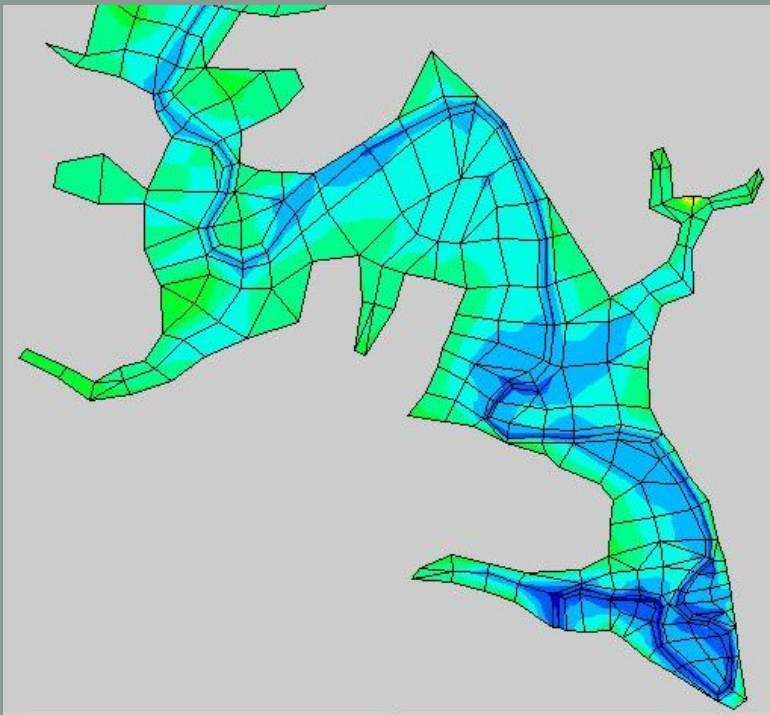


Lake Wivenhoe Sustainable Loads RMA Modelling

Lake Wivenhoe is the major water supply reservoir for South East Queensland, and is operated by the South East Queensland Water Corporation (SEQWC). SEQWC commissioned a study to examine and define the sustainable pollutant loads entering Lake Wivenhoe, with the goal of providing a management tool for catchment rehabilitation measures. As part of this study, BMT WBM set up and executed RMA2 and RMA11 models of the lake, and used them to assess the lake response to changes in catchment pollutant loading. Pollutants considered included sediments and pathogens. The modelling was successfully executed, and the results compared favourably with parallel modelling studies using separate and independent models. The RMA modelling provided aspirational in-lake water quality targets and provided guidance on future catchment and in-lake management practices to assist in maintaining water quality within the lake.



RMA Model Section

Client

South East Queensland Water Corporation

Date

2004

Services & Expertise Provided

Setup and execution of RMA2 and RMA11 models;

Assessment of trends in lake water quality using the model; and

Extraction of timeseries and percentile data from the model to examine lake sustainability in terms of sediment and pathogen loads.