

CASE STUDY

Geogrid

Project: Cameron Town Road Slip Repair
Date: June 2011
Client: Waikato District Council
Location: Pukekohe



Miragrid GX Geogrid

This site along Cameron Town Road to the south of Pukekohe consists of a steep slope constructed using an unsuitable fill material which when combined with a build up of hydrostatic pressure after heavy rainfall events resulted in slip failures and the need for constant repair.

Due to budget restraints small retaining structures were constructed over a 3 year period to alleviate the smaller slips and bank erosion problems. These however had all failed and ultimately lead to a large slip which took out a 30m section of Cameron Town Road reducing it to one lane.

A 20m high geogrid reinforced steep slope was designed in conjunction with piling of 7m deep timber poles along the toe of the slope to improve global stability. Assistance during both the design and construction phase was provided by Geofabrics. **Miragrid GX** polyester geogrids were used as the primary reinforcement for the slope. **Miragrid GX** geogrids met the engineers technical requirements for the project and also offered the contractor the benefit of using a wide roll with cost savings through quick and easy installation with minimal wastage.

A five man crew and 2 diggers were able to install approximately 90m² of the face area per day. This included laying of the geogrids, placing and compaction of structural back fill material.

Miragrid GX Geogrids are ideally suited to slip repair sites. The 5m wide rolls minimise the number of adjacent laps keeping wastage to a minimum. Their flexible structure simplifies the handling and laying of the geogrid. **Miragrid GX** is also fully tested following Internationally accepted test procedures and can be referenced to numerous projects throughout New Zealand. The range of tensile strengths available makes **Miragrid GX** well suited for repair of slopes even for those in excess of the 20m high slope located at this site.



Start of construction



During construction



Completed slope

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