

CASE STUDY

PROJECT OILY WATER TREATMENT
FOR BAUXITE MINE SITE

PRODUCT Oil Water Separator

INDUSTRY Mining

LOCATION Queensland



BACKGROUND

The Amrun project needed robust oily wastewater treatment solutions that could separate hydrocarbons in the wastewater streams from their workshops, fuel storage and refueling areas, maintenance & vehicle wash bays, and bioremediation pad. The mine site is remote and requires highly reliable and efficient equipment which allows the operation to maintain high availability and meet the mine sites environmental targets.

The oil water separators and site sewage treatment plant (STP) were packaged together for this project to leverage MAK Water's experience in delivering water treatment plants to the mining industry. The oily water treatment scope was to design and construct eight Oil Water Separators (OWS) to treat wastewater prior to discharge.

SOLUTION

DESIGN FEATURES

- Clearmake™ Vertical Tube Coalescing technology
- Skid mounted separators, pumps and controllers
- Project preferred electrical equipment in line with customer specifications
- 8 off individual separators supplied (6x CL3.0, 1 x CL5.0's, 1x CL 30)

SMART DESIGN

- Lightweight Vertical Tube Coalescing technology with no moving parts enables easy maintenance
- Modular design enabled easy transport and installation
- Clearmake™ separators already approved for use by local regulator (no additional approvals required)
- 100% designed, constructed and tested off-site
- All 8 systems used the same operating philosophy and control system

RESULTS AND BENEFITS

- **Compliant wastewater.** Clearmake™ Vertical Tube Coalescing technology guarantees water treated to comply with discharge requirements
- **Automated, reliable plant.** Low level of operator intervention reduces client's operating costs
- **Project compliance.** MAK Water met the project specifications and vendor data requirements



8 x Clearmake™ OWS in the Perth Fabrication Facility prior to dispatch



Clearmake™ separators are pre-approved by local regulator