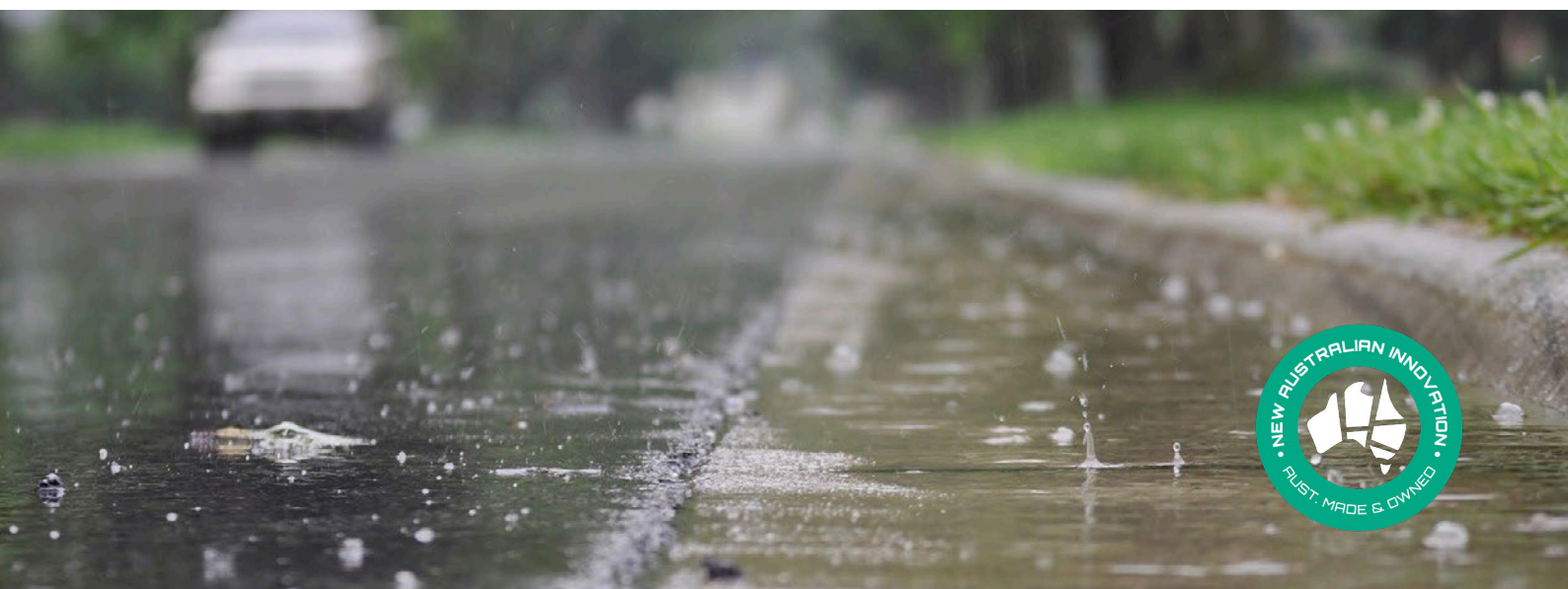




ENVIROKERB

Innovative Water Flow Management Solution

Capture at the kerb. Passive irrigation where it is needed.



Water Flow Capture

EnviroKerb captures and recycles surface water run-off from roads, at the kerb, and redirects it for irrigation of vegetation and protection of trees.



Urban Design

EnviroKerb can be readily incorporated into urban design and parkland landscapes to ensure functional management of surface water.



Reduced Water Consumption

EnviroKerb helps reduce the need to use potable (drinking) water for irrigation, whilst protecting trees, plants and nature strips.

EnviroKerb is an ideal water flow management solution for
Councils • Water Management • Urban Planning • Landscaping



Revolutionising Water Flow Management

EnviroKerb Water Capture and Detention Systems

Urban areas have expanses of constructed hard and impervious surfaces like roads, driveways, car parks, roofs and paving. Water flowing across these surfaces is carried away rapidly — and away from the vegetation that needs it most.

Water Detention

EnviroKerb can be used in conjunction with Structural Soil Cells, creating a below-ground detention tank that captures surface water run-off.

Water Capture and Reuse

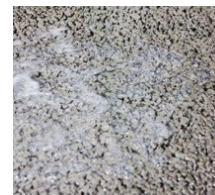
EnviroKerb can be installed as a standalone item in any profile to replace traditional concrete kerb and channel items, allowing water to be absorbed and redirected to irrigate newly planted street trees adjacent to roadways and public open spaces.

