

# **Fast Facts**

**LOCATION >> Racecourse Road, Cluden** 

QUANTITY OF WATER TREATED >> 25 mega litres per day

TOTAL TREATMENT CAPACITY >> 29 mega litres per day

**POPULATION COVERED >>** Approximately 126,000 people

**SERVICE AREA** >> Pallarenda, Belgian Gardens, West End, City, Hyde Park, Railway Estate, Mysterton, South Townsville, Currajong, Gulliver, Pimlico, Vincent, Aitkenvale, Mundingburra, Douglas, Aitkenvale, Idalia, Stuart, and Oonoonba

**OPERATING HOURS >>** 24 hours a day, seven days a week, 365 days a year

**NUMBER OF STAFF >> Six** 

# About the facility

The Cleveland Bay Purification Plant was opened in 1988. At that time the facility treated raw sewage through an oxidation ditch, and discharged effluent to Cleveland Bay.

The plant received a major upgrade in 2006 which changed its

treatment method to a membrane bioreactor. At the time, it was considered the largest membrane bioreactor treatment plant in the southern hemisphere.

# What is the process for treating wastewater?

The wastewater is treated by a number of processes which remove solids, organic matter and nutrients from the sewage so it can be safe to reuse or safely discharged into the environment.

# Where is the wastewater discharged?

The treated wastewater is discharged in three locations:

- >> The ocean outfall at Cleveland Bay
- » Colinta for livestock watering
- >> On site where it is used as service and irrigation water

## How are other waste products used?

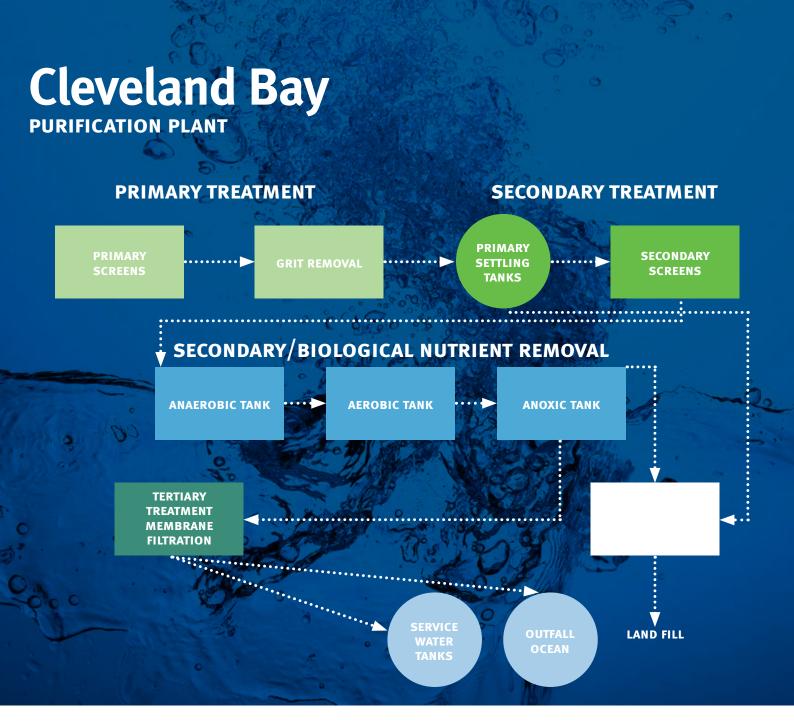
Bio-solids produced by the facility are rich in nutrients so they are used as fertiliser.

## How is odour managed at the facility?

Hazardous and corrosive gases are put through three biological filters that contain a unique blend of bacteria which remove contaminants. The

contaminants are later oxidised into harmless, environmentally-friendly substances.





# PRIMARY TREATMENT SECONDARY TREATMENT SLUDGE HANDLING BIOLOGICAL NUTRIENT REMOVAL TERTIARY TREATMENT MEMBRANE FILTRATION

For more information: enquiries@townsville.qld.gov.au www.townsville.qld.gov.au

