

# RG TANNA COAL TERMINAL

STONE COLUMNS & WICK DRAIN GROUND IMPROVEMENT



**MENARD BACHY**



**Client:** Central Queensland Port Authority  
**Consultant:** GHD Geotechnics

**Specialist Contractor:** Menard Bachy Pty Ltd

## THE PROJECT

Central Queensland Port Authority engaged Menard Bachy 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.

## MENARD BACHY'S ROLE

Menard Bachy 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 Menard Bachy 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.

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

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