Kerb Products

EnviroKerb is made from a patented permeable concrete formula to form strong, precast pervious concrete kerb products that replace traditional concrete kerb and channel — effectively capturing, retaining and redirecting water on streets, pavements and roadways.



EnviroKerb products are easily interchanged via the cast-in threaded lifting sleeves.



Water Flow Rate

Permeable concrete formula tested to ASTM 1701.

EnviroKerb accepts water at the kerb line during frequent, low-intensity flows — the flows that make up the majority of annual runoff volume.

EnviroKerb Designs Include

- Barrier Kerb and Channel
- Spoon Drain
- Roll Over Kerb and Channel
- Flat Slab
- Made to measure options

EnviroKerb Maintenance

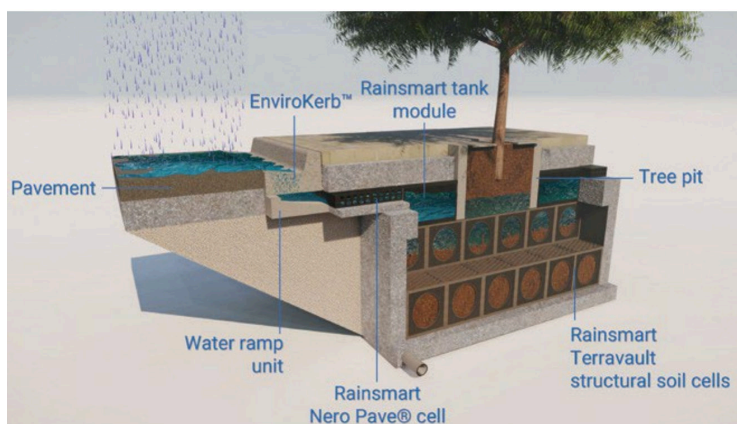
Maintenance of EnviroKerb products is straightforward — using conventional street sweeper and vacuum truck methods, programmed in with Council's existing maintenance programs.

Made from Sustainable Products

- Enviro friendly blended cement
- Recycled golf ball aggregate
- Recycled plastic aggregate

Water Sensitive Urban Design (WSUD)

EnviroKerb intercepts water at the source, slows the rate at which it leaves the site, and makes it available to the trees and green spaces that keep our cities cool.



Water is essential in keeping the urban forest and green spaces healthy and cooling the city. The sustainable use of water is directly linked to liveability.

The Challenge

Australia's urban areas produce approximately 3,000 GL of run-off annually — with less than 3% of this rainwater being re-used. Australian cities also draw an estimated 2,100 GL of water from their catchments and groundwater sources each year.

The Solution

Determined to make a difference, PPC Australia undertook research to learn how permeable concrete technology could help.

EnviroKerb has been designed around a rainfall interception approach — capturing water at the source, thereby reducing the rate of flow and making that water available for irrigation.

Environment

Water Sensitive Urban Design plays a crucial role in how our cities are being designed. Current best practice WSUD technologies utilise vegetative systems to promote rainfall interception and absorption.

WSUD Values

- Ability to retain significant vegetation
- Protect sensitive species
- Reduce the percentage of impervious areas
- Reduce the volume and velocity of water leaving the site
- Reduce demands on drinking water (potable water conservation)
- Foster landscape integration — water management incorporated into urban design and parkland landscapes

RECYCLED CONTENT

EnviroKerb can use up to 20% recycled plastic aggregates as a replacement for mined aggregate.

Benefits of EnviroKerb

Water Flow Reduction & Reuse

Sustainability and cost efficiencies.
Reuse of water for irrigation of council and commercial assets using WSUD.

Frequent Flow Capture

Captures water at the source and slows the rate of flow leaving the site.

Tree Protection & Growth

Asset protection and cost efficiencies.
Landscape integration improving hydration of garden beds and trees.

Reduced Demand on Potable Water

Cost efficiencies and sustainability through potable water conservation.

Improved Traffic Safety & Skid Control

Reduced risk associated with the build-up of water on roads.

Urban Forest Strategy

Sustainability and asset protection.
Rainfall interception and reuse at the kerb line.

"EnviroKerb technology aims to reverse the way water is handled in our streets — capturing it at the source and returning it to the trees, gardens and green spaces that make our cities liveable."

MARTIN COOK · DIRECTOR, PPC AUSTRALIA



Sustainable Support

PPC Australia is a proud supporter of the Great Barrier Reef Foundation.

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Patents

Patent No: 2021366961
EnviroKerb is a product of PPC Australia.

Online

envirokerb.com.au
ppcaust.com.au