

HydroFLOW Reduces Algae Growth in Vineyard Irrigation Pond

Customer: California vineyard that suffers from severe algae growth in its irrigation ponds, which causes maintenance problems in the filtration stations.

Objective: Reduce algae growth without the use of Copper Sulfate or Tilapia fish.

Duration: Five month product evaluation from May 1, 2015 to October 26, 2015.

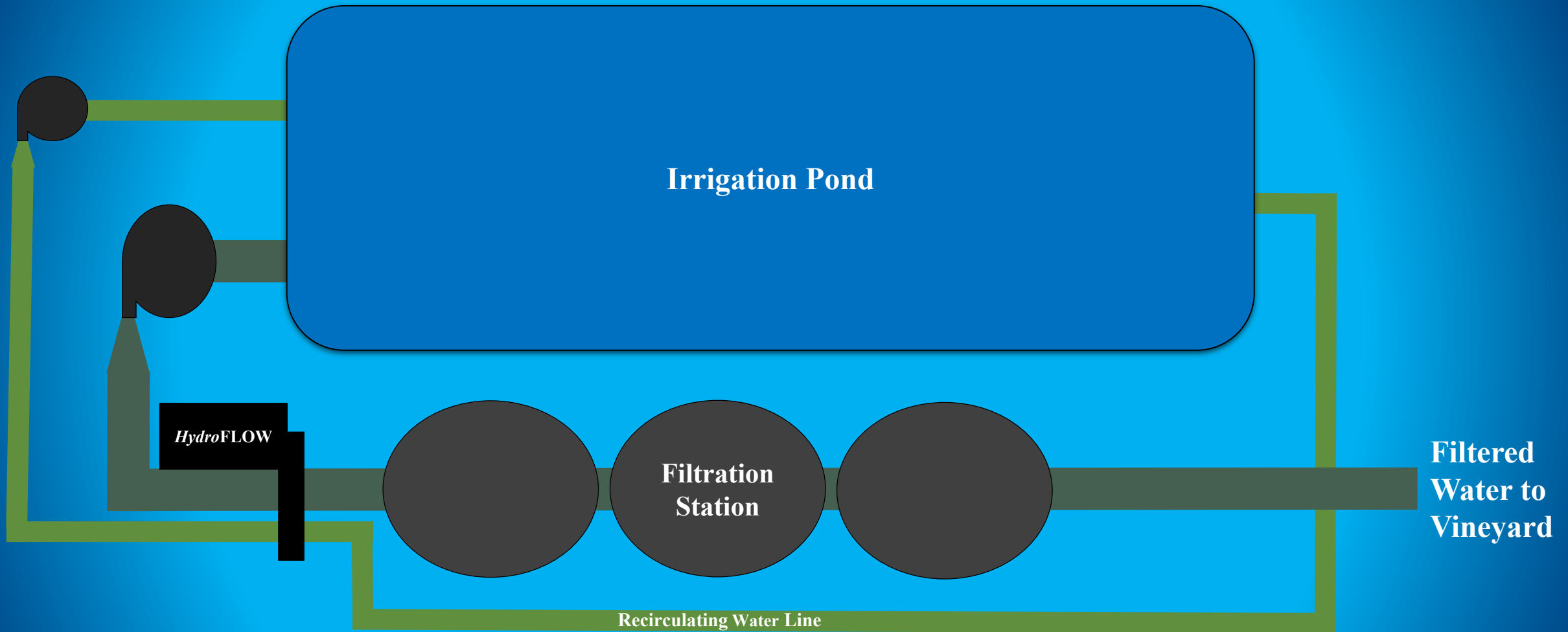


The vineyard controls algae growth in their ponds with the addition of Copper Sulfate (fungicide/algaecide) or Tilapia fish (algae consumers)



Algae growth continues to be a nuisance, even with the introduction of Copper Sulfate or Tilapia fish.

System Configuration



Note: It is recommended to dredge the pond every three years in order to remove biological matter that settled at the bottom.

Two months with *HydroFLOW* and without the addition of Copper Sulfate or Tilapia fish



With *HydroFLOW* the reduction in algae growth was dramatic.

Impact on the pond's filtration station

- Before the installation of *HydroFLOW*, the backwash process took 10-15 minutes.
- After the installation of *HydroFLOW*, the backwash process took 3-5 minutes.



Conclusions

- *HydroFLOW* retained algae growth within desired levels.
- Compared to the Copper Sulfate and Tilapia fish algae treatment methods, the bacteria and algae CFU counts in the *HydroFLOW* treated pond were over 90% lower.
- Savings associated with lessened chemical usage, reduced backwash and reduced maintenance costs resulted in an estimated 1.5 year return on investment.

