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An alternative approach to Water Conditioning

As the push to find genuine sustainable solutions to water, wastewater and associated soil and environmental problems increases, a simple approach to water conditioning is beginning to be taken seriously because of its consistently good results in many diverse applications.

Adelaide company Hydrosmart claims it can provide answers to previously unsolvable water problems - without filters, membranes or the need for chemical additives.

Previously, users looking for water conditioners have been faced with using either reverse osmosis technology or acid, gypsum injection solutions. All these approaches require ongoing consumable additives.

Grape producers d'Arenberg, Pike's, Haan's, Grant Burge, Berringer Blass, Corriole and Table Grape Growers Australia are just a few of the hundreds of grape producers that are now using Hydrosmart's unique water conditioning approach for their businesses.

Adelaide Oval, Hindmarsh Island Marina, Clare and Willunga Golf Courses in South Australia, Mosman Park and Palm Grove golf courses in Western Australia and Rockhampton Showgrounds now use Hydrosmart's resonance frequency approach to overcome their water supply issues.

According to Hydrosmart, a commercial turf farmer in W.A recently watched the output of his turf farms grow 40% after installing Hydrosmart. This was in spite of an iron level of 20ppm in his bore water which

was previously causing major blockages and iron sclerosis problems to his farm.

Hydrosmart says that calcium bicarbonate moves from being detrimental to advantageous when it is taken from its large, root blocking, crystal format down to its smaller, more elemental nature. It becomes a nutrient source instead of a chemical compaction, scale-forming, filter-blocking problem. In doing so it boosts growth and vigour naturally, while reducing the need for users of hard, high bicarbonate bore water to dose irrigation regimes with calcium additives. These facts, the company claims, have been proven in scientific trials.

Last summer, BHP ran trials on a coal mine dam at Moranbah in Queensland and observed Hydrosmart's ability to reduce levels of algae and blue green algae. Lesley Chalkley the mines environmental scientist, documented increases in dissolved oxygen, decreased turbidity and decreases in algae and blue green algae counts in water treated with Hydrosmart technology (levels went from 300,000 to below 2,000 cells/ml)

Systems were installed next to a coal mine supply dam on its 200mm pipework. All water passing through the treated pipe has the highly-specific

bond breaking frequencies transmitted into it before use as it passes through the field of resonance generated by the processors mounted externally on the pipe.

Salt levels were around 7,000-11,000 TDS ppm over much of the 10-week trial period with high organic loads and nutrient sources entering from adjoining dam sources. As a result BHP are now using it for blue green algae, odour and reduced biomass impacts on another transfer dam trial at Blackwater Qld.

Another Qld. BHP mine will use it to treat highly-corrosive, scale-forming bore water which is the cause of many vehicle maintenance issues.

Hydrosmart's bond breaking approach produces softer water which is non aggressive without need for large water softening plants or any toxic waste streams as a by product of the softening approach.

Adelaide's City Council is trialing it on Lake Torrens for blue green algae control.

Hydrosmart says its approach offers a completely chemical free, low operational cost, sustainable solution to many water and wastewater issues.

Further information:
Web: www.hydrosmart.com.au

