Improving operational efficiency of the Gold Coast Sand Bypass System



Delivering our plan to Sustain, Enhance and Promote Gold Coast Waterways

Concept

Planning

Consultation

Construction

Operation

The Gold Coast Waterways Authority (GCWA) is investing \$35.3 million in projects over four years to sustain, enhance and promote our waterways.

About the project

The Sand Bypass System (SBS) transfers sand under the Gold Coast Seaway entrance from the Spit to the Southern tip of South Stradbroke Island.

After 30 years of service, refurbishment works are required to improve the system's operational efficiency:

- Phase 1 Installation of a low pressure underground pipeline across the South East corner of Doug Jennings Park.
- **Phase 2** Replacement of one of two high pressure pumps in the main building.

SBS Project - Fast facts*	
Location	Gold Coast Seaway Sand
	Bypass System & Doug
	Jennings Park, Main Beach.
Cost	2015 - 2016: \$950,000
	2016 - 2017: \$900,000
Status	o Energy Efficiency
	Investigations:
	completed mid 2015
	o Design & Approvals:
	completed Feb 2016
Construction	Phase 1: Mar - Jun 2016
	Phase 2: Late 2016

^{*}May be subject to change

Benefits to the community

- Maintaining functional reliability and improving operational efficiency with regard to power consumption.
- Protecting the accessibility and ensuring sustainable management of sand pumping activities at the Gold Coast Seaway entrance.

Our *Waterways Management Program* **2015-19** identifies more than 60 projects being planned and delivered over the next four years. To find out more about our program, visit www.gcwa.qld.gov.au/program

The Gold Coast Waterways Authority (GCWA) is the Queensland Government agency responsible for improving access to and managing the waterways as well as ensuring that the waterways continue to be a great asset available to residents, visitors and businesses on the Gold Coast.

Our vision

A waterways network (and relevant facilities and reserves) that is sustainably managed to reflect and support an appropriate balance between the recreational, tourism, environmental, economic development and commercial aspirations and objectives of the Gold Coast community and visitors.

For further information, contact us:

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STATISTICS

.600 metres long North Wall .400 metres long Distance apart 320 metres Entrance Channel Width170 metres Design depth at low water5.50 metres

SAND BY PASS JETTY
Construction timber deck on steel substructure

.6.0 metres above Mean Water Level Deck

Depth of jetty piles below

deck level .25.0 metres

Depth of jet pumps below

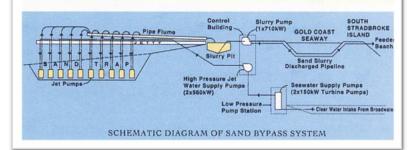
.17.0 metres deck level

Sand slurry delivery pipeline to South Stradbroke Island 400 mm dia.

polyurethane lined mild steel 1500 metres long.

PUMPS

Low pressure pumps 2 x 150 kW (200 H.P.) Turbine 1 x 710 kW (950 H.P.) Centrifugal Total cost of project including training walls, dredging, navigation aids, Sand Bypass System and roadworks - \$50,000,000.



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