

FERNDALE SUBDIVISION WAIKANAE, KAPITI COAST

WATER MANAGEMENT

Product: VersiTanks Stormwater Management

Problem

Ferndale is a new subdivision development located on the Kapiti Coast. This region has a zero stormwater discharge requirement meaning all stormwater collected on site must be managed and controlled in some form on site. The original design called for a conventional rock "soak pit" style installation requiring very large areas of rock soak pits to meet the required stormwater holding volumes based on approx 30-50% void content.

The developer's brief for this project was to be a high quality eco-sensitive development, using the best eco-sustainable options and to be within the reach of typical family, couples and individuals of all ages.

Solution

The **VersiTank 840** range; was requested as an alternative solution to the rock soak pits on the basis that is offered up to 93% void cavity resulting in smaller / less excavations throughout this development, while still meeting local council requirements. **VersiTank 840** is manufactured from 100% recycled material which is a contributing factor to meeting the developers brief for this eco-sensitive development.

VersiTanks simply clip securely together and depending on the stabiliser configuration offer high compressive strengths of up to 40 tonne per meter square. The high void area of **VersiTank** provides the ability to maintain the system by simply flushing / pumping any sediment out of the underground tank on demand, which couldn't be done with the original rock soak pit option. This allowed services to be installed after installation of the soak pit due to the rigid qualities of the **VersiTank**.

Savings in time, space and money were achieved with the installation of **VersiTank** below the road side swales where they simply blended into the natural landscape (see photos or www.ferndaletrust.co.nz)

Client name:

FERNDALE TRUST

Consultant:

AURECOM - Kapiti Office; Guy Forrest

Contractor:

COLIN SMITH CONTRACTING

Products used:

VERSITANKS 840 & 550, BIDIM A14 & A29

Construction date:

AUGUST 2008

Maccaferri NZ Ltd.

14 Goodman Place, P.O. BOX 12536, Penrose, Auckland, New Zealand
Tel. (+64) 9 6346495 - Fax (+64) 9 6346492, FREEPHONE 0800 60 60 20
E-mail: sales@maccaferri.co.nz - Web site: www.maccaferri.co.nz
Quality System AS/NZS ISO 9001:2000



Initial site with VersiTanks



Construction



Completed site

The information presented herein is, to the best of our knowledge and belief, correct and is subject to periodic review and revision. The validity of the information relative to the subsoil, hydraulic and other engineering conditions must be ascertained by a suitably qualified person. No warranty is either expressed or implied. Unauthorised reproduction or distribution is prohibited. Copyright is vested in Maccaferri or Maccaferri's Principal where applicable.