

Disinfection of Water Pipework To Properties Previously Supplied via Natural Spring, Borehole or Other Similar Source.

1. Under the Water Supply (Water Fittings) Regulations 1999 untreated water taken from its natural state is regarded as a potential fluid category 5 risk to the public water supply.
2. Equally all water pipes and fittings that have been used to convey and store raw water are regarded as contaminated in the same manner.
3. For any existing property that has been previously supplied from a private natural source (be this a spring, bore hole or other similar supply) there is a fundamental prerequisite to have all internal and external pipes and fittings disinfected and tested prior to any connection being made to the public water supply.
4. Any existing lead or other pipework or fittings that do not conform to the current regulations will require replacing.
5. This will require the existing plumbing system to be out of use for a minimum of 5 days whilst full disinfection and testing is completed.
6. During the time when the internal plumbing system is disconnected Northumbrian Water can arrange a temporary supply. Although this supply can be used for domestic needs, charging and disinfection purposes it must be kept isolated.
7. The method of disinfection should be in accordance with BS6700 and the following is a typical method acceptable to Northumbrian Water.
 - The water pipework should be swabbed where possible. The swab having been immersed in a sodium hyperchlorite (Chlorox) solution of 1000ppm (1% Chlorox) or similar.
 - The pipework should then be flushed out to waste until the water is clear and free of air.
 - Inject the pipe work with a disinfection solution equivalent to 20 ppm of chlorox and when fully charged leave to stand for a minimum period of 20 to 24 hours.
 - Flush out the chlorinated water disposing safely to drain (not to a watercourse) until the background of the chlorine reaches that of wholesome water.
 - Once again leave to stand fully charged for 20 to 24 hours contact time.
 - Have samples taken by a certificated UKAS laboratory (see over) and analysed for bacteriological satisfaction. For satisfaction the bacteriological results should not exceed

A	Total coliforms	0 per 100 ml
B	E Coli (Escherichia or Faecal Coliforms)	0 per 100 ml
C	Colony counts @ 37° Celsius	50 per ml
D	Colony counts @ 22° Celsius	300per ml
 - In addition the free and total chlorine residuals must be measured and recorded on site prior to the sample being taken for bacteriological analysis.
 - If samples are clear the test results should be submitted to Northumbrian Water (ON THE ACCREDITED LABORATORY'S TEST CERTIFICATE).
 - If the test results fail it will be necessary to repeat the chlorination procedure.
- 8 **The new supply may be connected or reconnected to the public water supply only after approval by Northumbrian Water Ltd.**
- 9 A list of accredited testing laboratories within the north east is given overleaf.

Water Supply (Water Fittings) Regulations 1999 Guidance Note 5



Customer Services: 0845 7171100

UKAS accredited testing laboratories

Further information available from:- www.ukas.org

Alcontrol Laboratories
North East Laboratory
3 Lancaster Road
Hartlepool
TS24 8LN
Tel 01429 891333

Pattinson Scientific Services
Public Analysts Laboratory
Scott House
Penn Street
Scotswood Industrial Estate
Newcastle upon Tyne
NE4 7BG
Tel 0191 226 1300

Analytical & Environmental Services
Horsley Laboratory
Horsley
Newcastle upon Tyne
NE15 0PA
Tel 01661 855600

NEWTEC Laboratories Ltd
Belasis Court
Belasis Hall Technology Park
Greenwood Road
Billingham
TS23 4AZ
Tel 01642 370321

Norpath Laboratoryies Ltd
Unit 14
Enterprise Court
Seaham Grange Industrial Estate
Seaham
SR7 0PS
Tel 0191 521 4411

North Environmental Microbiology Services
The James Cook University Hospital
Department of Microbiology
Marton Road
Middlesbrough
TS4 3BW
Tel 01642 282601

North Environmental Microbiology Services
Health Protection Agency
Newcastle Laboratory
Institute of Pathology
General Hospital
Westgate Road
Newcastle upon Tyne
NE4 6BE
Tel 0191 273 2070