

Appendix I: Integrated Water Cycle Management Strategy – Our Water Our Future 2050 - Financial Modelling Report

Overview

FINMOD is Council's financial modelling tool for the Our Water Our Future Strategy 2050. FINMOD is a financial modelling tool to model the price path and financial position of Council over the 30-year strategy period. FINMOD requires inputs for capital and operating expenditure over the period and models the impact to typical residential bill (TRB), borrowings and cash and investments for the organisation, based on growth and income from serviced areas and developer charges.

FINMOD Assumptions and Inputs

The financial modelling inputs included data from published financial reports from the last two complete financial years (2020-21 and 2021-22), known information on 2023-24 fees and charges, information on existing loans and repayments, and billing information (e.g., number of assessments). The financial modelling assumptions have been based on the best knowledge at the time and were developed in conjunction with Council's Finance Manager. Growth rate assumptions align with those used by MidCoast Council's Land Use Planning team and those used during the issues phase of the IWCM Strategy.

We have also assumed that no dividends will be paid from the water and sewer funds within the life of the strategy.

The following inputs and assumptions were used.

Water and sewer inputs – common for both

Base forecast data

- Values in 22/23 dollars (\$'000)
- Forecast years: 31 years
- Inflation rate (general and capital works): 3%
- Borrowing interest rate for new loans: 6%
- Investment interest rate: 4.5%
- Term of new loans: 20 years
- Average life of system assets: 70 years
- Growth rate residential assessments: 1.0%
- Growth rate non-residential assessments: 1.0%
- Backlog assessments residential and non-residential: no input

Water inputs

Base forecast data

- Input number of residential and non-residential assessments for 20/21 and 21/22
- Developer charges \$/assessment residential and non-residential:
 - 22/23: \$6,645

- 23/24: \$6,977
- 24/25 onwards: \$9,570
- The future water developer charge figure of \$9,570 was calculated by totalling the growth component of planned water capital works over the 30 years and dividing by the total number of new assessments over the 30 years. This was done as the developer charges should cover any growth component of capital works over time, and the existing water developer charge does not appear to be financially sustainable. However, \$9,570 is an estimate only and any new water developer charges would be calculated as part of a revised Development Servicing Plan (DSP). Revision and update of the water servicing strategies has recently been initiated which will feed into a revised DSP.
- Number of vacant bill assessments:
 - 22/23 onwards: 1446
- Typical bill for vacant assessment: 50%
- Depreciation of existing plant and equipment (P&E) - total of annual depreciation of P&E should total the written down figure for P&E (\$66,651 for water). Total of annual depreciation of P&E adjusted by assuming P&E will be written off within 15 years, assumed \$4,500 each year, and then Finmod truncates the depreciation accordingly:
 - 21/22: \$1,094
 - 22/23 onwards: \$4,500
- Information in Table 1:

Table 1: Depreciation of plant and equipment inputs- water

	21/22	22/23
Current replacement cost of system assets	\$929,657	\$957,547
Written down cost of current assets	\$526,649	\$542,448
Annual depreciation of existing system assets	\$12,869	\$13,255
Written down value of P & E	\$66,651	\$66,651
<i>No depreciation overrides were used in FINMOD</i>		

- Existing loan payments: principal – provided by Council's Finance team
- Existing loan payments: interest – provided by Council's Finance team
- Capital works program:
 - See 30-year LTFP spreadsheet for planned capital works including renewals programs spend.
 - Future spending on renewals for each asset type was assumed to be 80% of depreciation for that asset type.
 - Assumed 66% government funding for water security projects for the Manning scheme.
 - Assumed 25% government funding for water security projects for Gloucester, Bulahdelah and Stroud schemes
- Developer provided assets: assumed \$500,000 per year to cover developer provided water assets. This includes assets from the North Tuncurry development and Brimbin water reticulation assets
- Additional costs added for Brimbin development:
 - 25/26: \$3,400,000 for DN 375 Irkanda to Brimbin approximately 9km long distribution main
 - 32/33: \$10,500,000 for 21 ML reservoir constructed as 2 x 10.5 ML reservoirs

- 32/33: \$4,100,000 for DN 450 Kolodong to Brimbin approximately 10km long transfer main
- For developer provided assets override operational costs:
 - \$5,000 per year for gravity trunk mains
 - \$10,000 per year per reservoir
 - \$20,000 per year for pumped flows from Kolodong water pump station to Brimbin
- Plant and equipment expenditure: assumption adopt for 23/24 onwards the highest of the two input years
 - 20/21: \$781
 - 21/22: \$529
 - 22/23 onwards: \$781
- No inputs for disposal of plant and equipment and disposal of system assets fields

Revised/ additional forecast data

- No overrides for the following, except for year 52/53, where the FINMOD prediction is zero, the 51/52 value is overridden for the value for 52/53:
 - Administration
 - Engineering and supervision
 - Maintenance expenses
 - Energy costs
 - Chemical costs
 - Purchase of water
 - Other expenses
 - Other revenue
 - Other grants
 - Other contributions
- Override operation expenses to account for additional operating costs with new assets and projects: see LTFP spreadsheet for overrides

The operation expense overrides also account for overrides for administration, engineering and supervision, maintenance expenses, energy costs, and chemical costs. This was done for ease of financial modelling (one line of 30 years data to override instead of six, and has no discernible impact on the results).

- Developer charge overrides: no overrides
- Pensioner rebate:
 - Pensioner rebate per pensioner (\$): \$87.50, no overrides
 - Pensioner rebate subsidy (%): 50%, no overrides
 - Number of pensioner assessments: no overrides
 - Percentage of pensioner assessments (%): 25.36, no overrides
- New loan payments- principal and interest: no overrides

In case development

- The Finmod manual defines TRB is total revenue from residential income divided by total number of residential assessments. TRB 21-22 is \$796 for water
- Adjusted TRB for 22/23 and 23/24 to be in line with fees and charges for FYs:
 - 22/23: \$796
 - 23/24: \$796
- TRB path set for 24/25 onwards by Council- estimated a realistic TRB price path (see each Finmod run for details) with small increases (in \$22/23) for the years that coincide with significant spending on water capital works for water security projects (the 3% inflation in the model also increases the rates by inflation each year).
- Renewals to be funded in whole by internal funding
- Internal funding for new works to cover '*new work less capital works grants*' for all except water security solutions. The assumption behind this is to ensure some borrowings for these assets, to ensure intergenerational equity of payback of expenditure.
- Adjust '*internal funding for new works*' to maintain 'cash and investments' at a preference of approximately \$10 million dollars, with an absolute minimum of \$2,000,000 (as advised by Finance Manager).

Sewer inputs

Base forecast data

- Input number of residential and non-residential assessments for 20/21 and 21/22
- Developer charges \$/assessment residential and non-residential:
 - 22/23: \$7,885
 - 23/24 onwards: \$8,280
- Number of vacant bill assessments:
 - 22/23 onwards: 2089
- Typical bill for vacant assessment: 50%
- Annual depreciation of existing P&E
 - 21/22: \$749
 - 22/23 onwards: \$2,487
- Information in Table 2:

Table 2: Depreciation of plant and equipment inputs- sewer

	21/22	22/23
Current replacement cost of system assets	\$793,571	\$817,378
Written down current cost of system assets	\$516,903	\$523,410
Annual depreciation of existing system assets	\$9,860	\$10,156
Written down value of P & E	\$37,313	\$37,313
<i>No depreciation overrides were used in FINMOD</i>		

- Existing loan payments: principal – provided by Council's Finance team
- Existing loan payments: interest – provided by Council's Finance team
- Capital works program:

- See *Long Term Financial Plan - 30-year Cap and Op Ex* spreadsheet for planned capital works including renewals programs spend.
 - Future spending on renewals for each asset type was assumed to be 80% of depreciation for that asset type.
 - Assumed 25% Safe and Secure Water Program funding for Gloucester Sewerage Treatment Plant upgrade.
- Developer provided assets: assumed \$500,000 per year to cover developer provided sewer assets. This includes assets from North Tuncurry and Brimbin.
- Plant and equipment expenditure: assumption adopt for 23/24 onwards the highest of the two input years
 - 20/21: \$598
 - 21/22: \$727
 - 22/23 onwards: \$727
- No inputs for disposal of plant and equipment and disposal of system assets fields

Revised/ additional forecast data

- No overrides for the following, except for year 52/53, where the FINMOD prediction is zero, the 51/52 value is overridden for the value for 52/53:
 - Administration
 - Engineering and supervision
 - Maintenance expenses
 - Energy costs
 - Chemical costs
 - Purchase of water
 - Other expenses
 - Other revenue
 - Other grants
 - Other contributions
- Override operation expenses to account for additional operating costs with new assets and projects: see LTFP spreadsheet for overridden

The operation expense overrides also account for overrides for administration, engineering and supervision, maintenance expenses, energy costs, and chemical costs. This was done for ease of financial modelling (one line of 30 years data to override instead of six and has no discernible impact on the results).

In case development:

- The Finmod manual defines TRB is total revenue from residential income divided by total number of residential assessments. TRB 21-22 is \$1095.50 for sewer
- Full internal funding renewals and capital works maintaining 'cash and investments' at an absolute minimum of \$2,000,000, with a preferred minimum of \$10,000,000 (as advised by Finance Manager).

