

# WASTE WATER TREATMENT WITH MBR IN A WASTE MEAT PROCESSING PLANT

(keywords: waste meat, bioreactor membrane MBR, high organic load, elimination of nitrogen, disinfection)



RUIZ TEEUWISSEN meat products and by-products SL (currently Van Hessen Spain Baeza casings) is a company devoted to process entrails and offal located in Baeza (Jaén)

This type of companies generates wastewaters containing high concentrations of dissolved and suspended organic matter, as well as high levels of nitrogen. Due to its characteristics, it is important that the treated waters are discharged to the receiving environment meeting the required parameters and completely disinfected.

With this background the company decided to implement a biological treatment following an MBR process as the best technology to guarantee the high-quality discharge requirements including the disinfection of the effluent. The plant is equipped with a previous physical-chemical treatment and the membrane bioreactor has a previous anoxic tank.

For the ultrafiltration unit, Europe Membrane provided a Cassette MBRable equipped with 720 m<sup>2</sup> of membrane installed in an external membrane tank made of PP.



Year 2015

Sector Waste meat by-products processing

Flow: 155 m<sup>3</sup>/d

BOD5 influent: 4400 mg/l

BOD5 effluent <125 mg/l