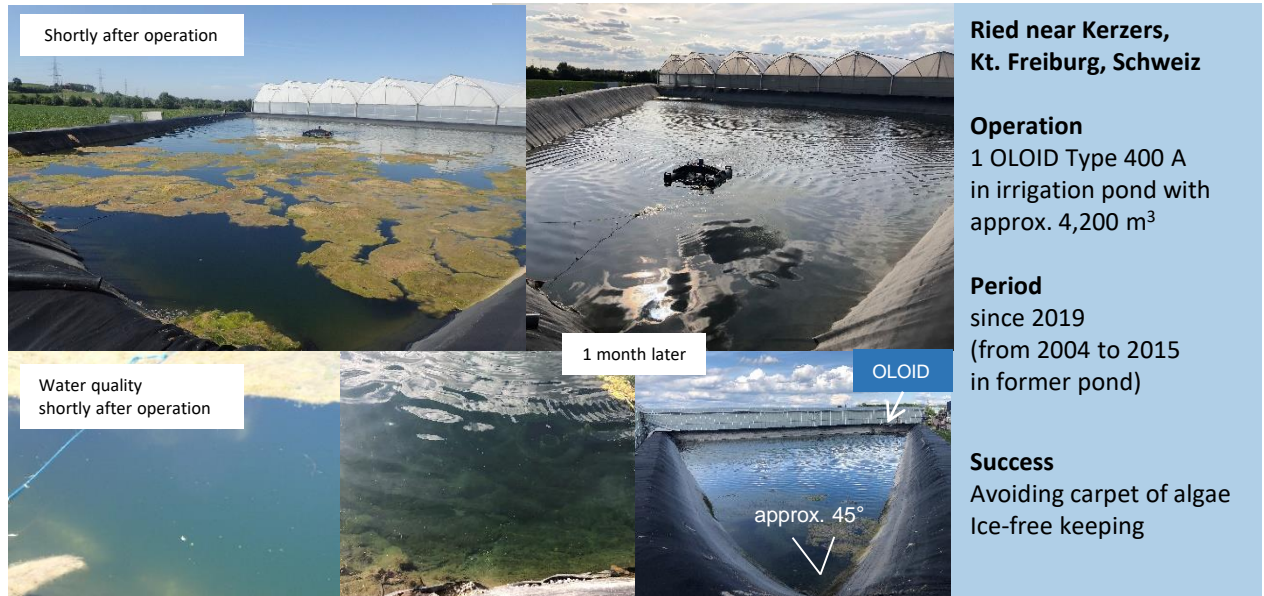


Algae prevention in irrigation pond

Gutknecht Gemüse, Ried near Kerzers/FR, Switzerland

„Thanks to the OLOID, no more algae problems.“



**Ried near Kerzers,
Kt. Freiburg, Schweiz**

Operation

1 OLOID Type 400 A
in irrigation pond with
approx. 4,200 m³

Period

since 2019
(from 2004 to 2015
in former pond)

Success

Avoiding carpet of algae
Ice-free keeping

Short description company

(more details on www.gutknecht-gemuese.ch)

The Gutknecht Gemüse company is a joint venture consisting of 60 hectares of field and 5 hectares of greenhouse production. The assortment of vegetables and fruits is varied and seasonal. The cultivation is carried out according to the guidelines of the integrated production method (IP). Gutknecht Gemüse customers (large distributors and direct buyers in the farm shop) are supplied with fresh products all year round.

OLOID-operation

In 2004, an irrigation pond with a capacity of approx. 4,000 m³ was built and at the same time an OLOID Type 400 was used to prevent algae, which was continuously in operation successfully. In 2015, the pool was removed in favour of a greenhouse and the OLOID was decommissioned. In another irrigation pond built in 2007 with a capacity of approx. 4,200 m³, inconspicuous green deposits initially formed on the pool floor in the last 3 - 4 years, but in the hot summer of 2018 various aquatic plants started to rampant up from below. The pool had to be cleaned extensively. The OLOID was then placed in this pool after a thorough overhaul in summer 2019. The irrigation water consists of 30 - 40 % groundwater and 60 - 70% rainwater, which is pre-mixed separately. The water level varies from 0.8 - 4 m.

Success

With the positioning in the middle of the basin, the flow could not cover the entire water volume, so that algae soon formed in the flow-free zones. After repositioning closer to the edge of the pool, an almost complete flow could be generated. Only in the acute approx. 45° angle of the one corner is the flow not able to reach the edge: however, this cannot be improved further for geometrical-technical reasons. In any case, the algae had almost completely disappeared within a short period of time, as far as the flow reached.

The OLOID was recommended and installed by Peter Affentranger, formerly Fa. Biss & Grolimund.