Preferred water scenario and price path

Water preferred price path	
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Peg Leg Creek Dam for the Manning Scheme with 66% government funding • Off-stream storages for Gloucester, Stroud and Bulahdelah with 25% government funding • Delivery of an \$80M purified recycled water scheme in years 2050/51 to 2051/52. • Increased operational spending of \$500,000 per year from 2026/27. • Water developer charges increased to \$9,570 from 2024-25 and then reduced by 3% yearly (negating inflation) from 2038-39 onwards
Comments	The purpose of this was to model Council's preferred price path for water, to meet the following: • Minimum cash and investments of \$2,000,000 (minimum level as advised by Council's Manager Finance) • Sustainable financial performance indicators over the long term (note only 25 years could be exported from Finmod): ○ Net operating result for the year before grants and contributions provided for capital purposes ○ Net operating result for the year ○ Operating performance ratio ○ Debt equity ratio 23 iterations for the preferred water path were completed that investigated different TRB paths with adjustments of level of borrowings and internal funding for new works. This was completed to achieve an acceptable water TRB price path, given the large spend required to address water security in the Manning Scheme. Refer to Table 3 - <i>Water TRB price path</i>. This scenario demonstrates that a 'Net operating result for the year before grants and contributions provided for capital purposes' for 13 years is experienced with the TRB rises, as shown in Table 4. However, the net operating result for the year remains positive for every year from 2023/24, as shown in Table 5. There is a negative operating performance ratio that coincides with the year's that have a 'Net operating result for the year before grants and contributions provided for capital purposes', as shown in Table 6. Based on the many iterations that were done, it appears that this is inevitable for some years during the 30-year period, due to the significant investment in water security in the Manning. The alternative is a short, sharp increase in TRB in the order of 18% in 2024-25, however this would put significant pressure on our customers and could not be balanced out by reductions in the sewer TRB. The cash and investments have been kept above \$2,000,000, with approximately \$50 million at 2052/53. This price path has a debt service ratio that starts at approximately 0.22 in 2022/23 and continually decreases to 0.05 to 2046/47. This is shown in Table 7. This scenario has increases of 3% above inflation to the water fees and charges in the short term for seven consecutive years (years 2024/25 to 2030/31 as shown below). It should be noted that these increases can be partially offset by decreases in the sewer fees and charges (refer to <i>Preferred sewer scenario and price path</i> and Error! Reference source not found. - <i>Comparison of TRB for preferred water and sewer price paths</i>). The price path holds water TRB steady for four consecutive years to remove inflation, from 2037-38. This scenario demonstrates that an increase to the water developer charges is required in the short term (once the Developer Servicing Plan for the Manning Supply Scheme is adopted) but that it will not need to be increased in line with inflation beyond 2038/39, based on current capital works estimates for growth projects over the 30 years. Servicing Strategies and Developer Servicing Plan reviews to be undertaken to confirm developer charges. This scenario demonstrates that operational cost increases of up to \$500,000 per year are affordable after year 2026/27. These increases in operational spending may be required due to the need for additional resources, increased chemical or energy costs, etc.

Table 3: Water TRB price path

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$ 22/23)	795.5	795.50	819.37	843.95	869.26	895.34	922.20	949.87	978.36	978.36	978.36	978.36	978.36	978.36	978.36
Increase (%)	-	-	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	-	-	-	-	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	949.01	920.54	892.93	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14
Increase (%)	-3.0%	-3.0%	-3.0%	-3.0%	-	-	-	-	-	-	-	-	-	-	-	-

Table 4: Water Net operating result for the year before grants and contributions provided for capital purposes

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
\$'000 (\$ 22/23)	-6039	-7288	-6184	-5040	-3598	-2215	-1775	-820	295	-2117	-2867	-3070	-1863

Year	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
\$'000 (\$ 22/23)	-748	935	2707	1832	895	55	539	933	1594	2270	2375	2443

Table 5: Water Net operating result for the year

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
\$'000 (\$ 22/23)	-2615	4586	268	13105	11195	14250	26635	27638	28789	28927	20657	4234	3384

Year	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
\$'000 (\$ 22/23)	4547	6287	8107	7270	6391	5598	6130	6582	7291	8014	8176	8293

Table 6: Water Operating performance ratio

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Percentage	-15%	-18%	-15%	-12%	-8%	-5%	-4%	-2%	1%	-4%	-5%	-6%	-3%

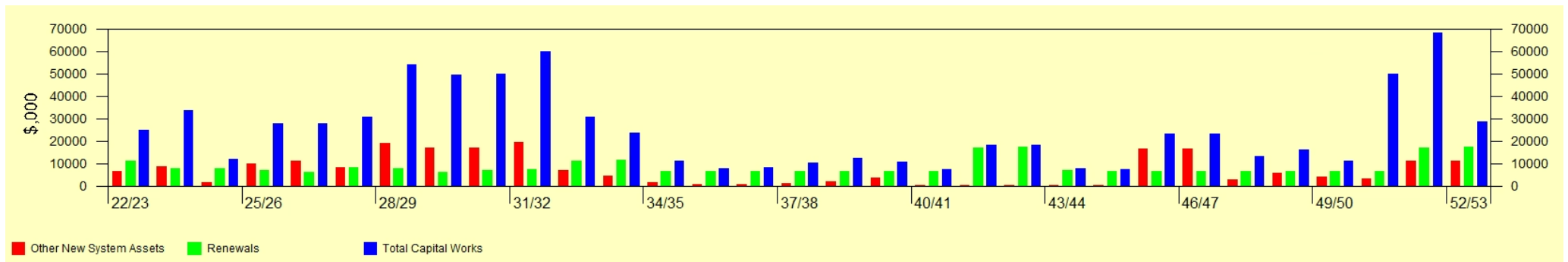
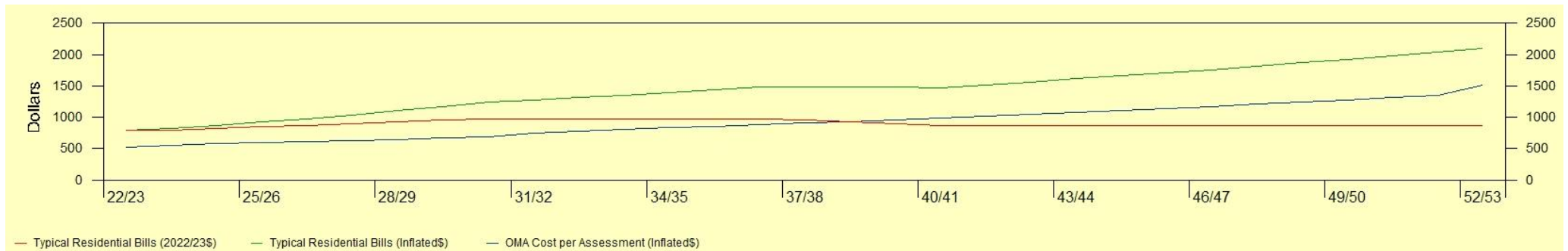
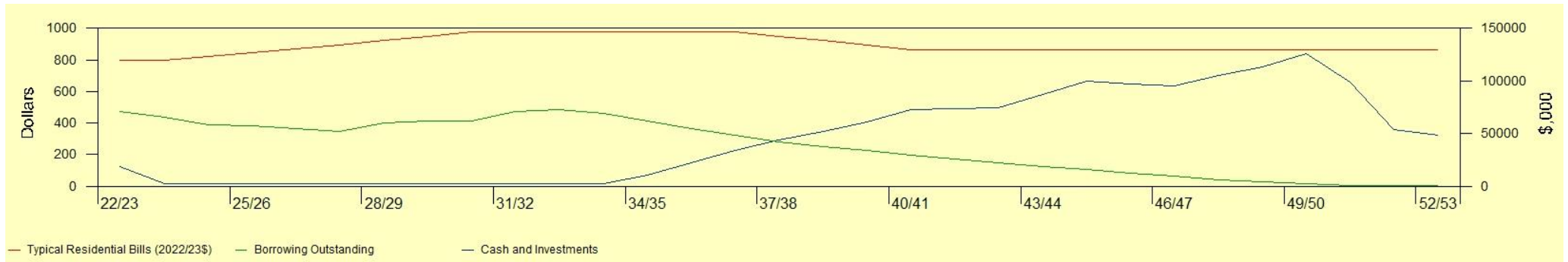
Year	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
Percentage	-1%	2%	5%	3%	2%	0%	1%	2%	3%	4%	4%	4%

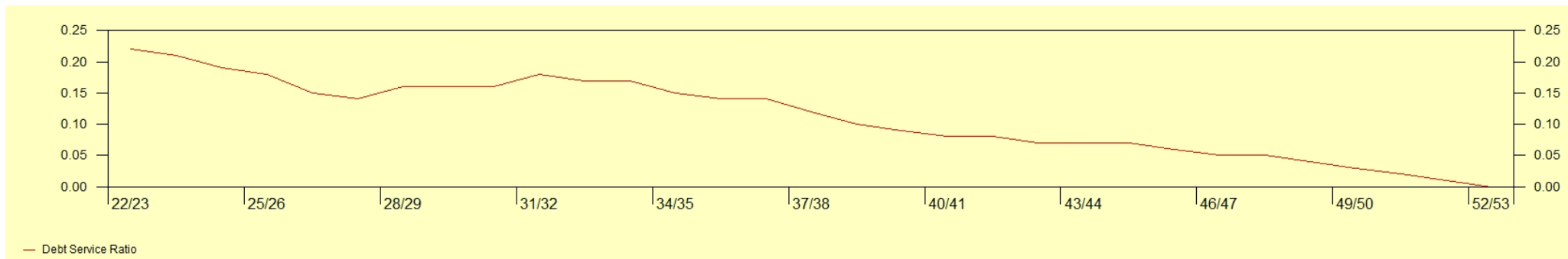
Table 7: Water Debt service ratio

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Ratio	0.22	0.21	0.19	0.18	0.15	0.14	0.16	0.16	0.16	0.18	0.17	0.17	0.15

Year	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
Ratio	0.14	0.14	0.12	0.10	0.09	0.08	0.08	0.07	0.07	0.07	0.06	0.05

31	Final preferred no. 2	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	1990	1977	2100	2019	2182	2205	2255	2086	2096	2315	2006	9981	22008	34233	44124	52020	61272	72483	73513	74700	87045	99936	97174	94928	105045	112979	125527	98621	54181	48718
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20029	19682	26830	15301	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	43585	51465	11465
Internal Funding for New Works (\$'000)			13904	16500	2401	5000	8700	7900	9400	12000	12800	10000	6000	6000	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	43585	51465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	1283	0	6250	3219	3012	13930	8029	6882	16830	9301	3677	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	761	784	809	834	862	889	916	945	946	946	947	947	948	948	921	894	866	840	841	842	842	842	843	843	843	844	845	845	845	846
Typical Residential Bills (\$)			796	796	819	844	869	895	922	950	978	978	978	978	978	978	978	949	921	893	866	866	866	866	866	866	866	866	866	866	866	866	866





