



ROAM MARINE

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Project: Port Hedland – Berth 1 Extension

Client: Port Hedland Port Authority

Contractor: Marine & Civil

Year: 2004/2005

Contract period: 10 months

Project scope:

Extension of Berth 1 which is used for handling minerals, general cargo and liquids. The extension is to provide simultaneous access for two or more vessels up to 60,000DWT. The scope included complete structural, mechanical, electrical and bulk earthworks.

The berth is constructed of steel tubular piling and a combination of precast and insitu concrete decking. The fender system consists of twin supercones at 10m spacing. The berth is constructed over BHP's tunnel used to transit iron ore to/from multiple facilities



Roam scope:

Engineering Manager for the project undertaking design coordination with consultant, drawing review and constructability reviews for piling, slab placement, insitu concrete pours and installing fenders. In addition, ground conditions and driving criteria for piling were investigated.

Design of temporary works including travel mats for a 100t construction crane. Design of the fender system based on energy principles of incoming vessels. Mooring analysis for permanent works. Design of tension pullout test.

Roam was also responsible for on site coordination of piling works and PDA testing. Vibration due to piling was monitored inside BHP's tunnel in conjunction with a specialist Contractor.