

## Mixing and equalising basin

### Industrial waste water, Johannesburg, South Africa

### „Waste water pre-treatment“



**Clover Industries Limited**  
Customer of Memcon

**Operation**  
1 mixing and equalising basin  
with 200 m<sup>3</sup> with one OLOID  
Type 400 I

**Period**  
Since November 2016

**Success**  
Homogenization of the  
concentration differences and  
prevention of sedimentation and  
degradation of stabilizers  
(Benzoates)

**Entry of sufficient oxygen to  
avoid anaerobic conditions with  
only 250 W!!!**

#### **Application description:**

During ice tea production in the bottling and syrup rooms of the largest dairy "Clover" in Johannesburg waste water is drained at different times and with different concentrations. The wastewater quantity is 40 m<sup>3</sup>/day with a COD of approx. 30,000 mg/l.

In order to be able to operate the subsequent biological purification stage without concentration impacts, a mixing and equalizing basin with a volume of 200 m<sup>3</sup> was connected upstream.

In addition, there was the requirement to avoid anaerobic conditions in this basin by means of slight aeration in order to supply the biological stage with fresh waste water. The enrichment with oxygen also serves the decomposition of the benzoates dissolved in the wastewater, which would have created problems in the downstream biological stage.

#### **OLOID operation:**

Both tasks were carried out with only 250 W by the OLOID Type 400 I, mounted on a float, to the satisfaction of the customer, thus avoiding unnecessary operating costs in the form of electricity through the effectiveness of the OLOID for aeration and circulation. Even after half a year of operation, there are no significant deposits of suspended solids on the basin floor.

The project was carried out by our partner Memcon, Johannesburg, South Africa  
Contact person: Carsten Orzol; [www.memcon.co.za](http://www.memcon.co.za)

