



RED SAND

ENVIRONMENTAL - ECOLOGY - PROJECT MANAGEMENT

Transforming environmental constraints through
knowledge, innovation, and integration





Trusted Environmental Services

Red Sand Ecology is a leading environmental consultancy that collaborates with clients and delivers innovative and solution-focused results.

We provide a variety of ecological and environmental management services to clients across Queensland and New South Wales. Our capabilities combine years of behind the scenes and on the ground experience in the construction, mining and energy, agriculture, government, and infrastructure sector.

Firmly established as a trusted industry leader, Red Sand Ecology has delivered over 800 projects in the past eleven years, working with clients in industry and the public sector to provide best-practice environmental solutions through innovative and project-specific methodologies.

Achieving a balance between environmental, community and economic demands can be a challenge in project development. By partnering with independent experts in the project design process, Red Sand Ecology offers clients a risk-managed approach that will satisfy regulatory requirements and stakeholder interests.



With an expert team of Ecologists, Environmental Scientists and Engineers, we are well-equipped to deliver informed and practical solutions, from a project's planning stage to its delivery.

Our consultants assist in approvals and licensing, environmental assessments, monitoring and auditing, on-ground management, and rehabilitation. Through continued support, we ensure project progression is positioned for success.

We have extensive experience in developing management strategies to ensure the longevity of projects, with emphasis on enhancing ecosystem values and key stakeholder relationships.

11

years of trusted industry relationships

800+

project delivery experiences



PARTNERED
CONSULTANTS



QUALIFIED
AND
EXPERIENCED



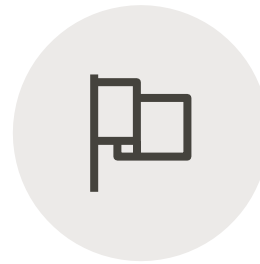
ADVANCED
ANALYSIS AND
REPORTING



EVIDENCE-BASED
STRATEGIES



INDUSTRY
COLLABORATION



BENCHMARKING
AND TESTING

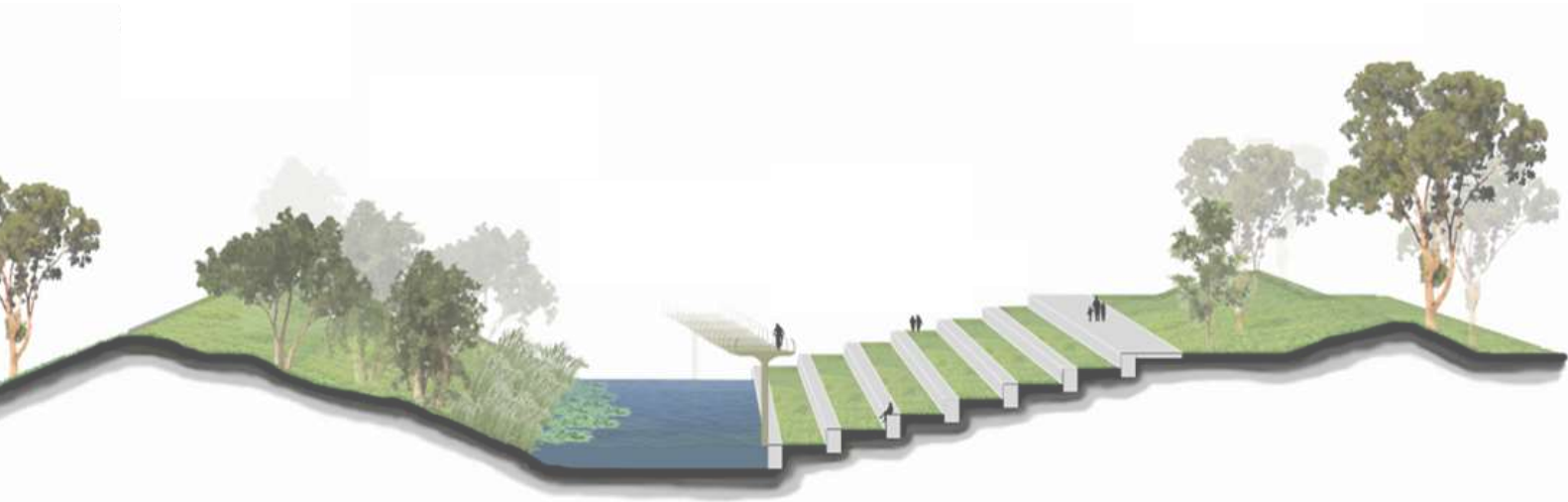
Ecological Services



Red Sand Ecology offers a full range of ecological services based on the fundamental, technical, and legislative knowledge and experience of our qualified team. Our services include:

