than 10mg/1, the disinfection process shall be repeated until 10mg/1 is reached, or as instructed by the Distribution Company.

(ii) After successful chlorination, the system shall be immediately drained and thoroughly flushed with clean water. Flushing shall continue until the free residual chlorine is at the level present in the potable water supplied.

(b) Other disinfectants:

(i) The system shall be filled with the approved disinfectant solution at the initial concentration and for the contact time specified by the manufacturer. If the residual amount of the approved disinfectant at the end of the contact time is less than the manufacturer's recommendation, the disinfection procedure shall be repeated.

2.89 For a service connection less than 50mm in diameter, the Distribution Company must be satisfied that the water supplied is wholesome.

2.90 Should the hydrostatic test fail, and repair work involve emptying the pipeline, the disinfection and subsequent testing procedures shall be repeated.

2.91 Once flushed, the water in the new pipelines shall be allowed to stand for a further 24 hours. Samples shall then be taken from locations directed by the Distribution Company and immediately submitted for chemical and bacteriological testing at an approved laboratory.

2.92 Chemical and bacteriological tests shall normally be undertaken by the Distribution Company laboratory or a laboratory approved by the Bureau.

Acceptance criteria for disinfection

2.93 The pipeline shall not be considered acceptable until faecal coliforms are undetectable in a 100ml sample. As for the bacterial count, the recorded total chlorine (minimum of 0.2 and maximum 0.5mg/l) and the pH shall be within acceptable limits as defined within the Water Quality Regulations. If the tests show that a satisfactory potable water standard has not been achieved, the test shall be repeated.

Flushing

2.94 After all hydrostatic testing and disinfection has been completed and the pipeline is ready in all other respects, the new pipeline shall be flushed out with potable water from the existing mains to which the new pipeline or network is or will be connected. Flushing entry and exit points shall be designed to allow a minimum of 1.0m/s water velocity in the main pipeline to remove any sand or other debris. The quantity of flushing water shall be calculated as the equivalent to 3 times the volume of the pipeline to be flushed unless directed otherwise by the Distribution Company.