



**ENVIRONMENTAL
HAZARDOUS MATERIAL
GEOTECHNICAL
STRUCTURAL & CIVIL**



ABOUT US

25 years of excellence

EI Australia is an Australian-owned, professional services company providing environmental and geotechnical engineering solutions. Our multi-disciplinary team has been providing state-of-the-art solutions in response to challenging hazardous materials, contaminated lands and ground engineering problems on greenfield and brownfield sites both nationally and internationally, for over 25 years.

Over that time, EI Australia has evolved organically into a skilled and qualified team of scientists, engineers and consultants providing a diverse range of works in the fields of Contaminated Land Management and Geotechnical Engineering. These works involve field based activities such as: site inspections, hazardous materials inspections, consulting and reporting, intrusive environmental and geotechnical investigations, soil, vapour, groundwater and surface water sampling, ground excavations, drilling, acid sulfate soil assessments, design and construction of sediment and erosion control measures, supervision of site remediation works, shallow and piled foundation construction and validation sampling and testing from excavations.

With headquarters located in Pyrmont, Sydney, EI Australia is near the hub of Australia's largest city, providing the ability to serve our client base efficiently and effectively. From here, however, we also assist many customers from intrastate, interstate and internationally. To further service our growing client base, EI Australia recently opened its new Wollongong Office in early 2019. Expansion into other locations is planned for the future.

Our Integrated Management System is at the heart of everything we do, and identifies the strategies which EI use to meet the requirements of AS/NZS 4801:2001, ISO 9001:2015 and ISO 14001:2015.



Mars City Pty Ltd has worked with Eric Gerges and his team at EI Australia on many projects for over 15 years. During that time, we have come to rely on their ability, knowledge, advice and professionalism on all aspects of environmental management, contamination issues, management of hazardous materials and geotechnical engineering providing bottom line savings to both Mars and our clients. I would have no hesitation in recommending the services of EI Australia to any prospective clients.

ANDREW SKELTON – PROJECT DIRECTOR MARS CITY PTY LTD



SERVICES

Environmental

In a world of diversity and differing priorities, the health of the environment is one issue that concerns us all. To protect our collective futures, stringent environmental regulations govern responsible behaviour and non-compliance involves significant consequences.

Committed to providing effective and sustainable solutions for a range of contaminated site issues, EI Australia's professional team of earth scientists, geotechnical & environmental engineers are particularly skilled in carrying out adaptive environmental investigations. By maximising the quality of site data during the investigation phase, and employing accelerated analytical techniques, EI delivers greater value while meeting budget and timing targets.

After establishing a clear understanding of project objectives, EI Australia's experienced and innovative technical teams will respond to key priorities, ensuring timely deliverables, quality service and maximum value.



- Contaminated Land Assessment and Management
- Acid sulfate soil (ASS) assessments & ASS Management Plans
- Environmental monitoring (landfills, surface water, UPSS, air quality)
- Preliminary (Stage 1) and detailed (Stage 2) site investigations
- Soil vapour assessments and vapour intrusion risk modelling
- Remediation Action Plans (RAP) & Environmental Management Plans (EMP)
- Underground tank leak assessments and service station investigations & remediation
- Construction Environmental Management Plans (CEMPs)
- Site Remediation and Validation
- Waste Classification Assessments

SERVICES

Hazardous Materials

Throughout much of the last century, building construction involved many materials that are now known to be hazardous to our health and environment. While these materials are no longer in use, they have left a dangerous legacy. When dealing with older buildings, it's not uncommon to encounter hazards like asbestos, PCB's and lead-based paints. Given the risks posed by these materials, WHS legislation dictates specific procedures for their assessment, control and ultimate remediation or removal. Regulations specific to asbestos management involve audits, risk assessment and the creation of asbestos registers and comprehensive management plans.

EI Australia's' expert team of licenced assessors have extensive experience in the management and control of these hazardous substances and provide the specialised services to help our clients comply with all regulatory requirements.



