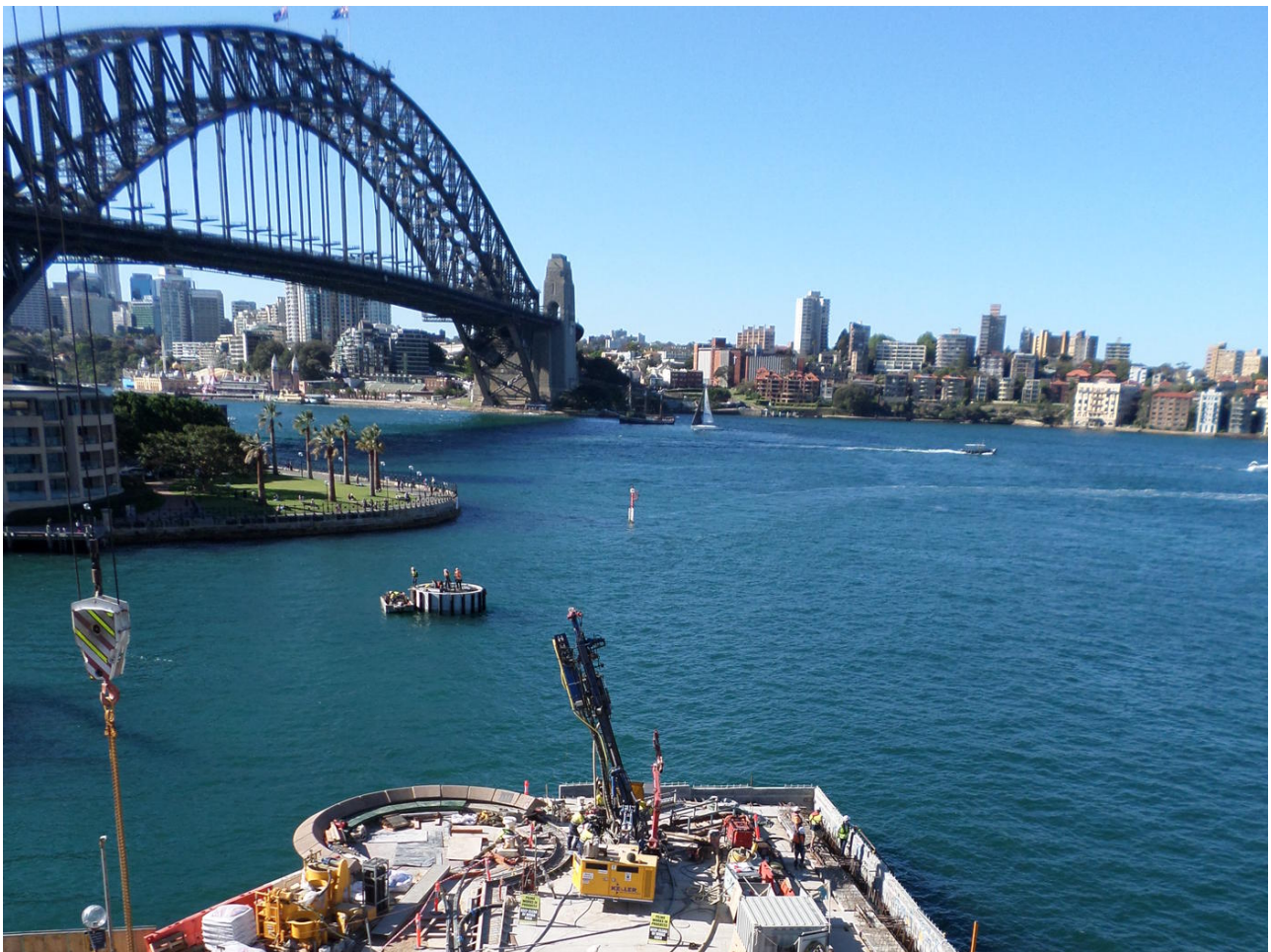


## Overseas Passenger Terminal

Sydney, NSW

Vertical and raked multi-strand ground anchors are providing the high load capacities needed to allow larger cruise ships to dock at the Overseas Passenger Terminal in Sydney, NSW.



### The project

With cruise ships visiting Sydney growing larger, it was necessary to extend the city's Overseas Passenger Terminal wharf by 60m and build a new northern mooring dolphin just off-shore. Keller working in partnership with Waterway Constructions, designed and installed ground anchors to allow for the higher mooring loads.

## The challenge

The main challenge for the works was the installation of the 30m long, vertical and raked multi-strand anchors over water on the small, restricted site, without disrupting cruise ships using the terminal.

## The solution

Anchors were installed from a cantilevered platform on top of the wharf and the mooring dolphin, with a 100t crane used to lift the anchors into position. Thirteen anchors were installed, each up to 30m long, with a maximum tensile working capacity approaching 2,000kN. Planning of works was crucial, to make the best use of space around the mooring lines, with due consideration given to tidal conditions and cruise ship schedules.

## Project facts

### Owner(s)

Waterway Constructions

### Keller business unit(s)

Keller Australia

### Main contractor(s)

Sydney Ports Corporation

### Solutions

Marine structures

### Markets

Infrastructure

### Techniques

Anchors