



TAUMEASINA ISLAND RESORT SAMOA

Case Study



BACKGROUND

Taumeasina Island is a small manmade Island Resort serviced by a causeway and situated close to Apia, the capital of Samoa. Lamana Development's new 4 and a half star hotel required a wastewater treatment solution with the reliability, aesthetics and performance requirements of a high end hotel. In conjunction with Thomson & Adsett Architects and Greenleaf Engineers, GRAF were asked to assist with a Commercial Sequential Batch Reactor Wastewater treatment system that could be shipped in a cost effective manner, flat packaged and assembled on site. Due to the remote location, it was imperative that the system would be easy to maintain and be able to manage the waste of the entire resort.

SOLUTION

GRAF supplied x5 Epro commercial systems; 1 x 9.0 KL, 2 x 13.5 KL, 1 x 18 KL & 1 x 22.5 KL with a total treatment capacity of up to 76.5 KL per day, to meet the requirements of the new hotel. The modular aspect of GRAF's Wastewater treatment system, using underground lightweight poly tanks, allowed the designers to position them discreetly around the island and install without heavy machinery. The system was required to be easy to operate and have minimal maintenance requirements carried out by the existing onsite maintenance team. The intelligence of the microprocessor control panel allows the standard number of 4 cleaning cycles a day, to be reduced during the low-season of the hotel, thereby reducing operating costs.

