



Flowering Plants Ltd

'Irrigation Systems and Solutions'



Strategies for Difficult Waters

Carbonates, Iron, Sulphate, Metals, Salinity & Pollution

If the chemistry of your water supply is causing you problems, then we may be able to offer a solution. We have evolved a range of working methods which can be relied upon, given the resources which are normal in commercial horticulture. A simple trial should prove the benefits of our technology within 3 – 6 weeks.

We started in 1974 by converting carbonates into soluble fertiliser. In more difficult cases, we have precipitated sufficient of the problems. These are either settled out, or filtered. These precipitates frequently have a commercial value.

Some parameters may be useful. The lowest well water pH that we have worked with was 2.3 and the highest 12.8. The highest iron content was 37 ppm – enough to jam the pump! The highest alkalinity was 1018 ppm. The highest sulphate content was over 600 ppm. The highest conductivity was 4500. Toxins removed or locked up have included zinc, selenium, cadmium and arsenic.

Our trials prove the results on a small scale before proceeding further. In many cases, we have developed and refined the techniques concerned for wider application.

The starting point for our work is usually a moderately comprehensive water analysis. We then look at the work which is likely to be involved, and discuss the cost/benefit ratio with the customer. Depreciating that cost and the capital equipment involved for one medium sized nursery in England over 3 years, they found that the total charge including running costs was in the order of 3.5p per cubic M of water. That work allowed them to grow plants which were otherwise absolutely unsaleable on that nursery before.

Where very hard waters are involved, fertiliser savings of 30% - 40% are usually obtained, at the same time as improvements in crop quality.

We have also done a little work with reverse osmosis and ultraviolet systems.

In a different sector, we designed and built the system which eliminated Anthrax on Gruinard Island. We also evolved a system for a major oil company, which allowed them to digest a very large oil spill in the middle of a town, in about 6 weeks. This avoided the need to demolish several houses, a filling station etc.

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