

# NORTH SHORE MATTERS



Project manager Ken Lukar at the site of the new pump station on Fred Thomas Drive.

## Major investment for the North Shore

**As the North Shore's population grows, it is important we continue to provide reliable, safe and efficient water and wastewater services.**

Over the next 30 years, the population of the North Shore is expected to increase by 55,000, which is equivalent to the population of Whangarei. To accommodate this growth, we work with Auckland Council to align investment in infrastructure with planned growth according to the Auckland Council Unitary Plan.

We're investing more than \$350 million over the next 10 years to upgrade and expand the water supply infrastructure on the North Shore. Our projects have been planned and sequenced to ensure the water network continues to have sufficient capacity to meet demand and provide resilience during system outages. The work includes the \$330 million North Harbour No. 2 Watermain project. This 33-kilometre-long water pipe will connect existing water networks in Auckland's western suburbs with those on the North Shore and the Albany Reservoir, and will supply enough water to meet long-term demands in the western and northern parts of Auckland, ensuring security of supply.

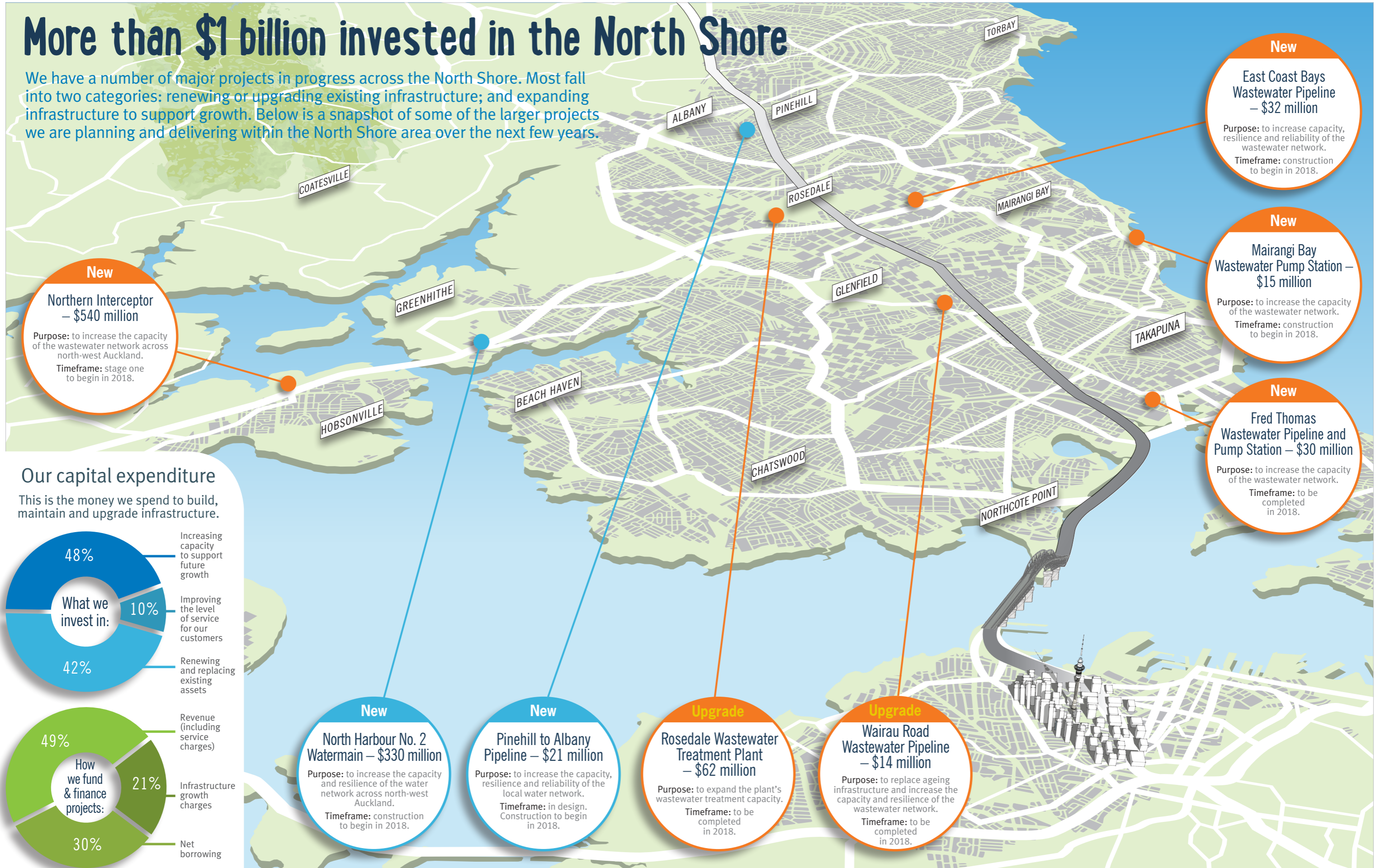
Water storage reservoirs are also an important feature of our water network. They allow us to store treated drinking water to reduce disruption within water supply zones. We're investing \$21 million to connect the Pinehill and Albany reservoirs, which will further improve security of the water supply in the North Shore and service increasing demand for water.

