

Environmental Services

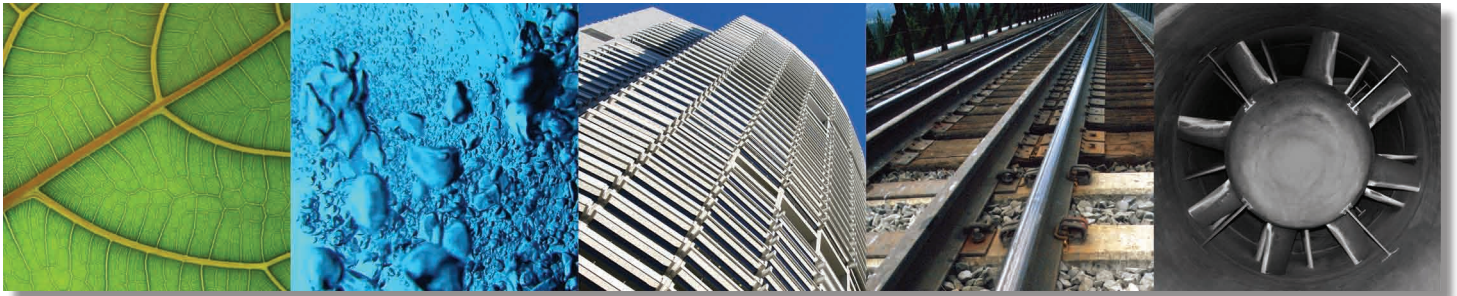
- Noise and Vibration Assessment and Control (Transportation, Industry, Construction)
- Odour and Ambient Air Quality – CO, CO₂, NO_x, SO_x, PAHs, VOCs, Airborne Microbial
- Water Quality – Erosion and Sediment Control, Groundwater Quality
- Hazardous Materials – Asbestos – Heavy Metals – PCBs – TPH / BTEX PAH, etc
- Land Contamination – Fuels Solvents Pesticides – Risk Assessment and Remediation
- Meteorology – Climate Analysis – Remote Monitoring

Engineering Services

- Structural Dynamics, Modal Analysis, Mechanical Design, Shock Isolation
- Noise and Vibration Engineering – Assessment and Control
- Wind Engineering – Computational Fluid Dynamics (CFD) – Natural Ventilation
- Energy Efficiency and ESD – Reflectivity, Lighting and Solar Studies
- Engineering Systems – Safety Engineering – Certification TAMM – Aeronautics
- Communications – EMR, EMC
- Geospatial Information Systems – Project Management – Implementation
- Blast Management Plans, Disposal, Blast Security Modelling

Other Services

- OHS and Occupational Hygiene – Risk Assessment, Management, Systems
- Respirable Dust – SMF – Fumes – Confined Spaces – Heat Stress
- ISO 14001 Environmental, ISO 9001 Quality and AS 4801 OHS Management Systems
- Media Services – Environmental Websites – Public Education – Training Videos
- NATA Laboratory – Analysis, Research and Development Services



SLR Heggies is a multi-disciplined firm of consulting engineers and scientists offering the highest standards of excellence in specialist environmental and engineering services. We apply advanced technology and innovation to manage risks, optimise opportunities and enhance the cost-effectiveness of project management solutions.

Guidance is provided from planning and approvals through to compliance assessment and the ongoing operational stages of transportation, architecture and building, industry and minerals extraction and resource and infrastructure development projects.

The company achieved a significant milestone in 2004 with the acquisition of New Environment Management and Technology, augmenting the company's environmental, hazardous materials and OHS services. SLR Heggies operates under a Quality Management System fully certified to AS/NZS ISO 9001:2008 (SAI Global Licence No. 3236) and has ISO/IEC 17025:2005 NATA Accreditation for its laboratory and for air volume measurement, asbestos fibre counting and identification in bulk samples.

With almost 150 staff, SLR Heggies is one of Australia's largest specialist consultancies with offices in Sydney, Brisbane, Newcastle, Wollongong, Canberra, Melbourne, Townsville, Perth and Singapore. SLR Heggies undertakes projects in all states of Australia, New Zealand, Papua New Guinea, Southeast Asia and the Middle East.

Visit us at www.heggies.com or call **1 300 434 443** to find out more.