Preferred sewer scenario and price path

Sewer preferred price path	
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Expansion of recycled water for unrestricted public access at Taree Rec Grounds • Increased operational spending of \$500,000 per year from 2026/27. • Provision of sewerage services to Coomba Park and construction of Pacific Palms STP during the last 5 years (commissioning in 2051-52) • Sewer developer charges remain constant (increase with inflation only) • No new loans
Comments	The purpose of this was to model Council's preferred price path for sewer, to meet the following: • Absolute minimum of \$2,000,000 cash and investments, with a preferred minimum of \$10,000,000 (as advised by Council's Manager Finance) • Sustainable financial performance indicators over the long term (note (only 25 years could be exported from Finmod): ○ Net operating result for the year before grants and contributions provided for capital purposes ○ Net operating result for the year ○ Operating performance ratio ○ Debt equity ratio 8 iterations were completed that investigated different sewer TRB paths with adjustments of level of borrowings and internal funding for new works to achieve the preferred sewer TRB price path. See Table 8 - <i>Sewer TRB price path</i>. This run demonstrates positive: • 'Net operating result for the year before grants and contributions provided for capital purposes' (see Table 9) • 'Net operating result for the year' (See Table 10) and • Operating performance ratio (see Table 11) with the Sewer TRB decreases as shown in Table 8 - <i>Sewer TRB price path</i>. The cash and investments have been kept above \$2,000,000, with approximately \$50 million at 2052/53. This scenario has a debt service ratio that starts at approximately 0.19 in 2022/23 and continually decreases to zero in 2037/38. This scenario has decreases of 3% to sewer fees and charges in the short term for four consecutive years (years 2024/25 to 2027/28 as shown in Table 8 - <i>Sewer TRB price path</i>.). The sewer TRB is kept constant for the remainder of the 30 years. This scenario demonstrates we can keep sewer developer charges constant for the 30 years, increasing them in line with inflation. This scenario demonstrates that operational cost increases of up to \$500,000 per year are affordable after year 2026/27. These increases in operational spending may be required due to the need for additional resources, increased chemical or energy costs, etc.

Table 8: Sewer TRB price path

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$ 22/23)	1096	1096.00	1063.12	1031.23	1000.29	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28
Increase (%)	-	-	-3%	-3%	-3%	-3%	-	-	-	-	-	-	-	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28
Increase (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 9: Sewer Net operating result for the year before grants and contributions provided for capital purposes

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
\$'000 (\$ 22/23)	7605	7936	5560	3151	1538	493	863	1079	1075	1229	1508	1806	2203

Year	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
\$'000 (\$ 22/23)	2301	2572	4545	4898	5101	5225	5461	5863	6055	6302	6608	7022

Table 10: Sewer Net operating result for the year

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
\$'000 (\$ 22/23)	11220	11741	12405	9904	5440	4439	4841	5090	5118	5314	5627	5958	6396

Year	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
\$'000 (\$ 22/23)	6528	6831	8854	9240	9476	9641	9918	10362	10586	10884	11223	11679

Table 11: Sewer Operating performance ratio

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Percentage	17%	17%	13%	7%	4%	1%	2%	3%	3%	3%	4%	4%	5%

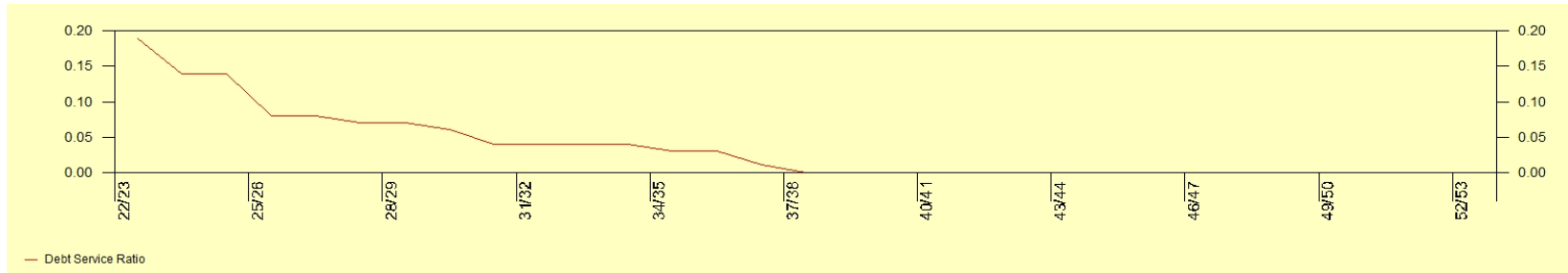
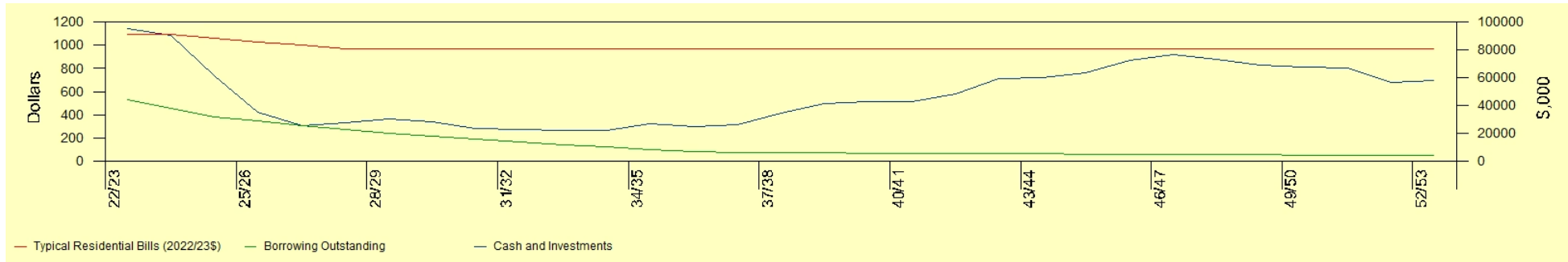
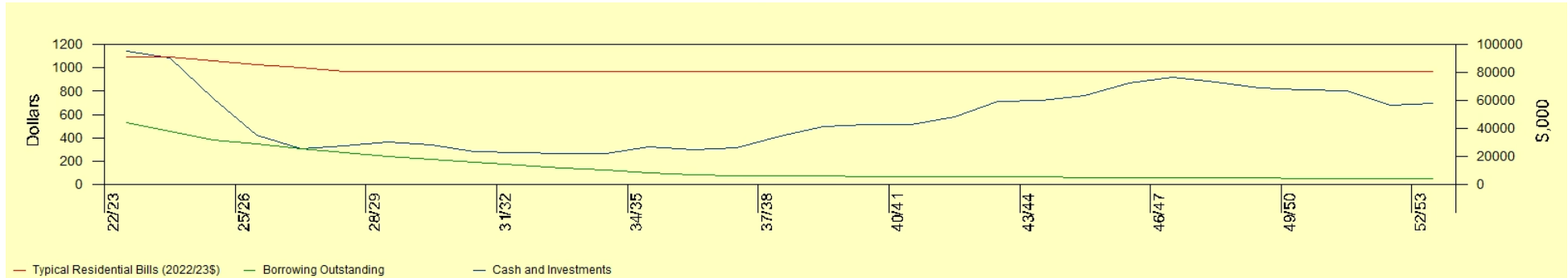
Year	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
Percentage	5%	6%	10%	11%	11%	11%	12%	13%	13%	13%	14%	14%

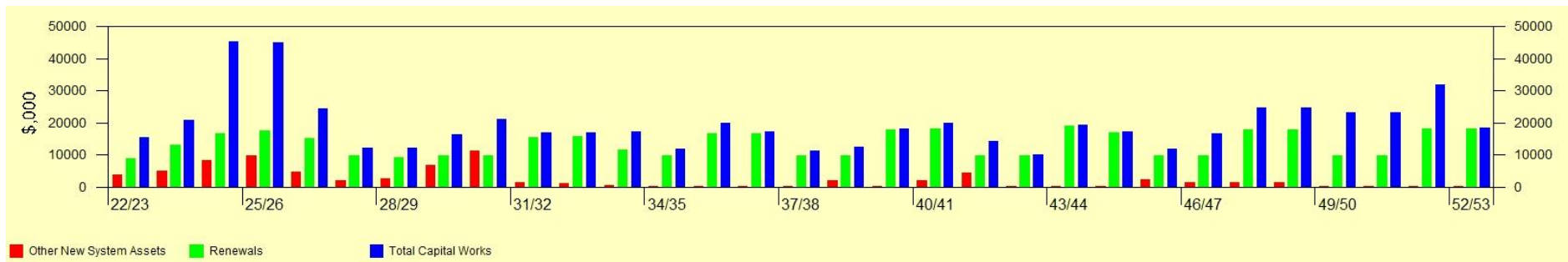
Table 12: Sewer Debt service ratio

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Ratio	0.19	0.14	0.14	0.08	0.08	0.07	0.07	0.06	0.04	0.04	0.04	0.04	0.03

Year	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
Ratio	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

16	Preferred final- sewer	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
	Cash and Investments (\$'000)		95322	90394	61677	35180	25561	27622	29979	28496	23251	22447	22045	21691	27113	24820	26363	34475	41514	42917	42666	48608	59061	60194	63500	72488	76865	72977	69382	67912	66661	56646	58068
	New Works less Cap. Works Grants (\$'000)		6743	7606	25926	24452	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	6916	6916	6916	13583	13583	13583	250
	Internal Funding for New Works (\$'000)		6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	6916	6916	6916	13583	13583	13583	250
	Renewals (\$'000)		8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
	Internal Funding for Renewals (\$'000)		8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
	Total New Loans Required (\$'000)		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	Average Residential Bills (\$)		1042	1044	1012	982	953	924	925	926	927	928	929	929	930	930	931	932	933	933	933	933	935	935	935	936	936	938	939	939	939	940	940
	Typical Residential Bills (\$)		1096	1096	1063	1031	1000	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970	970





Combined preferred water and sewer scenario and price path

Tables 13 and 14 show the combined Typical Residential Bill for water and sewer over the 30-year planning horizon. The increases in the water TRB required due to significant water security capital works can be somewhat offset by a sewer TRB price path that lowers pressure on customers. Table 15 shows the annual changes to the combined TRB for preferred water and sewer price paths, in today's dollars. This demonstrates that the current combined TRB of \$1891.50 (in 22/23 dollars) is reducing to \$1836.42 by 2040/41(in 22/23 dollars) and remaining constant for the remainder of the 30-year period. This does not include inflation.

