

Addington Cluster Redevelopment Christchurch City

STORMWATER RUNOFF MANAGEMENT

Product: VersiTanks

The Problem:

Christchurch City Council are taking a proactive response to intensified urban subdivision and new sub-divisional developments that are placing increased demands on existing infrastructure and are looking for natural balance to recharging of natural groundwater and soils.

The Solution:

Megaflo drainage coils and **VersiTank** stormwater systems supplied by Maccaferri were some key elements of an innovative stormwater management system designed by Christchurch Capital Programme Group and constructed by City Care Ltd who received industry acknowledgement and award of the Infratrains NZ Industry Best Practice Award for Environmental Sustainability at the September 2007 Rooding NZ Excellence Awards.

An extract from the Judge's citation follows (as published in the Awards Report); "Addington Cluster redevelopment has provided an opportunity for the Christchurch City Council to take an innovative approach to improving road stormwater runoff quality and the solutions found raise best practice in this field to a new level. Firstly, flush stormwater is captured and treated in the roadside rain gardens which are unobtrusive, easy to maintain and which use an innovative filter system. Vegetated swales are also used and their design has been cleverly improved to incorporate local urban features such as community planting, artwork and other enhancements which transformed a drainage system into a community asset." The Judges noted that "this project is an excellent example of how a road network and its systems can both serve and also significantly improve a suburban environment."

VersiTank is a high strength modular subsoil structure with 95% internal void providing large holding volumes. Combined with **Megaflo** drain panel, all excess stormwater passes down through the rain garden before being filtered through the **Bidim** wrapped **VersiTanks** and **Megaflo** systems before recharging groundwater stores.

Site name:

Addington Cluster, Christchurch City

Consultants name:

Christchurch Capital Programme Group & City Care Ltd

Products used:

VERSITANK & MEGAFLO

Construction date:

APRIL 2006

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Construction of rain garden

Date: April 2006



VersiTanks & Megaflo being fitted

Date: April 2006



Rain garden completed / in use

Date: June 2008

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