We're also investing almost \$700 million in the wastewater network, including a \$30 million underground wastewater storage tank at Fred Thomas Drive. This will be able to hold 3.5 million litres of wastewater – which is approximately equivalent to the amount of water in two Olympic-sized swimming pools. This extra storage will increase the capacity of the wastewater network and help to reduce wet-weather overflows of diluted wastewater into the harbour.

For more information about our projects, visit [www.watercare.co.nz](http://www.watercare.co.nz) and click on 'work in your area'.

# More than \$1 billion invested in the North Shore

We have a number of major projects in progress across the North Shore. Most fall into two categories: renewing or upgrading existing infrastructure; and expanding infrastructure to support growth. Below is a snapshot of some of the larger projects we are planning and delivering within the North Shore area over the next few years.



**New**

**Northern Interceptor – \$540 million**

Purpose: to increase the capacity of the wastewater network across north-west Auckland.

Timeframe: stage one to begin in 2018.

**New**

**East Coast Bays Wastewater Pipeline – \$32 million**

Purpose: to increase capacity, resilience and reliability of the wastewater network.

Timeframe: construction to begin in 2018.

**New**

**Mairangi Bay Wastewater Pump Station – \$15 million**

Purpose: to increase the capacity of the wastewater network.

Timeframe: construction to begin in 2018.

**New**

**Fred Thomas Wastewater Pipeline and Pump Station – \$30 million**

Purpose: to increase the capacity of the wastewater network.

Timeframe: to be completed in 2018.

**New**

**North Harbour No. 2 Watermain – \$330 million**

Purpose: to increase the capacity and resilience of the water network across north-west Auckland.

Timeframe: construction to begin in 2018.

**New**

**Pinehill to Albany Pipeline – \$21 million**

Purpose: to increase the capacity, resilience and reliability of the local water network.

Timeframe: in design. Construction to begin in 2018.

**Upgrade**

**Rosedale Wastewater Treatment Plant – \$62 million**

Purpose: to expand the plant's wastewater treatment capacity.

Timeframe: to be completed in 2018.

