



# ASSET MANAGEMENT PLAN 2024 – 2034

## ASSET INFORMATION

### WATER

- 71km of Water Supply Pipes
- 2 Water Treatment Plants
- 1 Water Pump Station

### WASTEWATER

- 48km of Wastewater pipes
- 1 Wastewater Treatment Plant
- 17 Wastewater Pump Stations

### STORMWATER

- 34km of Stormwater Pipes
- 535 Stormwater Sumps
- No Stormwater Pump Stations

## RISKS AND ISSUES

### WATER

- Assets at the end of service life
- Regulatory changes
- Water losses from the network
- Hazardous pipe materials
- Population Growth

### WASTEWATER

- Assets at the end of service life
- Inflow and Infiltration
- Regulatory changes
- Population Growth

### STORMWATER

- Resilience against flooding and extreme weather events (Climate Change).
- Increasing Urbanisation of pervious catchments
- Regulatory changes

## PRIORITY PROJECTS

### WATER

- Network Renewals
- Backflow Prevention Upgrade
- Kaipatangata Surface take consent renewal
- Nitrate-Nitrogen Management
- Seismic Resilience Upgrades on Critical Assets

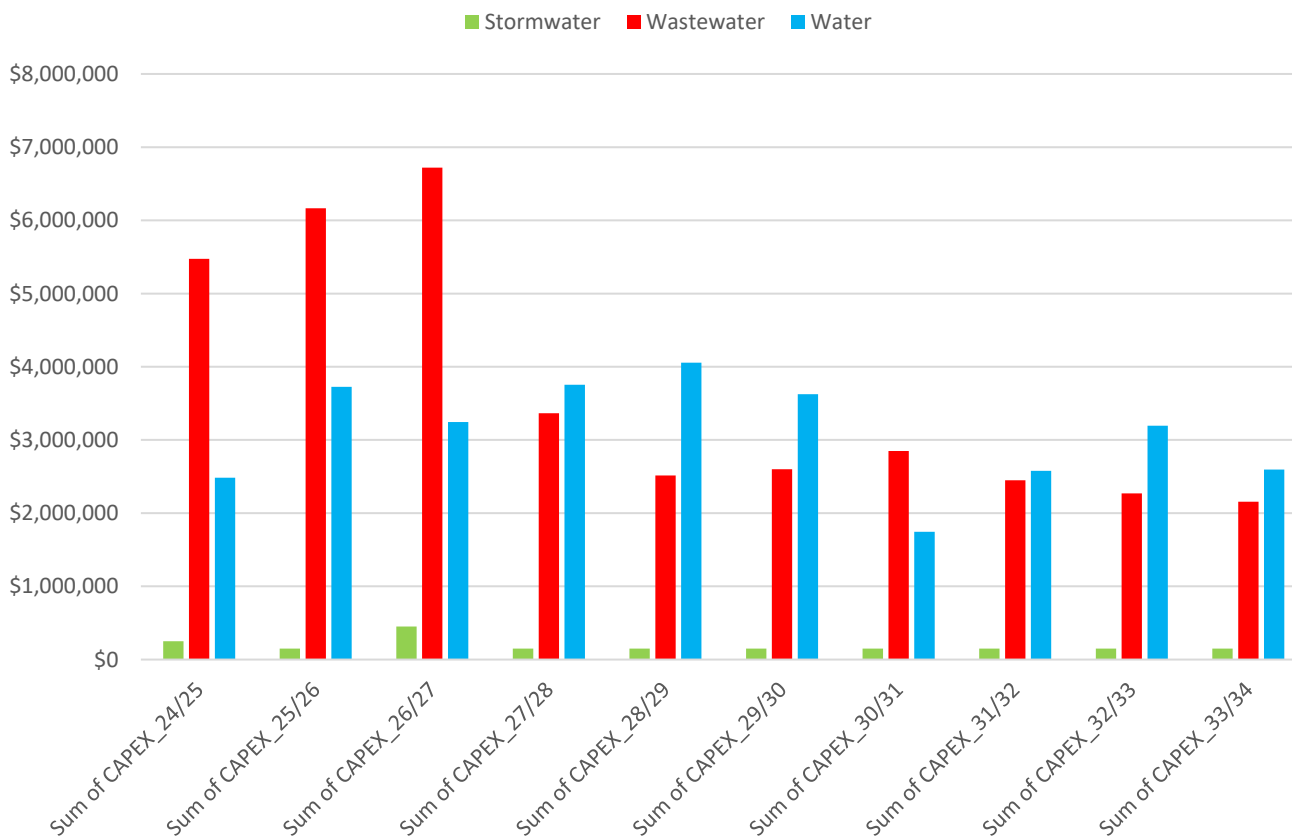
### WASTEWATER

- Network Renewals
- Treatment Plant Headworks Upgrade
- Desludging of Oxidation Ponds

