

# *CURRICULUM VITAE*

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**ANTHONY F ABBS**

- DATE OF BIRTH** 21 October 1947
- NATIONALITY** Australian, British
- ACADEMIC BACKGROUND:** BSc (Engineering), Civil Engineering, Imperial College, London University (1969)
- PROFESSIONAL AFFILIATIONS:** National Professional Engineers Register (Australia)  
National Associate of City & Guilds Institute  
Member of Institution of Engineers, Australia  
Member of Institution of Civil Engineers  
Member of Australian Geomechanics Society  
Member of ISSMGE Professional Engineers Register (Australia)
- COUNTRIES WORKED IN:** Australia, United Kingdom, New Zealand, Indonesia, Singapore, Malaysia, Argentina, Colombia, Algeria, Sudan, Saudi Arabia, UAE, Qatar, Kuwait, Japan, USA
- EXPERTISE:** Geotechnical Engineering, Offshore Geomechanics, Piled Foundations, Site Investigation, Shallow foundations, Calcareous Soils, Storage Tank Foundations
- PROJECT EXPERIENCE:**
- Geotechnical consultation and site investigations for various offshore platform and pipeline projects on the North West Shelf of Western Australia, including Agincourt, Bambra, Campbell, Chervil, Cowle, Double Island, East Spar, Gibson/South Plato, John Brookes, Legendre, Linda, North Herald, Roller, Saladin, Skate, Simpson, Sinbad, Stag, Tanami, Victoria, Wandoo and Yammaderry projects.
  - Geohazard studies for Terang Sirasun Development, Offshore Indonesia - incorporating slope stability, seismic and fault studies, liquefaction assessment, stability of pipelines, wells, FSO and subsea installation.
  - Foundation studies and geohazard studies (seismic induced slope instability) for Sadewa gas platform, East Kalimantan Indonesia.
  - Geotechnical and geohazard studies for pipeline routes across Timor Trough in 1500 m water, Abadi field, Indonesia.
  - Review of geotechnical conditions for pipeline construction, West Natuna Gas Pipeline, Indonesia.
  - Geotechnical consultation for foundations and geohazard studies for Gorgon, Chrysaor and Io Jansz gas fields in 200 to 1,300 m water from 1995 to date, offshore Western Australia.
  - Lead Geotechnical Engineer for Risk Assessment and options for remediation, East Java Gas Pipeline, Indonesia
  - Geotechnical analyses for pile installation in 1100m of water, West Seno

- Project, East Kalimantan, Indonesia.
- Geotechnical consultation for Kupe feasibility studies, Maari Project and Pohokura Project, Taranaki Bight, New Zealand.
  - Geotechnical consultant from 1987-1993 to Woodside Offshore Petroleum for Goodwyn A Project, Western Australia, including a period of secondment to the project team.
  - Geotechnical consultation and investigations for offshore facilities in the Browse Basin/ Timor Sea, northern Australia including amongst others Ichthys Elang, Bayu/Undan, Buffalo, Jabiru, Montara, Challis and Skua projects.
  - Geotechnical advice and review for various projects in Bass Strait including Yolla, Minerva and Geographe/ Thylacine.
  - Geotechnical consultation for proposed floating production facilities at Griffin, Woollybutt and Wanaea/Cossack, North West Shelf, Western Australia.
  - Review of existing pile capacity and implementation of remedial measures, North Rankin A platform, 1982 to 1986, Western Australia.
  - State-of-the-Art review of engineering properties of calcareous soils including interpretation and analysis of pile load test data with reference to offshore platforms.
  - Analysis of pile capacities and pile driveability for various offshore platforms in Arabian Gulf, Indonesia, India, Egypt and West Africa.
  - Geotechnical review of investigations and studies for three crude oil tanker SBMs in Algeria.
  - Member of Geotechnical Review Team for BP Tangguh LNG Project, Indonesia.
  - Geotechnical investigation for proposed LNG project, three sites, North West ,Western Australia.
  - Geotechnical consultation, proposed export oil refinery including tanks and process plant foundations, marine loading facilities, East Java, Indonesia.
  - Review of unexpected tank settlements at Mobil Pulau Pesek, PCS Pulau Merbau and SRC Refinery, Singapore.
  - Geotechnical investigations for new LNG, LPG and common user liquid products jetties, North West Western Australia
  - Geotechnical consultation for storage tanks, Kwinana, Burrup Peninsula, Thevenard Island and Geraldton, Western Australia.
  - Geotechnical and seismic hazard studies PTA Plant and Cracker Projects, Merak, Indonesia.
  - Land reclamation studies and foreshore stability, Bahia Blanca LPG Project, Argentina
  - Technical Advisor, various geotechnical investigations and studies, Esso PAC Refinery and Mobil Jurong Refinery, Singapore.
  - Lead Consultant, geotechnical investigations – various chemical plants Pulau Seraya, Pulau Sakra and Pulau Merbau, Singapore.

- Geotechnical review of LNG tank and process plant foundations, Qatar LNG Project, and Ras Laffan LNG Project, Qatar.
- Detailed foundation investigation for refinery expansion project in Balikpapan, Indonesia, including pile analyses, estimates of tank settlements and requirements for ground improvement.
- Consultant, geotechnical investigation, LNG Train, Tankage and Jetty, Bontang, East Kalimantan, Indonesia.
- Geotechnical consultation for a feasibility study for a crude oil terminal, Karimun Island, Indonesia.
- Soils investigations for the Oil Refinery, Crude Oil Terminal and Industrial Port at Yanbu, Saudi Arabia, including assessment of dredgibility, pile capacity in coral deposits, estimates of tank settlements.
- Soils investigations for the Oil Refinery, Steel Works, Methanol Plant and Lube Oil Refinery at Jubail, Saudi Arabia.
- Foundation analyses and construction supervision of new refinery at Canvey Island, UK, including piling, and controlled water test settlement of oil tanks on soft soils.
- Detailed soils investigations for large new LPG projects in Abu Dhabi, Algeria and Kuwait, including analysis of settlement of LPG storage tanks and capacities for jetty piles.
- Review of Pile Foundations for My Thuan Bridge, Vietnam.
- Geotechnical investigations for proposed Collie Power Station and associated water storage dams, Collie, Western Australia.
- Analysis, design, slope stability analysis of large water supply and hydroelectric earth dams in, Iran, South Africa and Argentina.
- Geotechnical studies and consultation during construction, liquor ponds, Rhone-Poulenc Rare Earths Plant, WA.
- Design review, new landfill, Bintan, Indonesia.

**EMPLOYMENT HISTORY:**

Advanced Geomechanics Senior Principal Engineer	2005 – Present:
URS Australia/ Dames & Moore Senior Principal	1987 – 2004:
BHP Petroleum Melbourne Principal Geotechnical Engineer	1985 – 1987:
Dames & Moore London Office Senior Engineer	1973 – 1985:
Sir Alexander Gibb & Partners Assistant Engineer, Dams Section	1969 – 1973:

**PUBLICATIONS:**

Authored and co-authored 22 technical papers on various foundations topics.