Table 13 - **Combined TRB for preferred water and sewer price paths**

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Water TRB (\$22/23)	795.5	795.50	819.37	843.95	869.26	895.34	922.20	949.87	978.36	978.36	978.36	978.36	978.36	978.36	978.36
Sewer TRB (\$22/23)	1096	1096.00	1063.12	1031.23	1000.29	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28
Total TRB (\$22/23)	1891.50	1891.50	1882.49	1875.17	1869.55	1865.62	1892.48	1920.15	1948.65	1948.65	1948.65	1948.65	1948.65	1948.65	1948.65

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Water TRB (\$22/23)	949.01	920.54	892.93	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14	866.14
Sewer TRB (\$22/23)	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28	970.28
Total TRB (\$22/23)	1919.29	1890.82	1863.21	1836.42	1836.42	1836.42	1836.42	1836.42	1836.42	1836.42	1836.42	1836.42	1836.42	1836.42	1836.42	1836.42

Table 14 – **Combined TRB for preferred water and sewer price paths inflated dollars**

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Total TRB (\$ inflated)	1891.50	1948.25	1997.13	2049.05	2104.20	2162.77	2259.72	2361.54	2468.49	2542.54	2618.82	2697.38	2778.30	2861.65	2947.50

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Total TRB (\$ inflated)	2990.20	3034.22	3079.60	3126.38	3220.17	3316.78	3416.28	3518.77	3624.33	3733.06	3845.06	3960.41	4079.22	4201.60	4327.64	4457.47

Table 15 - *Annual changes to combined TRB for preferred water and sewer price paths*

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Annual TRB change (\$22/23)	0.00	0.00	-9.02	-16.33	-21.95	-25.88	0.98	28.65	57.15	57.15	57.15	57.15	57.15	57.15	57.15

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Annual TRB change (\$22/23)	27.79	-0.68	-28.29	-55.08	-55.08	-55.08	-55.08	-55.08	-55.08	-55.08	-55.08	-55.08	-55.08	-55.08	-55.08	-55.08

Appendix 1: Water Finmod Runs

BRIEFING NOTES

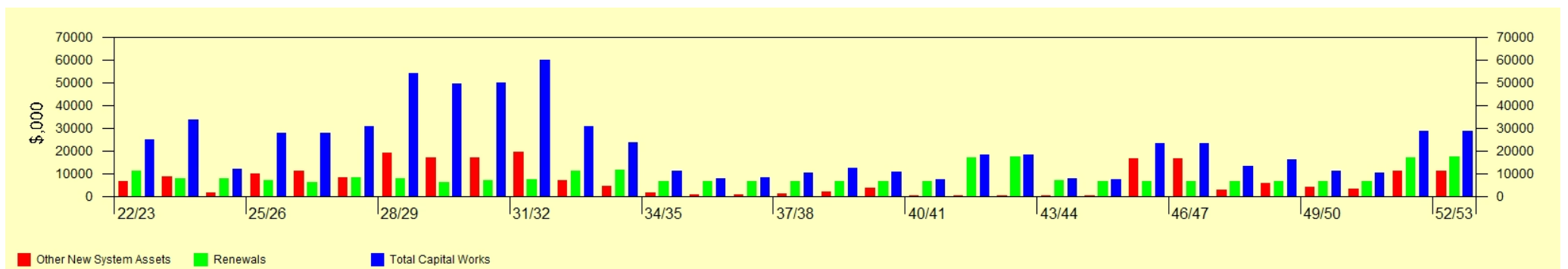
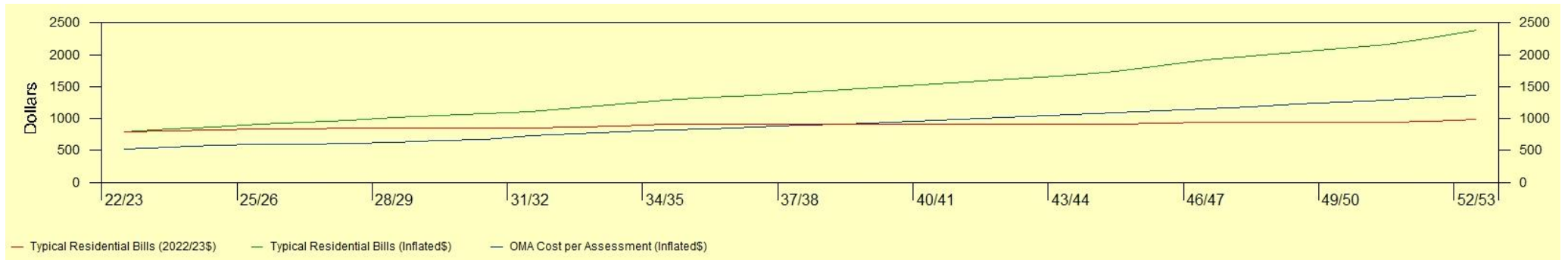
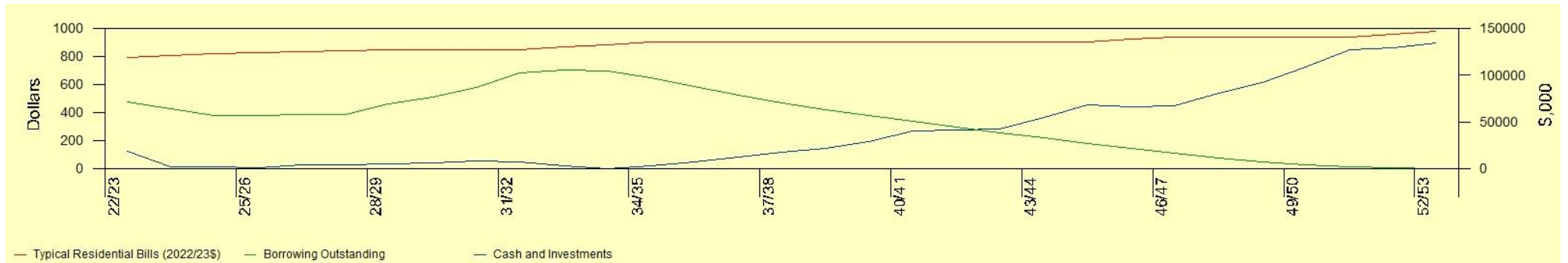
Water: Run 1- Peg Leg Creek Dam for the Manning	
Variable changed:	None
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Peg Leg Creek Dam for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah
Comments	1- This indicates that Council's financial position has a positive cash and investment price path with the estimate of the TRB price path increases, planned water capital works and level of borrowings, as per the Finmod output below. However, this scenario assumes we are receiving significant government funding towards the water security solution for the Manning scheme. 2- The cash and investments at 52/53 is high. Council has more clarity over capital works spending in the first 15 years and it is possible that after 35/36, inputs for spending for water capital works and renewals have been underestimated. 3- This scenario assumes that water developer charges are increased to \$9,570.

1- TRB path

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$ 22/23)	795.50	811.41	819.52	827.72	836.00	844.36	852.80	852.80	852.80	852.80	869.86	887.25	905.00	905.00	905.00
Increase (%)	-	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	2.0%	2.0%	2.0%	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	923.10	941.56	941.56	941.56	941.56	941.56	960.39	979.60
Increase (%)	-	-	-	-	-	-	-	-	2.0%	2.0%	-	-	-	-	2.0%	2.0%

14	Preferred strategy- Peg Leg & small	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53	
Cash and Investments (\$'000)			18876	1507	1645	1093	3409	3946	4605	5859	8349	7447	3235	193	2393	7356	12588	17164	21443	28822	39872	40847	42144	54664	67852	66623	67387	80750	92258	108783	127379	129619	134309	
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465	
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319	
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319	
Total New Loans Required (\$'000)			0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Residential Bills (\$)			760	775	785	794	802	811	821	821	822	822	839	858	875	876	877	877	877	878	879	879	880	881	881	899	918	918	920	919	920	938	958	
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980	



Water: Run 2- Desalination Plant for the Manning															
Variable changed:				Capital and operating costs for a Desalination Plant, instead of Peg Leg Creek Dam											
Details				This includes: • Spending for <i>'The Everyday Scenario'</i> • Desalination Plant for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah • Expansion of recycled water for unrestricted public access at Taree Rec Grounds											
Comments				1- The purpose of this sensitivity analysis was to determine the increase to the TRB if a desalination plant was adopted for the Manning. Using the same TRB path as <i>water: run 1</i> provides negative cash and investments. TRB rises were increased by 0.1 of a percentage until the cash and investments line were positive and close to the cash and investments from run 1. This was achieved with a 1% increase on top of each TRB step. Iterations demonstrated an extra 1% increase on top of the TRB steps is required to account for the extra costs (capital and operating) from a desalination plant. Over the 30-year period, each connection would pay an extra \$2,269.39 (in \$22/23 dollars) for desalination.											