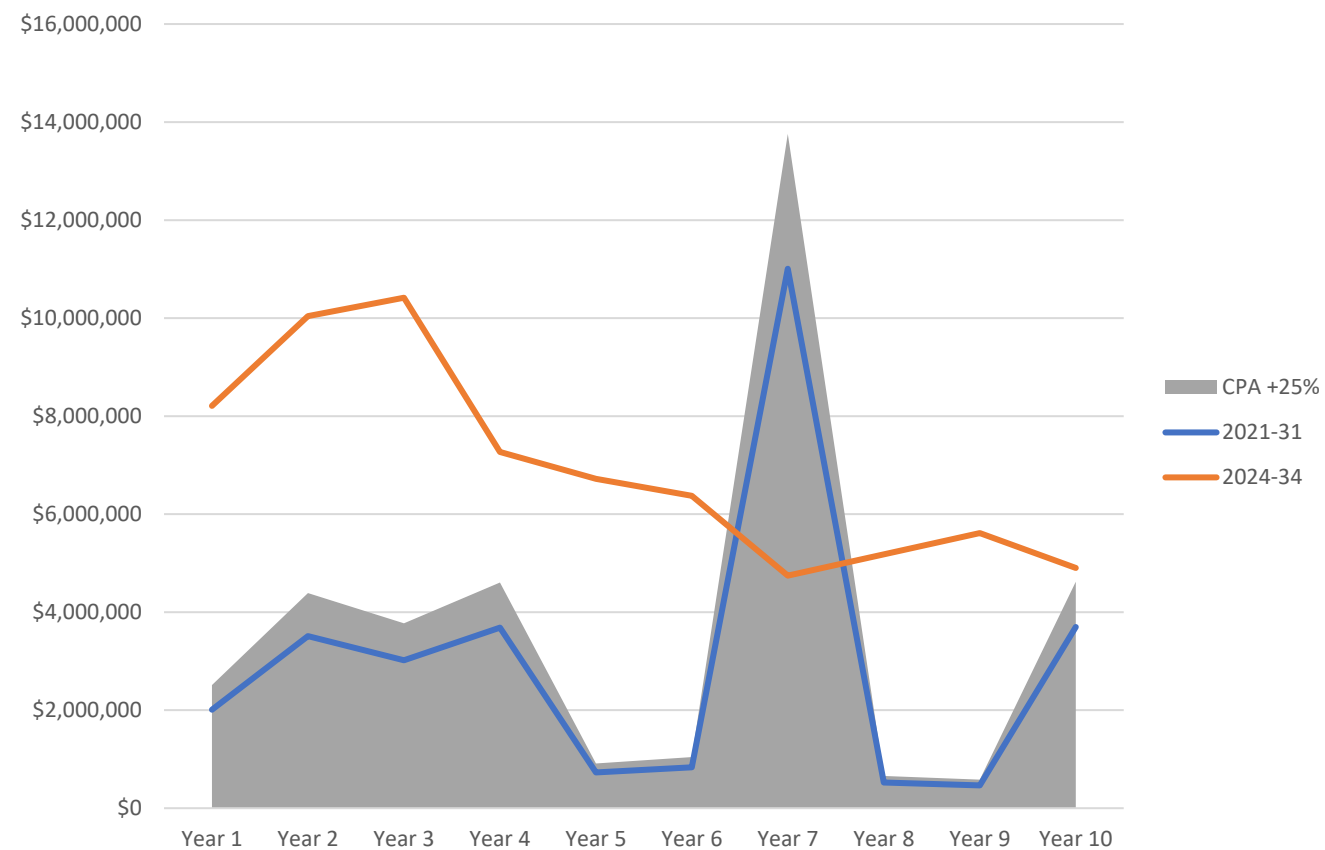
### STORMWATER

- Network Renewals and Upgrades
- Discharge Resource Consent

Long Term Plan 2024-2034 - Capital Expenditure by Service Type



Capital Expenditure – Previous LTP v/s Proposed

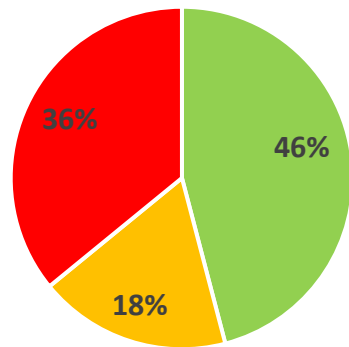




# ASSET MANAGEMENT PLAN 2024 – 2034

## Water

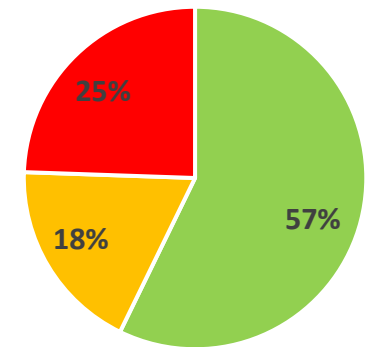
■ Good ■ Average ■ Poor



- **\$31M** Capital Investment 2024-2034
- **7.5 km** of planned renewals
- **11%** reduction in assets rated Poor

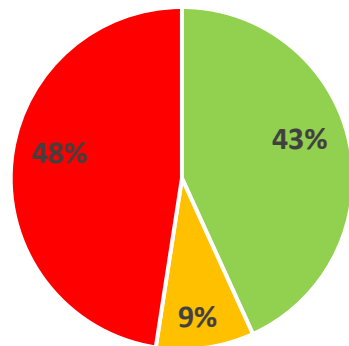