Heggies Pty Ltd is a member of the International SLR Group - www.slrconsulting.com

COMPANY BACKGROUND & OVERALL SERVICE CAPABILITIES

ENVIRONMENTAL SERVICES

ACOUSTICAL DESIGN	<ul style="list-style-type: none"> • REF, EES, EIA, EIS Studies – Road, Rail, Aircraft, Industry, Mining • Building Acoustics, BCA compliance • Mechanical Services Noise / Vibration • Construction Noise and Vibration • Environmental Management Plans 	<ul style="list-style-type: none"> • Blast and Explosion Assessment / Control • Silencers, Attenuators, Enclosures, etc • Resilient Mounts, Vibration Isolation Mats, Tuned Mass Dampers • Community Liaison, Expert Testimony, Regulatory Authority Meetings
AIR QUALITY	<ul style="list-style-type: none"> • Outdoor & Indoor REF, EES, EIA, EIS Studies – Industries, Transportation and other sectors • Atmospheric Dispersion Modelling for All Airborne Pollutants and Odour • Monitoring All Major Air Pollutants / Odours 	<ul style="list-style-type: none"> • Design / Operation of ambient Air Quality Monitoring Networks • Indoor Air Quality, Natural Ventilation • AUSPLUME, TAPM, CALPUFF, ISC3, ADMS3 CALINE4, AERMOD, FLUENT (CFD)
WATER QUALITY	<ul style="list-style-type: none"> • Water Quality Monitoring 	<ul style="list-style-type: none"> • Ground Water Sampling
HAZARDOUS MATERIALS	<ul style="list-style-type: none"> • Asbestos: Identification, Monitoring, Fibre Counting, Management, Training 	<ul style="list-style-type: none"> • Contaminated Site Investigations & Surveys, Due Diligence Surveys
SITE CONTAMINATION	<ul style="list-style-type: none"> • Monitoring for Lead, PCBs, Silica, SMFs – All Major Contaminants 	<ul style="list-style-type: none"> • Remediation Action Plans, Remediation Management, Validation Surveys
METEOROLOGY and CLIMATE	<ul style="list-style-type: none"> • Monitoring for a Wide Range of Meteorological Parameters 	<ul style="list-style-type: none"> • Wind Climate Analysis, Extreme Climate Risk Assessments

ENGINEERING SCIENCE SERVICES

WIND ENGINEERING and CFD	<ul style="list-style-type: none"> • Wind Tunnel Testing and Expert Opinion • Full-Scale Testing of Buildings, Bridges 	<ul style="list-style-type: none"> • CFD Simulations Using FLUENT • Natural Ventilation, Indoor Air Quality
SOLAR – ESD ENERGY STUDIES	<ul style="list-style-type: none"> • Energy Efficiency, Energy Audits • ESD, Sustainability Studies • Shadows, Solar Ingress, Reflectivity • Natural Lighting / Lux Level Simulations 	<ul style="list-style-type: none"> • Energy Ratings – NatHERS, BERS, FirstRate, BASIX, AccuRate (Residential Buildings) • ABGR / GreenStar (Commercial Buildings) • BCA Section J Assessments
STRUCTURAL DYNAMICS and MECHANICAL DESIGN	<ul style="list-style-type: none"> • Experimental Modal Analysis • Dynamic Finite Element Analysis • Machine Vibration Surveys • Turbine Dynamics and Monitoring • Vibration Isolation Systems 	<ul style="list-style-type: none"> • Pipe / Pulsation Analysis (PULS) • Pipeline / Valve Acoustic Induced Vibration • Fatigue / Fracture / Stress Analysis • Mechanical Systems Design • ProEngineer, NASTRAN, FLUENT
ADVANCED SYSTEMS	<ul style="list-style-type: none"> • UAV and Aeronautical Studies • Safety MIL-STD 882 and Risk Engineering • Communications • AEO & AMO Certification Systems 	<ul style="list-style-type: none"> • GIS Management/Assessments • Blast Systems & Modelling • Harsh Environments – MIL-STD 810 • EMC Mil-Std 461

OTHER SERVICES

OHS and OCCUPATIONAL HYGIENE PROJECT and RISK MANAGEMENT	<ul style="list-style-type: none"> • (Certified) OHS Surveys, Audits • Technical Due Diligence Surveys • Ergonomic and Workplace Assessments • Project Management Services 	<ul style="list-style-type: none"> • OHS Management Systems and Training • RF Accumulation & Testing • Risk Studies to AS/NZS 4360 and SAFETY • Health and Toxicology Studies
LABORATORY and R&D SERVICES	<ul style="list-style-type: none"> • NATA-Accredited to ISO 17025 – Air Volume Sampling, Asbestos Fibre Counting, Asbestos Identification • Research and Development 	<ul style="list-style-type: none"> • Laboratory and Field Testing for Air and Water Quality, Acoustics, Vibration • Harsh Environment – MIL-STD 810, DEF(AUST) 5168, DEF(AUST) 5681
WEBSITE and MEDIA SERVICES	<ul style="list-style-type: none"> • Web-based Real-time Data Management and Monitoring Interfaces 	<ul style="list-style-type: none"> • Professional Videos for Training, Expert Testimony, Media Presentations