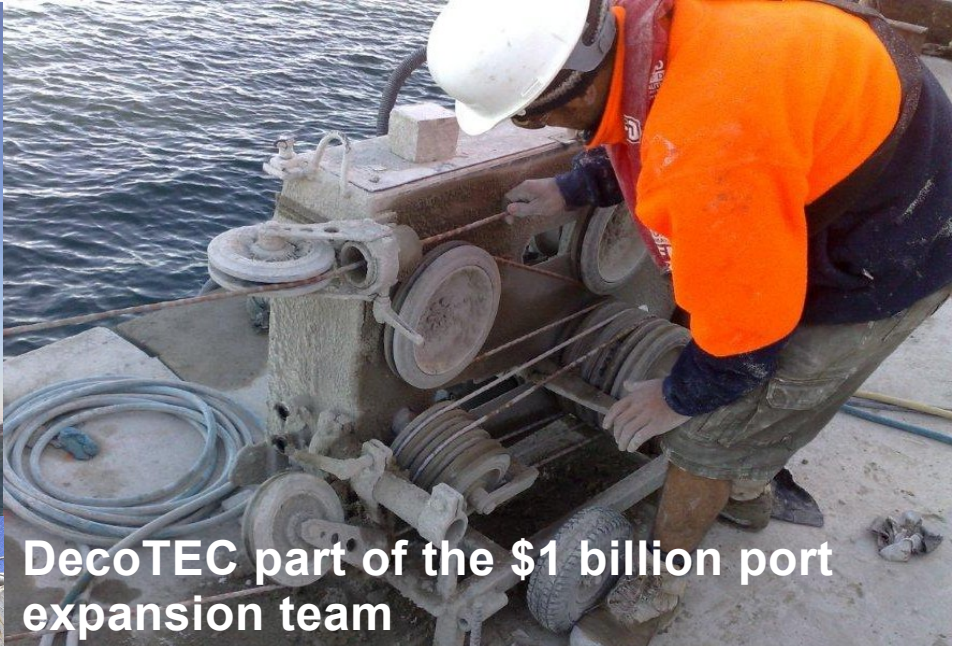


DECOTEC

STRUCTURAL MODIFICATION



DecoTEC part of the \$1 billion port expansion team



Client: Boulderstone
Location: Brothersons Dock, Port Botany
Project: Caison Beam Removal

In one of the largest Australian port construction projects of the last 30 years, Sydney Ports Corporation is spending \$1 billion in the expansion of its container facilities at Port Botany to cater for long term growth.

Boulderstone, the contractor for the port reconstruction, recruited DecoTEC to demolish and remove a 24m caisson capping beam, as part of an extension of the wharf.

The work was managed in several stages and as the beam removal was done over water, around ocean tidal movements.

DecoTEC wire sawed the most easterly section of capping beam parallel to caisson wall in order that a 20m high counterfort wall could be installed then the seaward beam edge was cut as well.

Nine 50mm deep vertical cores for wire sawing were cut into a 3m section to install a cantilevered beam cut parallel to caisson wall and removed concrete by a 100 tonne crane.

Working from a punt, drip trays were installed to ensure no slurry contaminated the ocean.

Once the capping beam was removed, 24 x 300mm holes were drilled 25m deep into 2m deep reinforced concrete, then grout was pumped into the caissons in order to stabilise the sand fill.

After the grout had cured, the demolition of the capping beam and caisson was completed.

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UNRESTRICTED DEMOLITION

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