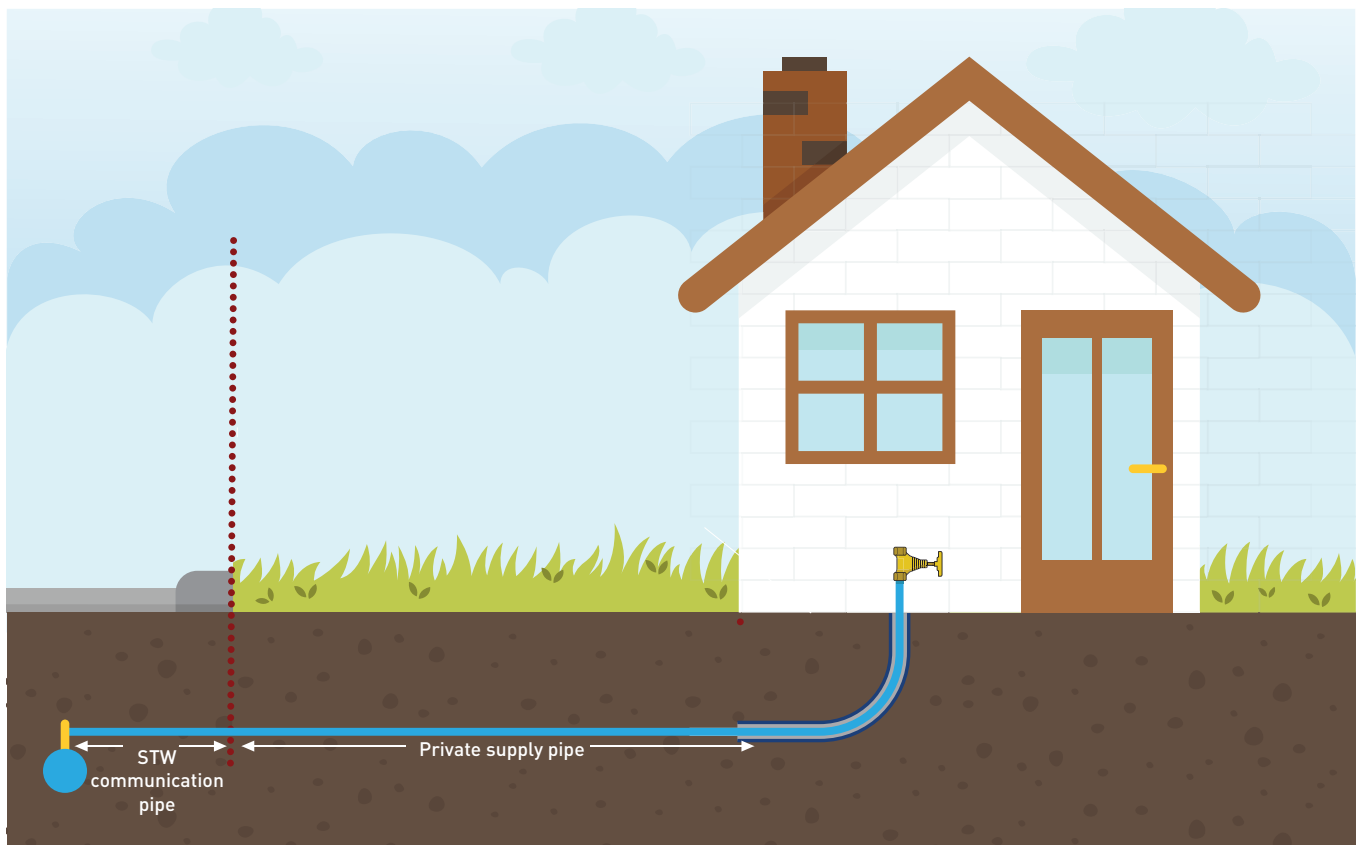


Customer chlorination, pressure test and sampling guidance

In order to safeguard water quality and public health, it is a requirement of a customer that all private supply pipes 50mm or above are pressure tested, chlorinated and sampled before a connection is allowed to be made to the existing public water supply.