- Preliminary vegetation, habitat, and site inspections
- Pre and post clearing assessments
- Ecological burn assessments
- Compliance assessments, planning scheme advice and code assessments (environment)
- Field survey methodology design for best-practice statutory compliance
- Ecological monitoring
- Ecological impact assessments and risk analysis
- Biocondition assessments and Regional Ecosystem Verification
- Protected plants surveys by suitably qualified persons
- Flora and fauna management, mitigation, and offset plans
- Species management plans
- Dewatering management plans and fish salvage
- Fauna spotter catching
- Specialised fauna spotter catching using elevated work platforms, chainsaws and fibre optic cameras for arboreal habitat
- Targeted monitoring and fauna surveying
- Reporting in alignment with government reporting requirements
- Fauna radio tracking studies
- Nest-box and artificial habitat supply and installation
- Weed and pest management

Landscaping Services



Red Sand Ecology designs landscaping solutions to achieve the desired visual and environmental outcomes of our clients. Our team is experienced in:

- Rehabilitation and revegetation plans
- Landscaping advice and consultation
- Bushland operational assessments
- General commonality of vegetation community type
- Weed species identification and management.
- Desktop studies, site assessments, scoping and identification of management constraints and environmental due diligence for councils
- Landscape care assessments
- Native species planting design
- Endemic species selection and planting
- Site preparation and on-ground maintenance

Construction Services



We work with clients to identify challenges and deliver solutions that ensure projects can progress on time and within budget. Our consulting expertise encompasses the following:

- Erosion and sediment control plans and auditing (CPESC and RPEQ Qualified)
- Automated active coagulant / flocculant dosing system (Autofloc- ultrasonic sensor - Smart phone interface - Rain activated proportional dosing - Transfer dosing feature - Rain intensity log)
- Environmental monitoring, compliance, and auditing
- Environmental management plans (Construction and Operation)
- Environmental impact assessments
- Environmental offset negotiation and advice
- Site supervision and representation
- Project planning and delivery
- Pre-clearing fauna inspections, fauna relocation and habitat decommissioning
- Biosecurity, weed, and pest management
- Fauna spotter catching
- Recycling/waste management plans

Soil and Water Quality Services



Soil and water quality impacts the immediate and broader environment. Our water quality assessments address all potential impacts and provide clear solutions. The services we offer include:

- In-situ measurements of physio-chemical water quality parameters
- Surface water and groundwater sampling and analysis at NATA accredited laboratories
- Baseline water quality data collection and reporting for local monitoring programs
- Compliance analysis against relevant project requirements and regulatory guidelines
- Onsite water quality analysis and on-ground treatment to meet discharge requirements

We provide soil assessments and amelioration services across a range of industries. Key components of our work include:

- Acid sulfate soil investigations and management plans
- Topsoil and subsoil testing for remediation advice and management

Acoustic and Air Quality Services



Red Sand Ecology offers an integrated range of acoustic management services, including:

- Identification of noise issues, sources, and sensitive receivers
- Measurement of background or ambient noise levels and operational noise levels
- Calculation of applicable legislative noise limits and comparison to operational noise
- Assessment of the likely effects of present noise levels
- Recommendations to assist with regulatory compliance

Our air quality assessments identify impacts associated with project-based activities and allow us to prepare practical management strategies. We provide the following services:

- Dust generation monitoring and control operations
- Environmental research studies
- Baseline trending and screening assessments
- Multi-parameter monitoring of particulate matter and contaminants

Professional Associations

