

# Rainwater Collection and Wastewater Gardens for Tropical Resort

### Lalati Resort • Beqa Island, Fiji

#### Background

When the owners of a new resort on the Fijian island of Beqa sought to avoid installing septic systems that could pollute the coral reefs and beaches, they contracted the Ecological Engineering Group (EEG). EEG also designed a system for collecting rainwater to supply most of the water used in the guest facilities. Groundwater on Beqa Island can be salty, and the island is too small to provide central water and wastewater facilities.

#### **Project Description**

Microflush (one-pint-flush) toilets drain to composting toilet systems made of locally available components.

These are integrated with Wastewater Gardens, specially engineered aerobic planted beds that stabilize, treat and use up wastewater.

The roofs of Lalati's guesthouses collect rainwater while remaining harmonious with the style of traditional Fijian architecture.

The World Health Organization (WHO) lauded Lalati's wastewater system as a model of responsible wastewater management for environmentally sensitive coastal areas.





#### Unique Features

- Landscape gardens double as wastewater treatment systems
- Inexpensive
- Zero-discharge: all effluents are ultimately used up by plants
- Easy maintenance

#### **EEG Services**

- Wastewater system design and engineering
- Water system design and engineering

Call today to discuss your water and wastewater solution needs: 1-866-4-ECO-ENG



## **Ecological Engineering Group, Inc.**

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