



better together

## CASE HISTORY

# Uniqa pump solves clogging problems in Dubai sewage plant

### Situation

The Al Awir sewage plant is one of the principle wastewater treatment centres in Dubai. It has been significantly expanded in recent years. The first phase of the plant was designed with a daily capacity of 260,000 m<sup>3</sup> but by December 2007 it was dealing with almost 500,000 m<sup>3</sup>. The second phase of the plant added 65,000 m<sup>3</sup> of capacity and was commissioned in January 2008. The third phase of the plant adds an extra 80,000 m<sup>3</sup> capacity.

The project covers an area of 670 hectares. It has the capacity to process 400,000 m<sup>3</sup> of wastewater every day. In 2011, this Sewage Treatment Plant was selected as Water Reuse Project of the Year, as part of the annual MEED Quality Awards.

The facility has various critical areas and there used to be problems of clogging. The lifting of particularly heavy effluent due to the presence of solids caused regular blockages of the pumps, which had to be frequently removed from the tank.

### Solution

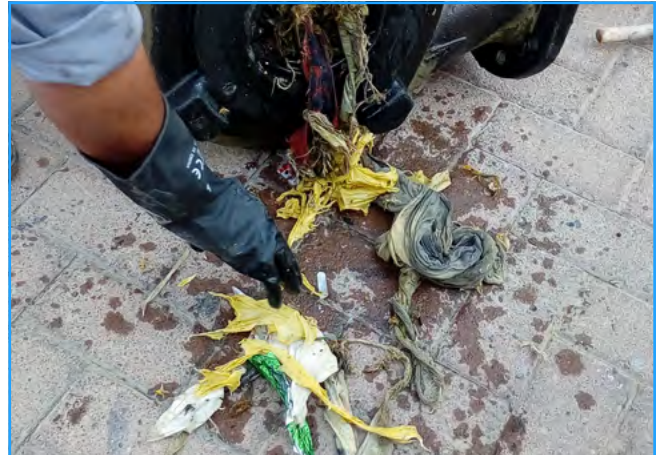
Analysing the type of application and the particular nature of the liquid to be treated, our technical team, in cooperation with the local partner Bin Moosa & Daly, suggested the use of ZUG OC100H 7,5/4AW 260 pump, Uniqa series premium-efficiency IE3 motors, Open Channel Hydraulics with a Ø260mm impeller and DN100 delivery.

After a trial run, the customer gave the green light for the supply of this machine to replace the existing pump.

### Benefits

Since the installation of the pump, operation has run very smoothly, to the satisfaction of all.

In particular, there have been no blockages or clogging. The effectiveness of the open channel impeller together with the efficiency of the Uniqa pump motors have allowed the customer not only to limit maintenance, but also to optimise energy consumption: with a significant reduction in running costs.



The replaced pump with clogging problems



ZUG Uniqa Chopper

<b>Customer</b>	Dubai Municipality			
<b>Company Profile</b>	Municipality			
<b>Location</b>	Dubai	<b>Country</b>	United Arab Emirates	<b>Area</b> Asia
<b>Application</b>	Wastewater lifting			
<b>Installed Products</b>	ZUG OC100H 7,5/4AW 260			
<b>Date</b>	May 2018			