

# 13 Project Profile

Principal Contractor:  
*ABI Group*

## **Powers at** Warragamba Dam upgrade

This project required the construction of an auxiliary spillway separate from the adjacent 140m high existing dam structure. The spillway is carved out of the sandstone to a depth of 50m with over 55000m<sup>3</sup> formed concrete used in the construction. Because Warragamba Dam and its catchment provides drinking water to over 80% of Sydneysiders, heavy emphasis was placed on use of environmentally friendly products and safe work practices. Products such as Acrylic AC100<sup>®</sup> and Power-Fast<sup>®</sup> adhesives that could be in contact with water during and after construction, required approval prior to use to ensure these safety standards were maintained.

### Main Products used:

Power-Fast<sup>®</sup>  
Carbide  
AC100<sup>®</sup>  
Screw-Bolt<sup>®</sup>  
Power-Bolt<sup>®</sup>  
Power Foam

### Applications:

6000 M16 SS rods with AC100 adhesive were used on the spillway drainage covers.

26mm diameter Power-Bolt<sup>®</sup>-s were used on the cover plates on the roadway across the top of the dam wall, these high strength anchors that could sustain the 50-ton mining trucks and equipment constantly crossing.

Power-Fast<sup>®</sup> adhesive used extensively for rebar installation throughout the project.

12mm Screw-Bolt<sup>®</sup>s were used for the balustrade across the top of the spillway and dam.

