



## UPPER NIHOTUPU DAM

Watercare Services Limited, Auckland

### Project:

Upper Nihotupu Dam and Hydro Upgrade

### MTL Role:

Working closely with Watercare Services Ltd, MTL led a design team for a major upgrade at Upper Nihotupu Dam in the Waitakere Ranges Regional Park. The upgrade ensures the dam complies with stringent Resource Management Act & Building Act requirements. Two 1kW 24V Eco-Innovation micro-hydro generators are installed to power controls & instrumentation, including 230V actuated 600NB intake valves via a 5kW inverter. Control & consent compliance monitoring is via radio to Watercare's Newmarket control room.

### Project Outcome:

Upgrade of Watercare Services Ltd, Upper Nihotupu Dam ensures a sustainable water resource for the next 100 years in the Waitakere Regional Park. Meeting the consent discharge consent deadlines 12 months from kick-off was a major achievement.

### Project Partners:

McMahon Electrical, SKM, NZ Controls, Controlweb, Brian Perry Civil, Canadian Pacific Ltd, Clarksons, Service Engineers



*"It was rewarding to work with a focused and innovative design and construction team, where solving the issues was always a team approach."* **Don Purdie – MTL Project Manager**

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