

# The Well

Tap into water education

## Visiting Happy Valley Water Treatment Plant



Thank you for booking a tour of Happy Valley Water Treatment Plant with SA Water. Participants will go behind-the-scenes to explore the process of conventional water treatment.

Contact: [thewell@sawater.com.au](mailto:thewell@sawater.com.au)

Location: Happy Valley Water Treatment Plant, Chandlers Hill Road. (Follow directions to the Happy Valley Depot to reach the main gate)

### Before your visit

- Arrange transport to and from the site.
- Advise the SA Water education team about any accessibility requirements, so we can discuss whether this site is suitable for you.

If after booking, your excursion is not approved by the school and you need to cancel, please let us know as early as possible, so another group may have the opportunity to book.

### Important safety information

- All attendees **must** wear long pants, long sleeves, and flat enclosed shoes.
- Hi vis vests, hard hats and safety glasses will be provided.
- Please contact our education team prior to the tour if you have concerns about hard hats fitting over hair or hair coverings.
- All clothing/PPE mentioned above is essential to be able to take part in the tour.
- Children in Year 3 or below (or ages 8 and under) are not permitted on site.
- There is no smoking allowed on site.
- Tour groups are expected to behave safely and responsibly and may be asked to leave if safety is at risk.

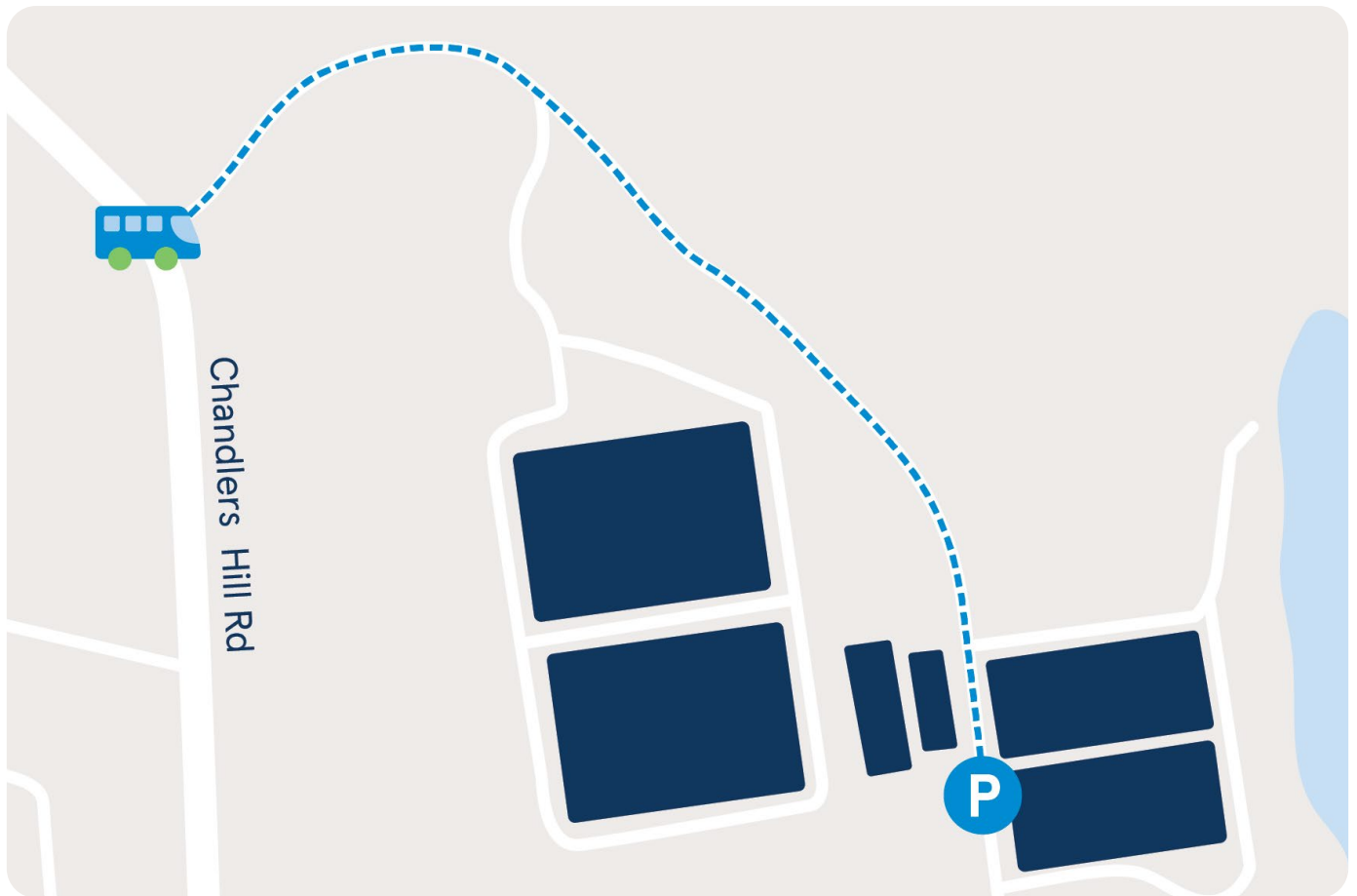
### Transport

- Happy Valley Water Treatment Plant is an active worksite with trucks and vehicles travelling on the service roads. It is not possible to enter the site by foot.
- Drivers may stay with the school vehicle for the duration of the tour or can leave and come back at the end. Drivers cannot walk around the site unaccompanied.
- 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 further details or to enquire, please contact us at [thewell@sawater.com.au](mailto:thewell@sawater.com.au).