■ Good ■ Average ■ Poor



## Wastewater

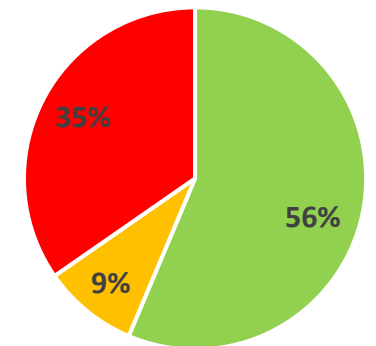
■ Good ■ Average ■ Poor



- **\$37M** Capital Investment 2024-2034
- **9 km** of planned network renewals
- **13%** reduction in assets rated Poor



■ Good ■ Average ■ Poor



# Overview of South Wairarapa District Council's Three Waters Renewals

## Handout for Activity 1: Getting the renewal level right (Workshop 21 September 2023)

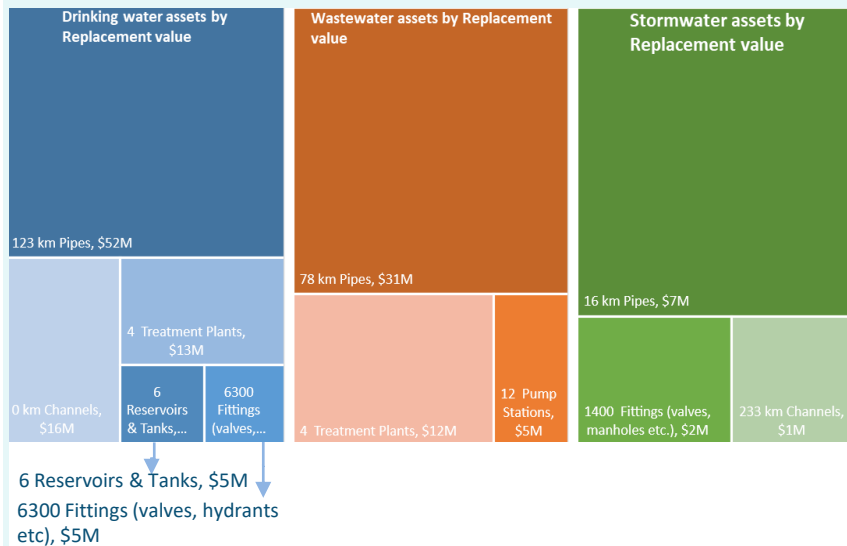
### VALUE OF SOUTH WAIRARAPA'S THREE WATERS ASSETS

Optimised Replacement Value of SWDC's three waters assets\*:

