Dead Sections in the Bulk Distribution System

1.0 Objective:

- To ensure that water that has been contained in dead sections within the distribution system does not get mixed with fresh water in the system.

2.0 Purpose

- To remove water from dead sections of the system before connecting to live sections.

3.0 Responsibility

- All Pipelines Team

4.0 Procedure

This procedure applies to all wholesale water pumping stations.
Duty pumps shall be rotated at least at three monthly intervals.
All maintenance, planned or unplanned, is recorded on the asset management system.

All dead sections have been identified on Drawing No. A1-9890/03-BS (Wholesale Water Supply Dead Legs Diagram).

During job planning stages all dead sections will be identified from the drawing and listed under the dead leg section of the action plan.

A method to flush the section will be devised at this stage, as no two systems are the same. A general guide is to flush the system until the discharge runs clean then do a chlorine residual test.

No water will be put into the distribution system until a chlorine residual of more than 0.2 ppm is achieved (except for the unchlorinated artesian supply).

Where the water supply is unchlorinated (as in the artesian system), the supply will be flushed until the discharge runs clear.

In the event that a dead section has to be used in a situation other than a planned operation, the same procedures will apply, i.e., identify the dead section from the dead legs drawing and devise a flushing plan.

5.0 Records

A record of the flushing and chlorine residual tests using the Flushing Record Form and is to be filed at Pomare Depo.