### Access and parking

- Enter the main gate on Chandler's Hill Road.
- Approach first boom gate and press the button to request access from 'Treatment Plant Admin'. Be aware of wheel spikes and drive carefully.
- Drive forward and there will be a second gate that will open automatically.
- Continue to drive straight towards the admin area and carpark.
- Your guide will meet you in the carpark on arrival.
- When exiting, approach gates slowly and they will open automatically.
- Please exit the site at a timely manner at the end of the tour.





### Accessibility

- The site is large and visitors are required to walk and stand for the whole tour. There are also small steps and uneven ground. This site may not be suitable for people with mobility aids.
- The site is outdoors and there is no shade. Please wear warm clothing if needed. Long pants and sleeves are required regardless of the weather.
- Machinery and other works will create some background noise.

### Other info

- We encourage visitors to wear sunscreen and bring water on warm days.
- We will reschedule any tours scheduled on days predicted to be 35 degrees or hotter, and in the case of heavy wind or rain.
- Tours may be cancelled due to site works or if requested by the Plant operations team.

### Student activities

Students are encouraged to ask questions throughout the tour. You may like to ask students to:

- Make note of interesting facts they have learned, or the steps of the water treatment 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	<ul style="list-style-type: none"> <li>Use handles to get on and off school bus</li> <li>Advise guests to watch their step at the start of the tour</li> <li>Identify curbs and ledges in carpark</li> </ul>	
Exposure in an outdoor environment	<ul style="list-style-type: none"> <li>Bring water</li> <li>Wear sunscreen</li> <li>Wear warm clothes during cold weather</li> <li>Tours cancelled on extreme weather days</li> <li>Bring medication for any students with bee or insect allergies</li> </ul>	
Open water tanks	<ul style="list-style-type: none"> <li>Safety rails around all tanks. Do not get too close or lean across open water</li> <li>Watch where you walk</li> <li>No running or pushing</li> </ul>	
Working site with vehicles and machinery	<ul style="list-style-type: none"> <li>PPE must be worn while on site (long pants, long sleeves, flat closed shoes, hard hat, safety glasses, hi vis vest)</li> <li>Pay attention to activity in surrounding area (no headphones/ear buds)</li> <li>Walk on footpaths and avoid walking on roads</li> <li>Always stay together as a group and listen to your guide</li> <li>Guides have completed safety inductions</li> </ul>	

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
<b>Certain:</b> to occur at some stage	Medium	High	High	Extreme	Extreme
<b>Likely:</b> to occur	Low	High	High	Extreme	Extreme
<b>Possible:</b> could: reasonably occur	Low	Medium	Medium	High	Extreme
<b>Unlikely:</b> to occur	Low	Low	Medium	High	Extreme
<b>Rare:</b> 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 Happy Valley Water Treatment Plant.

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
<b>What are the steps of the water treatment process?</b>	<ul style="list-style-type: none"><li>• <a href="#">Water treatment fact sheet</a>.</li><li>• View our <a href="#">Water Quality</a> video series to learn how we use a multiple barrier approach to protect water quality and ensure we have access to safe, clean water.</li></ul>
<b>Why does our water need to be treated (filtered and disinfected)?</b>	<ul style="list-style-type: none"><li>• Water treatment methods are determined by the water source. Read about some of the different methods <a href="#">here</a>.</li><li>• <a href="#">Water access and sanitation for all</a> is one of the UN Sustainable Development Goals.</li></ul>
<b>What are our water sources in South Australia?</b>	<ul style="list-style-type: none"><li>• We have 16 reservoirs to store fresh rainwater. View up to date <a href="#">reservoir data here</a>.</li><li>• The Murray River supplies over 50% of the state's drinking water. View <a href="#">daily flow rates</a>, maps and data here.</li><li>• Some of Adelaide's water comes from the ocean. Read about the <a href="#">Adelaide Desalination Plant</a> and the monthly production rates here.</li><li>• The driest parts of our state rely on <a href="#">groundwater</a>. Sometimes, this water is treated using desalination technology too.</li></ul>
<b>Where does our water come from at home and school?</b>	<ul style="list-style-type: none"><li>• Look up your <a href="#">drinking water profile</a> to see your local water sources and what's in your water. Compare your water to other locations in South Australia.</li></ul>
<b>How does desalination work?</b>	<ul style="list-style-type: none"><li>• Desalination is a different type of water treatment that removes salt and other minerals from water.</li><li>• Explore our <a href="#">virtual tour</a> of the Adelaide Desalination Plant</li><li>• View our <a href="#">playlist of 9 short videos</a> about the Adelaide Desalination Plant, including an animation of the reverse osmosis process.</li><li>• Take the Project Desalination challenge and build your own desalination plant. You'll need to learn about each step in the desalination process to be able to build your own plant, and to get the tick of approval from our water quality scientists.</li></ul>
<b>How can I learn more about Happy Valley reservoir?</b>	<ul style="list-style-type: none"><li>• View maps with walking trails, and information about activities and facilities on our <a href="#">website</a>.</li><li>• View <a href="#">historic photos</a> of the Happy Valley reservoir construction</li></ul>
<b>How can I learn more about Aboriginal and Torres Strait Islander perspectives on water management?</b>	<ul style="list-style-type: none"><li>• Aboriginal and Torres Strait Islander people have nurtured a deep understanding of land and water systems for many thousands of years. The five episodes of our <a href="#">Water Wisdom series</a> share knowledge through the voices of Adnyamathanha, Ngarrindjeri, Boandik, Kurna, and Barngarla people.</li><li>• Download the <a href="#">Water Wisdom workbook</a> to complete alongside the video series.</li></ul>