Drinking Water	\$90M
Wastewater	\$48M
Stormwater	\$11M

**TOTAL Three Waters \$148M**

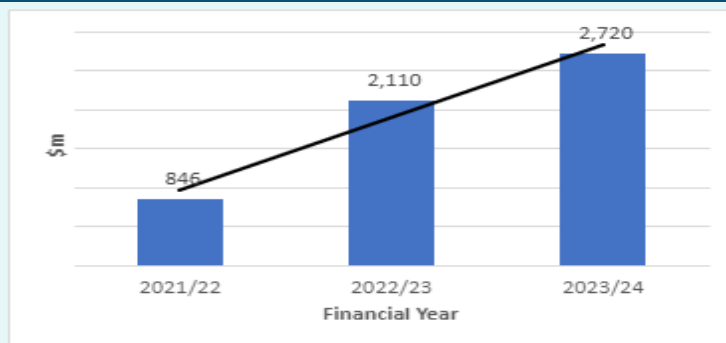
\*Optimised Replacement Value reflects the current and most economic cost of replacing an asset that provides a similar level of capacity and/or service.



Figures based on:

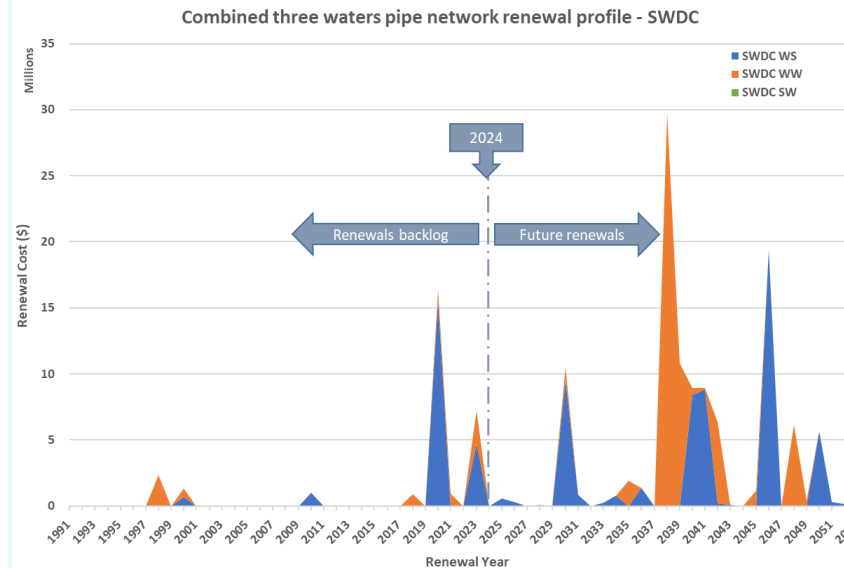
- March 2023 Asset quantities
- SWDC 2022 Valuation update (WSP)

### YEAR-ON-YEAR RENEWALS INVESTMENT



### BACKLOG OF RENEWALS

#### Pipes



Total length of SWDC's pipe assets	209Km
% Critical	26%
% Non-critical	74%
Length needing replacement within the next 30 years (excl. laterals)	77.2km (37%) (~\$147M)
Average replacement length needed per year (excl. laterals)	2.6km (~\$5.046M)

#### Pump Stations (all waters)

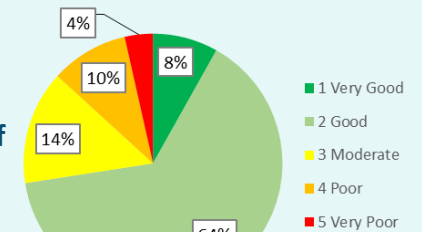
Renewals Backlog	\$1.08M
Renewals required within the next 30 years (incl. backlog)	\$2.453M

### CONDITION

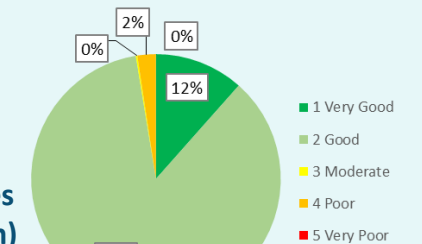
100% of SWDC's three waters pipe network has had a criticality assigned and condition assessed either via physical or desktop assessment.

