

ready for tomorrow

Noosa Wastewater Treatment Plant



With sustainability, efficiency and the capacity for expansion embedded in its design, the Noosa Wastewater Treatment Plant is well-equipped to meet the evolving wastewater treatment needs of the region's residents and visitors.



The upgraded Noosa Wastewater Treatment Plant is ready to meet the changing needs of the region.

An evolving wastewater landscape

In Noosa on Queensland's Sunshine Coast, rapid population growth and increased effluent discharge quality requirements meant that the existing sewage treatment plant at Noosa Heads was not equipped to meet the region's needs into the future.

Realising that a new wastewater plant was necessary to improve the quality of treated effluent and enable future capacity upgrades, in 1996 Noosa Shire Council awarded SUEZ and its Australian Water Services partners the contract for the design, construction, operation and maintenance of the Noosa Coastal Wastewater Treatment Plant.

Building capacity

SUEZ and its partners successfully delivered the Phase 1 design and build of the plant to an initial capacity of 12 million litres of sewage daily, and operated and maintained the plant optimally for 25 years. As a result, the group was awarded the contract for the Phase 2 upgrade the plant in 2015.

18MLD CAPACITY TO TREAT SEWAGE FROM 45,000 RESIDENTS

This second phase included a range of measures to meet current needs and the expected increase in wastewater volumes as a result of projected population growth. Central to the upgrade was increasing the plant's daily capacity by an additional six million litres and enhancing screening and grit removal capabilities.

Sustainability by design

Population growth means increased volumes of wastewater. With much of this wastewater discharged into the environment, effective treatment is crucial.

At Noosa, domestic wastewater is treated in multiple steps to meet stringent discharge quality requirements, undergoing screening and grit removal before passing through bioreactors, secondary clarifiers, filters and, finally, ultraviolet disinfection filters.

Embedded in the plant's design is an innovative biological nutrient removal process that eliminates the need for additional chemicals or other additives. The sludge produced in the treatment process can also be used in agriculture.

Meeting future needs

With optimal treatment processes and an increased daily capacity of 18 megalitres, the Noosa Wastewater Treatment Plant effectively and sustainably manages sewage from 45,000 residents, minimising its impact on the Sunshine Coast's unique marine environment now and into the future.

contact

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