



Environmental



“Our environment, the world in which we live and work,
is a mirror of our attitudes and expectations.”

Earl Nightingale (US motivational writer and author, 1921-1989)





The Beca Group - Sustainable Solutions

Creating sustainable businesses and projects requires innovative technological solutions, considered resource management, good strategic planning, managed consultation and the use of sustainable design principles. Beca's growing and diverse multi-disciplinary staff resource empowers us to assist our clients to improve and deliver their sustainability aspirations.

Beca Environmental

A thriving, employee-owned company founded in New Zealand over 90 years ago, Beca has over 2000 employees in 19 international locations. From infrastructure projects through commercial building, to industrial work, in both public and private sectors, Beca has a strong track record of success and a reputation for quality, innovation and professionalism.

Beca Environmental strives to provide integrated, cost-effective and innovative environmental management advice to a wide range of private and public sector clients. We take pride in assisting our clients achieve their objectives in a manner that is both environmentally sustainable and practical.

Our team of scientists and engineers blends expertise in the science of human interactions with air, land and water with practical experience in the planning,

design, construction, operation and maintenance of large projects and resources. This mix allows us to identify the environmental risks and opportunities associated with projects, plans and policies and suggest appropriate control and management solutions.

The Beca Environmental team has provided technical support to many multi-disciplinary projects and has assisted the company to gain a variety of nationally and internationally recognised environmental excellence awards.

Through the Beca Group, Beca Environmental has in-house access to a full range of complementary and specialist services in planning, industrial process, land surveying, quantity surveying, architectural design, civil, structural, geotechnical, water and wastewater, building services, fire engineering, systems engineering and operations analysis.



Sustainable Environmental Management

Beca has been providing clients with sustainable environmental management advice for many years. This includes advice on how to improve the environmental performance of products, facilities and development projects, as well as identifying opportunities to reduce environmentally adverse effects through resource efficiency and integrated management.

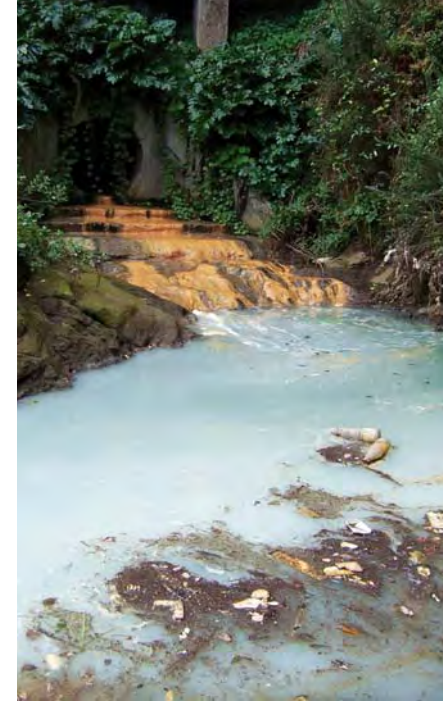
- Environmental sustainability policy advice
- Strategic environmental input to development planning to improve sustainability
- Strategic environmental risk and opportunity identification
- Greenhouse gas inventories, carbon footprinting, carbon management
- Waste audits and waste resource management (including waste reduction, reuse and recycling)
- Management and integration of environmental inputs for large scale multi-disciplinary commissions
- Preparation of environmental management plans and systems for operational facilities
- Natural resource assessment and management
- Project and product sustainability assessments and appraisals



Air Quality Management

Our air team provides clients with a complete service including monitoring (ambient and stack emissions), modelling, impact assessment, mitigation and management. With this expertise, we are able to guide our clients through the consenting process, while also assisting our clients to manage their emissions.

- Strategic policy advice to national and local legislators
- Ambient air quality and stack emissions monitoring and reporting
- Emission inventories
- Air quality and odour dispersion modelling
- Air quality and odour audits
- Assessment of environmental effects for new and expanding developments and associated consent application
- Air quality and odour management and mitigation planning
- Consent review and processing
- Complaint investigation and associated reporting
- Expert witness and representation services



Water Management

Beca provides advice to clients on appropriate methods of water resource management. This covers the key water compartments of stormwater and surface water bodies, groundwater resources and coastal waters. Our advice assists clients with resource allocation, how these resources interact with land developments, resource management and protection, and associated consenting issues.

- Strategic policy advice to national and local legislators
- Ambient water and sediment quality, coastal, stormwater and wastewater monitoring including in situ testing
- Stormwater audits and assessment of consent compliance
- Industrial site audits and stormwater management
- Assessment of land development: stormwater quality/quantity interactions
- Assessment of environmental effects associated with wastewater discharges
- Water resource assessment and allocation advice
- Consent preparation
- Definition of water management requirements and treatment device design
- Erosion and sediment control and construction management
- Coastal environmental management
- Expert witness and representation services



Land Contamination Management

Land contamination legacies have an effect upon land development proposals as well as representing a potential environmental risk. We are able to advise clients how to effectively manage such risks, as well as how to tailor site practices to close off waste streams and help to prevent future environmental impairment.

- Environmental audit and due-diligence
- Stage 1 environmental contamination desk studies
- Stage 2 environmental contamination monitoring and site investigation (groundwater and soils)
- Stage 3 environmental risk management and remediation plan development
- Remediation investigation, monitoring and verification
- Assessment of environmental effects and associated consent application
- Preparation of environmental risk management plans for operational facilities and for site clearance/demolition activities
- Waste management resource planning
- Expert witness and representation services

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