

Pr9085 - Pressure Testing of Sewer Gravity Mains Work Instruction

Document Owner	Manager Operations Support
References	WSAA Sewerage Code of Australia, WSA 02 – 2002 V 2.3

1. Purpose

This work instruction details the process of pressure testing sewer gravity mains. Pressure testing of gravity mains must be carried out to identify points of leakage and potential pipeline infiltration and exfiltration due to inadequate pipe seals and joints.

2. Scope

This work instruction applies to newly constructed sewer gravity mains forming part of the Unitywater sewer network. It applies to all pipe materials and pipe diameters of <DN 1500. The process detailed in this instruction must be followed by all persons undertaking pressure testing of Unitywater sewer gravity mains.

The definitions used in this instruction are:

Term	Meaning
NATA	National Association of Testing Authorities, Australia
Vacuum Testing	Pressure testing with negative air pressure as test medium
WSA	Water Services Association

3. Instruction

Once the Constructor has completed construction of the sewer gravity main or the section of sewer gravity main to be pressure tested and Unitywater has been notified, the sewer must be tested in accordance with WSA 02, Section 22.4.

Vacuum testing must be undertaken unless another test method is specified and approved by the Unitywater Project Manager.

Risks associated with other test methods must be identified and managed appropriately.

The following must be recorded during the test:

- test section pipe information (length, diameter, material, class),
- maximum negative pressure (or positive pressure for low pressure air testing), and
- drop in vacuum over test period (or drop in positive pressure for low pressure air testing).

A Pressure Test Certificate must be produced on completion of the pressure test and submitted to the Unitywater Project Manager for approval.

Unless otherwise permitted by the superintendent, testing must be arranged to be undertaken by a NATA accredited organisation that holds current listing for the relevant test.