



Communication and Adoption

Program Leader: Mr David Perry (Monash University)

Project 7A: Development Project for the Goulburn-Broken Focus Catchment

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This Development Project will utilise and further develop the CRC's capabilities in predicting land-use impacts on pollutant (pathogens, sediment, nutrients, turbidity and salinity) delivery and transport, and water yield.

These tools will be progressively integrated during the course of the project, based largely on the current EMSS model interface. The use of these modelling tools in two case study catchments (Mid-upper Goulburn and Upper Loddon) with major water storages (Lake Eildon, Goulburn Weir and Lake Tullaroop) will enable Goulburn-Murray Water and other catchment management agencies to improve their predictions of sources and transport of pollutants and the impact of land-use changes on water yield.

The project will aid development of cost effective, targeted management strategies and guidelines aimed at improving catchment and storage water quality and protect water yield.

Duration: 3 years, starting November 2002. Total Budget: \$0.89 million

Project 7B: Development Project for the Murrumbidgee Focus Catchment

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This Development Project will utilise and further develop the CRC's capabilities in predicting land-use impacts on pollutant (sediment and nutrients) delivery and transport.

Through the project, we seek to make operational within DLWC the modelling tools developed by the CRC in the first round Projects 1.4 (EMSS) and 2.1 (SedNet). The use of these modelling tools will enable DLWC to improve their estimates of sources and transport of pollutants, and to target management strategies aimed at improving water quality. The modelling tools will enable DLWC to provide scientific information to the Murrumbidgee Catchment Management Board (CMB) to refine their water quality target, and also guide investment in the catchment.





Current Projects

2003-2006

As the project progresses, a process of stakeholder engagement (via a Project Steering Committee) will provide the Murrumbidgee CMB and DLWC with regional understanding and support for the management actions proposed.

Duration: 18 months, starting January 2003. Total Budget: \$0.22 million

Project 7C: Development Project for the Yarra Focus Catchment

Project Leader: Graham Rooney
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Our CRC has developed modelling products in stochastic climate generation, flow routing, pollutant generation and transport, and land-use impacts on in-stream water quality (EMSS) and ecosystem response (LEMSS).

This Development Project will use these products in order to develop a whole-of-catchment model for the rural area of the Yarra River basin. The Department of Sustainability and Environment (DSE) will collaborate with Melbourne Water on this project.

The major outcome being sought is the ability to predict river water quality at the lower end of the rural Yarra River.

Duration: 3 years, starting January 2003. Total Budget: \$0.68 million

Project 7E: Development Project for the South-east Queensland Region

Project Leader: Tony Weber
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The CRC has been actively involved in building catchment scale models in the south-east Queensland region, including both EMSS and LEMSS. This development project, entitled "Enhancing Stakeholder Capacity in Prioritising Water Quality Management Actions", is strongly focused on: building the awareness of the existing models; assisting the technical capacity to use, modify and interpret those models; and using the models regionally in water quality planning in the Northern, Western and Lower Brisbane Catchments of south-east Queensland.

Additionally, the application of the models will provide feedback to the model developers to further enhance the toolkit products. The project will be undertaken by staff from both QDNRM and Brisbane City Council and will run in conjunction with work being undertaken by the Moreton Bay and Waterways Catchments Partnership.

Duration: 2 years, starting February 2003. Total Budget: \$0.85 million

Project 7F: Development Project for the Fitzroy Focus Catchment

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Current Projects

2003-2006

This Development Project will apply the CRC's water quality models (EMSS, SedNet and LEMSS) to the Fitzroy catchment and smaller sub-catchments within it. This will be done in close partnership with the Fitzroy Basin Association (FBA), providing a strong catchment stakeholder focus and technical input to the NAP target setting process in that catchment.

The project builds upon a successful environmental assessment modelling exercise involving our CRC, the Coastal Zone CRC and the FBA, and the strong catchment group linkages that emerged from that activity.

Duration: 18 months, starting January 2003. Total Budget: \$0.47 million