



Unexpected consequences of care measures and algicides

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In near-natural waters, chemical, physical and biological equilibria are established after a short time. Changing factors shifts several balances - but often in an unexpected direction. Classic paradoxes: the pH increases after acid addition; the degradation of fecal bacteria becomes worse after disinfectant addition or with "supporting technologies" such as UV, copper or salt electrolysis; plant growth becomes worse after fertilizer application; Water temperature and performance of biology are not linearly linked; After aeration, one measures less oxygen than before. Many of these paradoxes can be traced back to well-known scientific fundamentals. About the lime / carbonic acid balance, the food chain, degradation mechanisms, physical laws of gas solubility and chemical reactions, combined with simple mathematics, we find explanations. What causes the use of fish, tadpoles, daphnia, barley straw, interventions can be positive, negative, both at the same time or not at all. Depending on the quality objective, an overview is worked out.