

February 2021



Our Taki



He wai, he wai He wai herenga tāngata He wai herenga whenua He wairua He waiora It is water, it is water Water that join us Water that necessitates the land Soul of life Life forever

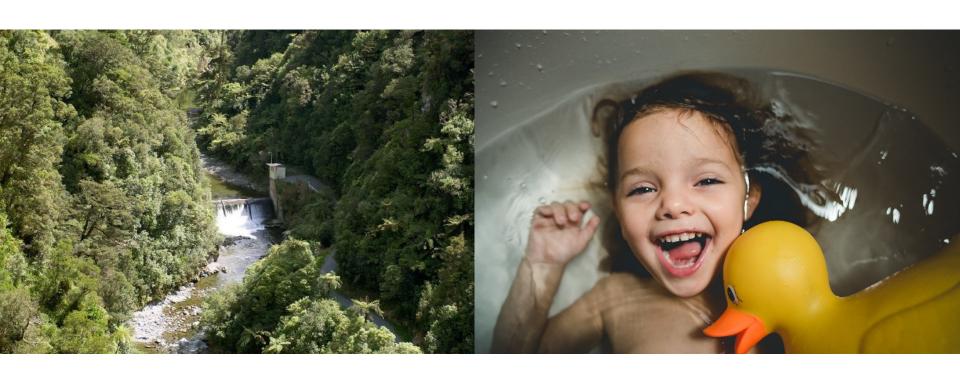
Today's agenda



- Our water supply system, from catchment-to-tap
 - long-term challenges and investment requirements
- Summer demand risk and how we are managing it
- Questions and discussion

