

ROADTRAIN® PACKAGED SEWAGE TREATMENT PLANTS—EXPERTISE FROM 150+ INSTALLATIONS

CASE STUDY



ABOUT HYDROFLUX EPCO ROADTRAIN®

Hydroflux Epco Roadtrain® packaged sewage treatment plants were introduced into the Australian market in 1961. Since then, over 150 installations have been installed around Australia, PNG, Pacific Islands, SE Asia and Middle East.

THE DESIGN

Over the years the process design was refined to achieve higher levels of nutrient removal, lower effluent solids limits and higher levels of disinfection.

Item	Value
Capacities	50—2000EP
Process	Extended aeration Rotating Biological Contactor
Typical BOD Output	20 mg/L
Typical TSS Output	5 mg/L
Faecal Coliforms	100 cfu/100mL
Optional Features	Class A systems TN Levels < 10 mg/L TP Levels < 0.5 mg/L

The key feature of Roadtrain® is that the system is ideally suited to remote locations, where the process must contain a level of inbuilt redundancy and where a thorough understanding of remote location wastewater characteristics is provided.

Roadtrain® is suited for:

- Villages and remote communities
- Mine sites
- Oil exploration fields
- Resorts
- Towns

Examples of installations include:

- Lizard Island Resort—Australia
- Sth Blackwater Mine—Australia
- Moro Village STP—PNG
- Marmul Oilfield—Oman
- Coen Township-QLD
- Channel /is Power Station –Australia
- Lihir Gold-PNG
- Public Servants Admin Building-Indonesia
- Yuen Long Estate-Hong Kong

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Key Advantages:

- Proven in sewage treatment applications in remote locations in several countries
- Built in process redundancy
- Mechanical robust design, installations from the early 1970's are still in operation
- Unique aeration cycling, to maximise nitrification and de-nitrification
- Tertiary filtration can be added, to provide Class A and A+ water
- Proven in environmentally sensitive areas, such as Great Barrier Reef and Torres Straits
- Pre-fabricated systems to reduce site installation times
- Optional bolted designs where there is no or limited access.