



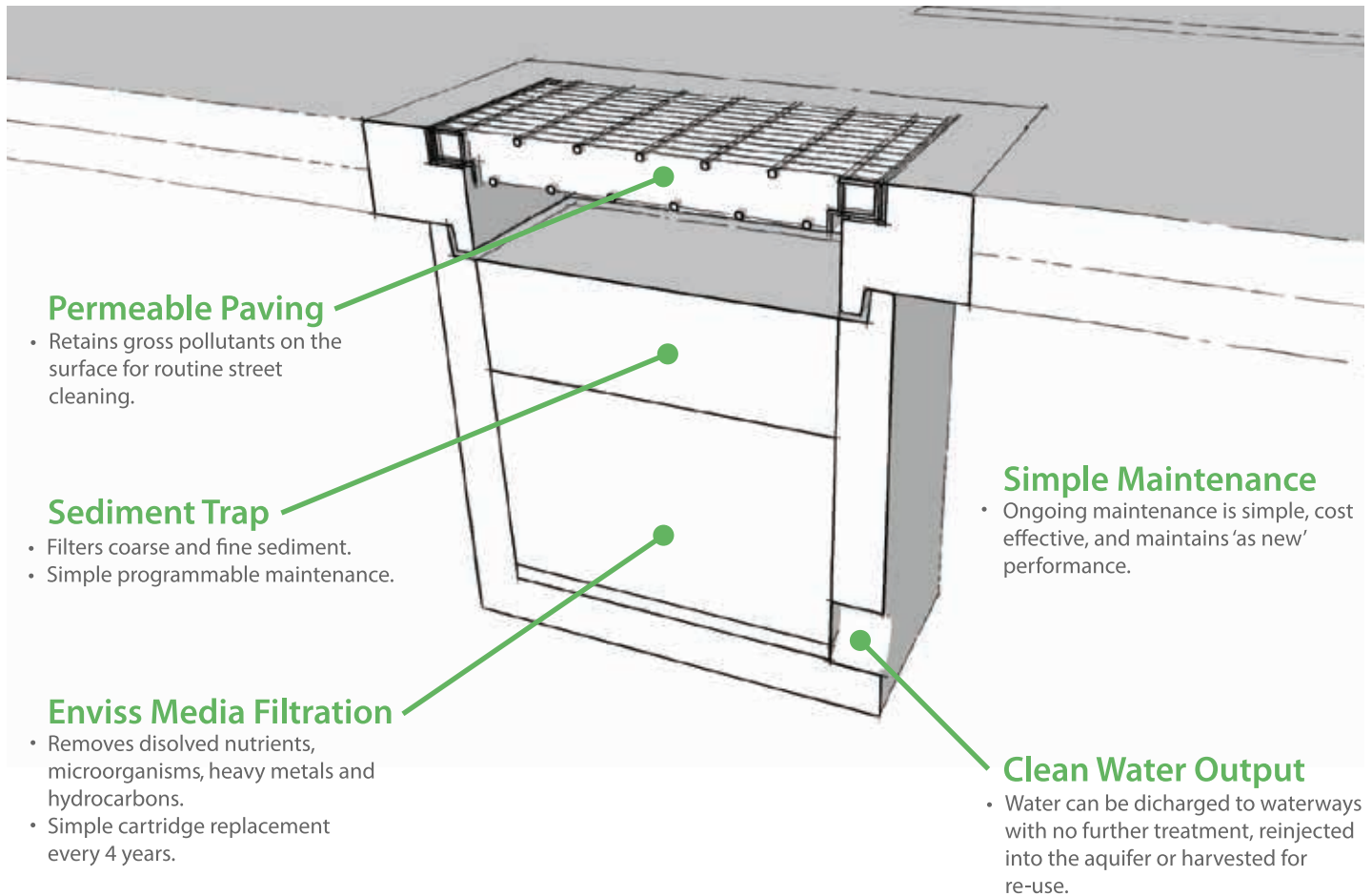
envissSentinel™ Pits

envissSentinel™ Pits are a unique alternative to raingardens and wetlands, to treat stormwater run-off in residential, commercial and industrial areas. Water filtered in the three-stage treatment train can be discharged, reinjected to the aquifer or harvested for re-use.

The unique design allows for increased flexibility in implementation and land area savings of 85% compared to alternatives. The pits are delivered complete, ready to install.

envissSentinel™ Pits

A Distributed Water Treatment Solution



Advantages

Verified Performance

- Developed, tested and verified by Monash University's Engineering Department.
- Reliable and predictable performance.
- Meets regulatory run-off requirements.

85% Space Saving

- Only 15% of equivalent raingarden or wetland surface area required.
- Trafficable surface allows for even greater land saving in high-density areas.

Simple Maintenance Cycle

- Sustainable, predictable and low cost maintenance cycle.
- No degradation in long-term performance.

Flexible, Modular Design

- Engineered to be scalable with low design costs.
- Simple MUSIC integration with EnvisDT modelling software provided.
- Increased design flexibility.

High Flow Rates And Treatment Performance

- Lowers cost of downstream treatment.
- Can target specific pollutants groups for trouble spots.

Removal Rates Exceed Guidelines

Pollutants	Australian Run-off Quality Guidelines	envissSentinel™ Filter Media
Total Suspended Solids	80%	96%
Total Phosphorous	45%*	67%
Total Nitrogen	45%	79%
Aluminium		77%
Cadmium		95%
Chromium		87%
Copper		88%
Iron		85%
Lead		81%
Zinc		94%
Total Poly Aromatic Hydrocarbons		Not Detected
E.coli		N/A

*(60% in South-East Queensland)

Typical Maintenance Comparison

	Raingarden	envissSentinel™ Pits
Annual Maintenance	<ul style="list-style-type: none"> • Remove sediment build-up • Restore surface scouring • Replace dead plants • Remove weeds 	<ul style="list-style-type: none"> • Clean grate and sediment trap.
Replacement	<ul style="list-style-type: none"> • Divert flows around rain garden • Excavate and remove media • Clean under drains • Replace media • Revegetate system 	<ul style="list-style-type: none"> • Replace media cartridge (after 4 years)



Envirostream Solutions Pty Ltd

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