**Upgrade**

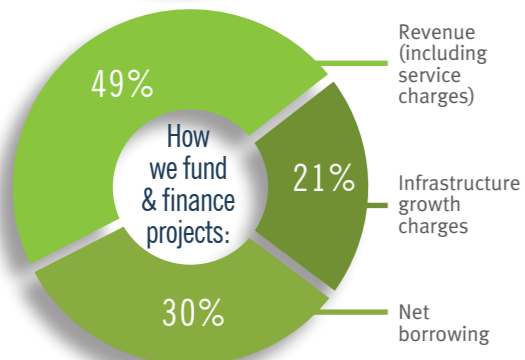
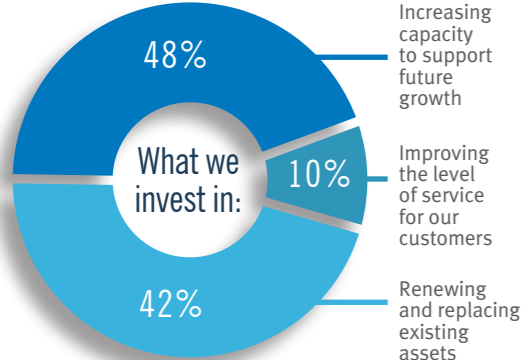
**Wairau Road Wastewater Pipeline – \$14 million**

Purpose: to replace ageing infrastructure and increase the capacity and resilience of the wastewater network.

Timeframe: to be completed in 2018.

## Our capital expenditure

This is the money we spend to build, maintain and upgrade infrastructure.



# Meet some of the people who work on your wastewater network



Treating wastewater is a satisfying challenge for Glenys Rule, the operations controller at the Rosedale Wastewater Treatment Plant. In fact, she reckons treating wastewater is “a bit like making beer”.

“We use a combination of mechanical, chemical and biological processes. In the biological process, you get to make the bacteria do what you want them to do, and it’s quite a challenge – bugs are a bit unpredictable – so there’s a lot of satisfaction in getting it right. When I explain this process to my friends, I tell them it’s kind of like making beer.”

Each day, the Rosedale Wastewater Treatment Plant receives raw wastewater from around 220,000 people and treats it in a series of different processes to ensure it is safe to be returned to the environment. As operations controller, Glenys is responsible for the plant’s day-to-day processes and manages a team of 11 plant operators. Together, they keep the plant running smoothly.

“It’s a rewarding job,” she says. “You see (and smell) the raw sewage coming in and then you see the really clean, treated wastewater that goes out – and that’s so gratifying.”



As operations controller for the northern transmissions team, Sifa Pole is responsible for 430 kilometres of trunk sewers, which are the large pipes that transport wastewater from the local wastewater network to the Rosedale Wastewater Treatment Plant, as well as for 66 wastewater pump stations around the North Shore.

In addition to managing the maintenance projects for the big pipes, Sifa also responds to operational issues affecting the wastewater network.

“I enjoy finding the best-possible solutions to problems and making sure we have the resources to resolve them. It’s really satisfying to see the end result and know that we’re providing a reliable service.”

Sifa gained his Bachelor of Engineering (Honours) degree in Civil Engineering from the University of Auckland. He worked as a graduate in structural engineering for six months, then spent two years working on the Waterview Tunnel Project before coming to Watercare.

“I’ve now been here for three years and I’ve done some really interesting things. I recently walked through one of Auckland’s oldest sewers, the Orakei Main Sewer. It’s around 100 years old and the sections I walked through were more than two metres high!”



We create biogas at the Rosedale Wastewater Treatment Plant which provides up to 80% of its energy requirements.

In the recent Water Services Association of Australia energy benchmarking survey, Rosedale was named in the top 5 most energy-efficient plants in Australasia.

Did you know?

Around **85%** of overflows during dry weather are caused by people pouring fat down the sink, flushing rubbish down the toilet, and planting trees next to pipes in your area.

You can help to reduce these overflows.

Remember – only human waste and toilet paper should be flushed down the toilet. Everything else – including things such as wipes, sanitary products, dental floss and nappies, and fat, oil and grease from cooking – should be put in the bin.



## CONTACT US

North Shore Matters is your newsletter.

If you would like to talk to us about any stories from this edition or your ideas for future issues, we’d love to hear from you.

To get in touch, please phone our communications team on (09) 442 2222 or email [info@water.co.nz](mailto:info@water.co.nz).