1- Using the same TRB path as *water: run 1*

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$ 22/23)	795.50	811.41	819.52	827.72	836.00	844.36	852.80	852.80	852.80	852.80	869.86	887.25	905.00	905.00	905.00
Increase (%)	-	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	2.0%	2.0%	2.0%	-	-

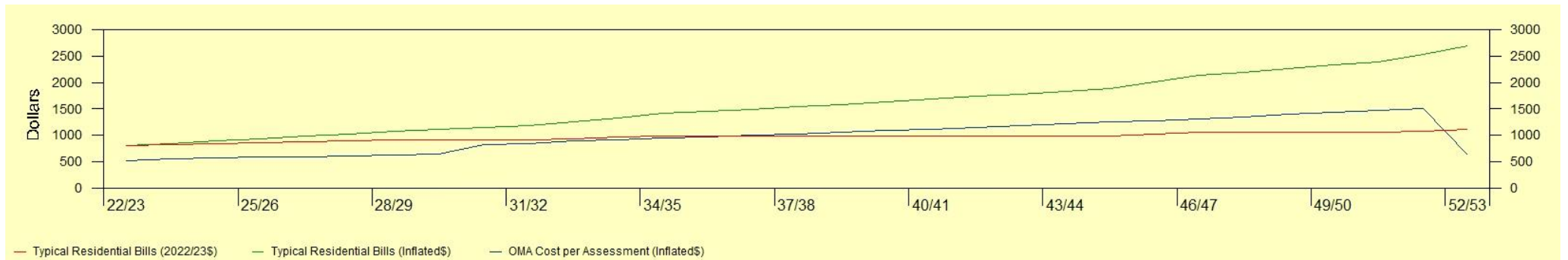
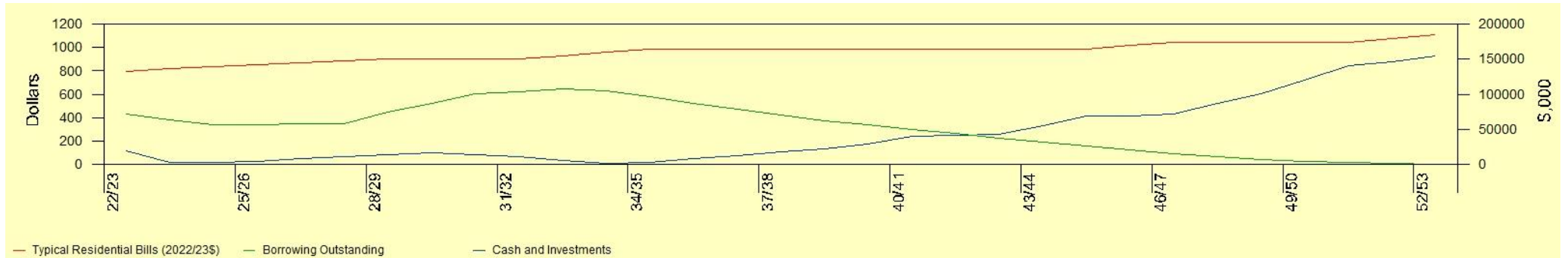
Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	923.10	941.56	941.56	941.56	941.56	941.56	960.39	979.60
Increase (%)	-	-	-	-	-	-	-	-	2.0%	2.0%	-	-	-	-	2.0%	2.0%

15	Desalination & smaller dams	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	1562	1671	1100	3392	3960	4142	4533	-354	-6154	-15345	-24564	-27338	-27329	-27013	-27311	-27860	-25237	-18828	-22445	-25696	-17590	-8665	-14090	-17439	-8028	-132	13105	28728	27543	52312
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	12599	10912	28260	24960	24611	14761	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	2000	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	6250	7599	5912	23260	19960	22611	12760	13302	7677	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	776	784	793	802	812	820	821	821	822	839	858	875	876	877	877	877	878	879	879	880	881	881	899	918	918	919	919	919	938	958
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980

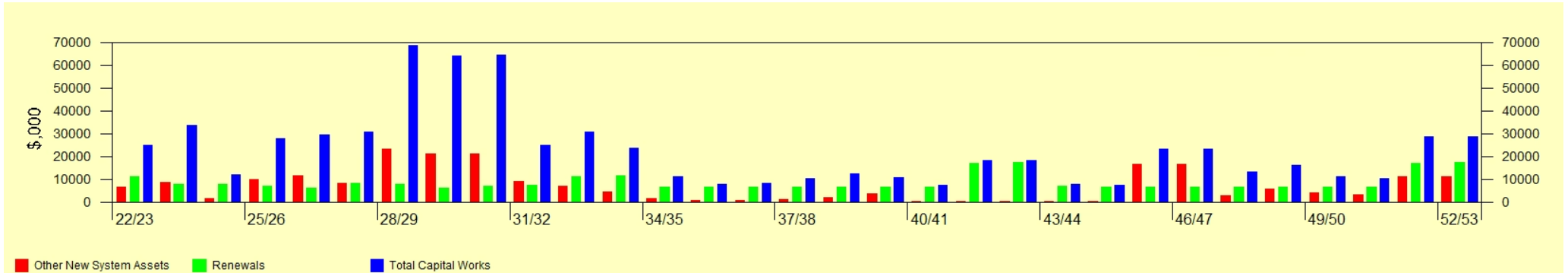
2- TRB path to approximate cash and investments from *water: run 1* (to get uplift on TRB from Desalination Plant compared to Peg Leg Creek Dam)

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	795.50	819.37	835.75	852.47	869.52	886.91	904.65	904.65	904.65	904.65	931.78	959.74	988.53	988.53	988.53
Increase (%)	-	3.0%	2.0%	2.0%	2.0%	2.0%	2.0%	-	-	-	3.0%	3.0%	3.0%	-	-
Increase from <i>water: run 1</i>	-	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	1.0%	1.0%	1.0%	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	988.53	988.53	988.53	988.53	988.53	988.53	988.53	988.53	1018.19	1048.73	1048.73	1048.73	1048.73	1048.73	1080.19	1112.60
Increase (%)	-	-	-	-	-	-	-	-	3.0%	3.0%	-	-	-	-	3.0%	3.0%
Increase from water: run 1	-	-	-	-	-	-	-	-	1.0%	1.0%	-	-	-	-	1.0%	1.0%



Please note we have troubleshot the OMA coast per assessment dropping at 52/52 and are unable to resolve. Please ignore the drop in OMA in the final year.



15	Desalination & smaller dams	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
	Cash and Investments (\$'000)		18876	1935	2872	3525	7512	10232	13131	16243	14114	11130	5410	340	2385	7221	12389	16957	21282	28756	39948	41105	42623	55430	68967	68793	71440	86753	100483	119542	140936	146244	154709
	New Works less Cap. Works Grants (\$'000)		13904	17783	2401	11250	12599	10912	28260	24960	24611	14761	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
	Internal Funding for New Works (\$'000)		13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	2000	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
	Renewals (\$'000)		11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
	Internal Funding for Renewals (\$'000)		11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
	Total New Loans Required (\$'000)		0	0	0	6250	7599	5912	23260	19960	22611	12760	13302	7677	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Average Residential Bills (\$)		760	783	801	817	835	853	872	872	872	874	901	929	958	959	959	960	960	961	962	962	962	963	963	993	1024	1024	1024	1025	1025	1057	1090
	Typical Residential Bills (\$)		796	819	836	852	870	887	905	905	905	905	932	960	989	989	989	989	989	989	989	989	989	989	989	1018	1049	1049	1049	1049	1049	1080	1113

Uplift in TRB per year for a Desalination Plant (instead of Peg Leg Creek Dam)

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Uplift in TRB (\$22/23)	-	7.96	16.23	24.75	33.52	42.55	51.85	51.85	51.85	51.85	61.93	72.48	83.53	83.53	83.53

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Uplift in TRB (\$22/23)	83.53	83.53	83.53	83.53	83.53	83.53	83.53	83.53	95.09	107.17	107.17	107.17	107.17	107.17	119.80	133.00

Water: Run 3- Peg Leg Creek Dam with 25% government funding	
Variable changed: Government funding level for Manning scheme water security option (%)	25% government funding for Peg Leg off-stream storage dam (instead of 66%)
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Peg Leg Creek Dam for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah • Expansion of recycled water for unrestricted public access at Taree Rec Grounds
Comments	1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position and impact on TRB if government funding for the Peg Leg Off Stream Storage Dam is 25%. Using the same TRB path as <i>water: run 1</i> provides negative cash and investments. TRB rises were increased by 0.1 of a percentage until the cash and investments line were positive and close to the cash and investments from <i>water: run 1</i> . This was achieved with a 1.4% increase on top of each TRB step, to account for the lower level source of funding received for the Manning scheme water security solution. Over the 30-year period, each connection would pay an extra \$3,229.78 (in \$22/23 dollars) for Peg Leg Creek Dam at a 25% funding level compared to 66% funding. 2- When assessing increasing water fees and charges, it is important to consider that the MidCoast LGA has a higher proportion of people on low incomes compared to the state average (41.0% on a low income compared to the state average of 33.7%, https://forecast.id.com.au/) 3- Government funding for Peg Leg Dam of anywhere between 25% and 66% will need appropriate increases in the typical residential bill.

1- Using the same TRB path as *water: run 1*

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$ 22/23)	795.50	811.41	819.52	827.72	836.00	844.36	852.80	852.80	852.80	852.80	869.86	887.25	905.00	905.00	905.00
Increase (%)	-	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	2.0%	2.0%	2.0%	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	923.10	941.56	941.56	941.56	941.56	941.56	960.39	979.60
Increase (%)	-	-	-	-	-	-	-	-	2.0%	2.0%	-	-	-	-	2.0%	2.0%

16	25% funding- Peg Leg & smaller dams	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	1566	1683	580	1870	830	-1411	-4245	-7103	-14525	-25163	-34525	-38480	-39485	-40013	-40993	-42062	-39793	-33577	-37232	-40367	-31997	-22661	-27223	-29297	-18147	-7908	8202	27204	30722	60155
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	17400	18069	18077	37885	34585	34236	41386	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	12399	13069	13077	32885	29585	32236	39385	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	776	784	793	802	812	820	821	821	822	839	858	875	876	877	877	877	878	879	879	880	881	881	899	918	918	919	919	919	938	958
Typical Residential Bills (\$)			795.5	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980

2- TRB path to approximate cash and investments from *water: run 1* (to get uplift on TRB from Desalination Plant compared to Peg Leg Creek Dam)

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	795.5	822.55	842.29	862.50	883.20	904.40	926.11	926.11	926.11	926.11	957.59	990.15	1023.82	1023.82	1023.82
Increase (%)	-	3.4%	2.4%	2.4%	2.4%	2.4%	2.4%	-	-	-	3.4%	3.4%	3.4%	-	-
Increase from <i>water: run 1</i>	-	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	-	-	-	1.4%	1.4%	1.4%	-	-

