Chartered Geologist. He regularly acts as a scrutineer for the Geological Society for prospective CGeol candidates.

AREAS OF EXPERTISE

- Geotechnical Engineering
- Slope Stability
- Construction Phase Services
- Project Management



EXPERIENCE

ALLIANCE GEOTECHNICAL ENGINEERING PTY LTD

- Mark is jointly responsible for preparation of proposals, business development, client relationships, review of reports and project management. He undertakes slope risk assessments and assessment of pavement formation treatment options.

NSW NATIONAL PARKS & WILDLIFE SERVICES | MIDDLE & GEORGES HEAD | MOSMAN NSW

- Investigation and slope instability risk assessment for five military heritage sites at steep sea cliff locations within Sydney Harbour. Consideration of cliff regression and remedial options for the upgrading of the various sites, looking to improve access for all.

STORM CONSULTING | ALEXANDRA CANAL | TEMPE NSW

- Desk study, gapping study, management of further ground investigation, reporting and construction support services for remediation of degraded canal bank, partially tidal, close to Sydney airport.

PRIVATE OWNER | ROBNEY ST | MASCOT, NSW

- Mark has investigated the issues leading to catastrophic collapse of a single-storey building adjacent to a 2-level basement development in sands with shallow groundwater. The adjacent development was not investigated, designed or constructed competently and hence led to loss of ground and collapse. A preliminary expert report was prepared by Mark.

PERISHER BLUE | MT PERISHER SKI LIFT | NSW

- Mark has undertaken field mapping and investigation for the proposed upgrade of the lift on this popular ski run. He has prepared the report providing pertinent information on the ground conditions and slope instability risk assessment.

GEORGES RIVER COUNCIL | CONNELLS POINT ROAD | CONNELLS POINT, NSW

- Unauthorised earthworks on this site led to slope failure undermining a swimming pool. Other areas were close to failure or otherwise unmanaged. Mark provided urgent Geotechnical Expert advice on priority remedial solutions and on the recommended way forward. A formal AGS slope instability risk assessment was prepared by Mark to justify the concern and quantify the remnant risk.

UNITING CARE – MULTIPLE AGED CARE FACILITIES | ASSET INSPECTION AND INVESTIGATIONS | NSW

- Mark provided project management, scoping determination and report reviews for the inspection and investigation of fifteen sites around NSW for Uniting. Scope included ground investigation, preliminary waste classification, risk of asbestos in the ground and buried utility mapping.



EXPERIENCE

EXPERT ADVICE TO AWABAKAL ABORIGINAL LAND COUNCIL | WEST WALLSEND | BUTTERFLY CAVE, NSW

- Mark provided expert opinion on the geotechnical and hydrogeological advice on the effects of the proposed adjacent development in response to earlier geotechnical reports by others. Ground borne vibration and the effects of the development on the surface hydrology and subsurface groundwater all have the potential to damage the protected cave, jointly and severally.

PRIVATE CLIENT | PARKSIDE DRIVE | KOGARAH BAY, NSW

- Following on from earlier reporting primarily on slope risk assessment, Mark served the client as an Expert Witness. As the Geotechnical Expert, Mark helped secure DA for the proposed development following initial rejection by council.

MOUCHEL CONSULTANTS | RMS HIGHWAY ROCK SLOPE STABILITY ASSESSMENTS | GT WESTERN HIGHWAY AND M1 MOTORWAY, NSW

- Site walkover and Slope Risk Assessment conducted on two sections of slope along the Pacific Highway and one on the Great Western Highway. The slopes comprised steep rock cuts up to 35m high. The assessment was conducted in conjunction with Mouchel International as part of the RMS Stewardship Maintenance Contract. Slope remediation reports were prepared by Mouchel International and reviewed by a Principal Geotechnical Engineer from Asset. Mark has proved an expert review service to Mouchel for their assessment (to RMS Slope Risk Assessment V4) with hands on supervision and on-site verification.

PARRAMATTA CITY COUNCIL | PETER PARADE | OLD TOONGABBIE, NSW

- Following exceptional rainfall, an existing flood protection levee collapsed exposing the adjacent road to risk. PCC invited Mark to work with the team of surveyors and structural engineers to determine the cause of failure and develop remedial solutions. Mark's team undertook site investigation and reporting followed.

PARRAMATTA CITY COUNCIL | 26 PARKES STREET | HARRIS PARK, NSW

- Following exceptional rainfall, "sinkholes" started to appear around an abandoned construction site. The site was an incomplete basement excavation with a temporary shoring system in place for over five years. Degradation of the exposed shale bedrock and incomplete temporary works appeared to have led to the sinkhole formation. Mark was invited to work with the structural engineering team to develop emergency remedial solutions to allow the council assets to be re-opened. Advice on ground investigation and the stability of ground under and around the adjacent residential properties was also given.



EXPERIENCE

UNION FENOSA PTY LTD | CROOKWELL 3 WIND FARM GROUND INVESTIGATION | CROOKWELL, NSW, AUSTRALIA

FEB 2014 TO JUNE 2014

- Project Director for Crookwell 3 Wind Farm GI. The scope of work includes borehole drilling, test pit excavation and a series of geophysical testing across 29 proposed wind turbine locations. Follow-on client development and support in preparing for later phases and construction support.

DOWNER CONSTRUCTION | GOSFORD PASSING LOOPS | NSW, AUSTRALIA

- Mark provided Designers Site Geotechnical Representative (DSGR) support for 1.7km of track which included the provision of two passing loops. He gave expert advice on formation renovations, and on foundation advice for OHW and signal bases and cable crossings.

FIJI ROAD AUTHORITY | VARIOUS PROJECTS | FIJI | SEPT 2013 TO JAN 2014

- Mark provided specialist slope and earthwork advice for various new projects for the Fiji Road Authority (eg the 70km long Dreketi to Nabouwalu Road upgrade from dirt road to full sealed two-lane road including replacement of 14 bridges; supervising and on-site design liaison for the Lomaloma slip, also on Vanua Levu). The consideration of available skills and technologies to selecting pragmatic solutions was key here.