

ACS1410 Pipe cleaning

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ACS1410.1 Scope

This Specification covers the cleaning of stormwater pipelines and manholes for the following purposes:

- a) Cleaning prior to inspections
- b) Cleaning prior to pipe rehabilitation
- c) General cleaning to improve hydraulic performance
- d) Silt removal.

ACS1410.2 General requirements

Preparation, setup, and operation of cleaning equipment, capture and disposal of material from the pipe or manhole, shall all be undertaken in accordance with Section B1.1 and D1.1, NZGPIM4. This specification sets out only the particular requirements for the cleaning of pipes or manholes or any specific changes to NZGPIM4. This Specification shall be read in conjunction with NZGPIM4. Where there is a discrepancy between this Specification and the NZGPIM4, this Specification shall take precedence.

The Contractor, when using cleaning equipment or undertaking any of the associated cleaning activities, must take all necessary precautions to ensure that these activities do not:

- a) Damage or flood public property
- b) Damage the pipe being cleaned or any associated conduits or structures.

Cleaning must generally be carried out from a downstream manhole, in a downstream direction.

Any work that is notifiable works under the Health and Safety in Employment Regulations shall be lodged with WorkSafe New Zealand. Copies of notifications shall be supplied to the Engineer.

The cleaning work shall include manholes, dead-end pipes and any other structure encountered. Cleaning of manholes shall include benches, and walls to the soffit level of the highest pipe connection to the manhole.

The Contractor is responsible for selecting the most appropriate method for ensuring that pipes are fully cleaned. This may involve hydraulic jetting, rodding, dredging or any other suitable method.

ACS1410.2.1 Light cleaning

Light cleaning is as defined in B1.1.2.2 NZGPIM4 is not generally undertaken prior to CCTV inspections.

ACS1410.2.2 Heavy cleaning

Heavy cleaning is defined in B1.1.2.1, NZGPIM4. The expected outcomes of heavy cleaning as described in Table B1.1.2, NZGPIM4. No heavy cleaning shall be undertaken unless instructed by the Engineer.

ACS1410.2.3 Cleaning structurally suspect pipes

Where a pipeline is known or suspected to be in poor condition the cleaning pressure shall be reduced as set out in B1.1.3 NZGPIM4. Pipes that are known or suspected to be in very poor condition shall not be cleaned prior to inspection unless instructed by the Engineer to do so. Similarly, if the Contractor suspects that the pipe is being damaged during cleaning (e.g. pieces of pipe material are observed in the debris trap), cleaning shall cease immediately, and the Engineer notified.

ACS1410.2.4 Permits and access to water for cleaning

The Contractor shall be responsible for obtaining any necessary permits, additional equipment (including approved standpipes) from Watercare Services Limited (WSL), (including compliance with permit conditions) for taking water from WSL's water mains.

ACS1410.2.5 Removal and disposal of materials

All sludge, silt, debris, roots, scales, and other materials resulting from cleaning operations must be collected at the manhole immediately downstream of the section being cleaned. Passing material from manhole section to another manhole section will not be permitted.

The Contractor shall be responsible for removal and disposal of the material dislodged from the operations such as cleaning, root removal, dredging, de-scaling, etc. All disposable materials must be removed from the site at the end of each workday and must not be allowed to accumulate, except in totally enclosed containers. Material must be disposed of at a location approved by the Engineer.

The Contractor shall ensure that no excessive volume of silt or other material is allowed to wash into the pipe section during the cleaning operation. The Contractor shall notify the Engineer immediately when collected material (not including root matter) from any one collection location (i.e. access chamber or manhole) exceeds 500 kg, or if there is risk of ground subsidence.

Silt or debris disturbed by pipe cleaning or other CCTV activities shall not enter watercourses. When working close to a watercourse, the Contractor shall take appropriate measures to ensure that debris is prevented from entering the watercourse.