CASE STUDY

PROJECT	SEWAGE TREATMENT FOR KAOLIN MINE
PRODUCT	Activated Sludge Bioreactor (ASBR)
INDUSTRY	Mining
LOCATION	Goldfields-Esperance Region, Western Australia

BACKGROUND

The EPC contractor for Australia's first dual open-cut kaolin mine and geological waste repository required a suitable sewage treatment plant to treat sewage from the accommodation camp and admin office.

MAK Water was selected to provide a complete design, manufacture, and installation package for the new sewage treatment plant.

MAK Water worked closely with the client to design a fit for purpose, long term solution that meets the required treated effluent quality.

SOLUTION

Modular Activated Sludge Bioreactor (ASBR) plant to treat 30 m^3/day of domestic strength sewage to achieve Class C treated effluent.

MAK WATER KEY SOLUTIONS

- Corrosion resistant fibre-reinforced plastic (FRP) bioreactor with internal plant room
- Class C treated effluent for reuse in risk category low applications or for discharge to environment
- Package includes: packaged sewage pump station, balance and treated effluent tanks, irrigation pump, supernatant sump, roofed bioreactor
- Onsite installation, commissioning, and operator training
- Ongoing service and maintenance contract

MAK Water modular ASBR plant installed onsite

RESULTS AND BENEFITS

- **Safe, Compliant Effluent.** Designed for the site-specific influent quality to meet the required Class C treated effluent quality
- **Technical Support**. Expert advice and consultation with all parties throughout the process and ongoing plant service and maintenance by MAK Water
- **Turnkey Solution.** Complete design, manufacture, and installation package
- **Fast Delivery.** Despite client delays, the manufacturing process was fast tracked to achieve the required project timeline

Onsite installation, commissioning and operator training