The Well

Tap into water education

Visiting the Adelaide Desalination Plant

Thank you for booking a tour of the Adelaide Desalination Plant with SA Water. During this session, participants will go behind-the-scenes to explore the process of desalination.

SA Water

Government of South Australia

Location: 15 Chrysler Road, Lonsdale

Contact: thewell@sawater.com.au

Before your visit

- Arrange transport to and from the desalination plant.
- If needed, download our Visitor accessibility guide for the Adelaide Desalination Plant and Kauwi Centre for Water Exploration, designed to support and prepare those with accessibility requirements. Share this guide with any students or guests that might benefit.
- Advise the SA Water education team about any accessibility requirements.

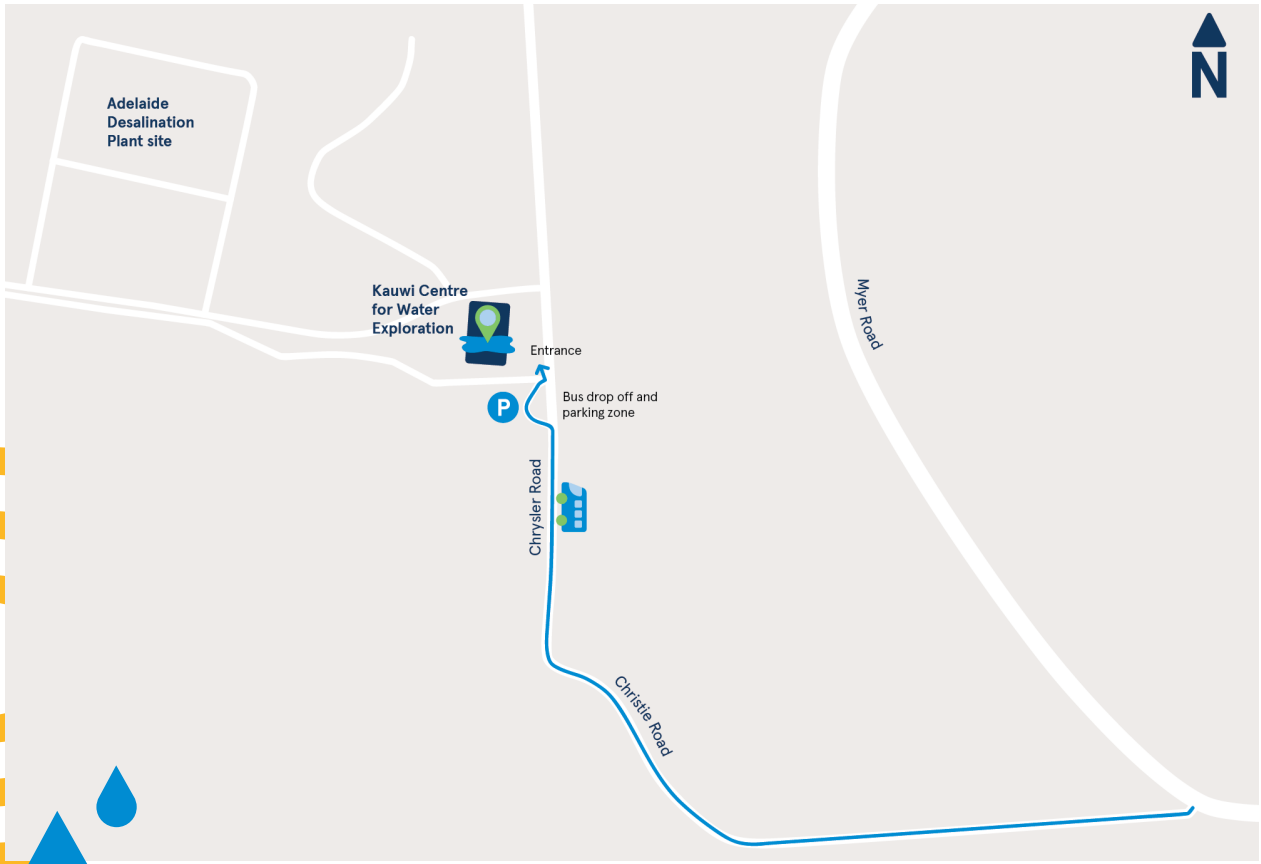
If after booking, your excursion is not approved by the school, please get in touch to cancel your booking as early as possible, so another group may have the opportunity to book.

