

CASE STUDY

DECEPTION BAY

STORMWATER CHANNEL

WALL REPAIRS

PLATIPUS® S8 ANCHOR SYSTEMS



CONTRACTOR	PCA Ground Engineering
ENGINEER	FSA Consulting Engineers
LOCATION	Deception Bay, Queensland
PRODUCT USED	Platipus S8 Galvanised Anchoring Systems

**ADVANCED
GEOSYNTHETIC
SOLUTIONS™**

The Project

To eliminate the total design, dismantling and replacement of an existing retaining wall, remedial works and stability measure improvements were designed and implemented to a stormwater channel retaining wall at Deception Bay in Queensland

Design

Platipus S8 anchor systems were detailed at 1.6m centres and load locked to a minimum depth of 2m along the existing retaining wall with a 150mm galvanised steel channel waling. The Platipus anchor systems were tested to an ultimate load of 22.5kN, each system proof loaded to 15kN and with a final small ‘active’ lock off load of 5kN

Installation

Initial 100mm diameter holes were cored through the existing concrete block retaining wall and a total of 190 off Platipus S8 systems were installed and instantly load tested by the contractor over a short working period of 5 days

The Platipus anchoring systems were chosen and deployed for the following main features & benefits:

- A major driving force for implementing the Platipus solution was its speed and ease of installation
- Overall cost benefits versus the design, demolition and construction of a new retaining structure
- An environmentally sensitive solution adjacent to a water course, no grouting measures necessary



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