

Warragamba Deep Water Access Project

Pumping Station Mechanical Works

Key Elements

- Between 500 and 1000 ML/d capacity pumping station
- Four 2.4 MW pumps
- Pipework up to 2.7m in diameter



Pump Testing

Background

Warragamba Dam holds 2,030 GL of raw water at full supply level of which 174 GL was previously inaccessible. In order to gain access to deep water in the Warragamba Dam, a 1000 ML/d, 10 MW pumping station was constructed.

Project Scope

Water Services was engaged by the Sydney Catchment Authority in designing the deep water extraction system. This included design work for the water pumping station and necessary pipe works. This also consisted of all the electrical aspects of the design such as power systems, instrumentation & automated control systems.

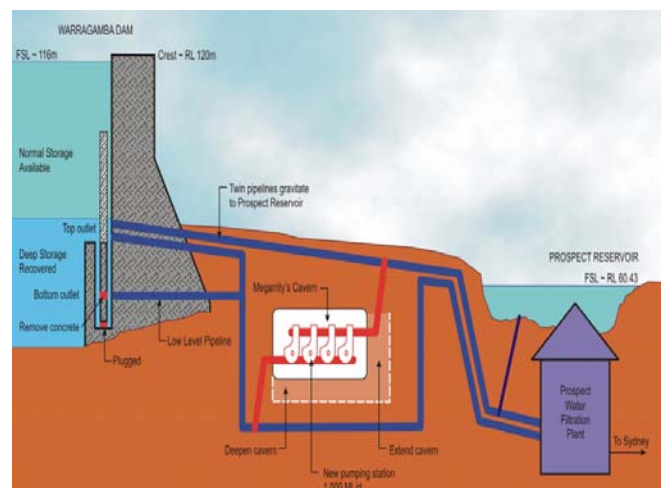
Our Role

Water Services provided concept, design & construct tender documents, control philosophy and technical advice throughout the project. In addition to the mechanical work and consultancy work included civil, process and electrical aspects.

Outcomes

The outcome of this project was an 1000 ML/d pumping station capable of tapping into much deeper water in the Warragamba dam, providing improved drought security for the greater Sydney region.

Location: **Warragamba, NSW**
Client: **Sydney Catchment Authority**
Project Description: **Warragamba Dam Pumping Station**
Total Project Value: **\$ 63 M**
Consultancy Fees: **\$ 1 M**
Year Completed: **2007**



Concept of the work at Dam

Water Services

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