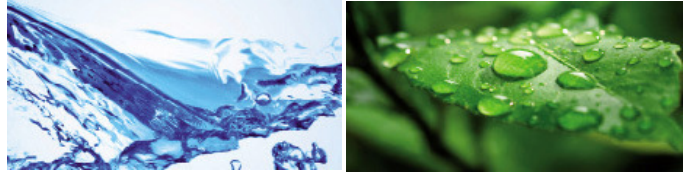


Curriculum vitae



Caroline Ede

Environmental Scientist

Caroline's experience includes project work and project management across a range of scientific disciplines. Caroline has worked and managed projects in the following areas: Environmental planning; visual impact assessment, environmental permit, resource consent acquisition and assessment of environmental effects for a wide range of activities; contaminated land sampling; reporting and remediation planning; environmental due diligence; spill response and environmental management plans; lodgement of environment court appeals; environmental risk, liability auditing, and reporting; and annual and sustainability report verification and assurance for large companies.

Most recently Caroline has either project managed or comprehensively assisted with the following projects:

- Site-specific Review of Environmental Factors and Construction Environmental Management Plan preparation for approval by Sydney Water, for the rehabilitation of sewer and stormwater lines using trenchless technology in environmentally sensitive environments.
- Occupational Health and Safety noise assessments of staff exposure in light industrial premises through the gathering of noise data levels, data analysis and reporting against relevant state guidelines and noise criteria.
- Visual Impact Assessments for a proposed coal mine extension and proposed substation to identify potential sensitive visual receivers, the impacts on visual amenity and the recommendation of suitable mitigation measures.
- Resource consents and environmental approvals from regulatory bodies for upgrade works at the western water supply dams in Auckland, New Zealand, for a range of works impacting the surrounding environment.

- Updating of the Management Plan and Resource Consents for the Huia Village Drinking Water Treatment Plant, Auckland, New Zealand.
- Sustainability and Annual Report Auditing by providing verification and assurance to corporate clients involving assessment against the GRI G3 Guidelines and Australian Reporting Sustainability Criteria.

Fields of competence

- Environmental review, planning and impact assessment.
- Project Co-ordination/ Management.

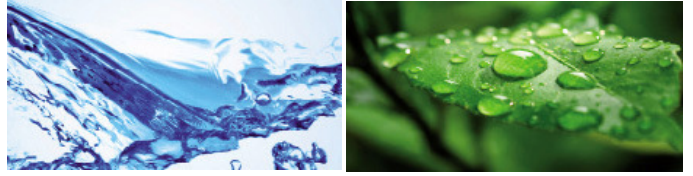
Key industry sectors

- Water, Marine Science, Ecology, Regional Government

Education

- Bachelor of Science (Biological Sciences Major, additional Marine Science Specialisation), University of Auckland, New Zealand.
- Bachelor of Arts (Psychology Major), University of Auckland, New Zealand.

Curriculum vitae



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Environmental Scientist

Key Projects

Visual Impact Assessments

Caroline has conducted an assessment of the visual impacts from a proposed coal mine extension and for a proposed power substation. These projects involve a site inspection to identify potentially sensitive visual receivers, data collection and review of related information to assess the level of visual impact on receivers as a result of the proposed infrastructure and associated items and recommendation of suitable mitigation measures.

Sewer and Stormwater Pipe Rehabilitation Program

As Project Manager, Caroline is involved in the project planning, site inspections and report generation for the site-specific Review of Environmental and Construction and Environmental Management Plans for each site where a sewer or stormwater line is to be re-habilitated using trenchless technology in environmentally sensitive areas. Approval from Sydney Water is required to ensure potential impacts on water quality, soils, heritage, landuse, flora and fauna, threatened ecological communities and other factors are reduced, avoided and mitigated as much as possible.

Occupation Health and Safety Noise Assessment

Caroline undertook site inspections to several industrial/commercial premises with the purpose of quantifying, documenting and assessing the levels of noise exposure for staff from site machinery and processes operating at the site. Data analysis of the results obtained were assessed against the relevant state guidelines and levels and a 'noise map' and report produced and suitable management measures recommended for staff working in areas of high noise exposure.

