

DOMESTIC WATER RECORDS

LEGIONELLA LOG BOOK

RESPONSIBLE SITE STAFF

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LEGIONELLA CONTROL

WRITTEN SCHEME

WEEKLY

- Test all showers for correct operation.
- Inform the Scheme Manager if any units are faulty or broken.

MONTHLY

- Record the temperatures at selected taps from throughout the system that will give representative readings (sentinel taps);
 - The hot should reach at least 50°C after 1 minute;
 - The cold should be below 20°C after 2 minutes.

Sentinel taps are defined as the *nearest* and *furthest* outlets on the hot and cold water system and should be from around the extremities of the system if the building is large or complex

- Record the hot and cold water storage temperature;
 - The hot should be at least 60°C, the cold should be below 20°C.
- Clean and descale all shower heads.
- Purge and record the temperature of the shower mixers
 - The mixed supply should be able to achieve at least 43°C after 1 minute.*

QUARTERLY

- Take water samples to monitor the bacteria levels in the system.

ANNUALLY

- Inspect the hot and cold water storage and arrange for a clean and disinfection if required

ALWAYS REPORT FAULTS TO THE SCHEME MANAGER



**SAMPLE LOCATIONS
FOR WATER MONITORING**



SHOWER LOCATION

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SENTINEL TAPS

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COLD WATER TANKS

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HOT WATER
CALORIFIERS

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**WEEKLY CHECK
OF SHOWER OPERATION**



DATE	LOCATION	OK (<u>Y/N</u>)	FAULT NOTIFIED (if applicable)	SIGNATURE

WEEKLY CHECK OF SHOWER OPERATION



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WEEKLY CHECK
OF SHOWER OPERATION



DATE	LOCATION	OK (<u>Y/N</u>)	FAULT NOTIFIED (If applicable)	SIGNATURE

**MONTHLY TEMPERATURE MONITORING
(TAPS)**



DATE	LOCATION	HOT TEMPERATURE AFTER 1 MIN (Control : 50°C or above)	COLD WATER TEMPERATURE AFTER 2 MIN RUNNING (Control : 20°C or below)	FAULT NOTIFIED (If applicable)	SIGNATURE

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(TAPS)**



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MONTHLY TEMPERATURE LOG

COLD WATER TANKS AND HOT WATER CALORIFIERS



DATE	LOCATION / IDENTIFICATION	RECORD TEMPERATURE (Cold water tank should be less than 20°C) (Calorifier should be at least 60°C)	FAULT NOTIFIED (If applicable)	SIGNATURE

MONTHLY TEMPERATURE LOG

COLD WATER TANKS AND HOT WATER CALORIFIERS



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**MONTHLY CLEAN AND DESCALE OF SHOWER HEADS
AND TEMPERATURE LOG**



DATE	LOCATION	CLEAN & DESCALE COMPLETED (Y/N)	TEMPERATURE LOG (Shower should achieve at least 43°C after 1 minute's running)	FAULT NOTIFIED (If applicable)	SIGNATURE

**MONTHLY CLEAN AND DESCALE OF SHOWER HEADS
AND TEMPERATURE LOG**



DATE	LOCATION	CLEAN & DESCALE COMPLETED (Y/N)	TEMPERATURE LOG (Shower should achieve at least 43°C after 1 minute's running)	FAULT NOTIFIED (If applicable)	SIGNATURE



GUIDANCE NOTES

UNDERSTANDING TOTAL BACTERIA AND LEGIONELLA REPORTS

Sample reports are issued without a covering letter but all reports will indicate whether the results are satisfactory or whether remedial action is required. It is important to note the 'status boxes' at the top of the letter. If the '*satisfactory*' box is ticked then there is no further action required.

If some or all of the results are high then the '*remedial action required*' box will be ticked.

The attached notes give a general explanation of the various potential results and the appropriate level of response. Unfortunately it is not often a simple 'pass or fail' scenario.

DOMESTIC SERVICES

LEGIONELLA IN SHOWERS AND DOMESTIC DOWN SERVICES

If legionella are detected up to a level of 1,000 cfu/l the system should be thermally disinfected and shower heads should be removed and disinfected. Showers should be labelled as '*out of action*' until the results of a retest are known.

If legionella is detected at 1,000 cfu/l or above the infected systems must be taken out of service. They will remain out of order until they have been cleaned, disinfected and retested. It is also essential to survey the system to try to identify the possible source of the infection. All remedial works will be completed at the discretion of the scheme manager.

The level of response will also be affected by the number of positive results detected in a batch of sample; ie a low legionella count in all the samples may be as serious as a high count in only one sample.

TOTAL VIABLE COUNTS IN DRINKING AND DOMESTIC WATER

Total viable counts refer to an overall count of all the bacteria present in the water sample. This is a count of both harmful and harmless organisms.

The recommended levels for drinking water are very precise. The water sample is split and incubated at two different temperatures; the limits are as follows:

1 day @ 37°C	less than 10 cfu/ml
3 days @ 22°C	less than 100 cfu/ml

Ideally, the water in the domestic down services also conforms to the above limits. However, in view of the fact that domestic down service water (basin taps, showers, etc) are not intended for drinking there is more leeway on the interpretation of the results; guidance as per Appendix 1.

OTHER PATHOGENS

The following organisms should always be absent from drinking and domestic water.

Pseudomonas spp. / aeruginosa
Faecal Enterococci / Streptococci
Coliforms
E. Coli

If these organisms are detected the system should be cleaned and disinfected as soon as possible and the source of the infection investigated.

APPENDIX 1: DOMESTIC AND DRINKING WATER SERVICES

TOTAL VIABLE COUNTS: RECOMMENDED LEVELS (22°C COUNTS)

	TOTAL VIABLE COUNT *cfu/ml (3 days @ 22°C)
DRINKING WATER	Less than 100
HOT WATER (BASIN TAP)	Less than 1000
COLD WATER (BASIN TAP)	Less than 1000
MIXED SUPPLY (BASIN TAP)	Less than 1000
MIXED SUPPLY (SHOWER)	Less than 1000
HOT WATER STORAGE	Less than 1000
COLD WATER STORAGE	Less than 1000

* cfu = colony forming unit
or the number of viable (live and able to multiply) bacteria in the sample

KEY TO TVC RESULTS

DRINKING WATER	<p>TVC up to 100 cfu/ml @ 22°C</p> <p>TVC 100 - 500 cfu/ml @ 22°C</p> <p>TVC 500 - 2000 cfu/ml @ 22°C</p> <p>TVC 2000 cfu/ml and above @ 22°C</p>	<p>Acceptable.</p> <p>Slightly high but not excessive.</p> <p>TVC too high; flush the outlet thoroughly and clean if inspection shows it to be dirty.</p> <p>TVC excessive; clean and disinfect the outlet as soon as possible.</p>
<p>HOT WATER (BASIN)</p> <p>COLD WATER (BASIN)</p> <p>MIXED SUPPLY (BASIN)</p> <p>MIXED SUPPLY (SHOWER)</p> <p>HOT WATER STORAGE</p> <p>COLD WATER STORAGE</p>	<p>TVC up to 1000 cfu/ml @ 22°C</p> <p>TVC 1000 - 5000 cfu/ml @ 22°C</p> <p>TVC 5000 cfu/ml and above @ 22°C</p>	<p>Acceptable.</p> <p>Slightly high; we would recommend flushing the outlets and checking for any debris in spray plates or shower heads.</p> <p>TVC excessive; definitely clean and disinfect outlets and/or shower heads and flush thoroughly.</p>