CASE STUDY

PROJECT MARINA HARDSTAND WASTEWATER TREATMENT
PRODUCT Gravity Clarification (GC) and Oil Water Separator (OWS)
INDUSTRY Tourism & Leisure
LOCATION Sydney, New South Wales

BACKGROUND

An owner and operator of premium yacht marinas in required a new treatment system to treat the waste stream from the marina hardstand at one of their new premier sites in Sydney. The waste stream comprised general wash down water from vessels during servicing and hull cleaning processes.

The site has access to a sewer for trade waste discharge, so treatment system was required to enable treated wastewater to be discharged to sewer for minimal costs. MAK Water was engaged to design and deliver a solution

SOLUTION

MAK Water has designed and delivered several plants to treat hardstand wastewater for marinas around Australia; we used our experience to design an effective and cost-efficient turnkey solution, comprising a Gravity Clarifier combined with an Oil-Water Separator to meet the specific site requirements.

Oil-Water Separator, Gravity Clarifier, Chemical Dosing Pumps and ancillaries in the MAK Water factory

MAK WATER KEY SOLUTIONS

- Fully automated system capable of treating up to 1,500 L/h of wastewater generated from the marina hardstand
- Oil Water Separator pre-treatment for removal of oils and grease
- Total suspended solid (TSS) reduction & pH adjustment for compliant discharge
- Rain sensor and first flush diversion system
- Slim line tanks incorporated for small footprint and to buffer the peak flows.

Oil-Water Separator, Gravity Clarifier, Chemical Dosing Pumps and ancillaries in the MAK Water factory

RESULTS AND BENEFITS

- Turnkey solution. MAK Water designed and built a custom treatment system to meet the clients discharge and special requirements.
- Compliance. The system met trade waste compliance for Sydney Water
- Lowest total operating cost. By treating onsite for disposal via the sewer, this minimises any ongoing trade waste costs, and thus has the lowest total operating cost.