Lodgement of Environment Court Appeals:

Caroline was project manager for several corporate clients in relation to both changes in regional planning rules, and consent conditions. A thorough understanding of the statutory process and associated requirements was critical for this project.

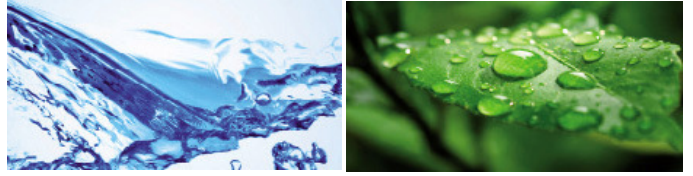
Environmental Due Diligence:

Specifically for mergers and acquisitions, Caroline's experience includes analysis of consents held, compliance, property issues, identification of risk and liabilities and a range of extensive data room reviews.

Sustainability Reporting and Annual Report Auditing:

Caroline assisted in the development of Sustainability Reports in a corporate capacity, by working to provide verification and assurance to corporate clients involving assessment against the GRI G3 Guidelines and Australian Reporting Sustainability Criteria for several large national companies.

Curriculum vitae



Caroline Ede

Environmental Scientist

Auckland Water Supply Dams Project:

Caroline was responsible for the identification of planning issues surrounding re-consenting five water supply dams, to reflect new operating conditions relating to integrated source management, new regional planning documents, and new ecological flow requirements. Input into this project required a strong understanding of the balance of social, economic, and environmental needs.

Water-mains Flushing Project:

Caroline's comprehensive involvement included conducting all research, background planning, and preparation of Assessment of Environmental Effects required to consider receiving environments for a project involving the elevated flushing rates of water supply mains for maintenance purposes and the removal of sediment and manganese build-up. The project required analysis of strategic environmental discharge locations coupled with constraints identified through network modelling.

Landscape Architecture Project for a Proposed Wind Farm:

Caroline assisted with the preparation of visual impact data pertaining to the proposed installation of a wind farm, and a review of relevant legislation and planning documents, and relevant international literature on the topic.

Consent and Regional Planning Information Reviews:

Caroline managed the review of relevant district and regional plans and consent requirements for sites, industry and various projects.

Spill Response Plans and Environmental Management Plans:

Caroline has developed documents and operational guidelines in accordance with regional requirements and industry best practice guidelines to ensure companies operate in an environmentally responsible and compliant manner.

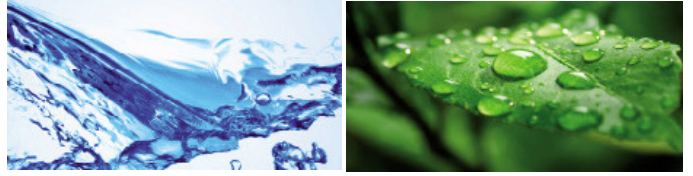
Air Discharge Permits and Appeals:

Caroline was Project Manager for several projects which related to nationwide roading activities. Caroline successfully managed the preparation and completion of AEE, consent applications, and the negotiations between the operator and regulator.

Environmental Compliance Audit and Liability Assessment:

Caroline assisted with the detailed audit and report preparation for a site of a timber treatment chemical manufacturer within New Zealand, and a light manufacturing (fabrication and assembly) plant within New Zealand.

Curriculum vitae



Caroline Ede

Environmental Scientist

Auckland Water Supply Dam Resource Consents:

Caroline was responsible for the preparation and submission of Assessment of Environmental Effects and Outline Plan of Works documents for two separate projects pertaining to different water supply dams, involving construction works. Both projects involved liaising with the regulators and resource consents were successfully gained.

Planning Advice:

Caroline Project Managed several projects which included the preparation of planning and resource consent advice regarding district plan and regional plan rules and requirements for a variety of land use activities.

Environmental Impact Investigation:

Caroline co-ordinated the environmental impact investigation involving stormwater and natural waterways to determine the extent of chemical contamination and advising on required remediation programme.

Resource Consent and Assessment of Environmental Effects:

As Project Manager, Caroline's role included the preparation of a land use resource consent and assessment of environmental effects for a hazardous substance Above-Ground Storage Tank, and the removal of a Below-Ground Storage Tank.
