

Reclaimed water (treated effluent) reuse: Application guide

This is a guide to the detail to be provided when making an application for the approval of a reclaimed water reuse scheme.

We recommend that you refer to the SA Reclaimed Water Guidelines when preparing your application (see our [Reclaimed water reuse](#) web page).

Information to be provided:

- A location plan providing accurate details to locate the site.
- A scaled plan showing the exact position and use of all nearby buildings and the proximity of dwellings, public areas and public roads.
- A scaled site plan showing relevant information about the location of the reclaimed water source and storage facilities (where applicable), pipe work and associated components, boundaries, buffer zones and important structures relevant to the site, such as watercourses and dwellings. The plan should preferably be on A1 size paper (or minimum of A3).
- Details of site characteristics such as location, topography, land characteristics, soil stratigraphy, depth of water table and surface and groundwater proximity.
- The proposed method of distribution and application of reclaimed water for the purpose of its intended reuse. This should include pumping details, pipe work sizes and all engineering calculations and specifications relating to the sizing of the scheme and its components.
- The source of the reclaimed water along with the type of treatment process, volume and characteristics of reclaimed water (data to be included where applicable and available), the size of the population connected, growth trends and discharge location.
- The storage of reclaimed water including the method and type of storage and storage capacity.
- The proposed system controls including timers, alarms, distribution safeguards, runoff collection provisions and maintenance programmes.
- Information on the management and monitoring of the scheme.
- Buffer zone distances should be submitted with any relevant calculations.
- Details of water balance including climate variables, proposed reclaimed water application rates, the average evaporation, transpiration and percolation rates and risk of flooding of the site.
- The type and proposed use of the vegetation, crop or pasture to be planted within an irrigation site.
- The type and location of signage to be used.
- Engineering assessment of soils.
- How the diversion of surface water around the irrigation area is to be managed.
- Contingency plans for flooding, high rainfall periods, malfunction or power outages that impact on the system.



Wastewater Fact Sheet

Further information

Go to our [Reclaimed water reuse](#) web page for:

- SA Reclaimed Water Guidelines
- Application form
- Approval criteria
- Other government agency approvals required.

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