

CASE STUDY

PROJECT CLARIFIER REPLACEMENT FOR CONTAINER HANDLER

PRODUCT Lamella Clarifier (LC)

INDUSTRY Infrastructure & Urban Development

LOCATION Port of Brisbane, Queensland



BACKGROUND

Our client located in the Port of Brisbane, handles the receipt and loading of shipments. Containers are kept onsite and washed down to remove debris, soil, etc. to protect Australia's delicate ecosystems from foreign contamination. This wash water is treated with a lamella clarifier combined with coagulation and flocculation prior to safe discharge.

After 10 years their existing lamella clarifier succumbed to crack at the base that could not be easily fixed. A replacement clarifier was required to replace this existing treatment. All associated equipment was in working order and did not require replacement.

MAK Water was called to help with a timely, cost-effective and efficient solution.

SOLUTION

Replacement Lamella Clarifier, skid mounted – existing equipment and control utilised where possible.

MAK WATER KEY SOLUTIONS

- New Lamella Clarifier system
- Utilised existing equipment
- Utilised existing instrumentation
- Utilised existing control panel and philosophy
- Optimised chemistry
- Ongoing service and maintenance support

RESULTS AND BENEFITS

- **Compliance & Safety.** Contaminants effectively captured by the new clarifier, protecting Australia's ecosystems.
- **Cost Savings.** MAK Water integrated existing equipment, instrumentation and control gear, meaning only the lamella clarifier itself was replaced, which delivered significant savings for the client.
- **Technical Support** - Expert advice and consultation with all parties throughout the process and ongoing plant service and maintenance by MAK Water.
- **Optimised Chemistry.** MAK Water took the initiative to also optimise the client's chemistry for improved solids separation.
- **Footprint** - The replacement lamella clarifier had a smaller footprint, unlocking valuable space for the client.
- **Fast turnaround** - The replacement clarifier integrated seamlessly with the existing equipment and. installation & commissioning took just 3 days.



Replacement Clarifier Side View



Replacement Clarifier Front View