

Reverse Osmosis

Water is forced through many fine filters, pushing out the salt and impurities.



SPIN

Spin the barrel to push all the salt out of the water.

Minerals

Minerals are added to the pure water so it is ready to drink.

3



SQUEEZE

Squeeze the pump to add the minerals into the fresh water.

4

Fresh Water

The water is now ready to drink!

Around half of Perth's drinking water comes from the Indian Ocean.
Find out how we do it.

INTERACTIVE DISPLAY AT PERTH ROYAL SHOW
WATER CORPORATION

INTERACTIVE DISPLAY AT PERTH ROYAL SHOW

WATER CORPORATION

Our work in September 2023 involved two of Perth's most well-known household names – The Royal Show and Water Corporation.

The iconic Perth Royal Show began in 1834 as the Annual Fair and Cattle show in Guildford. In 1902 the state government granted the Royal Agricultural Society of WA (RASWA) land in Claremont and since then the show has grown significantly. Since 1905 the number of people in attendance has grown from 30,000 to 350,000 people each year.

Showcasing over 300 performances and 400 entertainers, the Royal Show is a much loved and highly anticipated community event. With plenty of fun rides and stalls, the Perth Royal Show also aims to promote and educate the Western Australian community about local agriculture and resources.

Water Corporation has been a regular exhibitor at the Show. Owned by the State government, the Water Corporation is the principal supplier of water, drainage, wastewater, and irrigation services. Their aim is to create and develop new methods to improve the state's water sustainability both now and for the future.



SIGNS&LINES

CASE STUDY

Desalination is a key element of the sustainability drive and we were delighted to help with an interactive display demonstrating the science of desalination.

INTERACTIVE SIGNAGE DISPLAY

Many visitors, old and young, visited the Woolworth Ag Pavilion/Farm 2 Food where Watercorp's friendly staff were there to answer questions about water in WA. Did you know that over half of Perth's drinking water comes from the Indian Ocean? The Water Corporation exhibit aimed to show young and old how seawater is made ready to drink through a series of desalination techniques.

PROJECT SNAPSHOT

- Project:** Interactive signage display
- Location:** Perth Royal Show, Claremont Showgrounds
- Environment:** Internal
- Client:** Water Corporation
- Date:** September 2023
- Features:** Self-standing Interactive exhibit made out of three interconnected water-filled elements to visually demonstrate how desalination works.



DESIGNED RIGHT

When you choose Signs & Lines, you get our whole team working to make a quality project.

Like many projects, this one passed through the hands of all our different departments, including sales, the design team, the workshop team, and finally our installation department. Effective communication between these teams is critical in maintaining consistency and ensuring everyone is working towards a common goal.

During the concept phase of the project, our design team created meticulous shop drawings to ensure the stand would be fit for purpose. The wish list included: - Not too large, not too heavy, hardy enough to for interaction during the Royal Show, suitable for all ages, engaging and with good viewpoints from all angles.

Getting the design correct is always a challenge – with many factors such as price, quality and aesthetic to be considered. Unsurprisingly, Water Corporation elected for quality, and our Signs & Lines team took it upon ourselves to deliver our trademark excellent finished product.

DISPLAY IN DETAIL

Water Corporation were seeking a fun and engaging interactive display to allow showgoers to see how salt water is adapted into fresh water through the process of reverse osmosis.

The overall length of the interactive stand was over 3 metres, with a working height of one metre allowing both adults and children to interact with the display.

The exhibition stand consisted of a number of custom acrylic features which were carefully prototyped in advance to create a frame made of laser cut baseplates, steel tube fittings and threaded rod. A couple of prototypes were involved to ensure watertight displays were able to withstand little fingers, enthusiastic users and the 'youth' target audience! Trial and error is the only way for such bespoke, custom designs.

