GEOTECHNICAL / REINFORCED SOIL WALLS

Product: Terramesh® System

Problem
Extensive erosion occurred due to heavy rainfall as well as the overflow of the existing storm water pipes. This caused massive head cut erosion at the lowest point of the property.

An additional complication was that the erosion was dangerously close to undercutting the foundations of one of the buildings. A further problem was the undermining of the boundary fence.

Solution
A 7m high, 20m wide reinforced soil structure was constructed. It comprised of a mixture of Terramesh® and gabion units. In order to improve stability the wall was stepped and different sized units were used. To accommodate the upgrading of the storm water and drainage system, the structure included culvert protection and a Reno mattress apron at the base.

Benefits
There are many advantages to this type of structure. The main advantage being that extensive erosion has been halted and remediation of the existing donga can be now rehabilitated. The Terramesh® structure is flexible enough to cater for any settlement that may occur. The incorporation of this system also reduced the quantity and cost of rock required for the project. Due to the resultant reclamation of the land the building is once again safe.

Client name:
DEPARTMENT OF PUBLIC WORKS

Main contractor name:
ERBACON CONSTRUCTION

Consultant:
MOORE SPENCE JONES

Product used:
TERRAMESH® SYSTEM

Construction info:
Construction date: SEPTEMBER 2000
Completion date: OCTOBER 2000

Date: Aug 2000

Date: Oct 2000
As part of the ISO 9001 Management Systems, guided research and development programmes, information contained herein is continuously updated. Please confirm with Maccaferri SA (Pty) Ltd the latest version of the Product’s Specification available.