

## PORT OF GISBORNE LOG YARD GISBORNE, HAWKES BAY

### PAVEMENT REINFORCEMENT

**Product:** Tensar SS geogrid

#### Problem

The Port of Gisborne Logging Yard has been constructed over reclaimed land. The reclamation fill comprises approximately a 4m depth of variable material including organic material, timber, concrete and hardfill all over a papa shelf. Occasional channels up to 10m deep were encountered.

The subgrade for the log yard contained soft areas with a CBR of less than 1. Loadings on the yard include a 70 tonne axle loading Wagener which unloads approximately seventy to ninety, 14 tonne tandem axle trucks per day. The fully laden trucks are up to 46 tonnes max capacity.

The client experienced considerable problems with trucks and loaders sinking up to their axles.

#### Solution

The solution was to reinforce the subgrade with Tensar geogrids enabling a reduction in pavement depth from 700mm to 350mm. Metal in the Gisborne area is very expensive and considerable savings were made.

Tensar SS30 Geogrid was laid on the subgrade and covered with 150mm to 200mm of quarry strippings. This was topped with 100mm of AP40 basecourse and 50mm of AP20 surfacing. The client reports there have been no problems experienced where the Tensar Geogrid has been laid.

Client name:

PORT OF GISBORNE LTD

Main contractor name:

PORT OF GISBORNE LTD

Consultant:

WORKS CONSULTANCY SERVICES (NOW OPUS)

Product used:

TENSAR SS30

Construction date:

1995



Before construction

Date: 1994



Operations over reinforced pavement

Date: 1995

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