SIGNS&LINES

CASE STUDY

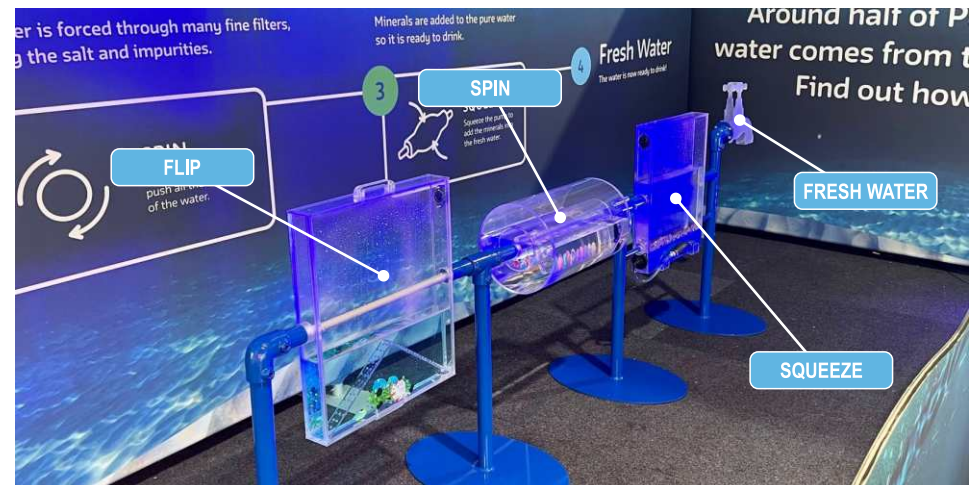
The finished stand consisted of 4 elements - **FLIP . SPIN . SQUEEZE . FRESH WATER:-**

- **FLIP - Box A** – clear acrylic, with 2 handles allowing it to be flipped. Filled with sand, plastic fish and artificial seaweed contained in a filter space;
- **SPIN - Barrel** – clear acrylic with handles each end allowing it to be rotated. Filled with floating plastic balls to represent finer particles;
- **SQUEEZE - Box B** – clear acrylic filled with sand and glitter. Static with hand pump primer bulb and hoses at the sides blowing the coloured pellets – representing seabed debris blown upwards and then slowly settling again.
- **FRESH WATER** - fabricated tap – static and bolted to a steel pipe.

Every edge had to be considered, with every corner perfected to provide a professional, safe and inviting interactive display. The acrylic panels were designed, routed and constructed to an incredible level of detail.

The finished design was completed in-house for testing and then decommissioned prior to being installed at the show.

The project was installed without issue – testament to the proficiency of our lead installer, as well as the meticulous planning and forward thinking of the project manager. During the Royal Show our installers were on call in case any fix-ups were required.





OPPORTUNITIES & CHALLENGES

Going forward the display is scheduled to be re-used at other events and has already been utilised at Watercorp's Head Office.

Post event the handles on Tank 2 were remodelled. So instead of remaking the tank the handles have been removed and replaced for rubber bungs. Users can use the surface of the tank to propel and rotate.

MAKE THE MOST OF YOUR ASSETS

Our team of professionals are just a phone call away.

The Signs & Lines promise is to take complete control of the project from start to finish. We take your big idea, and nurture it through a glorious metamorphosis to wonderful result.

Some call it turnkey, others call it end-to-end, but the principle is the same – whether it be a exhibition stand, a directional pylon or a sales office digital display, we take care of the whole signage solution. Based around budget and functionality requirements, we recommend hardware, software and physical housings with wow factor in mind!

We speak the language so leave the hard work to us!

For more information give us a call on + 61 8 9274 5151 or email admin@signsandlines.com today.

SIGNS&LINES

CASE STUDY



Talk to the team at Signs & Lines today.

t: +618 9274 5151

m: +614 0719 9576

e: admin@signsandlines.com

Signs & Lines, 5 Meliador Way, Midvale, Perth WA 6056

www.signsandlines.com

SIGNS&LINES

CASE STUDY