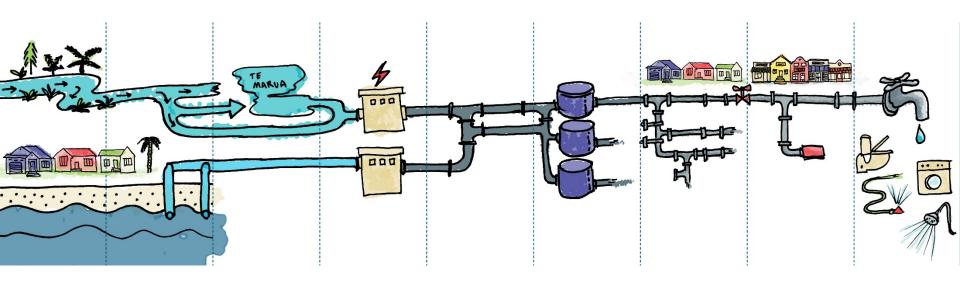
Our water, our future





Water - from catchment-to-tap

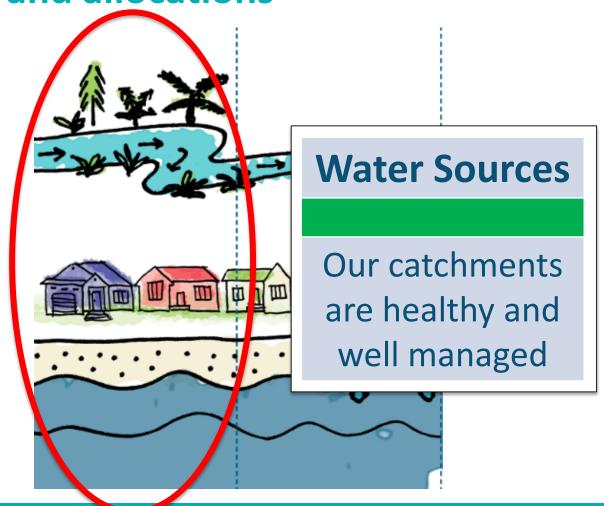




Access to water



sources and allocations



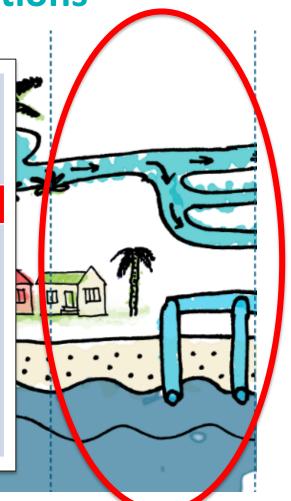
Access to water

sources and allocations



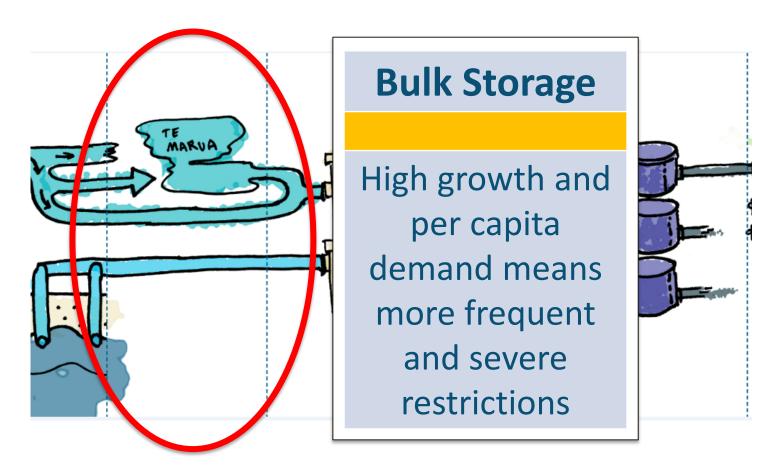
Available volumes

Te Awa Kairangi is over-allocated Future water takes will have more restrictions



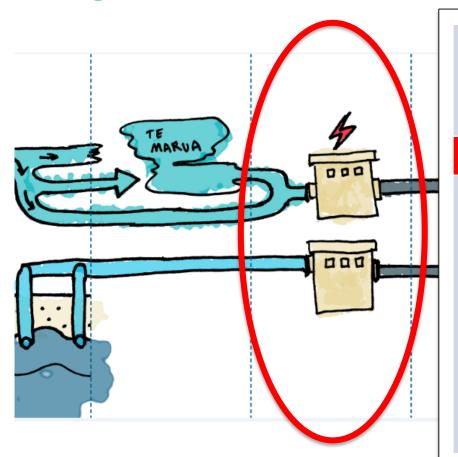
Wellington Water

storage, treatment and transport





storage, treatment and transport

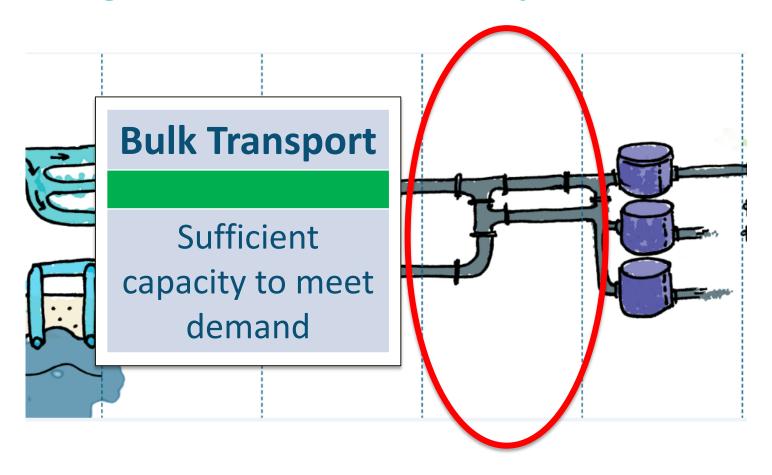


Water Treatment

Drought resilience standard not met High demand puts pressure on ability to meet peak demand

