

Floating sludge avoidance

Sewage Treatment Plant, Community Riedenberg, Germany



VG Bad Brückenau, Municipal
Sewage Treatment Plant
Riedenberg

Operation

1 OLOID Type 400 in the
maturation pond

Period

Since 2004

Success

Better discharge values

Successful prevention of
floating sludge

Goal of the OLOID operation

Optimisation of operations: It repeatedly resulted in floating sludge, sludge output and deterioration of the discharge values in the maturation pond, after the biological stage (trickling filter system). The OLOID is used for mixing in the floating sludge layer and for preventing this layer on the maturation pond.

Description of the plant

Municipal sewage treatment plant with trickling filter system, expansion size: 1800 population equivalent, mainly domestic sewage

Process diagram: Racking system -> Trickling filter system -> Maturation pond

OLOID positioning: in the first third of the pond

The OLOID flow produces a continuous flow in the maturation pond.

Results

- The use of the OLOID has successfully prevented the formation of a floating sludge layer for more than 15 years.
- When switching off the OLOID, a layer of floating sludge will be generated in a very short time (2-3 days) and the discharge values will deteriorate by approx. 50 mg/l in the COD.
- Due to the very low energy consumption of only about 200 W, this is the most cost-effective solution for the customer to avoid the floating sludge on the maturation pond.