

## South Australian Water Treatment Plant

Every year, SA Water manages and treats millions of litres of sewerage in South Australia. SA Water was proposing to substantially increase capacity at its Bolivar Wastewater Treatment Plant to help meet future population and industry growth in the surrounding region. As part of SA Water's plan to upgrade the South Australia plant to increase capacity of up to 50% in certain areas, Treadwell had been tasked to aid in fulfilling the expansion of the facility. \$24.6 million has been budgeted for the capacity upgrade in the 2015 period, with additional expenditure in future years to be determined through detailed design and tendering processes.

### Project Challenges

- Previous plant was suffering from corrosion of concrete in a number of key portions of the plant.
- Elements to allow inlet screens and clarifiers to accommodate the new projected flows were required.
- The cost of maintenance of the facility is a concern once installed as experience with previous materials required consistent attention to upkeep the usability of the centre.

### PROJECT INFORMATION

Project Category:	Waste Water treatment plant
Scope of Work:	Upgrading & Increasing the capacity of Bolivar waste water
Treadwell Products:	EcoEX™ Sureline® FRP Odour Control Panels ArchitEX™ FRP Structural Profiles



### Treadwell Solution:

- 1 High performance EcoEX™ SureLine® FRP Odour Control Panels are manufactured from premium grade corrosion resistant fibreglass resins and have reinforced membranes that contain odours.
- 2 The extensive range of ArchitEX™ FRP Structural Profiles provided the durable and strong components in the construct of inlets and other framework specified.
- 3 FRP is simply fabricated and modified on site. This means there is no need for any hot works permit.
- 4 Being lightweight and easy to install, FRP is very manageable during construction.
- 5 Given the nature of FRP, any system utilising it is virtually maintenance free, thus keeping maintenance costs as low as possible.