- Asbestos and Hazardous Materials Assessments and Risk Registers for all industry verticals – residential, commercial, industrial, demolition, health care, mining to name a few
- Qualitative health risk assessments
- Asbestos management plans
- Asbestos clearance inspections
- Asbestos fibre air monitoring
- Hazardous materials remediation action plans
- Project management of hazardous building materials and asbestos remediation programs

SERVICES

Geotechnical

There is a whole world beneath our feet. With complex physics, that still can't be fully predicted and modelled, the ground we stand on can make engineering and design extremely difficult.

EI Australia's geotechnical specialists are recognised for delivering innovative, technically excellent and cost effective, engineering solutions for land management, transport and utilities infrastructure, earth dams, soil slope and rock face stabilisation, remedial works and underground service excavations. Our experience involves engineering solutions for a wide range of geological challenges including land instability, deep excavations in soil and rock, groundwater control, adverse foundation, problematic subgrade conditions and land remediation.

With specialist expertise in Geotechnical Engineering, Engineering Geology, Hydrogeology and Construction Processes, our professional teams are able to limit whole-of-life risks while expediting project completion.



- Site investigation and reporting
- Lot classification in accordance with AS2870-2011 for shallow footing design
- Foundation design and excavation
- Shoring design
- Pavement assessment and earthworks design
- Slope stability and rock face stability studies
- Salinity, thermal resistivity and durability assessments
- Groundwater infiltration and groundwater management
- Geotechnical/ geological hazard and terrain assessment
- Acid Sulfate Soils assessment
- Vibration, settlement and noise monitoring
- Construction QA/QC services
- Construction aggregate, quarry and borrow studies.

SERVICES

Structural & Civil

Underpinning the built environment, structural engineering involves the analysis and design of structures such as buildings, bridges, towers, marine structures, dams, tunnels, retaining walls and other infrastructure to make them safe, serviceable, durable and economical while being aesthetically pleasing.

With extensive experience in structural engineering, civil design, planning and project administration, EI Australia combines leading- edge technologies, with an advanced understanding of the overall construction space, to reduce complexity and minimise risk. Our reputation is founded on our efficient project coordination, meticulous attention to detail and innovative design solutions that deliver practical, and technically excellent, solutions to our client's structural problems.

Our collaborative and proactive approach involves working closely with key stakeholders throughout all phases to optimise a structures' life cycle and maintenance costs.



- Site investigation and reporting
- Structural design and documentation of residential unit tower blocks, town houses, commercial shopping centres, industrial warehouses and residential housing schemes
- Advanced Engineering and Finite Element Analysis
- Temporary and final structural shoring design and documentation
- Post tensioning design and documentation
- Concrete and steel structures design and documentation
- Feasibility analysis and design management
- Tilt-up & Precast design solutions
- Construction phase support
- Structural and Dilapidation Reports



**TAILORED
SPECIALIST
RESOURCEFUL
EXPERIENCED**

EI Australia is committed to providing our clients unmatched service, delivering the best possible outcomes on every project.

This commitment is underpinned by the guiding principles that create the EI Australia edge. Because every project is unique, we tailor our approach to suit. Blending specialist expertise with relevant experience, our teams deliver intelligent, long-term solutions while ensuring the highest standards of customer service and communication.

Resourceful, specialised and focused on delivering the right outcome, our experience ensures the best possible result for you.

Tailored – individual and focused

Specialist – knowledge, expertise and multi-disciplined

Resourceful – leading-edge, innovative, problem solving

Experienced – insight and understanding

25 years



SYDNEY

Suite 6.01
55 Miller Street
Pyrmont, NSW 2009

T 02 9516 0722

E service@eiaustralia.com.au

WOLLONGONG

Suite 101
Level 1, 1 Burelli Street
Wollongong, NSW 2500

T 02 4254 1004

E service@eiaustralia.com.au

NEW ZEALAND

Level 1, 187 Montreal St
Christchurch Central
Christchurch 8011

E service@eianz.co.nz