

**Project Photos**



Arial View



System View

**Description**

This pilot Aqualoop system treats water from the municipal waste water treatment plant for Salzburg and surrounding areas, in Siggerwiesen, Austria. The municipal waste water treatment plant operates using state-of-the-art technology and is a full biological waste water treatment plant with a capacity to handle the output from 680,000 inhabitants. The plant provides an ideal infrastructure for pilot tests to optimize membrane bioreactors and for various filtration experiments. An accredited central laboratory is located on site which provides data analysis of untreated and purified water in accordance with ÖNORM (ecological standards).

Two Aqualoop membrane station process lines work in parallel with a partial flow of up to 2640 gallons per day. The tests run year around. The pilot plants are equipped with state of the art equipment as well as measurement technologies. They operate fully automatically with SCADA and online data collection. The interpretation of data and access to control can also be done via UMTS.

The water quality data for incoming treated wastewater and water treated by Aqualoop are shown below. Of particular note is the impressive reduction in BOD and nitrogen content.

**Water Quality Results**

<b>Salzburg Wastewater Treatment Plant</b>			
<b>Aqualoop 12 Membrane System</b>			
<b>Test</b>	<b>Units</b>	<b>Water In</b>	<b>Treated</b>
<b>TSS</b>	PPM	80	3
<b>BOD</b>	PPM	180	3
<b>COD</b>	PPM	285	49
<b>Ammonium</b>	PPM	0.79	<0.02
<b>Phosphorous</b>	PPM	0.7	<0.02
<b>Nitrogen</b>	PPM	6.5	0.047
<b>pH</b>	CFU	8.9	8.3

PROJECT SUMMARY