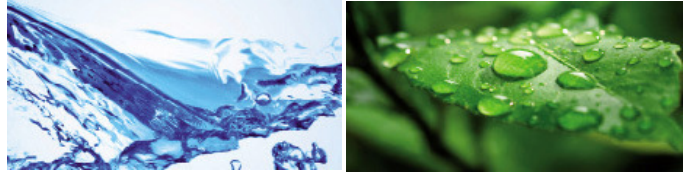


Curriculum vitae



Bob McCotter

Civil Engineer

Bob has 42 years experience in the consulting and development industries in Australia, Europe and South East Asia, with particular experience in mining, extractive industries and public infrastructure such as roads, dams, flood mitigation works, railways, water supply and sewerage projects.

Education

- Bachelor of Engineering (Hons) (Civil and Structural), Sydney University, Australia.
- Diploma of Building Science, Sydney University, Australia.

Professional Affiliations

- Fellow, Australian Institute of Company Directors
- Fellow, Institution of Engineers, Australia

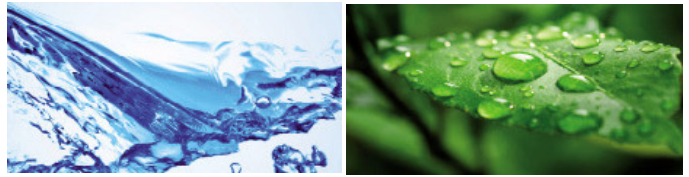
Professional Activities

- Deputy Chairman, National Committee on Environmental Engineering, Institution of Engineers, Australia, 1984-85
- Member, National Committee on Hydrology and Water Resources, Institution of Engineers, Australia, 1984-85
- Guest Lecturer in environmental engineering at the Universities of Newcastle, Wollongong and New South Wales and the University of Technology, Sydney.

Publications

- A variety of conference papers and publications on emergency housing, environmental safeguards, sediment control, salinity, mining, dam safety, fly ash management and environmental remediation.

Curriculum vitae



Bob McCotter

Civil Engineer

Career

2010 - present: EMGA Mitchell McLennan Pty Limited, Board Chairman.

Bob is Board Chairman at EMGA Mitchell McLennan Pty Limited, a consultancy offering planning, environmental and acoustic services to selected clients.

2003 - 2009: McCotter Consulting Services, Director.

In 2003 Bob founded McCotter Consulting Services, a consultancy offering strategic advice on planning and environmental assessment. Bob gave advice as a member of the international assessment panel for the Sydney desalination plant, and on various coal mines, an upgrade to Port Botany, minerals extraction and transport, Part 3A assessments of roads, ports and land developments, and sand and soil extraction projects.

1984 - 2003: Environmental Resources Management Australia Pty Limited (formerly Mitchell McCotter & Associates Pty Limited), Founding Partner and Director.

In 1984 Bob founded Mitchell McCotter & Associates Pty Limited, an environmental and engineering consultancy. Bob was responsible for project management and the direction of environmental assessment and engineering aspects in commissions carried out by the firm.

1981 – 1984: Croft & Associates Pty Limited, Director.

At Croft & Associates Bob was responsible for overseeing engineering commissions undertaken by the firm, with an emphasis on water management programs and water pollution controls in mining projects.

1978 – 1981: P.G. Pak-Poy & Associates Pty Limited, Engineering Manager, New South Wales.

As Engineering Manager for New South Wales, Bob was responsible for project management and design on planning and infrastructure projects.

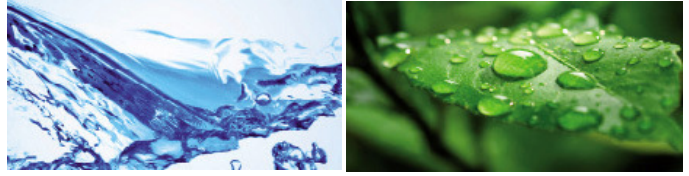
1977 – 1978: Rankine & Hill Pty Limited, Engineer.

Typical assignments included a flood mapping study of the Lachlan River for the Water Resources Commission and a feasibility study of the sewerage of 1,000ha in Terrey Hills draining into Narrabeen Lagoon for Colin C. Donges & Associates.

1976: Taylor Woodrow International, Design Section Leader.

Design Section Leader working on a 200 million pounds sterling dry dock facility for the Persian Gulf.

Curriculum vitae



Bob McCotter

Civil Engineer

1975: Vallentine, Laurie & Davies (S.E. Asia), Kuala Lumpur, Engineer.

Bob undertook design work for a portion of the Kuala Lumpur-Petaling Jaya Traffic Dispersal Scheme in Malaysia. Detailed design was undertaken of an urban freeway ring road to bypass the centre of Kuala Lumpur.

1974: Civil & Civic Pty Ltd, Engineer.

Work mainly centred on participation as a team member in the structural design of the MLC Centre, a 68 storey reinforced concrete building in central Sydney.

1971 – 1973: Gutteridge, Haskins & Davey Pty. Ltd. Consulting Engineers Sydney, Engineer.

Bob was exposed to a variety of projects from initial feasibility to detailed design and contract administration. Assignments mainly involved drainage, water supply and sewerage reticulation and treatment. Projects also included the design of building and civil structures.

Partial record of professional experience

Ironbark Coal Mine (R.W. Miller & Company Pty Limited)

Responsible for the preparation of an EIS for a proposed 2.3 million tonne per annum open cut and underground mine in a heavily settled part of the Lower Hunter Valley. The EIS considered all relevant bio-physical, socio-economic, pollution control and engineering aspects associated with the establishment of the proposal.

