

CASE STUDY

PROJECT WASH BAY WASTEWATER & FIRST FLUSH RECYCLING FOR LOGISTICS FACILITY

PRODUCT Gravity Clarifier

INDUSTRY Infrastructure and Urban Development

LOCATION Brisbane, Queensland



BACKGROUND

IPS Logistics installed a new unroofed wash bay in compliance with the Department of Agriculture, Fisheries and Forestry's (DAFF) guidelines, at its Port of Brisbane facility. The key objectives of the wash bay recycling system were to meet regulatory requirements and minimise the use of potable town water for wash down operations.

SOLUTION

MAK Water's Clearmake™ first flush diversion and water recycling system was selected for the new wash bay. Working in partnership with IPS Logistics and DAFF, the solution components included:

WATER RECYCLING SYSTEM

- Capable of treating 1,500 litres per hour of wash water.
- Removes silt, heavy metals, seeds, weeds and pests from the water.
- Tertiary filtration and disinfection for reuse.

FIRST FLUSH DIVERSION SYSTEM

- The first flush diversion system collects the first flush from the wash bay and directs it to the recycling system for treatment.
- Clean storm water is allowed to flow to the local storm water system.

RESULTS AND BENEFITS

- Compliance: DAFF and local council approval to expand the site operations as a result of water efficiency and environmental protection measures included in the design.
- Lower Operating Costs: Minimal use of potable town water for wash down.
- Environmental Protection: Protection of the environment from potential imported seeds, weeds and pests.



The Gravity Clarifier system is capable of treating 1,500 litres per hour of wash water.



The system has lower operating costs through minimal use of potable town water for wash down.