



ROAM MARINE

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Project: Port Hedland Berth 3 Deck

Client: TAMS

Project scope: TAMS were engaged by Pilbara Port Authority to replace the concrete deck and fenders at Berth 3 which is used for salt export. The concrete wharf deck is approximately 183m*34m with thickness 250-400mm. The piles, support steelwork, ship loader, overhead conveyor and services were to remain. The support steelwork was to be repainted and two new beams installed at the rails.



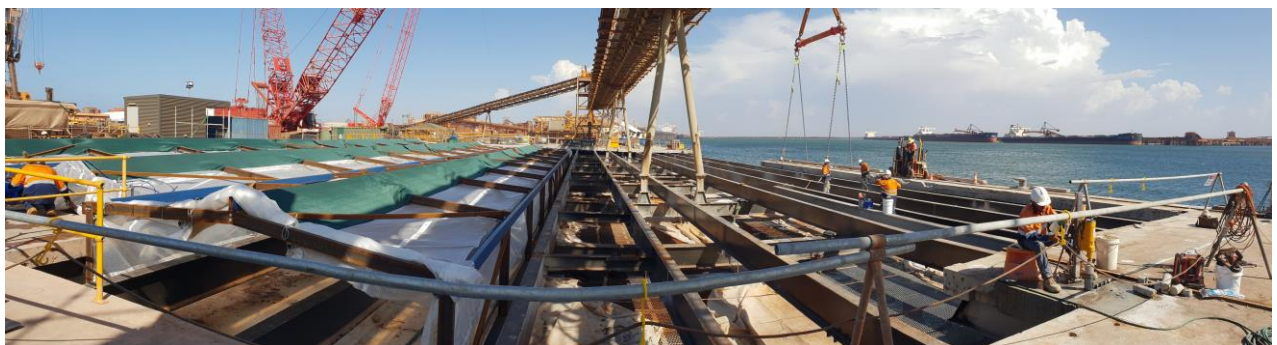
Suspended access and concrete cutting – note concrete lifts beneath overhead conveyor

The works was planned as two 8week shutdowns for the deck and one 3week shutdown for the fenders.

The scope included:

- Installation of suspended scaffold access decking beneath the wharf
- Temporary support of miscellaneous services beneath the deck
- Demolition of the concrete deck in panels up to 60t
- Installation of new steel beams at the rails
- Installation of frp soffit form panels and temporary edge forms
- Concrete works including stainless steel rebar
- Removal of fenders, walers and piles
- Install new fender panels and braces beneath the deck

Roam Marine assisted with design of all the temporary works including, crane selection, suspended access, blast/paint shelters, edge forms, demolition method, concrete deck lifts, fender lift, rollover and installation and fender brace installation



Suspended access, blast/paint shelters and rail beam lift



Concrete deck removal – up to 60t



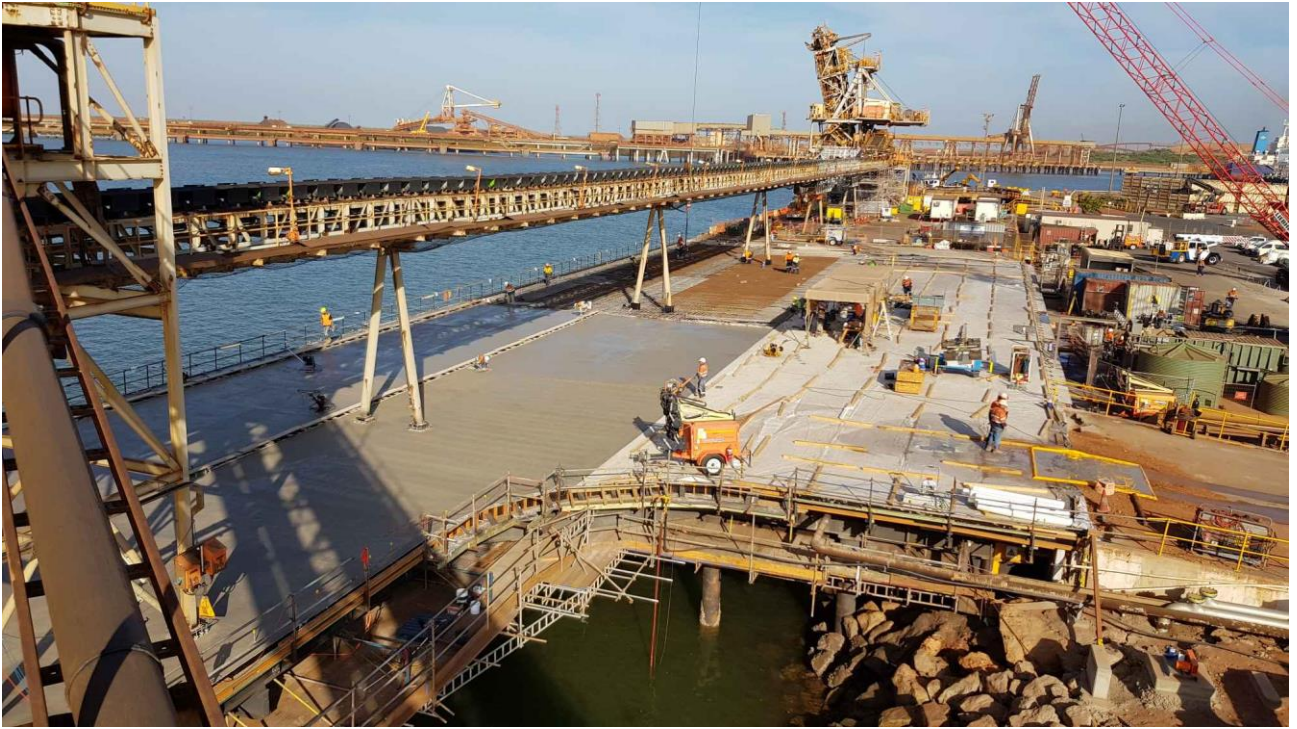
400t crane with 150t maxer at 15m radius

Despite the challenging schedule and complexity of the works the project was completed in just two 8week shutdowns.

The use of Roam Marine's suspended access to 100% of the deck and the big crane accelerated the demolition by allowing large deck sections to be removed and substantially reducing the cutting scope. The innovative method of installation of complete fender assembly beneath the deck without requiring deck access enabled the fenders to be installed concurrently with the deck works thereby deleting the 3rd shutdown and finishing well ahead of schedule.



First concrete pour ~80m*15m was 5 weeks after start of the shutdown



Second concrete pour 6 weeks after start of the shutdown



Third concrete pour 7 weeks after start of the shutdown