#### Critical Assets

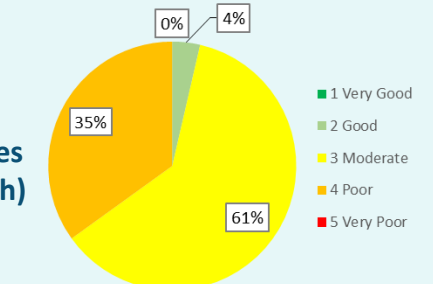
Critical drinking water pipes (% of total length)



Critical wastewater pipes (% of total length)

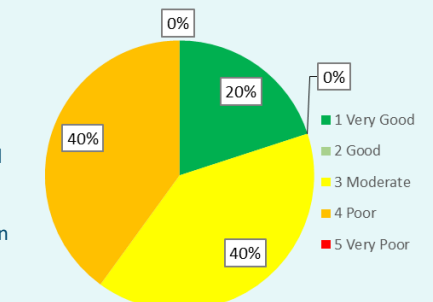


Critical stormwater pipes (% of total length)



Reservoirs (5)

Note, reservoirs based on structural assessment and excludes contamination risks





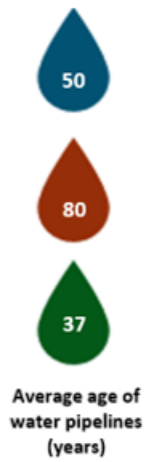


### Three Waters: Water, Wastewater & Stormwater



Combined replacement value as @ 30 June 2023 **\$284M**

Area	4,365 Km <sup>2</sup>
Population	19,050
Residential Properties	8,117
Residential water connections	5,085
Non-residential connections	635
Greenhouse Emission Targets	No target

