

AQUACULTURE CASE | VALPERCA FISH FARM

# PRIMOZONE® INCREASED PRODUCTION AT SWISS FISH FARM

The Swiss fish farm Valperca experienced problems with water quality in a recirculation system and could not produce fish at designed capacity. With the Primozone Ozone Water Treatment Solution the water quality improved within a couple of days.

**VALPERCA IS A SWISS FISH FARMING PLANT** situated in the beautiful Valais valley. They produce perch, which is considered a delicacy in Switzerland. The perch command a high price as the supply of wild perch is not large enough to satisfy the market. The Valperca plant has the capacity to breed 300 tons of perch per year.

In May 2010 Primozone was contacted by Valperca who was experiencing problems with the ozone system they had installed in a recirculation systems only a few months earlier. The capacity of the ozone system was not sufficient to keep the water clean for the designed volume of fish. Valperca was only able to use part of its production capacity. The water was not cleaned properly, the redox values were too low and the organic load too high in the fish tanks. As a result the fish did not grow according to plan.

In October 2010 Primozone delivered a customized Ozone Water Treatment System to Valperca who, after only a couple of day,

experienced a much better quality of the recirculating water.

“The design of our old ozone system was not optimal, which meant that we did not get the desired cleanness and clarity of the water”, says Mr. R. Moser, manager at Valperca. “Primozone was very helpful and designed a complete system for us with ozone generator, dissolution system and reaction tanks. It all works very smoothly as the Primozone Ozone Generators are connected to and controlled by our redox meters and the ozone levels are controlled automatically.”

“When the system was installed the redox value increased instantly and after only a couple of days we had reached the desired water quality. Both delivery and installation was made according to plan and without any disruptions. We are very pleased with Primozone and their Ozone Water Treatment System.” concludes Mr. R. Moser.

## PROBLEM

- High levels of organic pollutions and fungus made the water unhealthy for the fish.
- Lack of capacity in the current ozone system to handle the organic load in the recirculating water.
- Limited production capacity of fish due to risk of unhealthy levels of organic matter.

## SOLUTION

- Primozone designed and delivered a complete Ozone Water Treatment System consisting of:
  - Primozone® Ozone Generators
  - Dissolution systems
  - Dissolution/reaction tanks

## RESULT

- Cleaner water and control over organic load and fungal growth.
- Increased redox values made it possible to increase fish production to designed capacity.
- Thanks to the Primozone system the whole water treatment system now works much more effectively.



## ABOUT PRIMOZONE

At Primozone® we are committed to provide our customers with cost efficient and environmentally friendly ways to clean and treat water with ozone. Our ozone generators and ozone water treatment systems are based on cutting-edge technology and generate far more ozone while using far less energy.

At Primozone we have found an innovative way to make ozone generation efficient and cost effective.

Our solution has proven to save up to 70% of the energy consumption compared to traditional ozone generators. Furthermore the Primozone Ozone Generator is small and has the capacity to generate ozone with a proven high concentration.

Ozone is not only a natural product but also one of the most efficient methods to clean and treat water.

### [www.primozone.com](http://www.primozone.com)

Primozone began redefining ozone technology in 2000. Since 2003, Primozone Production AB has been wholly owned by Westfal-Larsen Technology of Bergen, Norway. Today Primozone's patented technology is used in water treatment installations in more than 40 countries worldwide.

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