



Apps Laboratories Water analysis

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Client: Tim Apps

Phone:

Sample: Number: Date:
Location:
Situation:
Feature:
Conditions:
Application

Summary

This test compares bacteria in filtered and unfiltered house water. The water source is an underground spring and water is collected at the surface in a small exposed holding pond. It is then pumped to a tank before being pumped on demand into the house. The unfiltered sample was taken at the kitchen tap. The filtered sample is passed through a dual cartridge undersink system. The first cartridge is a 1 micron sediment cartridge and the second is a Doulton Sterasyl ceramic cartridge with absolute rating of 99.99% to 0.9 micron.

Incubation plates were prepared by filtering 100 ml samples using membrane filtration (MF). The method used detects E coli, general coliforms and Aeromonas spp. Bacteria that don't fall into these groups can be considered a measure of aerobic plate count. No bacteria were detected in the filtered sample. By comparison, aerobic bacteria and coliforms were detected in the unfiltered water at levels considered low to moderate compared to levels previously recorded for similar situations. To check results a second 100 ml sample post filter was prepared by MF. Results were similar with 1 significant and possibly 3 more relatively small unidentified bacterial colonies present. Therefore aerobic plate count in the confirmation sample was between 1 and 4 CFU's/100 ml.

Physical:

Chemical:

Nutrients:

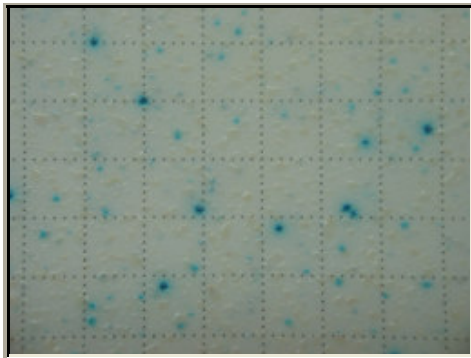
Metals:

Tim Apps

Sample Number:
Collie Rd Gembrook

Biological:

Measurement	Result	Units	Method	Comments	Levels
Aerobic plate count	4231	CFU's100 ml	MF Chromogenic	unfiltered	
Aerobic plate count	0	CFU's100 ml	MF Chromogenic	ceramic cartridge	
Aeromonas spp	0	CFU's100 ml	MF Chromogenic	ceramic cartridge	
Aeromonas spp	0	CFU's100 ml	MF Chromogenic	unfiltered	
Coliforms	0	CFU's100 ml	MF Chromogenic	ceramic cartridge filter	
Coliforms	186	CFU's100 ml	MF Chromogenic	unfiltered	
E. coli	0	CFU's100 ml	MF Chromogenic	ceramic cartridge	
E. coli	0	CFU's100 ml	MF Chromogenic	unfiltered	



Sample 413 unfiltered



Sample 413 filtered