

BUSINESS CASE PROPOSAL

TITLE: Hygiene Guide

SUMMARY: Develop guidance material outlining codes of practice to prevent water supply contamination.

BACKGROUND: Contamination of the water supply can occur at reservoirs and throughout the reticulation system, as a result of installation of new equipment (including pipes, valves, fittings, reservoirs and tanks), inspections, repairs and maintenance activities.

Currently industry guidance on managing hygiene risks to the water supply system is fragmented and not presented in a format accessible to those who need to use it (water and wastewater operations staff and managers).

At least three authorities (Watercare, Tauranga and Western Bay of Plenty) have produced documents outlining codes of practice to prevent the contamination of water supplies. There are also other existing resources addressing hygiene issues shown in the table below.

Organisation	Document
Watercare	Code of Practice for Water Reticulation Disinfection
Tauranga city	Hygiene Code of Practice
World Health Organisation (WHO)	Safe Piped Water: Managing Microbial Water Quality in Distribution Systems - Chapter 5: Precautions During Construction and Repairs
Ministry of Health	Water Safety Plan Guides for Drinking Water Supplies: Distribution System - Operation
American Water Works Association (AWWA)	C651-05 Disinfecting Water Mains C652-11 Disinfection of Water-Storage Facilities C654-13 Standard for Disinfection of Wells

PURPOSE: Mitigate contamination risks to the water supply system by providing water and wastewater operators and managers with reference material on hygiene good practice.

DELIVERABLES: The guidance would be used to produce a user friendly document, for water operations staff and managers. The document would be produced in brochure format and be published in web accessible and hard copy formats.

SCOPE OF WORK: Existing material will be collated by Water New Zealand into a user friendly document. The project will be overseen by a project advisory group consisting of relevant stakeholders (e.g. Connexis, Ministry of Health, contractors and water supply managers). Material will be developed into an accessible document and published in web and hard copy formats.

TIMETABLE: Delivered in 2017.

BUDGET: A maximum budget allowance of \$15,000 (excluding GST) will be provided to cover Water New Zealand staff time for material collation and project development, purchase of related standards, and document publishing costs. The project will be funded through the Water Services Managers Group project levy.

AUTHORITY: John Pfahlert, Water New Zealand CEO.

PROPOSER: The Water Services Managers Group