

Waterproofing Eastern Adelaide – Shakespeare Reserve Storage Tank and Booster Pump Station

The Waterproofing Eastern Adelaide Project involves the construction of an Aquifer Storage and Recovery (ASR) Scheme to harvest, treat, store and distribute recycled stormwater for the irrigation of parks, reserves and schools within the Eastern Region of Adelaide.

The key features are the linking and aggregation of small aquifers and storages via a regional ASR system, and the development of a cross-catchment, cross council recycled stormwater supply pipeline throughout eastern Adelaide.

The project will:

- Yield up to 494ML/a of treated stormwater
- Construct approximately 42 km of distribution network across the eastern Adelaide region to service irrigation demand replacing potable water
- Improve water security for eastern Adelaide

Project Background

Waterproofing Eastern Adelaide is being delivered by ERA Water, a subsidiary of the Town of Walkerville (ToW), City of Norwood Payneham & St Peters (NPSP) and the City of Burnside (CoB).

These Councils have been working together since 2009 to plan and now implement the Waterproofing Eastern Adelaide project. This Project is expected to reduce operational spending on local reserve and school grounds irrigation and enhance the quality of water that is discharged to the Gulf of St Vincent.

The Waterproofing Eastern Adelaide project is supported through funding of \$9,500,000 (GST exclusive) from the Australian Government's National Urban Water and Desalination Plan, and funding of \$2,000,000 (GST exclusive) from the Adelaide and Mount Lofty Ranges Natural Resources Management Board, which assisted the Councils in the initial stages and continues to be an integral contributor of the three councils.

The Councils and ERA Water will work with the community to ensure that the Project also provides amenity improvements and educational opportunities, whilst at the same time providing irrigation to our schools and reserves.

Project Description

Stormwater will be harvested from Third and Fourth Creeks in the Felixtow area. The water will then be treated.

The project consists of two treatment sites:

- Felixstow Reserve wetlands and bio filtration
- Hamilton Park Reserve bio filtration and UV disinfection system

Following treatment, the water will be distributed throughout the pipeline network, through Marden, Payneham, Magill, Kensington Gardens, Burnside and Walkerville.

The Shakespeare Reserve Storage Tank and Booster Pump Station plays a crucial role in enabling water to be pumped around the pipeline network for the irrigation of parks, reserves and schools within the Eastern Region of Adelaide.

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ERA Water has appointed a contractor to construct a storage tank on the existing embankment at Shakespeare Reserve. A booster pump station will be located alongside Shakespeare Avenue adjacent Third Creek to pump water into the distribution network and deliver water into the Magill, Kensington Gardens and Burnside areas.

Works will commence in mid November 2016 and finish in June 2017.

The tank will be buried into the existing embankment. The pump station shed will be of steel construction and green in colour. Insulation will be installed inside the shed to reduce noise.

If you have any questions regarding the Waterproofing Eastern Adelaide project, please do not hesitate to contact the project team on **1300 309 660**.

For more information or to register for project updates, visit the project website at era.sa.gov.au

Plan View



Cross-section view of tank