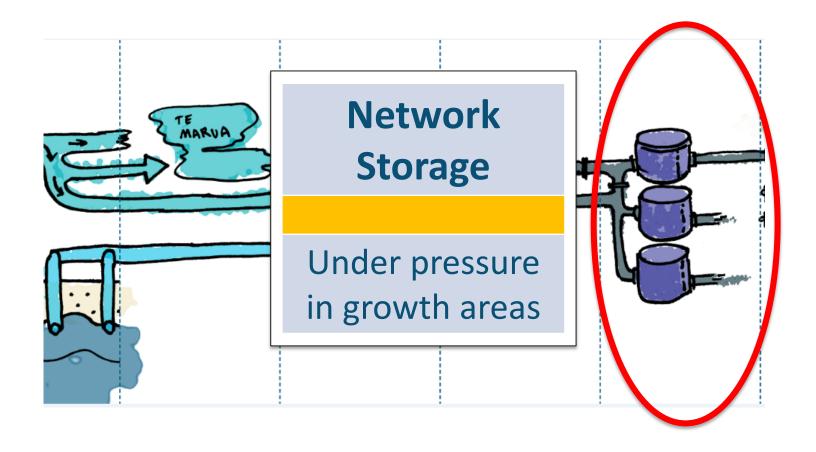
Wellington Water

storage, treatment and transport



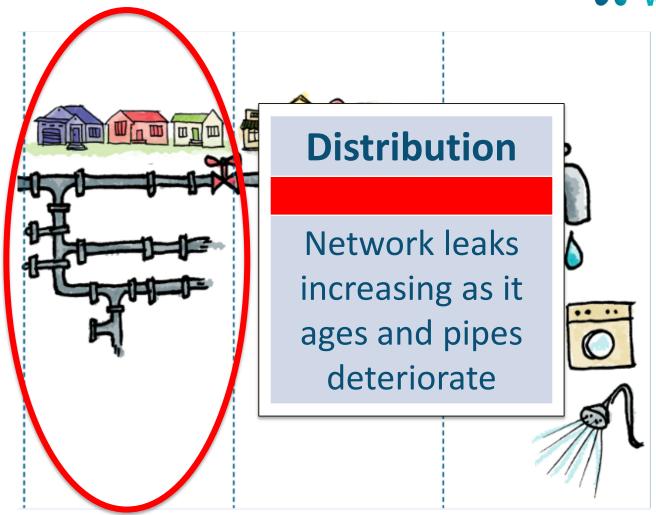


storage, treatment and transport



Distribution and use



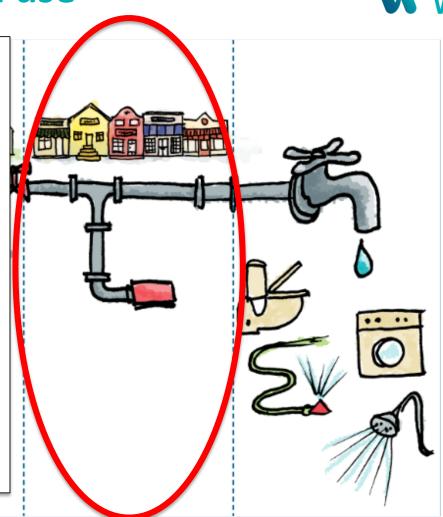


Distribution and use



Private Network

Customer leaks
~20% of total
demand but we
have limited
ability to detect
them



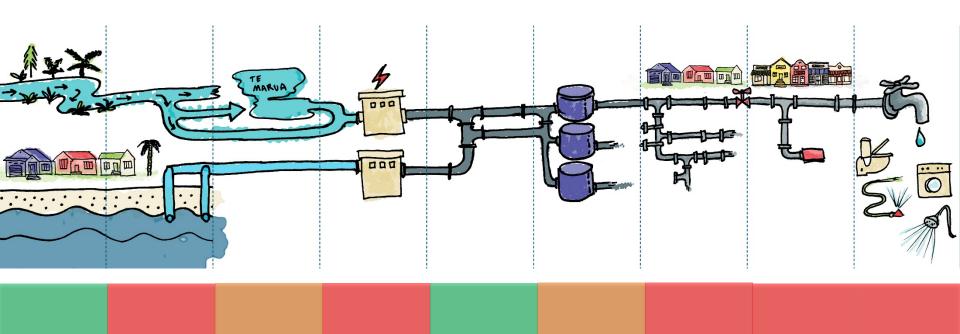
Distribution and use





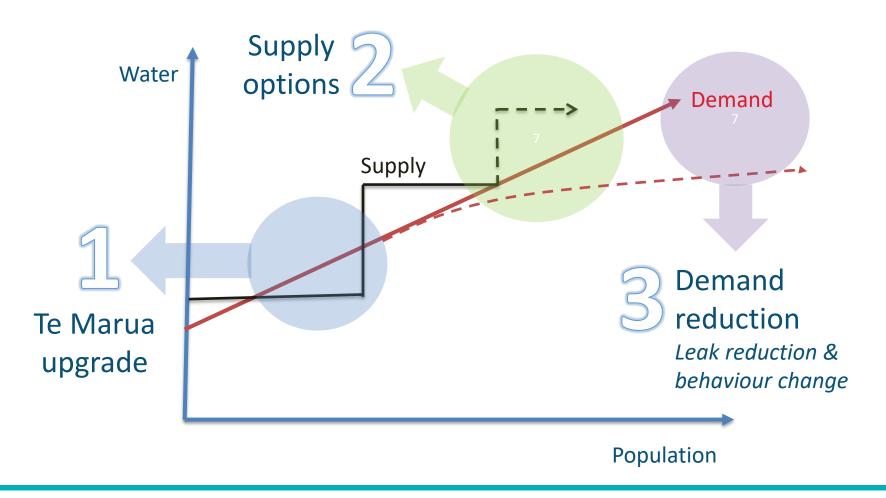
Water - from catchment-to-tap





3 elements to a sustainable, affordable water supply







Our ability to deliver Safe and Healthy Water



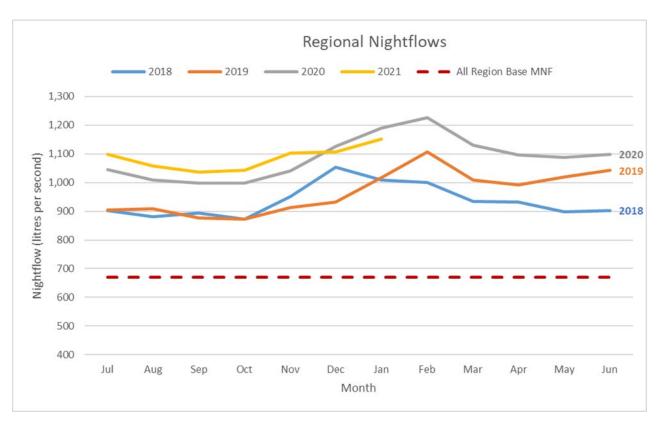
Water supply shortfall risk is caused by:



- i) Short period (several weeks) of hot/dry weather where peak demand approaches or exceeds the treatment capacity.
- ii) Extended drought (2-3 months) where river and aquifer sources recede, and water storage in the Macaskill Lakes is drawn down.
