

# CASE STUDY

Double Twist Mesh

Project: Kerikeri Heritage Bypass  
Date: November 2006 - June 2008  
Client: Far North District Council  
Location: Kerikeri, Northland



## Green Terramesh

The growth of the Kerikeri township has seen an increase in traffic pressure on the existing single lane bridge heading north out of the town. This bridge is located in a low lying area making it prone to flooding. The road also passes the "Historic Heritage Site" (home of the Stone Store Building, built in 1832).

The decision was made that a new more reliable route was required to improve traffic flow times and reduce traffic noise for the surrounding residents.

It was decided to build a new two lane urban arterial road approximately 1.6km in length with an 89m long concrete bridge structure and 2 roundabouts at either end.

The **Green Terramesh** system was selected to protect the steep sided bridge abutments for the new concrete bridge. **Green Terramesh** provides a monolithic structure having a high degree of flexibility should settlement occur without losing its structural integrity, a critical requirement for this hydraulic application.

The bridge abutment also had to have high resistance to flood damage with any repair/maintenance work (if required) being at a minimal cost. The incorporation of a stone facing in the **Green Terramesh** units satisfied the erosion protection requirements as well as making it aesthetically pleasing on the eye which was in keeping with the architectural theme of the legendary Stone Store.

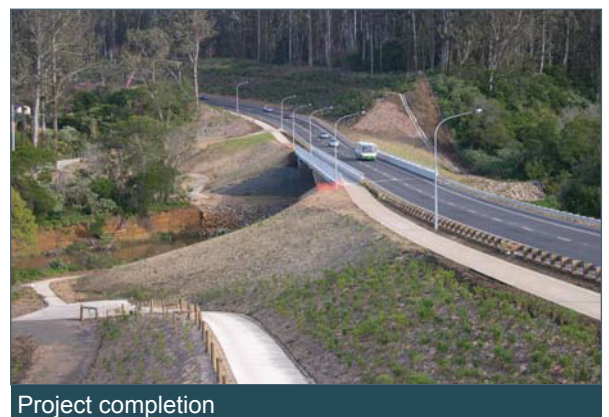
**Green Terramesh** provided a cost effective and easy to construct solution for this site with the system already passing its first test of extensive flooding soon after construction.



Bridge abutment commencement



Completion of bridge abutment



Project completion

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