

# WYARALONG DAM ALLIANCE

ROCK ANCHORS & DRAINAGE HOLES



**menard BACHY**



**Client:** Wyaralong Dam Alliance (WDA)  
**Alliance:** Macmahon Contractors, Wagners  
**Team:** Quarries and ASI Constructors

**Sub-Contractor:** Menard Bachy Pty Ltd

## THE PROJECT

The Wyaralong Dam is an integral part of the Queensland Government's plan to ensure a safe and sustainable water supply for the South East Queensland growing population and is located between Beaudesert and Boonah. The 500m long x 48m high dam was constructed as a RCC (roller compacted concrete) dam during a continuous 24hr cycle. This is the first Dam built in SEQ in 20 years and is the 5<sup>th</sup> largest dam in the SEQ Water Grid. Due to the heavy rains experienced throughout December and January, the dam was completely filled in just under 25 days.



## MENARD BACHY'S ROLE

Menard Bachy was contracted to undertake the drilling, installation and grouting of ground anchors and drainage holes for the Wyaralong Dam Project. The scope of work included:

- Drilling drain holes at Crest to Gallery, Gallery to Foundation and Foundation drains.
- Drilling, installation & grouting Anchor bars at both spillways, crest to RCC and left/right abutments.

A hydraulic blast hole rig was used to do the majority of drilling for the external drainage holes and for all of the rock anchoring works. Due to dimensional limitations of 2400 high x 2000 wide and access restrictions both into and within the inner gallery itself, a mini rig was converted from diesel to electrical in order to drill within the confined spaces of the dam gallery. Various issues and difficulties arose throughout the gallery drilling operations, however all such issues were overcome whilst working in close liaison and partnership with WDA. Drilling, grouting and anchoring works commenced on site in July 2010 and were successfully completed in late December 2010.