

CASE STUDY



PROJECT POTABLE WATER FOR MEAT PROCESSING FACILITY

PRODUCT Multimedia Filtration

INDUSTRY Food and Beverage

LOCATION South West Region, Western Australia

BACKGROUND

A leading Western Australian meat processor and exporter required additional treatment of the dam water it was using in its factory as wash down water to improve the standard of its abattoir and maintain international accreditations. MAK Water worked closely with the client to review water data, site requirements, and provide a number of possible equipment solutions.

The customer selected a custom filtration and sterilisation plant, specifically designed by MAK Water to meet its requirements and provide a reliable long term solution with the appropriate degree of filtration and UV log reduction.

SOLUTION

MAK WATER KEY SOLUTIONS

- Custom design and manufacture of a 5,040 m³ per day Multimedia Filtration (MMF) plant
- Containerised (1 x 40') with air conditioning and non-slip floor coatings
- Automated filter backwashing and integration with existing feed pump
- High level of instrumentation with online monitoring of turbidity, flow, pressure and Modbus over Ethernet connection
- UV steriliser validated to USEPA UVDGM 2006 for: UVT 85%: 3 log Cryptosporidium
- Non-corrosive FRP filter vessels
- Onsite installation, commissioning and operator training



MAK Water containerised MMF plant installed onsite

RESULTS AND BENEFITS

- **Technical Support.** Expert advice and consultation with all parties throughout the process
- **Low Risk Solution.** Proven industry standard technology (MMF) for solids removal
- **Turnkey Solution.** Custom "fit for purpose" design in a durable prefabricated containerised system
- **Minimal Operator Requirement.** High level of online monitoring and plant automation
- **Compliance.** Meets required level degree of filtration and log reduction to use bore water for abattoir wash downs



3D model MAK Water MMF plant