Important safety information

- For safety reasons flat and enclosed footwear MUST be worn by all attendees.
- There is no smoking allowed on site.
- Children age 9 and under are not permitted on tour.
- Visitors unable to participate in the tour cannot remain behind in the Kauwi Centre.
- SA Water has a zero drug and alcohol policy. Random testing may occur at any time.
- The Desalination Plant is an active worksite with trucks and vehicles travelling on the service roads. It is not possible to enter the site by foot.

Transport and parking

- Bus drivers are required to come on tour and transport your group through the facility. Please make sure that this made clear to them prior to the day.
- Drivers will need to complete a brief safety induction on arrival. This takes about 10 minutes and requires them to read important safety information.
- SA Water offers reimbursement of bus hire up to 25% for regional and disadvantaged schools. This is subject to approval and is assessed on a case-by-case basis. For details, please contact us at thewell@sawater.com.au.
- See map below to show where buses can park.



At the Adelaide Desalination Plant

- Print copies of the Kauwi Centre worksheet, if you want students to complete this optional, additional activity. This worksheet is best for students in Years 4-6.
- Students are encouraged to ask questions and read information around the Kauwi Centre. You may like to ask students to:
  - Make note of interesting facts they have learned, or the steps for the desalination process.
  - Write down questions they think of during the tour for further research.
  - Complete an activity you have developed.

Risk Assessment

Sports, adventure, camps and excursions risk assessment for additional hazards		
Hazard identification (What is the issue of concern?)	**Risk Controls (What are you doing to eliminate or reduce the risk?)**	**Risk (With all controls in place)**
Trip and fall hazards	• Use handles to get on and off bus • Wide, flat paths with no stairs throughout site • Handrails available near Kauwi Centre entrance • Identify curbs and ledges in carpark	
Wildlife around the Kauwi garden and walking trail (e.g. snakes, insects)	• Walk on the wide, flat paths provided to avoid the scrub • Bring medication for any students with bee or insect allergies. Take first aid kit if following the walking trail	

	WHS Risk Assessment Matrix	Consequences				
		First aid Personal support or counselling	Medical or dental treatment	Hospital emergency department (out-patient)	Admitted to hospital (in-patient)	Death, permanent disabling injury
Likelihood	**Certain:** to occur at some stage	Medium	High	High	Extreme	Extreme
	Likely: to occur	Low	High	High	Extreme	Extreme
	Possible: could: reasonably occur	Low	Medium	Medium	High	Extreme
	Unlikely: to occur	Low	Low	Medium	High	Extreme
	Rare: Not expected to occur	Low	Low	Medium	Medium	Extreme

Investigate further

Explore online resources to extend student learning before and after your visit to the ADP. Below you'll find key questions for students to discuss, and resources that will help students learn the answers. Resources vary and may be appropriate for primary or secondary students.

Key questions	Resources
What is water security?	• UN Water definition and infographic. • The Department for Environment and Water page on water security and water security statement . • The world's water crisis lesson plan.
When was the millennium drought and what were the local impacts?	• Frequently asked questions about the millennium drought in South Australia. • Historical drought data from the Bureau of Meteorology • Students could interview a family member about what they remember from this period (including water restrictions).
How was drinking water sourced and disinfected in the past? How has this changed over time?	• Australia's first people have nurtured a deep understanding of water systems and places for many thousands of years. The five episodes of the Water Wisdom series share knowledge through the voices of Adnyamathanha, Ngarrindjeri, Boandik, Kaurna, and Barngarla people.
Why does our water need to be treated (filtered and disinfected)? What would happen without water treatment?	• View our Water Quality video series to learn how we use a multiple barrier approach to protect water quality and ensure we have access to safe, clean water. • Water access and sanitation for all is one of the UN Sustainable Development Goals
Where does our water come from at home and school?	• Look up Your drinking water profile to see your local water sources and what's in your water. Compare your water to another location to see how water sources impact
What is desalination?	• View our playlist of 9 short videos about the ADP, including an animation of the reverse osmosis process, and underwater footage of the marine environment around the outfall diffuser. • This animated video by Amoeba Sisters explains osmosis in simple terms
How can we demonstrate desalination in the classroom?	• Complete a classroom experiment that uses the water cycle to naturally desalinate a water sample, like this one.
What is being done to ensure water security for the future?	• SA Water's Resilient water futures project