

Brief: Reservoir Destratification Research on Metallic Ion Removal

Client: **Gold Coast City Council**

Storage: **Little Nerang Dam**

Location: **Located in the Gold Coast, Qld**

Little Nerang Dam is somewhat different in that this reservoir is in a pristine catchment with little or no phosphorous run off from agriculture or domestic grey water.



It does however have a historical problem with manganese and to a lesser extent iron. The storage is about 8,900ML and approximately 32m deep at the deepest point near the dam wall. A destratification unit (as shown above) has been running intermittently since 1997. This unit has produced the desired effect of manganese and iron removal to the design depth.

The effect of the **SMDI-5** on Dissolved Oxygen Concentrations in Little Nerang Dam.

