

THE AUSTRALIAN BOOM & BAFFLE CO

MENTANZA PTY LTD ABN:59 071 127 798

Contaminated Sediment Control General Purpose Berth, Port Kembla

PRODUCT SUMMARY

- 700 metres 5.2m deep open water silt curtain for spoil ground in outer harbour.
- 110metres 6m deep bucket dredge frame fitted with pressure relief ports
- 35m x 20m foam filled steel dredging frame
- 650 metres 12m deep reclamation area curtain



CLIENTS

Prime Contractor:

Austral Constructions Pty Ltd

Dredging Contractor:

Ballast Ham Dredging Pty Ltd

THE AUSTRALIAN BOOM & BAFFLE CO

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Austral Constructions were contracted by Port Kembla Port Corporation to extend the General Purpose Berth. The works required the site to be dredged to provide an extension to the existing berth and swinging basin and to provide a solid basis for the reclamation of additional berth hardstand. Austral engaged Ballast Ham Dredging Pty Ltd (Van Oord). The Australian Boom and Baffle Co having a long history of curtain configuration for both Ballast Ham and Van Oord was engaged to design and fabricate project specific curtains for this project.

The three aspects requiring floating curtains were:

- The containment of suspended solids in the spoil ground located in the outer harbour of Port Kembla. This area was exposed to high winds, swell and heavy vessel wash. The curtain was configured to contain sediments bearing a number of accumulated contaminants and located to prevent sediment plume/ing on change of tide
- The containment of sediment during bucket dredging operation. This curtain was configured with pressure relief ports to prevent the curtain fouling the dredge bucket during the dredging cycle. (as the bucket lifts off the seabed the curtain is drawn into the bucket, the freeing ports allow water to enter the contained area but prevent sediments being released out of the area.
- The containment of the reclamation where smelter waste was used. To achieve total containment a 12m skirt was employed sealing to the seabed.

To optimize containment of contaminated material and provide robustness a 80kN woven polypropylene material was used for the skirts together with AB&BCo type II float and ballast assemblies. The project duration was 12 months, product maintenance required during project nil.