



COMPACT EASY TO BUILD SOLUTION FOR LIHIR ISLAND STP, PAPUA NEW GUINEA



EPCO Australia has a long history in providing packaged sewage treatment solutions to clients in PNG, with over 30 installations in that market.

Lihir Island STP was built in 2012 with a design population equivalent of 2000.

The treatment system included:

- Equalisation Tanks with mixing
- Fine Screening for solids removal
- Roadtrain® Aerobic Reactor
- Secondary Clarification (HeadMax® suction head)
- Class A (100 KLD for fire fighting)
- Disinfection with Chlorine
- Sludge Drying Beds
- Wet weather storage
- Controls and SCADA

To facilitate site installation the entire structure of the activated sludge process was fabricated using the Roadtrain® bolted design.

The Roadtrain® with integrated secondary clarification reduces the footprint of the treatment plant and reduces site construction costs.

Item	Value
Capacity	2000 EP
Process	Extended aeration
Capacity	600 m ³ /d
BOD	<20 mg/L
TSS	<30 mg/L
TN	<20 mg/L
Faecal Coliforms	100 cfu/100mL
Tank	Bolted Steel
Year	2012

A HeadMax® Clarifier was used for the secondary clarification process, keeping all of the key process equipment in-house.

Site installation works and civil construction was carried out locally by PNG companies under the supervision of Hydroflux EpcO. The process design was provided by Simmonds and Bristow.



ROADTRAIN®

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