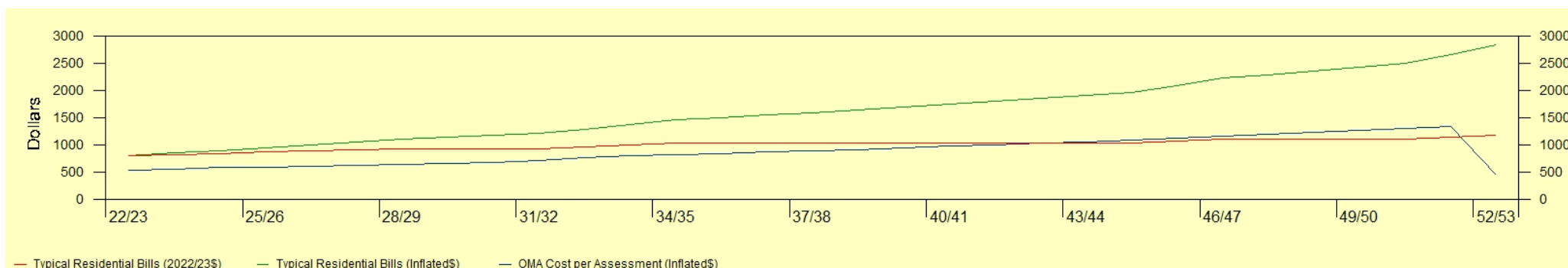
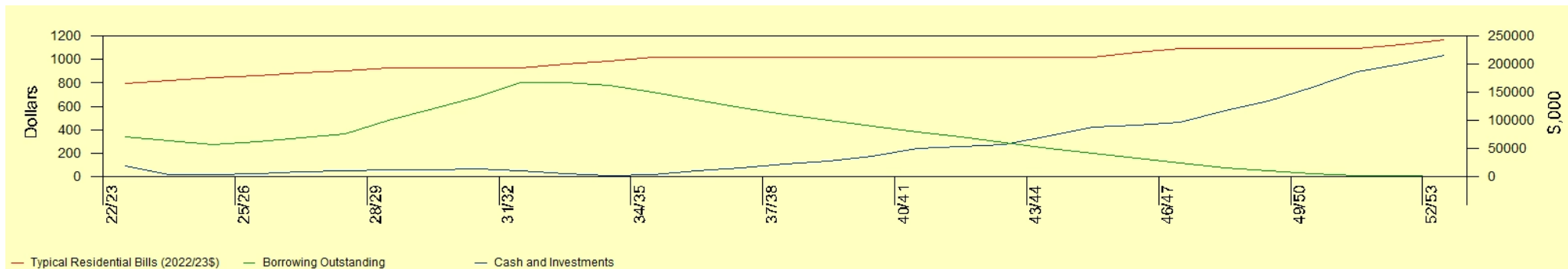
Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	1023.82	1023.82	1023.82	1023.82	1023.82	1023.82	1023.82	1023.82	1058.63	1094.62	1094.62	1094.62	1094.62	1094.62	1131.84	1170.32
Increase (%)	-	-	-	-	-	-	-	-	3.4%	3.4%	-	-	-	-	3.4%	3.4%
Increase from <i>water: run 1</i>	-	-	-	-	-	-	-	-	1.4%	1.4%	-	-	-	-	1.4%	1.4%

Uplift in TRB per year if 25% funding for Peg Leg Creek Dam, compared to 66% funding

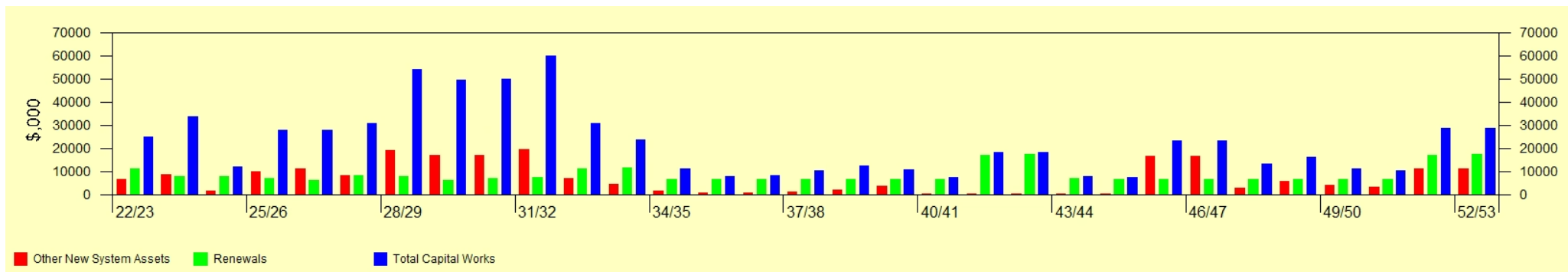
Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Uplift in TRB (\$22/23)	-	11.14	22.76	34.78	47.21	60.04	73.31	73.31	73.31	73.31	87.74	102.90	118.82	118.82	118.82

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Uplift in TRB (\$22/23)	118.82	118.82	118.82	118.82	118.82	118.82	118.82	118.82	135.53	153.06	153.06	153.06	153.06	153.06	171.45	190.72

16	25% funding- Peg Leg & smaller d	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	2124	3343	4007	7661	9648	11198	12195	13260	9837	4118	593	3451	9307	15657	21561	27402	36567	49584	52753	56400	71473	87406	90421	96952	116592	135159	159568	186797	199644	216088
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	17400	18069	18077	37885	34585	34236	41386	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	12399	13069	13077	32885	29585	32236	39385	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	787	807	828	849	870	893	893	894	894	926	958	992	994	994	994	995	996	996	997	997	998	998	1033	1069	1070	1070	1071	1071	1108	1146
Typical Residential Bills (\$)			796	823	842	863	883	904	926	926	926	926	958	990	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1059	1095	1095	1095	1095	1095	1132	1170



Please note we have troubleshot the OMA coast per assessment dropping at 52/52 and are unable to resolve. Please ignore the drop in OMA in the final year.



Water: Run 4- Peg Leg Creek Dam with lower growth															
Variable changed: Growth rate: residential and non-residential (%)		0.7% per year (instead of 1.0% per year)													
Details		This includes: • Spending for <i>'The Everyday Scenario'</i> • Peg Leg Creek Dam for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah • Expansion of recycled water for unrestricted public access at Taree Rec Grounds													
Comments		1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position if lower than forecast growth occurred. Using the same TRB path as <i>water: run 1</i> provides negative cash and investments. Iterations were completed to reduce internal funding and increase borrowings. With full borrowing and no internal funding for new works, the cash and investments remain negative between 35/36 and 38/39. A limitation with this sensitivity is capital works program timelines have not been reassessed and pushed out, where works is for growth. 2- Council will reassess growth regularly over the life of the strategy and if growth does not occur at the predicted 1.0%, we will identify capital projects, including renewals, to push out in the future in order to remain financially sustainable.													

1- Using the same TRB path as *water: run 1*

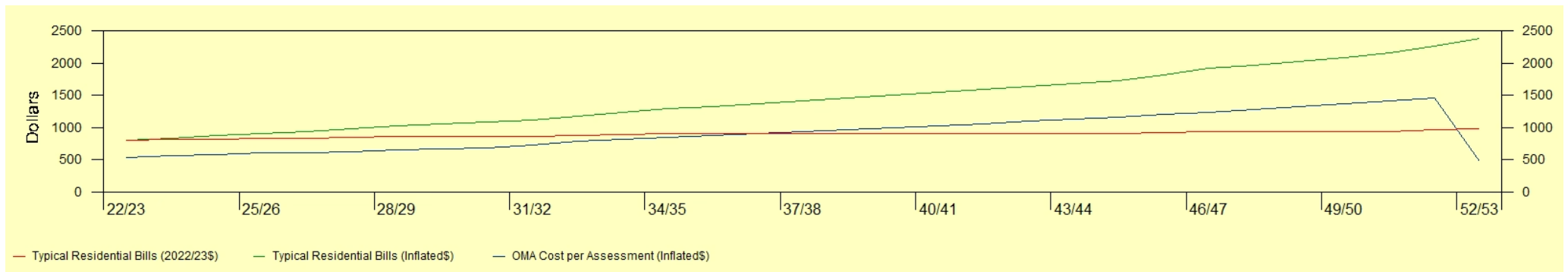
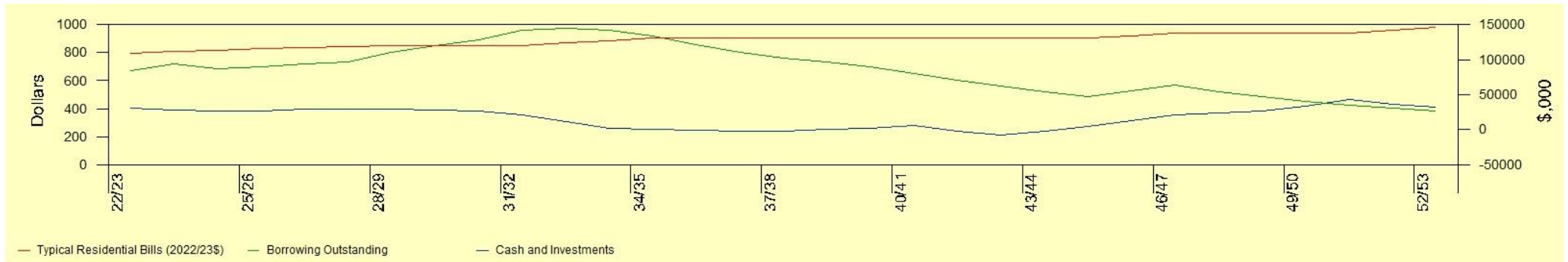
Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$ 22/23)	795.50	811.41	819.52	827.72	836.00	844.36	852.80	852.80	852.80	852.80	869.86	887.25	905.00	905.00	905.00
Increase (%)	-	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	2.0%	2.0%	2.0%	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	923.10	941.56	941.56	941.56	941.56	941.56	960.39	979.60
Increase (%)	-	-	-	-	-	-	-	-	2.0%	2.0%	-	-	-	-	2.0%	2.0%