Sediment Transport in NSW Rivers (NSW Coal Association)

The study reviewed suspended solids transportation mechanisms, with an emphasis on rivers in the northern coalfields. Implications for mine waste water management in the context of the NSW Clean Waters Act were assessed.

Litigation about Sandstone Quarries at Maroota (Confidential Client)

Successful litigation to prevent the spread of sandstone quarries at Maroota.

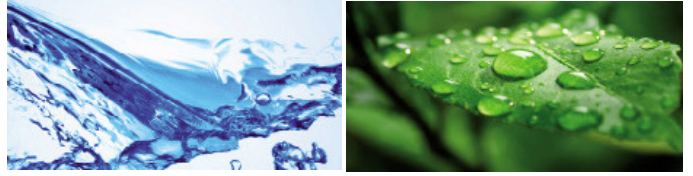
Warragamba Dam Flood Protection EIS (Sydney Water Board)

Project Manager for a comprehensive proposal to upgrade the flood safety of Warragamba Dam. Elements included a detailed hydraulic model of the Hawkesbury/Nepean Valley, flood damages studies, regional environmental assessments and a broad ranging community interaction program.

Jervis Bay Regional Sewerage Scheme (Public Works Department)

Preparation of an environmental impact statement for a regional sewerage and sewage disposal scheme for the St Georges Basin/Jervis Bay region. This has included the preparation of an options Report, a report on the possibility of a land application scheme and attendance at regular meetings of a Community Liaison Group.

Curriculum vitae



Bob McCotter

Civil Engineer

Safety Aspects of Road Haulage of Coal in the Southern Coalfields (NSW Coal Association)

A major study of the safety aspects of road haulage. It included details of specific accidents, route conditions, driver behaviour, maintenance, loading and braking systems.

Mt Flora Quarry (CSR Readymix)

The Mt Flora quarry had reserves and transport infrastructure to enable it to become the next major hard rock source for southern Sydney.

Effects of Open Cut Mining on Water Quality (Department of Resources and Energy/CRCE Water Studies)

Commissioned study on the potential for large scale water pollution associated with coal mining developments throughout Australia. This led to a Federally funded lecture tour throughout India.

Possum Brush Quarry (Wyan Holdings Pty Limited)

Resource assessment and statutory approvals for a controversial hard rock quarry near rapidly developing tourist areas on the mid north coast of NSW.

EIS for Gas Manufacturing Plant (Commonwealth Industrial Gases Limited)

EIS for a new gas manufacturing plant at Wetherill Park. Major issues included the quantification of risks associated with flammable compressed gases.

Mitchells Flat Mine EIS (Barix Pty Limited)

Environmental Impact Statement for a double longwall underground mine near Singleton. Major issues included cumulative subsidence, flooding and product transport.

Hunter Valley No. 1 Southern Extension (Coal & Allied Operations Pty Limited)

Environmental Impact Statement for the extension of an existing 5 mtpa surface coal mine. Relevant aspects included noise and dust pollution, flooding and post mining land uses.

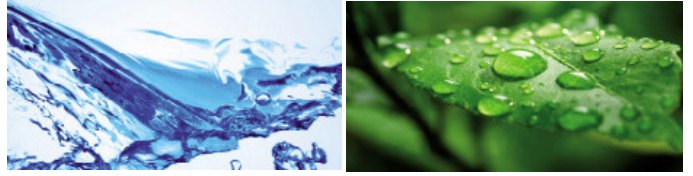
Kurnell Sand Extraction Centre (Besmaw Pty Limited)

A single dredged quarry supplied more than half the fine and construction sand requirements for a city of 4.2 million people. Key aspects included phased extraction and simultaneous backfilling with imported excavation materials. Continuous advice was provided to the same facility for more than 17 years.

Dubbo Bulk Fuel Storage Depot (The Shell Company Of Australia Limited)

Environmental Impact Statement for an expansion of a regional fuel depot. The project included a Hazard and Operability (HAZOP) study.

Curriculum vitae



Bob McCotter

Civil Engineer

Various Landfill Projects (Metropolitan Waste Disposal Authority)

Several regional landfills were assessed for groundwater suitability and cover materials.

Kooragang Coal Terminal – Stage 3 Expansion (Port Waratah Coal Services)

Expansion of the world's largest export coal terminal.

Safety Audit of Tailings Dams in South West China (Alcoa)

Project Director for an international audit of three major earth fill dams for alumina tailings located in Karst country in south west China.

Salinity Study (NSW Coal Association)

The study quantified the impacts on water quality in the Hunter River of a major expansion in opencut and underground coal mining. Annual production from 30 mines of 88 mtpa were modelled. Changes to natural hydrologic cycles and river salt loads under a range of meteorological conditions were analysed.

Port of Newcastle Transport Study (Hunter Development Board)

The project involved analysing general freight movements through the Port and reviewing infrastructure constraints and administrative policies. Changes to international shipping patterns and cargo handling facilities were identified as major determinants in loss of patronage to the Port. Recommendations on port and rail charges, labour relations and competitive strategies with Sydney ports were formulated.

Parkes Exploration Area (Peko Wallsend Limited)

A two year assessment was carried out of pre-mining ground and surface water quality in a major copper deposit. The significance of arsenic, cobalt and other trace elements on water quality and vegetation was determined.

Hexham Coal Reveal Area (Coal & Allied Industries Limited)

A baseline study was undertaken to determine the extent of water pollution being experienced by Hexham Swamp from an industrial beneficiation plant.