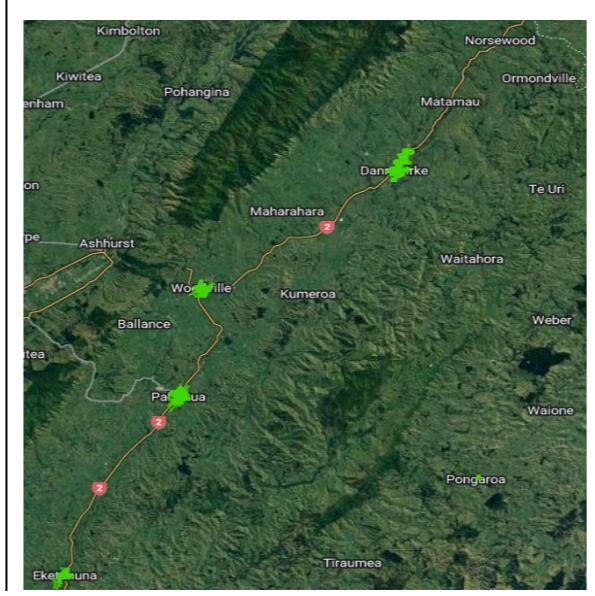
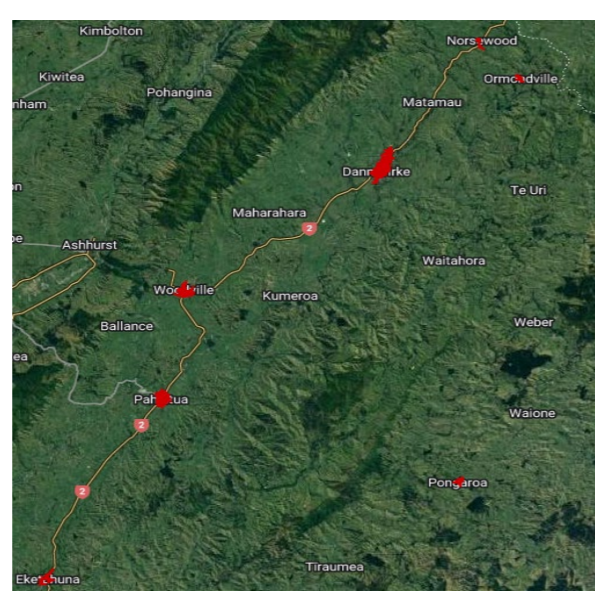
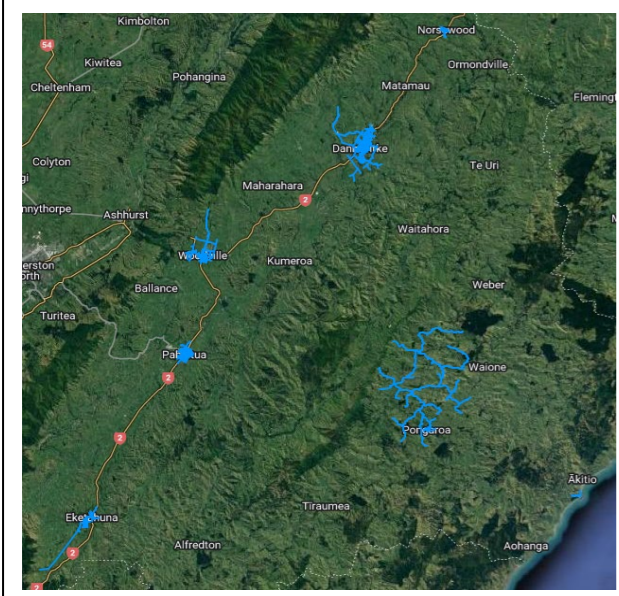
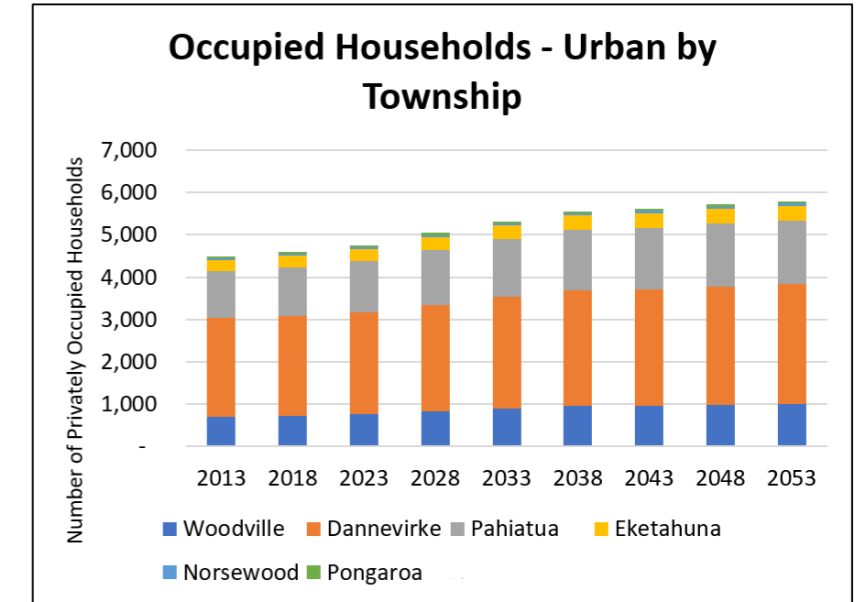


Overall data confidence and reliability rating: **Medium to high** : Council has an overall average data confidence score of **71.7/100** (100 is excellent).

Water Supply: <b>Seven</b> treatment plants	Wastewater System: <b>Seven</b> treatment sites	Stormwater System: <b>Four</b> town systems
Water treatment varies between schemes, including:  Chlorine, multimedia, microfiltration, ultraviolet, and combinations of these, comprising:  <ul style="list-style-type: none"> <li>267 kilometres of water supply pipelines</li> <li>47 kilometres of laterals</li> <li>8 water intakes including 2 bores</li> <li>.14 reservoirs, 1 pump station</li> </ul>	Wastewater is treated including:  Screening, removal of dissolved solids, ponds and aeration, microfiltration, and ultraviolet. It is then discharged to land and/or waterways, ultimately discharging to the ocean, comprising:  <ul style="list-style-type: none"> <li>95 kilometres of wastewater pipeline</li> <li>1,100 maintenance chambers</li> <li>21 sewer pump stations</li> </ul>	The stormwater network including:  An urban network of pipes and open channel drains operate to safely direct stormwater (SW) to inland streams and to the ocean, comprising:  <ul style="list-style-type: none"> <li>28 kilometres of stormwater pipelines</li> <li>26 kilometres of open channel drains and streams</li> <li>1,160 maintenance chambers and sumps</li> </ul>