- iii) Unexpected network outage such as source contamination, critical asset failure, catchment fire, etc.

Short term risk update



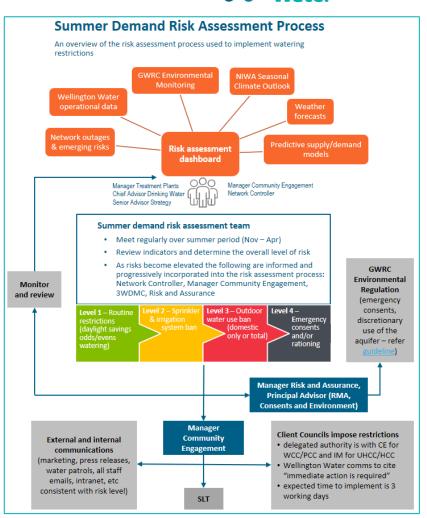


We have an increased risk of short term water shortage over summer due to predicted demand approaching treatment capacity.

How do we manage the risk?

Wellington Water

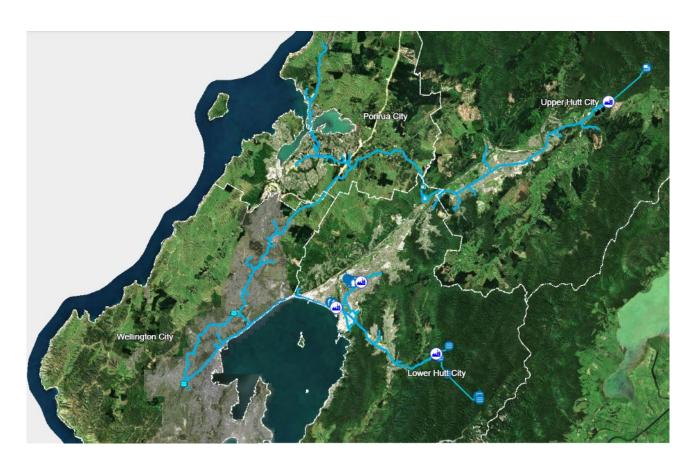
- Proactive risk management and contingency planning
- Targeted risk assessment team
- Technical tools and resources
- Council and community engagement



Current situation



So far this summer we have not had a period of hot/dry weather sufficient to cause concern, but this could change over a short period (around 2 weeks).



Looking ahead





Increased chance of watering restrictions during summer until the Te Marua WTP optimisation upgrade is completed.

Summary and questions



