

Ballarat Water Treatment Project

PROJECT DETAILS:

Location:	Ballarat, Victoria, Australia
Contract Value:	A\$25 million (1999)
Contract Period:	17 months
Safety Statistics:	Manhours: 157,627 LTIFR: 12.7



CLIENT: Thames Water Ballarat Pty Ltd

Scope of Work:

Clough has successfully designed and constructed two water treatment plants at Lal Lal and White Swan reservoirs near Ballarat in Victoria. The project was undertaken for Thames Water who has a 25 year build, own, operate, transfer (BOOT) contract with owner, Central Highlands Water.

Each plant has a capacity of 65 Megalitres per day together with associated pumping stations, clear water storages and water mains.

The treatment process at each site is identical and involves chloramination (chlorine, lime and ammonia) for disinfection, powdered activated carbon for taste and odour control and potassium permanganate to control manganese levels. Both plants are designed to remove protozoan cyst such as cryptosporidium, giardia and other water borne parasites.

The treated water is stored in roofed service basins prior to distribution to supply 762mm diameter gravity mains at each site. The contract also included an 11km 225mm pipeline to service the Creswick township.

The project had stringent requirements imposed by the Environment Protection Authority (Victoria). The environmental management plan developed for the project achieved third party certification through SGS International Certifications Services to ISO AS/NZS 14001 Environmental Management. This demonstrated compliance of Clough's newly developed environmental management systems and processes.