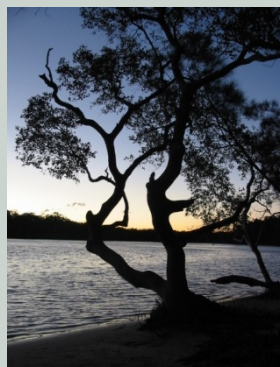


Wooli Wooli River Estuary Processes Study, Estuary Management Study and Plan

The Wooli Wooli River is a small estuary with a relatively undisturbed catchment. The village of Wooli is located adjacent to the lower reaches of the estuary. The mouth of the river was trained with twin breakwaters in the 1970s, and allows for navigation to the ocean from Wooli.

BMT WBM was responsible for the preparation of an Estuary Process Study for the river, which involved the identification of the various physical, chemical and biological processes within the estuary and their relationship with each other. The investigations included the development and calibration of a hydrodynamic, advection dispersion and sediment transport model of the estuary. This model helped to provide an understanding of the physical processes influencing the Wooli Wooli River.

Following the Estuary Processes Study, BMT WBM then prepared an Estuary Management Study and Plan for the Wooli Wooli River. This involved developing and assessing a range of management measures, including planning provisions, to improve the long term sustainable management of the estuary. Options development and assessment involved consultation with the local community of Wooli, and with the Estuary Management Committee.



Client

Clarence Valley Council

Date

2004 - 2007

Services & Expertise Provided

Collation and review of all available scientific data;

Field investigations including water and sediment sampling, and habitat mapping;

Community and stakeholder consultation;

Processes interactions assessment;

Numerical modelling of flow, dispersion and sediment; and

Formulation of management objectives and strategies for long-term management options.

