

Advanced BioTech

Developer of BioWorld Products

Winery Irrigation Reservoir Case Study



A Napa Valley winery had a ½ acre irrigation reservoir with planktonic, single cell, green water algae. Chemical treatments including ammonia were done in the past but the algae continued to be a problem. Total Suspended Solids (TSS) and Biochemical Oxygen Demand (BOD) measurements were averaging 300 mg/l and 40 mg/l, respectively. Dead algae and solids also built up on the reservoir bottom.



BioWorld Green Water Algae Treatment products were applied each week. After 6 - 8 weeks, the algae were significantly reduced and average TSS and BOD measurements were 75 mg/l and 20 mg/l, respectively. This corresponds to a 75% TSS reduction and a 50% BOD reduction. Over time, solids broke loose from the bottom and were digested. Ongoing treatments have continued to balance the ecosystem for the long term with environmentally safe and natural products.

BioWorld Products used:
35064 Liquid Optimizer
33086 Green Water Algae Microbes
36086 General Blend Microbes