

PLANNING YOUR WATER FUTURE



WATER FOR A GROWING REDLANDS (MAINLAND)

We're planning for your water future.
Because we can't always count on the rain.

The plan might look different depending on where you live in South East Queensland. In this brochure, we talk about water supply to Redlands communities on the mainland. Water supply to the Moreton Bay Islands and Stradbroke Island communities deserves a brochure all of its own!

We might have differences but we are one region, and Seqwater is planning for a reliable and sustainable water supply for all South East Queenslanders.



REDLANDS CITY WATER

Redland City's drinking water is provided from a number of dams in the region and from an aquifer on North Stradbroke Island.

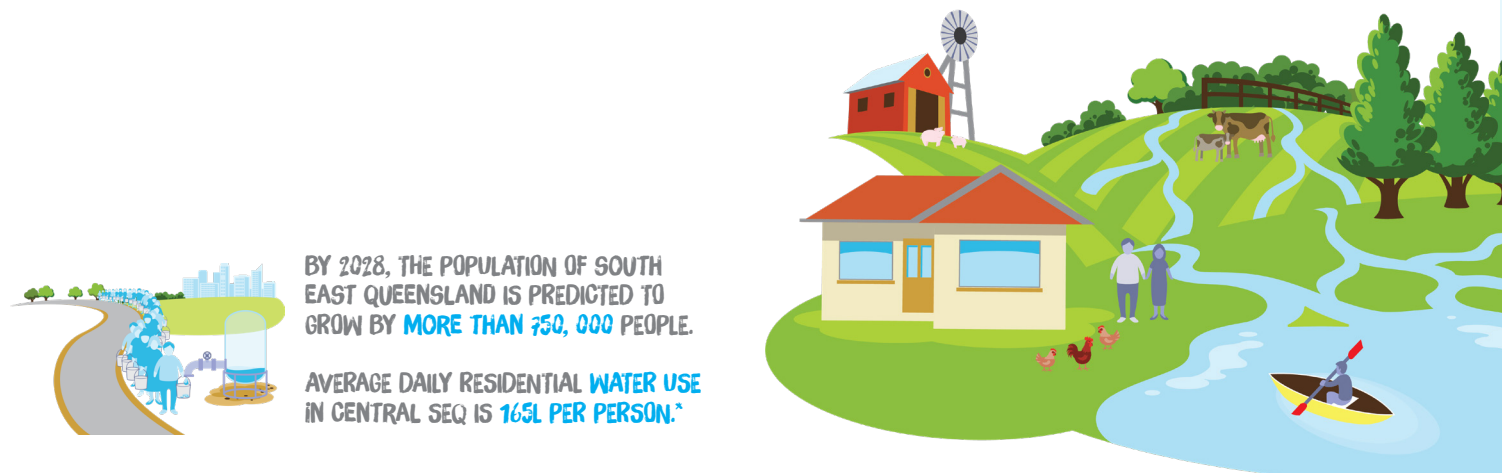
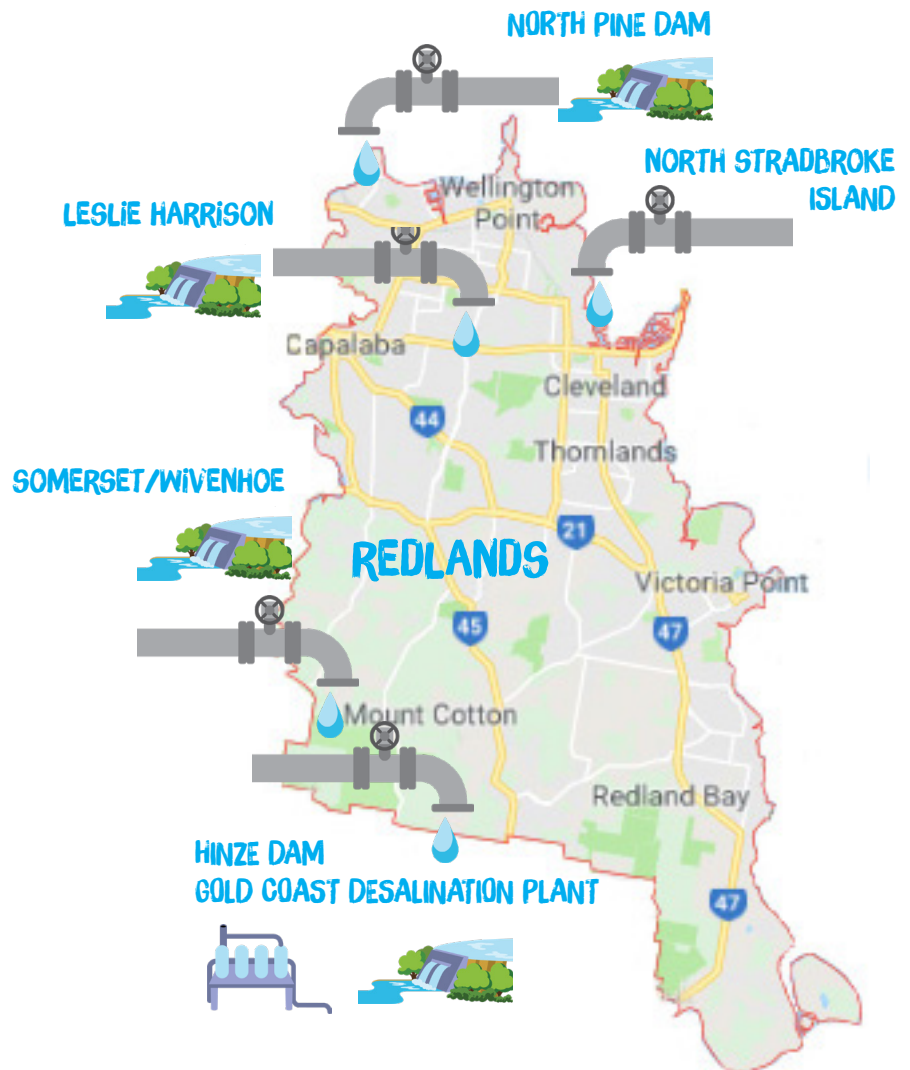
About 27% of drinking water is supplied via the Eastern Pipeline Interconnector, as part of the SEQ Water Grid. Residents could receive water from Somerset, Wivenhoe, North Pine or Hinze Dams, the Gold Coast Desalination Plant or the Western Corridor Recycled Water Scheme.