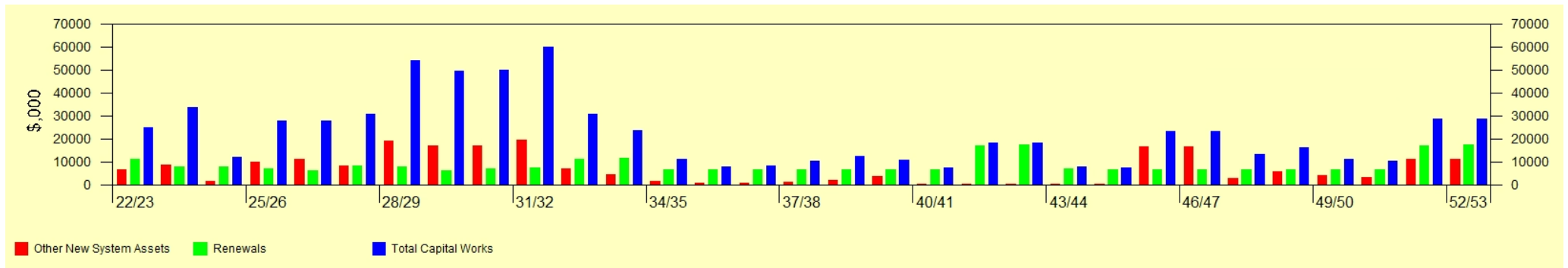
17	Low growth- Peg Leg & smaller dar	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			17934	-526	-1957	-4223	-3759	-5183	-6632	-7617	-7476	-10864	-17756	-23679	-24520	-22695	-20696	-19441	-18550	-14638	-7077	-9693	-12101	-3312	6092	916	-2444	6716	13934	26090	40223	37816	59034
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	775	785	793	802	810	821	820	822	822	839	857	875	876	876	877	877	878	878	879	879	879	880	898	917	917	918	918	919	937	957
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980

2- Ran iterations to reduce internal funding for new works and borrow more, to determine impact on cash and investments. With full borrowing and no internal funding for new works, the cash and investments remain negative for some years.

17	Low growth- Peg Leg & smaller dar	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			30921	28065	26586	26560	28917	29038	28798	28687	26563	20841	11589	2169	133	-1237	-2091	-1829	-73	2447	5476	-1588	-7709	-1716	5037	12437	20474	24068	26155	33606	43299	36719	32577
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19682	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	0	0	0	0	0	0
Average Residential Bills (\$)			760	775	785	793	802	810	821	820	822	822	839	857	875	876	876	877	877	878	878	879	879	879	880	898	917	917	918	918	919	937	957
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980



Please note we have troubleshoot the OMA coast per assessment dropping at 52/52 and are unable to resolve. Please ignore the drop in OMA in the final year.



Water: Run 5- Peg Leg Creek Dam keeping developer charges constant from 23/24	
Variable changed: Developer charges from 24/25 onwards (\$)	\$6,977 (instead of \$9,570)
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Peg Leg Creek Dam for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah • Expansion of recycled water for unrestricted public access at Taree Rec Grounds
Comments	1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position and impact on TRB if developer charges are kept constant from 23/24 at \$6,977 and not increased to \$9,570. Using the same TRB path as <i>water: run 1</i> provides negative cash and investments. TRB rises were increased by 0.1 of a percentage until the cash and investments line were positive and close to the cash and investments from <i>water: run 1</i>. This was achieved with a 0.6% increase on top of each TRB step, to account for not increasing developer charges from \$6,977 to \$9,570 from 24/25 onwards. Over the 30-year period, each connection would pay an extra \$1,339.54 (in \$22/23 dollars) to account for the reduced income from developer charges. 2- When assessing increasing water fees and charges, it is important to consider that the MidCoast LGA has a higher proportion of people on low incomes compared to the state average (41.0% on a low income compared to the state average of 33.7%, https://forecast.id.com.au/). 3- Any cross subsidy of developer charges by ratepayers needs to be clear and transparent, and the community needs to be consulted prior to a council decision being made.

1- Using the same TRB path as *water: run 1*

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$ 22/23)	795.50	811.41	819.52	827.72	836.00	844.36	852.80	852.80	852.80	852.80	869.86	887.25	905.00	905.00	905.00
Increase (%)	-	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	2.0%	2.0%	2.0%	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	923.10	941.56	941.56	941.56	941.56	941.56	960.39	979.60
Increase (%)	-	-	-	-	-	-	-	-	2.0%	2.0%	-	-	-	-	2.0%	2.0%

18	Developer charge no increase- Pec	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53	
Cash and Investments (\$'000)			18876	1507	454	-1321	-257	-991	-1630	-1696	-530	-2777	-8394	-12900	-12174	-8659	-4837	-1636	1295	7328	17040	16684	16656	27862	39748	37227	36714	48810	59068	74361	91738	92777	119729	
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17169	17169
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319	
Total New Loans Required (\$'000)			0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Residential Bills (\$)			760	775	785	794	802	811	821	821	822	822	839	858	875	876	877	877	877	877	878	879	879	880	881	881	899	918	918	920	919	920	938	958
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980

2- TRB path to approximate cash and investments from *water: run 1* (to get uplift on TRB with keeping developer charges constant)

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	795.5	816.18	829.24	842.51	855.99	869.69	883.60	883.60	883.60	883.60	906.57	930.15	954.33	954.33	954.33
Increase (%)	-	2.6%	1.6%	1.6%	1.6%	1.6%	1.6%	-	-	-	2.6%	2.6%	2.6%	-	-
Increase from <i>water: run 1</i>	-	0.6%	0.6%	0.6%	0.6%	0.6%	0.6%	-	-	-	0.6%	0.6%	0.6%	-	-

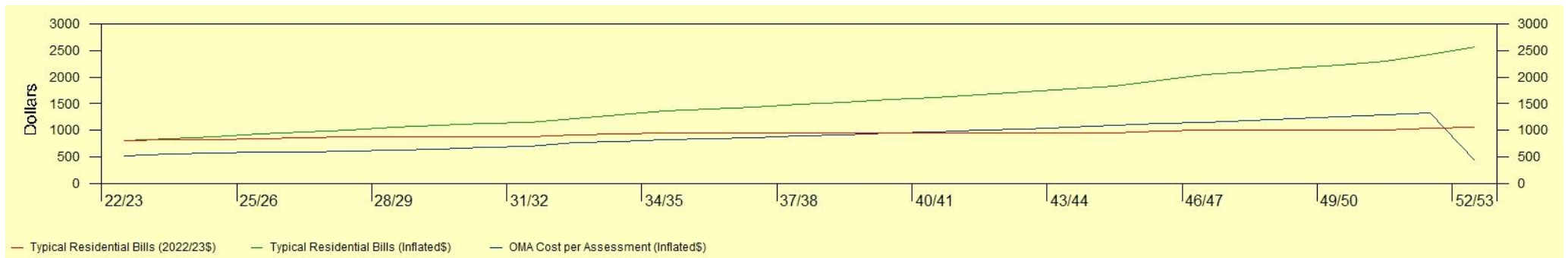
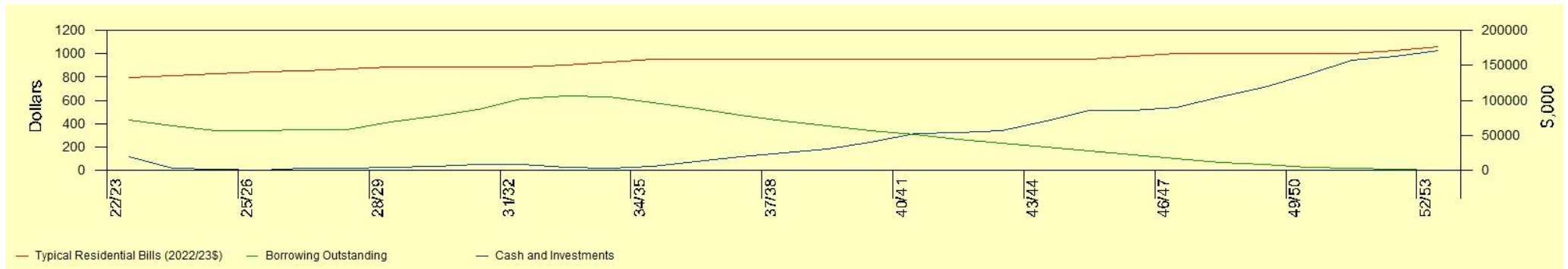
Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	954.33	954.33	954.33	954.33	954.33	954.33	954.33	954.33	979.14	1004.60	1004.60	1004.60	1004.60	1004.60	1030.72	1057.52
Increase (%)	-	-	-	-	-	-	-	-	2.6%	2.6%	-	-	-	-	2.6%	2.6%
Increase from <i>water: run 1</i>	-	-	-	-	-	-	-	-	0.6%	0.6%	-	-	-	-	0.6%	0.6%

Uplift in TRB per year if developer charges kept constant at \$6,977

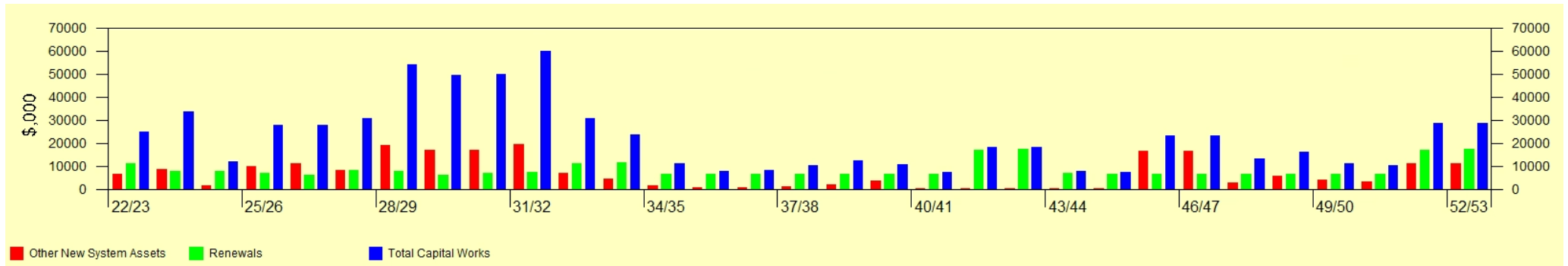
Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Uplift in TRB (\$22/23)	-	4.77	9.72	14.79	19.99	25.33	30.80	30.80	30.80	30.80	36.72	42.89	49.33	49.33	49.33

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Uplift in TRB (\$22/23)	49.33	49.33	49.33	49.33	49.33	49.33	49.33	49.33	56.04	63.04	63.04	63.04	63.04	63.04	70.33	77.92

18	Developer charge no increase- Pec	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	1744	1115	86	2162	2822	3831	5433	8273	7722	4218	2187	5767	12118	18743	24714	30423	39224	51687	54094	56802	70744	85361	85963	89002	104636	118383	137167	158001	163011	170891
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	2000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	780	794	808	822	837	852	851	853	852	877	899	924	924	925	926	926	927	927	928	928	929	929	954	980	981	981	981	982	1008	1035
Typical Residential Bills (\$)			796	816	829	843	856	870	884	884	884	884	907	930	954	954	954	954	954	954	954	954	954	954	954	979	1005	1005	1005	1005	1005	1031	1058



Please note we have troubleshoot the OMA coast per assessment dropping at 52/52 and are unable to resolve. Please ignore the drop in OMA in the final year.



