



THE Overflow

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IN THIS ISSUE

Redevelopment of Sullivan Logistics Stadium

Irrigation Australia training in a remote WA community

Way of Water: The WaterSmart Dams project

Transforming a Hobby Farm with modern irrigation

The role of flushing in drip irrigation maintenance

Better water efficiency and plant health with Vortex



Enhancing Water Efficiency and Plant Health with Vortex Technology

Water conservation and improved irrigation efficiency are crucial in maintaining healthy landscapes while reducing resource consumption. The installation of vortex technology in irrigation systems has demonstrated remarkable benefits, from substantial water savings to enhanced plant and soil health.

OPTIMISING WATER USAGE

The integration of vortex technology has shown a significant improvement in water efficiency, reducing water use by up to 30-40%. This optimisation ensures that water is effectively available to turf, plants, and trees, maximising hydration with minimal waste.

HEALTHIER TURF AND PLANTS

With better water absorption, turf and plant health see noticeable improvements. The energised water enhances soil structure, unlocking essential nutrients and improving water movement within the soil. This allows the root system to uptake water and nutrients more efficiently, leading to lush landscapes without the need for excessive watering.

ENHANCED SOIL HEALTH AND WATER RETENTION

Vortex technology contributes to better soil health by promoting the movement of water through the soil. This not only improves nutrient availability but also increases water retention, reducing the frequency of irrigation while sustaining plant growth.

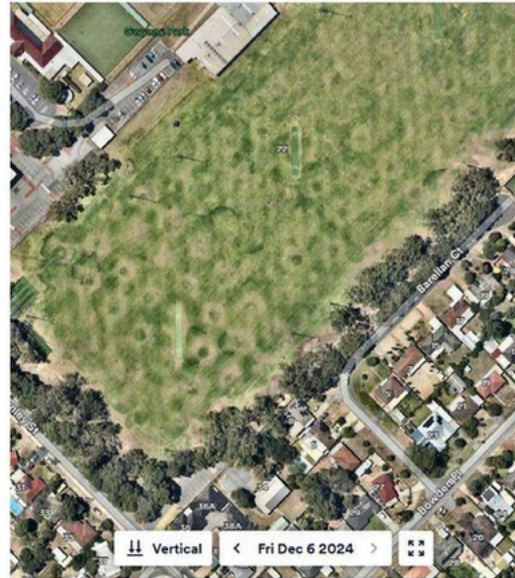
IMPROVED IRRIGATION SYSTEM PERFORMANCE

By reducing friction loss in pipes, vortex technology minimises pressure loss, leading to improved sprinkler coverage. Additionally, it helps prevent the buildup of iron and calcium deposits within the irrigation system, effectively softening the water and extending the lifespan of the infrastructure.

COST AND MAINTENANCE BENEFITS

A notable advantage of vortex technology is the reduction in irrigation run times. This leads to lower pump running costs and reduced maintenance expenses. Furthermore, the system requires no ongoing maintenance, operates without electricity, and boasts an impressive lifespan of over 30 years.

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REAL-WORLD SUCCESS STORIES

Gwynne Park, City of Armadale

In December 2023, vortex technology was installed at Gwynne Park, where the irrigation system is approximately 35 years old and lacks head-to-head coverage. Despite these limitations, the improvement in turf health has been evident. The City of Armadale has also reduced its irrigation schedule from seven days a week to four, achieving a 5% reduction in water use on those days without any additional site work beyond scheduled maintenance.

Due to the significant improvements in soil health and the condition of the turf, the City of Armadale has not had to carry out the scheduled fertiliser application. This is a direct result of the efforts made in enhancing soil quality. See the photo from the end of March 2025 for a visual representation of these positive changes.

Read the feature article on the vortex install for the City of Armadale [HERE](#).



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Rodney Industries

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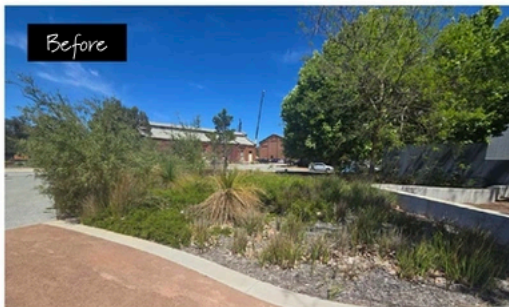
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Curtin University, Midland Campus

Like the Armadale site, Curtin University Midland faces challenges due to its irrigation being off scheme water, restricting watering to twice a week as per Water Corporation regulations. The vortex installation aimed to maximise the efficiency of these two watering days. Since its implementation in November 2024, turf and garden health have improved significantly with no additional site modifications apart from mowing.



Other Successful Installations

- **Kondinin Oval:** Achieved a 25% water reduction.
- **Hyden Oval:** Also reduced water use by 25%. These ovals depend on dam catchment water, making every saved drop crucial.
- **Touchwood Nursery (main supplier to Bunnings):** Noted improved plant health, increased water retention in pots, and reduced watering needs.
- **Various market gardens and farms in South Western Australia** have experienced similar benefits.

LOCALLY BUILT FOR SUSTAINABLE WATER MANAGEMENT

Vortex technology is proudly Australian-made in Bunbury, ensuring quality while supporting local industry. Its effectiveness in reducing water consumption and enhancing landscape health makes it an invaluable tool for sustainable water management.

By adopting this innovative solution, councils, businesses, and agricultural sectors can achieve significant water savings, cost reductions, and long-term environmental benefits.



NewGround