

Brief: Hunter Water Reservoir Detratification Process

Client: Hunter Water Corporation

Storage: Chichester Dam

Location: Dungog NSW

Hunter Water Australia operate the Chichester dam North West of Newcastle. The dam has had a history of high concentrations of manganese and Cyanobacteria. WEARS was contracted by Hunter Water Corporation to provide a reservoir system to minimise the effect of these concentrations.



A system providing approximately 12m³/s of flow and using only ~6kW of electrical energy was installed and commissioned which included SCADA connected communication operational and control feed backs to the operations group.

The WEARS system was installed to replace the high energy inefficient compressed air units that were using 100kW of electrical energy and a reported \$20,000 p.a. for maintenance alone. The system installed at Chichester is expected to make the compressors redundant.

