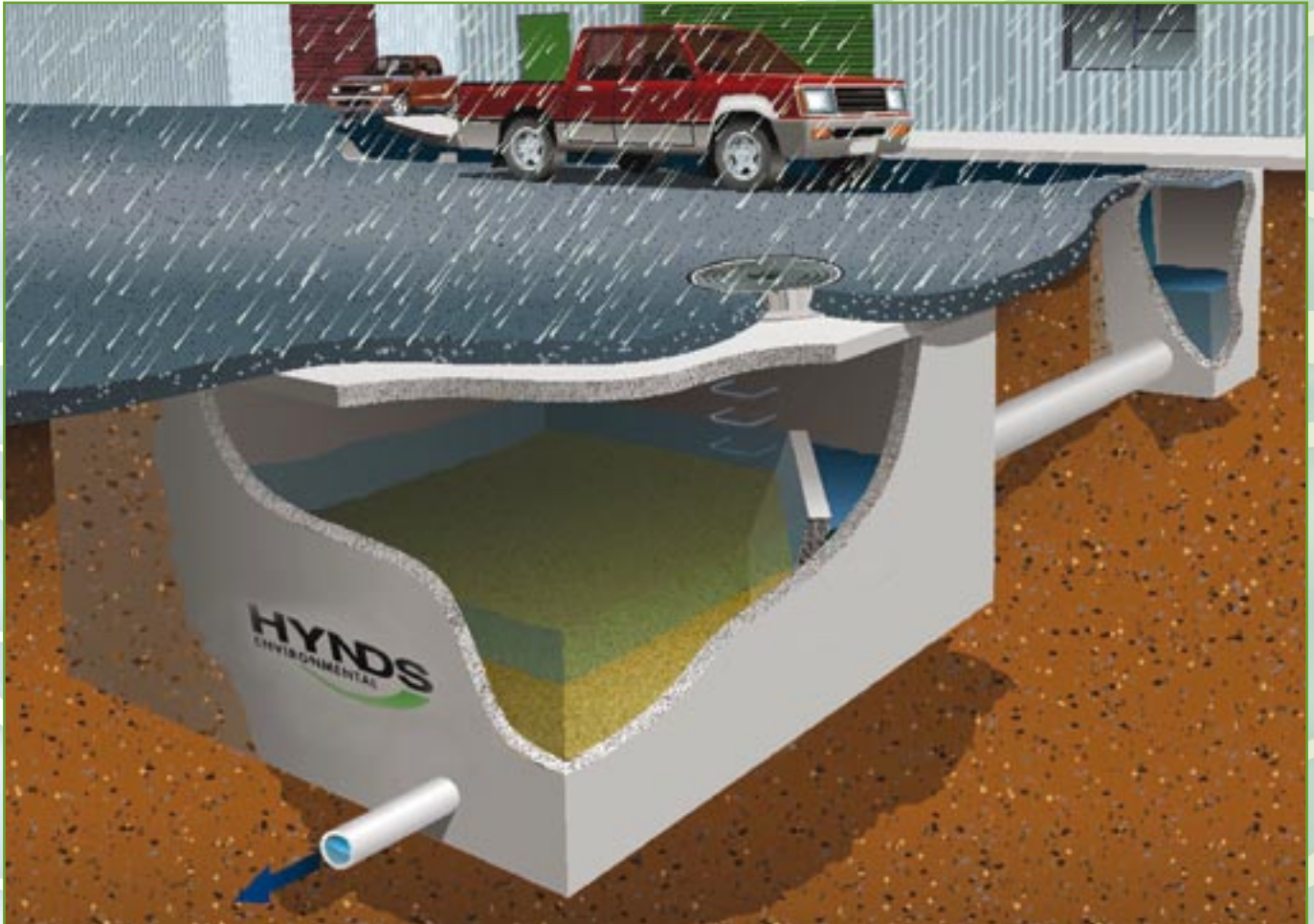


### HYNDS SAND FILTER SYSTEM



#### Introduction

Hynds Sand Filter Systems have been developed to capture settleable solids, floatables, oils and grease from stormwater runoff. They are designed to comply with ARC TP10 which makes them easy to specify and easy to approve.

The high removal efficiencies and small footprint of the Hynds Sand Filter make it a compact and economical solution for non-point source pollution.

#### Applications

The Hynds Sand Filters small footprint makes it an ideal choice wherever stormwater treatment is required. Installation locations include:

- Streets and roadways
- Parking areas

- New developments
- Shopping centres
- Truck stops
- Vehicle maintenance yards
- Industrial and commercial facilities

#### Advantages

- Removes sediment, floatables, oils and grease
- Small footprint
- No pollutant re-entrainment
- Low head loss
- Easy to install
- Low maintenance
- Easy to specify
- Designed for traffic loading

# HYNDS SAND FILTER SYSTEM

## Models

### Hynds In-Line System

Hynds In-Line Sand Filters are designed to treat a larger runoff area after the stormwater has entered the drainage network. These systems are integrated into the on-site drainage network. They are designed to collect, store and treat all stormwater runoff from a specified catchment area.

### Hynds Source-Control System

Hynds Source-Control Sand Filters are designed for treatment prior to the stormwater entering the drainage network. These systems can be placed in roadways or carparks adjacent to kerbs or in open spaces.

Multiple Source-Control Sand Filters can be installed for treatment of larger catchment areas.

## Performance

Hynds Sand Filter Systems are designed to treat stormwater runoff with the following performance criteria:

- Retention of  $\geq 75\%$  of total suspended sediments
- Capture of floatables, oils and grease
- Ability to store increased flows during storm intervals
- Capture of coarser sediments in a sedimentation chamber
- Modular units to allow incremental capacity increases as well as simple on-site installation
- Hynds In-Line units incorporate a bypass device to prevent unit flooding at peak flows

## Sizing and Design

Hynds Sand Filter Systems are sized on the volume of stormwater to be treated.

Standard systems are available to treat from 150m<sup>2</sup> to 5000m<sup>2</sup> and custom Sand Filters have been designed to treat up to 10000m<sup>2</sup>.

Hynds Environmental will design a Sand Filter for each specific site based on the site constraints and performance requirements.

## Installation

Installing a Hynds Sand Filter is quick and simple. The Sand Filter is delivered to site in a kit set form, ready to be installed into the excavated hole and connected to the stormwater system. All internal components are installed in our factory to minimise the work required on-site.

## Maintenance

Hynds Environmental offers maintenance contracts on all Hynds Sand Filters. In most situations, bi-annual clean-outs are recommended.

Two ports at ground level provide access to both the sedimentation and filtration chambers. A simple vector procedure is used to periodically remove the sediments in the primary sedimentation chamber while the filtration chamber requires the sand to be rejuvenated periodically.



*Hynds sand filter being installed.*

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protecting our environment

**HYNDS**  
ENVIRONMENTAL

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[www.hynds.co.nz](http://www.hynds.co.nz)

Reference EV05 August 2007