

Community Hub, South of England

We recently became involved at a community hub project nestled in the heart of the southern countryside which provides indoor and outdoor activities and facilities for hundreds of visitors every day.

Problem

Over the course of several years the site had experienced a number numerous positive Legionella results as part of the regular water hygiene monitoring which was undertaken in accordance with HSG274 Part 2. samples.

As their appointed water hygiene subcontractor we carried out the initial risk assessment of the water systems and were on hand to offer advice at every hurdle. We undertook system disinfections using both sodium hypochlorite and hydrogen peroxide followed by re-sampling and, whilst this did improve results in the short term, the problems persisted, so further action was required.

We established that the hot and cold water temperatures were all in line with relevant guidelines and the maintenance team were flushing all taps twice a day, so turnover of water was good and the system was only 3 years old with no dead-legs or design faults.



Solution

Following consultation with the site staff and the incumbent maintenance contractor, we agreed that the only solution would be to install an automatic dosing unit to continuously disinfect the system. The system is small and there is no stored cold water so we opted for treatment with an approved hydrogen peroxide product known to effectively eradicate biofilms and allow easy control of disinfectant levels. We also installed a water softener as it is a hard water area and scale in water systems can be a great hiding place for harmful bacteria.

Conclusion

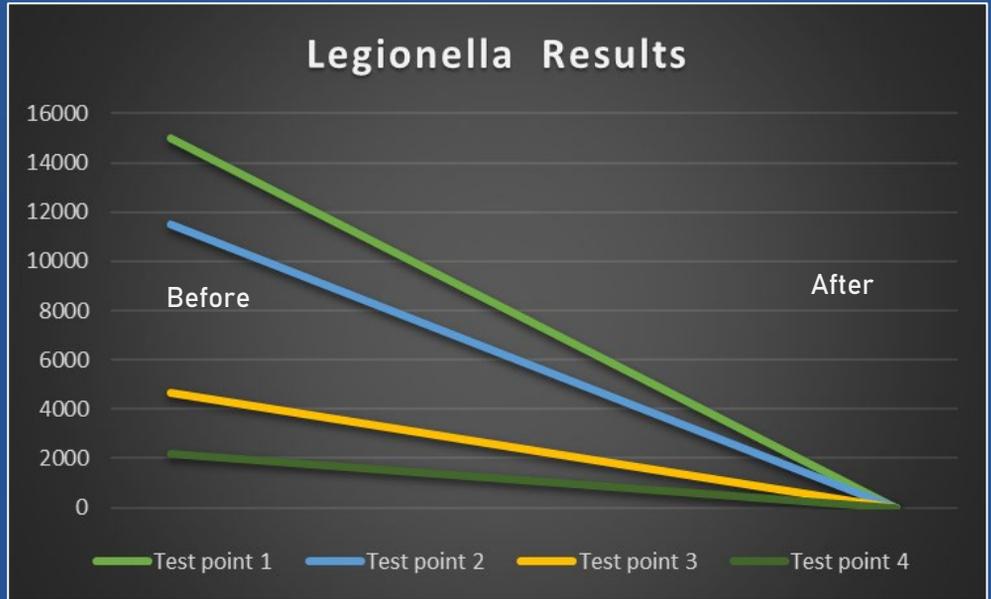
After installing the equipment, we carried out Legionella sampling after a period of 3 months and all samples came back clear and the client was happy and had confidence again in their water systems.



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Legionella counts of sero group 1 and species ranging from 150 to >15,000 cfu/L were detected, and after successful installation of suitable treatment plant were fully eradicated.

Ongoing tests have revealed no further elevated counts.



Aquarius Automatic Hydrogen Peroxide Dosing Set



Pegasus 50/5600SXT Water Softener



"When it was discovered that there was an issue with high readings of Legionella on site we received fantastic help and advice from our account manager who took us through all the options available to us to get the system clear again."

The whole Goodwater team, account manager, engineers and support staff, have been incredibly helpful and knowledgeable. "

Kate Miles
Facilities & Properties Officer