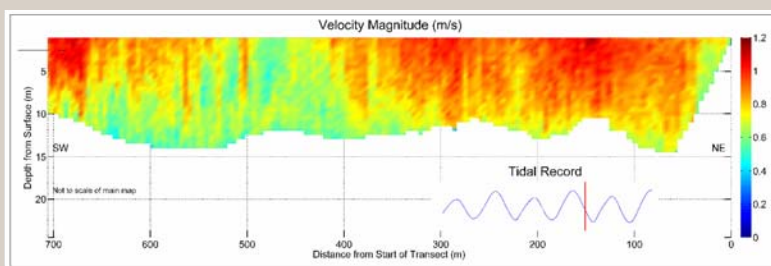


Port Curtis Metocean Data Collection Studies

Port Curtis and the associated Port of Gladstone is one of the most significant coal export facilities on the eastern seaboard of Australia and is recognised as having one of the most significant natural harbours in Australia. Regardless of the natural characteristics of Port Curtis, there are ongoing requirements to improve the capacity of the area via dredging, for both capital and maintenance purposes. In order to understand the implications of such dredging works, BMT WBM have played an ongoing role supporting the port of Gladstone in regard to mathematical modelling and metocean data collection.

In regard to metocean data collection, we have regularly undertaken works of the following nature in the area:

- Deployment of a detailed meteorological stations to provide necessary atmospheric data to support interrogation of ADCP data and modelling activities;
- Deployment of tide gauges and salinity logging equipment at several locations in the region to provide oceanographic data supporting modelling investigations; and
- Use of boat mounted ADCP equipment to collect velocity profile transects in sensitive locations at critical stages of spring and neap tides in Port Curtis.



Current Measurements over Transect with ADCP

Client

Gladstone Port Authority

Date

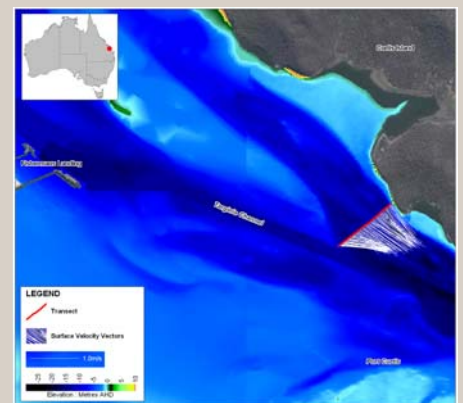
2007 – 2008

Services & Expertise Provided

Deployment of meteorological station;

Tidal water level and salinity measurements; and

Boat mounted Acoustic Doppler Current Profiler (ADCP) transects.



Study Area and Surface Current Velocity Vectors along Transect