

RG TANNA COAL TERMINAL, QLD

STONE COLUMNS & WICK DRAIN GROUND IMPROVEMENT



Sustainable Technology



Client: Central Queensland Port Authority
Consultant: GHD Geotechnics

Specialist Contractor: Austress Menard Pty Ltd

THE PROJECT

Central Queensland Port Authority engaged Austress Menard as a specialist contractor to design and install Stone Columns to the perimeter of the R G Tanna Coal Terminal Stockpiles 19, 20 and 21 Expansion Project.

The project involved the construction of three new coal stockpiles, gantries and reclaim tunnels connected to the expansion of the existing coal loading facility and wharf.

AUSTRESS MENARD'S ROLE

Austress Menard was awarded the project in September 2006 as a specialist contractor to carry out the design and installation of Stone Columns.

During the tender period and post award Austress Menard undertook a detailed design based on predefined design criteria, including the formulation of soil profiles and detailed slope stability analysis. The final design called for the installation of stone columns in a 30 meter band around the perimeter of the coal stockpiles to guard against slip circle failures due to the loading of the coal stockpile.

Stone Columns were installed around critical infrastructure located around the perimeter of the stockpiles, including light towers, refuelling stations and conveyors and overhead gantry supports.

Austress Menard mobilised two top feed wet method vibroflots to complete the works over a twenty week program.

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