

Twofold Bay Navy Ammunitioning Facility – Dredge Monitoring

The Twofold Bay Naval Ammunitioning Facility (NAF) involves the staged construction of a vessel turning basin, wharf and jetty on the southern side of Twofold Bay (within East Boyd Bay), opposite the town of Eden in southern NSW.

The first stage of works involves dredging approximately 170,000m³ of material from the seabed of East Boyd Bay within the boundary of the turning basin, which adjoins the proposed wharf. Principal contractors Boulderstone Hornibrook Ltd awarded the dredging contract to the Port of Brisbane Corporation.

BMT WBM was commissioned by the Port of Brisbane Corporation to undertake monitoring of the water quality within East Boyd Bay during the dredging of the turning basin for the Twofold Bay NAF. Specifically, BMT WBM aimed to:

- Deploy subtidal water quality loggers adjacent to the proposed dredging operation to examine a snapshot of natural levels of turbidity in the weeks prior to the commencement of dredging;
- Deploy real-time turbidity buoys at each of 7 locations adjacent to the dredging operation in East Boyd Bay; and
- Establish a receiving station at the site office of Boulderstone Hornibrook.

The project and the dredging were completed without significant modification to dredging procedures.

Client

Port of Brisbane Corporation

Date

2002

Services & Expertise Provided

Real-time turbidity monitoring;

Dredge plume monitoring; and

Placement site plume tracking and monitoring.



Real-time turbidity monitoring buoy