CASE STUDY

PROJECT SEWAGE TREATMENT FOR NICKEL MINE ACCOMODATION CAMP

PRODUCT Membrane Bioreactor

INDUSTRY Mining

LOCATION Goldfields, Western Australia

mak water
water | wastewater | sewage

BACKGROUND

When a well-established Nickel Mining company, operating in the Southern Goldfields of Western Australia (WA), required a new accommodation camp, they contacted MAK Water to discuss wastewater treatment options.

Due to a shortage of available fresh water, the client required a turnkey solution, including a Sewage Treatment Plant capable of producing water that could be reused in their process. This reduced the site's water costs and reduced the impact on the environment

SOLUTION

MAK Water provided a Membrane Bioreactor (MBR) Sewage Treatment Plant which produces treated effluent complying with Class A+ and category level "High" as detailed in the Guidelines for Use of Recycled Water in WA (June 2011).

TURNKEY SOLUTION

- Design and construction of the Membrane Bioreactor Sewage Treatment Plant
- Assistance with obtaining Department of Health approval
- Installation and commissioning
- Ongoing service and maintenance

CONTAINERISED SOLUTION

- Ease of on site installation
- Modular and transportable for relocation if required
- Protection from harsh conditions

Membrane Bioreactor Sewage Treatment Plant installed on site

Containerised solution for easy transportation and installation, and providing protection from environmental elements.

RESULTS AND BENEFITS

- Robust design to ensure compliance with high quality effluent required for reuse.
- Treated effluent can be reused/recycled in a number of industrial applications.
- No environmental impact.
- Small footprint as a dedicated spray field is not required.