

CASE STUDY

NOOSA SLIP REPAIR & SLOPE STABILISATION

NOOSA, QUEENSLAND

PLATIPUS® S4 ANCHORED REINFORCED GRID SYSTEM (S4ARGS)



CONTRACTOR	Australian Marine & Civil (AM&C)
ENGINEER	GA Geotechnical
CLIENT	Noosa Regional Council
LOCATION	Noosa, Queensland
PRODUCT USED	Platipus S4ARGS



The Project

A small, already existing, embankment slope located in Noosa in Queensland required slope repair and stability. Platipus anchoring systems were used with a geosynthetic permanent erosion control matting for a ‘combination solution’. The system was also designed and detailed to facilitate and encourage vegetation growth and establishment.

Design

GA Geotechnical designed and detailed slope stability measures for a 30m length of slipped embankment, up to 6m in height with a maximum batter of 50 degrees. The solution consisted of a permanent geosynthetic matting (providing erosion protection and surface tension) which was secured to the slope face with Platipus S4 ‘proprietary’ anchoring systems. The anchoring systems were also designed and detailed to address shallow slip failure within the slope face and were driven 1.5m into the slope on a 1m grid spacing. Design life of the embankment stabilisation project was 60 plus years.

Installation

A permanent geosynthetic matting providing both slope surface tension and erosion protection, was secured to the steep embankment face by installing 70no. Platipus S4ARGS anchoring systems. The proprietary anchoring systems were driven, tensioned and load locked to a depth of 1.5m into the slope with the total works being completed over a period of just 2 working days

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

- A major driving force for implementing the Platipus ARGS solution was its speed and ease of installation
- Very short time frame achieved to complete the anchor installation works
- A difficult access project and simple and quick to secure the erosion control matting using small bespoke proprietary Platipus hand installation tools
- An environmentally sensitive solution facilitating natural vegetation growth and establishment

