

Gladstone Area Water Board

Boat Creek Pump Station Reinstatement

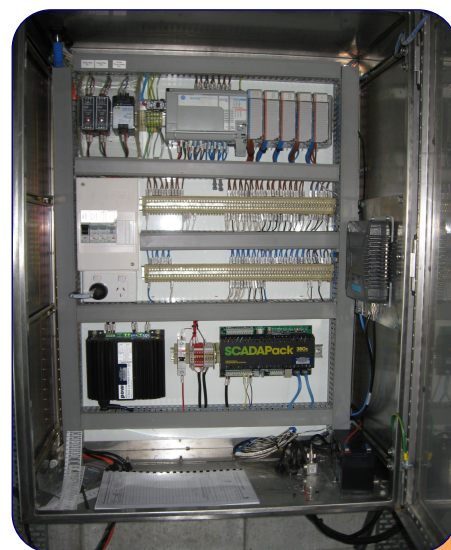
Background:

The Gladstone Area Water Board's infrastructure at Boat Creek Pump Station consists of a 36ML raw water storage reservoir and pump station. In 2002 the reservoir was decommissioned and the pump station reconfigured for delivery of potable water to another reservoir using new, smaller pumps. In 2012, it became necessary to increase security of supply to customers in the northern region of the raw water network. Hence GAWB decided to reinstate the reservoir and raw water pump station to provide an off-line storage.

As Electrical consultants Welcon Technologies was responsible for the detail design of a new 415V Switchboard, as well as the design and supply of a new Programmable Logic Controller (PLC) system to provide fully automatic control of the pump station.

Welcon personnel prepared a Control System Functional Specification and completed the required PLC logic programming, as well as the configuration of new screens for the existing CitectSCADA HMI system, to provide remote control and monitoring.

To ensure well-managed testing and commissioning, Welcon prepared detailed electrical and control system commissioning plans and test sheets; and provided onsite commissioning assistance and training.



Project Specifics

Client	Gladstone Area Water Board
Location	Gladstone , QLD
Year Completed	2012
Size / Quantities	36MI Reservoir and pump station,
Services Provided	<ul style="list-style-type: none">• Detailed design for:<ul style="list-style-type: none">• Main Switchboard• Communications System• PLC and SCADA Systems• Programming of:<ul style="list-style-type: none">• PLC and SCADA Systems• Test & Commissioning Plans• Site Commissioning• Operator Training
Delivery Method	Electrical Engineering Consultant