

LHD Waterfront Project Williamstown Shipyard

BAE Systems / Aztec Analysis



“ The Royal Australian Navy has procured a new Landing Helicopter Dock (LHD) vessels and to facilitate the delivery of these vessels it was necessary to undertake a number of upgrades to various aspects of the historic Williamstown shipyard facility. ”



BAE Systems (BAE) was awarded the Australian Department of Defence Royal Australian Navy contract for the construction of the two 27,800 T, 230 m long LHD vessels. BAE Systems contracted Aztec Analysis (Aztec) as the lead consultant to prepare the Feasibility Study. BMT JFA Consultants (BMT JFA) provided specialist dredging and disposal methods advice to Aztec.



BMT JFA prepared conceptual basin layouts for the LHD mooring and calculated the dredging volumes required to achieve the required depths for each of the options. An assessment of the most appropriate dredging plant and disposal sites for the contaminated dredged material was undertaken. Program and cost estimates were prepared for the proposed dredging methodologies.

BMT JFA Role

- Preparation of options study for the completion of seabed dredging and disposal
- Review of the available survey and geotechnical data
- Determination of the required dredge design and associated volumes
- Liaison with environmental consultants during the planning and completion of a sediment sampling and analysis campaign
- Development of a suitable dredging methodology in accordance with Victorian EPA Best Practice Environmental Management Guidelines for Dredging.

Services & Expertise Provided

- Specialist dredging advice
- Dredging study and assessment
- Environmental management
- Cost estimates.

Location

Williamstown, Victoria

Date

2010