

WATERPROOFING PLAYFORD



The Recycled Water Scheme supports a number of Council's strategies by improving the city's appearance, building value and supporting the development of Adelaide's Northern CBD.

Our Objective

- Provide stormwater management and mitigate flooding across the city
- Improve city presentation
- Deliver environmental benefits
- Improve community well-being and
- Deliver financial benefits

Our Sites

The City of Playford operates five managed aquifer recharge infrastructures that capture stormwater and recycle water for purposes of irrigating at an increasing number of sporting clubs, reserves, community and school ovals.

Our Security

The City of Playford guarantees security of irrigation water through our Waterproofing Playford program. The City has developed a unique integrated approach following engineering designs to allow harvesting the water for Aquifer Storage and Recovery.

What is Recycled Water?

Recycled water is defined as any non-drinking, reclaimed, recycled or reused water. This may include recycled stormwater, recycled effluent or native groundwater.

The water is treated to a high standard to remove impurities and stored for irrigating. The City of Playford manages five sites that collect, treat and store water across Playford.

Recycled water provides fit for purpose irrigation water at a rate less than SA Water and earns revenue from supply to internal and external customers.

The waterproofing program was introduced in 2008



How does it work?

At first instance stormwater is collected in a series of wetlands across Council. Our primary source however is urban stormwater which we extract from Smith Creek. The next stage is undertaken via a process known as Aquifer Storage & Recovery (ASR).

ASR is the process of injecting cleansed stormwater from wetlands into a suitable underground aquifer for storage over winter.

The stored water is then able to be extracted using a bore during the drier months. The distribution of is water is through a network of pipes which link and deliver water to Council sites and customers.

Understanding aquifers

- Consisting of water-bearing permeable rock or unconsolidated material (gravel, sand, silt or clay), aquifers are layers beneath the surface that formed millions of years ago through which water can flow
- Injection wells are created into these aquifers, with holes being drilled down approximately 100 metres
- Once water is injected into aquifers, a zone between the stormwater and native ground is formed known as 'attenuation zone'

Types of Recycled Water

Currently, City of Playford has two sources of water for irrigation:

- Managed Aquifer Recharge (MAR) which is recycled stormwater
- Native Groundwater (bore water)



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