About 19% of drinking water comes from Leslie Harrison Dam and is treated at the Capalaba Water Treatment Plant. The rest is supplied from North Stradbroke Island.

The SEQ Water Grid is our connected network of bulk water supply pipelines that stretch more than 600 kilometres to enable treated drinking water to be moved around the region.

Redland City is in the fortunate position that it has access to climate-resilient sources of water including desalination and recycled water from our advanced water treatment plants.

While Seqwater can meet demand for the current population, we'll need to provide an extra 200,000 megalitres of water in the next 30 years.

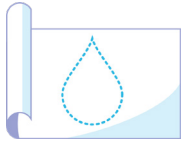


BY 2028, THE POPULATION OF SOUTH EAST QUEENSLAND IS PREDICTED TO GROW BY **MORE THAN 750,000 PEOPLE.**

AVERAGE DAILY RESIDENTIAL WATER USE IN CENTRAL SEQ IS **165L PER PERSON.***

**average daily residential use between 10 March 2017 and 9 March 2018*

WATER IN THE FUTURE



OUR PLAN

The Water Security Program is Seqwater's plan to provide South East Queensland with drinking water over the next 30 years. This includes planning for droughts.



POPULATION AND WATER USAGE IS GROWING

Currently South East Queensland uses around 300,000 million litres a year. By 2046, with our increasing population, the forecast medium demand is around 525,000 million litres a year. With all SEQ Water Grid assets available and operating (including the Western Corridor Recycled Water Scheme), our region's bulk water system can supply about 440,000 million litres a year.



NEW WATER SOURCES NEEDED

The next new source is expected to be needed on the Sunshine Coast before 2040. This new source could also assist Redlands in a severe drought. The Gold Coast Desalination Plant and the purified recycled water treatment plants of the Western Corridor Recycled Water Scheme play a critical role in the way we plan to manage South East Queensland's water supply during drought. A very severe drought could bring forward new water sources in the Redlands region.

WHAT WE'RE DOING NOW



LESLIE HARRISON DAM UPGRADE

The upgrade of Leslie Harrison Dam, at an estimated cost of about \$24 million, involved strengthening its main embankment and spillway to better withstand earthquakes and floods.

In 2014, the water level was lowered and the spillway gates were removed for the ongoing safety of the dam. The decision to keep Leslie Harrison Dam at its current full supply level permanently will have minimal impact to the region's water security.

We investigated a number of options to understand whether we could safely restore the original full supply level and reinstate the spillway gates at the dam.

We found not only would there be minimal benefit to the security of the region's drinking water supply, but we would need to spend about \$42 million in total to address all the safety issues reinstating the gates present.

Recreation

We get lots of questions about recreation at Leslie Harrison. We will not introduce recreation at the dam due to unacceptable risks to drinking water quality. Our decisions on whether to allow recreation and what types at each dam are based on a scientific assessment of water quality risks, which differ from dam to dam. We need to make sure pathogens that could make humans sick – like E.coli and giardia – don't end up in your drinking water.

Some of the features that make Leslie Harrison different to dams where recreation is allowed include its relatively small size, the direct water intake from the dam to the water treatment plant and the built-up urban environment upstream of the dam. The Capalaba Water Treatment Plant already has a 2-stage disinfection process (UV and Chlorine) so there is very little scope to upgrade if recreation introduced more pathogens.

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WATER WISE TIPS

Water is a precious resource and South East Queenslanders are encouraged to be water efficient all the time.

Water outside before 8am and after 4pm

If you water in the heat of the day, you can lose up to 50% of the water to evaporation.

Check for leaks

You can lose thousands of litres of water a day without even knowing it due to underground leaks. Use your water meter to check for leaks at home and in your irrigation system.

Use a good mulch

A good mulch will help your plants retain water through the scorching summer days and reduce weeds that compete for water.

Use your pool cover

Pool covers reduce evaporation by about 90%.

Check how much water you use

Do you really know how much water you use? Use a water audit tool to calculate what appliances are your water guzzlers, where you're using a lot of water and opportunities to make savings. There is one on the Seqwater website [seqwater.com.au](https://yourseqwater.com.au)

Turn off the tap

Half filling the sink instead of leaving the tap running to wash fruit and vegetables, turning off the tap when brushing your teeth and taking shorter showers are all simple ways you can save water inside your home.



DROUGHT RESPONSE PLAN

We have introduced a drought readiness phase to better prepare the region for the prospect of drought. Drought response actions are linked to the combined volumes of our region's water storages.



Drought readiness messaging begins when storage levels reach 70%. Voluntary water conservation will commence at 60% as will full production at the desalination plant. We'll also begin restarting our purified recycled water treatment plants. Mandatory water restrictions will commence at 50%

FOR MORE INFORMATION

More information is available at our Realities of Rain hub at

<https://yourseqwater.com.au/realities-of-rain>

You can also subscribe to our email newsletter to stay up to date with news and events.

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