### Forecast Household Growth

(No allowance has been made for climate induced net migration gains)



### Ten-year renewal programme 2024/25 to 2033/34 – length, in metres

#### Water Renewals

Summary	Length (metres)
1 Dannevirke	42,106
2 Woodville	17,452
3 Pahiatua	4,044
4 Eketahuna	1,674
5 Norsewood	102
<b>Total Water Renewals</b>	<b>65,377</b>

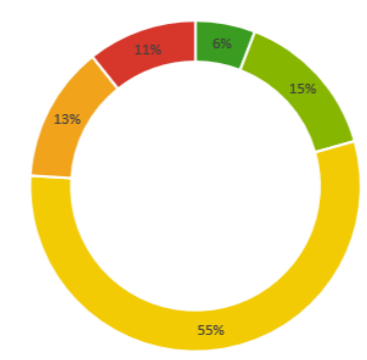
#### Wastewater Renewals

Summary	Length (metres)
1 Dannevirke	10,513
2 Woodville	3,772
3 Pahiatua	3,419
4 Eketahuna	80
<b>Total Wastewater Renewals</b>	<b>17,785</b>

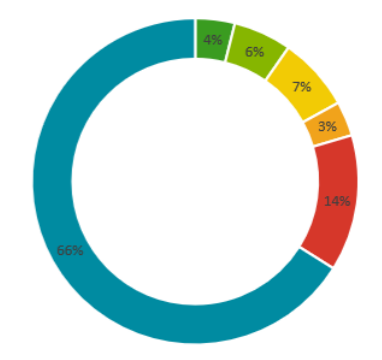
#### Stormwater Renewals

Summary	Length (metres)
1 Dannevirke	2,180
2 Woodville	512
3 Pahiatua	1,638
4 Eketahuna	1,175
<b>Total Stormwater Renewals</b>	<b>5,504</b>

### Water Supply - Below Ground Asset Condition

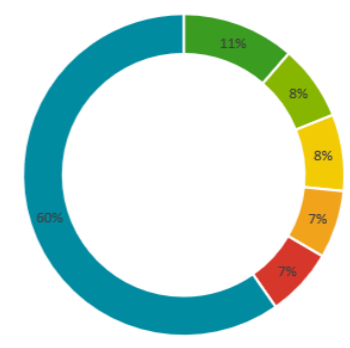


### Wastewater - Below Ground Asset Condition



Legend: Excellent (Green), Good (Yellow), Average (Orange), Poor (Red), Very Poor (Dark Red), Not assessed (Blue)

### Stormwater - Below Ground Asset Condition



Legend: Excellent (Green), Good (Yellow), Average (Orange), Poor (Red), Very Poor (Dark Red), Not assessed (Blue)

### Ten Year Cost Forecasts – Long Term Plan (fully audited)

	Growth
To meet additional demand	Growth
To improve the level of service	Level of Service
To replace existing assets	Renewals
This Draft Long-Term Plan	

Total	Year 1 *	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
	30/06/2025	30/06/2026	30/06/2027	30/06/2028	30/06/2029	30/06/2030	30/06/2031	30/06/2032	30/06/2033	30/06/2034
	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34
\$ Millions	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M
\$12	\$1	\$2	\$1	\$2	\$1	\$2	\$1	\$2	\$0	\$0
\$34	\$3	\$7	\$5	\$7	\$7	\$1	\$1	\$1	\$1	\$1
\$91	\$10	\$10	\$10	\$14	\$7	\$8	\$12	\$6	\$8	\$6
<b>\$137</b>	<b>\$14</b>	<b>\$19</b>	<b>\$16</b>	<b>\$23</b>	<b>\$15</b>	<b>\$11</b>	<b>\$14</b>	<b>\$9</b>	<b>\$9</b>	<b>\$7</b>