



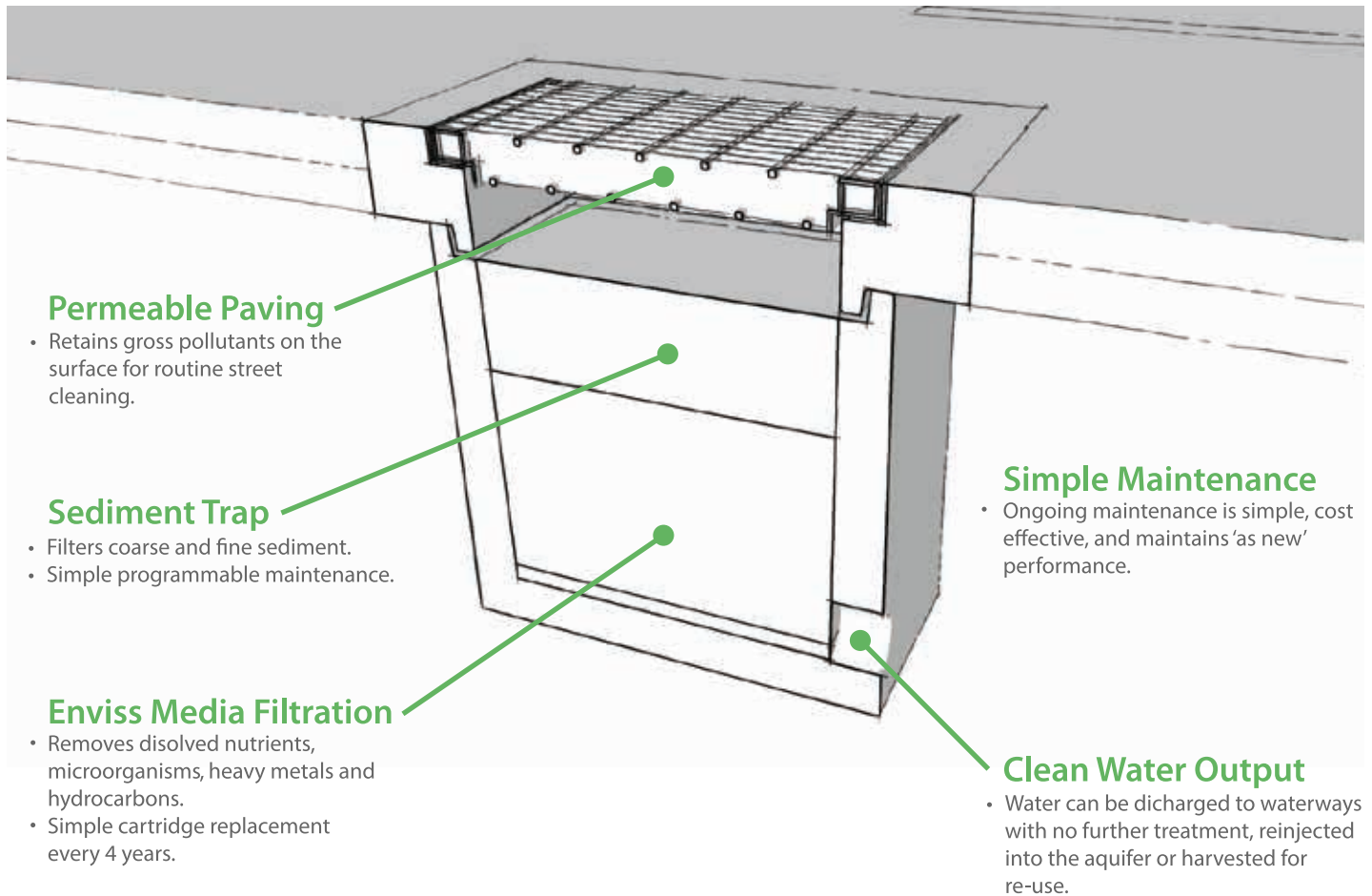
## envissSentinel™ Pits

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





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