If there has been ingress such as flood water, sewage, etc, either during the laying or storage of pipework you will also need to chlorinate regardless of the diameter and length.

1. You must have a Chlorination certificate that is in date on the day we make your connection. Chlorination certificates are valid for 14 days from the date of issue. Results outside of this period will be invalid and we will not be able to complete your connection. Please do not complete your chlorination until you have received your connection date.
2. Please provide your Customer Connection Manager the evidence of your pressure test results, the chlorination certificate and the sampling results before your connection date. We will not connect a supply pipe until STW has approved all test results.



Tests required

Chlorination

The private supply pipe must be sealed (fusion or compression) at both ends after testing with fittings that comply to regulation 4 of The Water Supply (Water Fittings) Regulations. The date of chlorination must be recorded with the Bacteriological Test results. Chlorination must only be undertaken by a competent person in line with BS 6700:2006

Bacteriological and Chemical testing

The bacteriological and chemical samples should be analysed by a UKAS accredited laboratory. Unsatisfactory results for any of these tests will need the private supply pipe rechlorinating and testing.

Pressure test

The test pressure for any MDPE/HPPE pipes should be 1.5 times the pressure rating of the pipe. For example, if the pipe the customer has laid is rated at 8 bar, the test pressure should be 12 bar. If the pipe is rated at 10 bar the test pressure will need to be 15 bar. The pressure test must be in accordance with the Water Research Council test method Type 2 or Type 1. Pressure test must be completed in accordance with pass criteria in standard IGN 4-01-03

Customer chlorination, pressure test and sampling guidance cont.

Definitions of pipework

Private supply pipe

The pipe between the boundary of the property or boundary stop tap and the property. This pipe is not part of Severn Trent's infrastructure and is the responsibility of the customer.

STW communication pipe

The pipe between the boundary of the property or boundary stop tap and the water main. This pipe is part of Severn Trent's infrastructure and is often referred to as the communication pipe.

Bacteriological and chemical sample - pass criteria

Test criteria	Pass requirement
Coliforms	Zero Coliforms
E.coli	Zero E.coli
Turbidity	Less than 2 NTU
pH level	Between 6.5 and 9.5
Non Coliforms	Less than 100
Quantitative Odour	No Odour
Quantitative Taste	No Taste

Evidence required by Severn Trent (Please email this to your Customer Connection Manager)

The following table details the information required by Severn Trent in order to complete your connection. It is important that laboratory reports and test certificates are sent to Severn Trent and not a 'Certificate of Conformance'.

The tests referred to should be in accordance with this letter BS 6700:2006 and the Water Supply (Water Fittings) Regulations 1999. STW reserves the right to ask for additional samples and testing prior to a connection being completed if circumstances relating to a connection are identified that could impact future water quality and public health.

Pressure test certificate	Chlorination Test Certificate	Bacteriological sample results
- Rating of pipe (bar) - Test pressure (bar) - Length of test (hr) - Pressure lost during test (bar) - Company who carried out pressure test	- Pipe length (m) - Pipe diameter (mm) - Flush time (mins) - Flush rate (litres/minute) - Disinfection dose (mg/l) - Standing time (hr) - Residual at end of disinfection time (mg/l) - Flush time to clear chlorinated water (hr) - Residual after flushing (mg/l) - Date of disinfection - Disinfectant used - Confirmation that pipe was capped after disinfection	- Total chlorine (mg/l) recorded at time of sampling - Free chlorine (mg/l) recorded at time of sampling - Total coliforms per 100ml - Name of laboratory carrying out test - Total E.coli per 100ml - Turbidity - pH - Quantitative Taste - Quantitative Odour - Name of laboratory carrying out test

For further information contact your designated Customer Connection Manager.