

## Waste water from Milk processing Sewage plant, Ökodorf Brodowin, Deutschland



**Ökodorf Brodowin**  
<http://www.brodowin.de/>

**Operation**  
1 liquid manure- and waste water basin with 5.000 m<sup>3</sup> with OLOID Type 400

**Period**  
Since 1998

**Success**  
Reliable reduction of odours

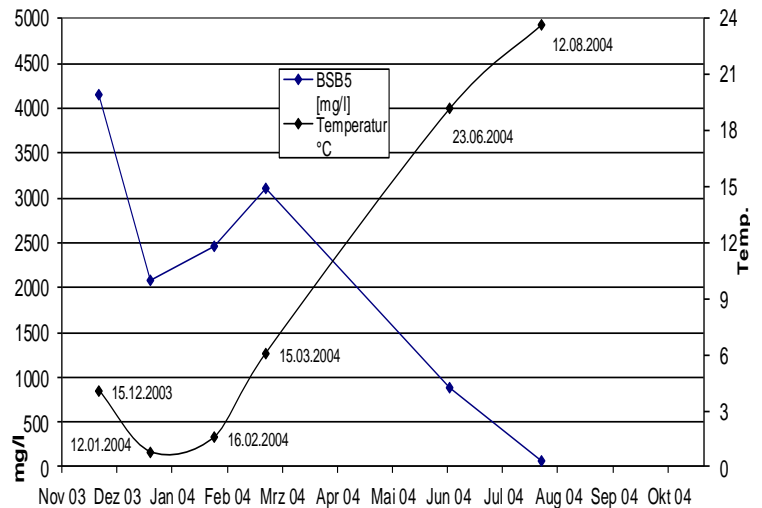
Resolving of floating layer

Reduced energy consumption

Ökodorf Brodowin uses a circular basin with 960 m<sup>3</sup> (diameter 18m) to collect its wastewater from milk processing, (15 m<sup>3</sup>/d), liquid cattle manure (5 m<sup>3</sup>/d) and domestic sewage. In January 1998 an OLOID Type 400 A was installed in this basin for aeration and homogenisation.

In 2003 a basin was build for as a storage for manure during winter. This became necessary as it is not allowed to apply liquid manure on frozen soil. The basin is covered with a geomembrane.

The basins size and big surface area (50 x 50 m = 2,500 m<sup>2</sup>) and its low depth (1.5 to 2 m) are advantageous because much oxygen is introduced at the waters surface by circulation.



BOD<sub>5</sub> (biological oxygen demand in five days) and temperature in the new basin from its first filling until August 2004. BOD<sub>5</sub> is a measure for the organic loading of the water. A high BOD<sub>5</sub> can lead to a lack of oxygen in the soil.