

## case study



# Huia Water Treatment Plant Chemical Area PLC Migration

*Project: Chemical Area PLC Migration*  
*Client: Watercare Services*  
*Location: Huia Water Treatment Station, Waitakere*  
*Contract Value: \$165k*

Watercare's Huia Water Treatment Plant filters and treats 25% of Auckland's 370,000 m<sup>3</sup> of water used daily.

Electrix was awarded the electrical works associated with the installation and upgrading of the chemical dosing systems at the Huia station. All systems are controlled by PLC controllers and managed at the plants main control room. The old dosing control systems were run down, out-dated and unable to cope with Auckland's ever growing demand for clean water.

Because of the importance of the water supply and the dosing process, all the old plant had to be kept fully operational. The new plant had to be fully tested and commissioned before the old systems could be removed. As part of the PLC migration parts of the old system had to be rewired to the new control panels and this required careful planning. Then the project grew as extra stages of dosing systems were included into the contract.

This complex project was broken into a number of stages to allow for the installation, changeover and commissioning process. Much of the work involved working around some very dangerous chemical areas and in quite confined spaces with many potential hazards.

The team working closely with the engineers from Watercare and the consultants ERGO. The engineers requirement on this project were stringent and often demanding with tight time frames for system integration.

By having flexible resources to meet the project demands, the service team have delivered a project of high quality and within project deadlines.



Electrix Technician prepares to wire in a new circuit to the PLC control cabinet



A neat row of new Variable Speed Drive control cabinets installed and wired to dosing pumps

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