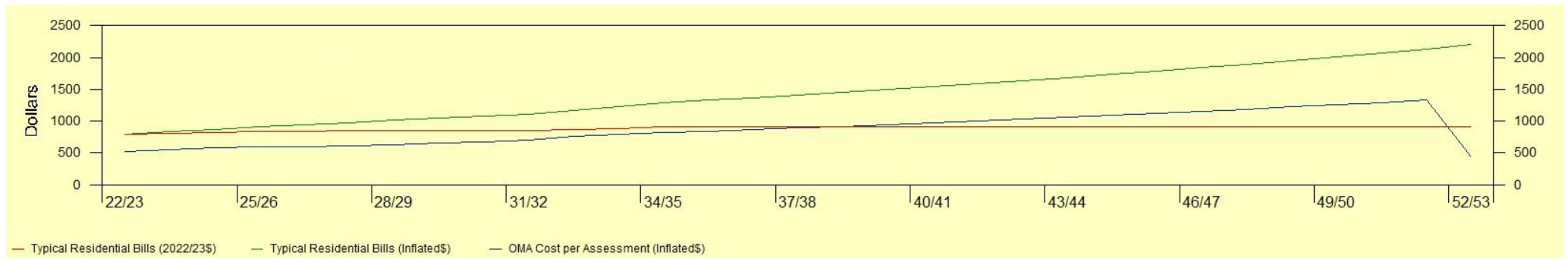
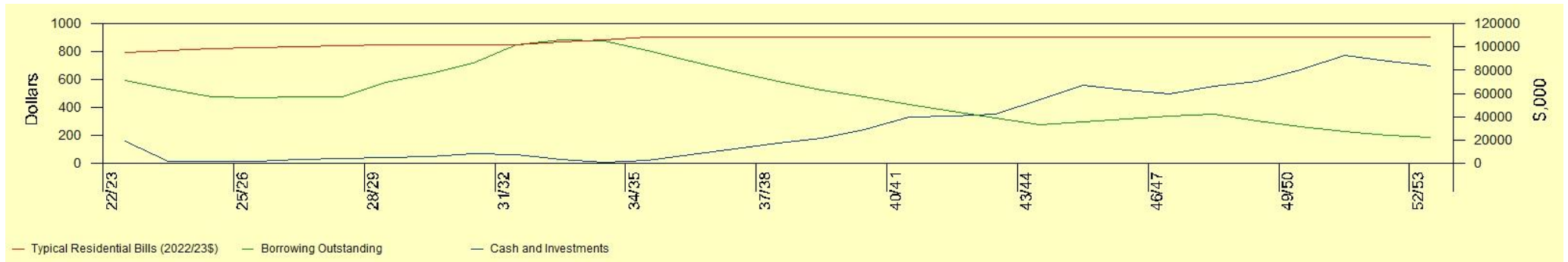
Water: Run 6- Peg Leg Creek Dam climate secure scenario	
Variable changed:	Adding in capital and operating costs for climate independent supply towards the end of the 30-year period (2045)
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Peg Leg Creek Dam for the Manning Scheme • Construction of a climate independent supply towards the end of the 30-year period (2045) after Peg Leg Creek Dam built • Off-stream storages for Gloucester, Stroud and Bulahdelah • Expansion of recycled water for unrestricted public access at Taree Rec Grounds
Comments	1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position and impact on TRB if a climate independent solution (purified recycled water) is required to be constructed within the 30-year period (after Peg Leg Creek Dam is constructed) and investigate the impact to Council's financial position and TRB. 2- Assumptions for inputs into the long-term financial plan: • \$80 million dollar project, split evenly across water and sewer funds • 25% government funding for project, split evenly across water and sewer funds • Project delivered from 44/45 to 47/48 3- Using the same TRB path as <i>water: run 1</i> provides positive cash and investments for the period of construction and running of the purified recycled water scheme, with the level of borrowings in the Finmod output below. It also indicates that Council has the opportunity to vary the level of internal funding for the project and/or amount of borrowings to deliver the project, based on the cash and investments for the years 44/45 to 47/48.

1- Using the same TRB path as *water: run 1*

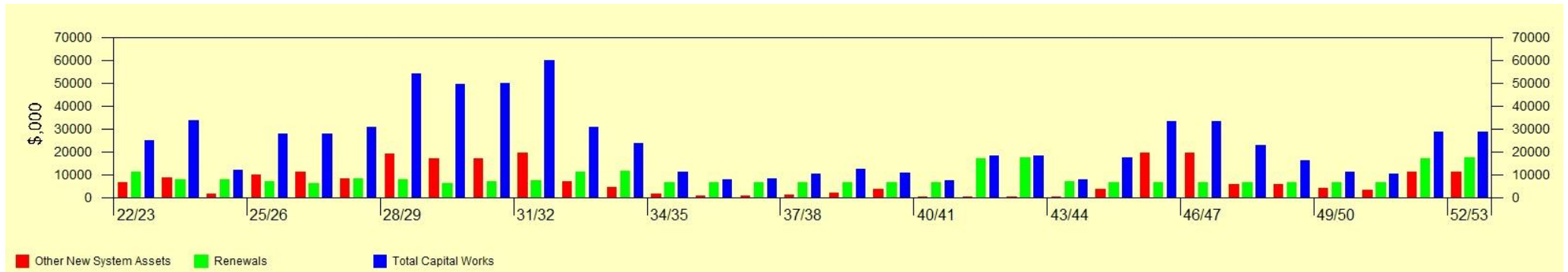
Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$ 22/23)	795.50	811.41	819.52	827.72	836.00	844.36	852.80	852.80	852.80	852.80	869.86	887.25	905.00	905.00	905.00
Increase (%)	-	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	2.0%	2.0%	2.0%	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	923.10	941.56	941.56	941.56	941.56	941.56	960.39	979.60
Increase (%)	-	-	-	-	-	-	-	-	2.0%	2.0%	-	-	-	-	2.0%	2.0%

19	Peg Leg + smaller dams climate se	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	1507	1645	1093	3409	3946	4605	5859	8349	7447	3235	193	2393	7356	12588	17164	21443	28822	39872	40847	42144	54664	67078	63212	59462	65987	70762	80695	92843	87599	83614
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	9635	25635	25635	14022	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	8750	8750	8750	8751	0	0	0	0	0
Average Residential Bills (\$)			760	775	785	794	802	811	821	821	822	822	839	858	875	876	877	877	877	878	879	879	880	881	881	882	882	883	883	884	884	884	884
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905



Please note we have troubleshot the OMA coast per assessment dropping at 52/52 and are unable to resolve. Please ignore the drop in OMA in the final year.



Water: Run 7- Increase in operational costs	
Variable changed:	Increase in yearly operational cost expenses from \$100,000 to \$500,000
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Peg Leg Creek Dam for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah • Expansion of recycled water for unrestricted public access at Taree Rec Grounds
Comments	1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position if there was an increase in operational spending for water. Increases in operational spending may be due to additional resources, increased chemical or energy costs, etc. 2- This was completed for operational increases between \$100,000 per year up to \$500,000 per year, for all years, using the same TRB path as <i>water: run 1</i> . 3- The outputs from Finmod indicate that as operational spending is increased, the cash and investment position becomes negative in several years (25/26 and 32/33-34/35 with an extra \$500,000 spending per year). Iterations were completed to reduce the amount of internal funding for new works, if the increase \$500,000 operational spending per year was adopted. This shows that cash and investments remain positive with reducing internal funding in years 25/26 and 30/31 to 34/35. 4- It also indicates that Council has the opportunity to vary the level of internal funding for the project and/or amount of borrowings to deliver the project, based on the cash and investments for the years 44/45 to 47/48. 5- This indicates the TRB price path is suffice for funding these additional operational costs.

1- Using the same TRB path as *water: run 1*

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$ 22/23)	795.50	811.41	819.52	827.72	836.00	844.36	852.80	852.80	852.80	852.80	869.86	887.25	905.00	905.00	905.00
Increase (%)	-	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	2.0%	2.0%	2.0%	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	923.10	941.56	941.56	941.56	941.56	941.56	960.39	979.60
Increase (%)	-	-	-	-	-	-	-	-	2.0%	2.0%	-	-	-	-	2.0%	2.0%

Additional \$100,000 operational spending per year

20		Peg Leg & smaller dams operation:	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53	
Cash and Investments (\$'000)				18876	1404	1438	782	2993	3424	3977	5124	7506	6498	2179	-969	1126	5984	11113	15587	19765	27045	37998	38878	40081	52508	65606	64289	64966	78245	89671	106118	124637	126802	131420	
New Works less Cap. Works Grants (\$'000)				13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465	
Internal Funding for New Works (\$'000)				13904	17783	2401	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465	
Renewals (\$'000)				11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6529	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319	
Internal Funding for Renewals (\$'000)				11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)				0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Residential Bills (\$)				760	775	785	794	802	811	821	821	822	839	858	875	876	877	877	877	877	878	879	879	880	881	881	881	881	881	881	881	881	881	881	
Typical Residential Bills (\$)				796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980

Additional \$200,000 operational spending per year

20	Peg Leg & smaller dams operations	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	1302	1233	470	2576	2901	3348	4388	6663	5549	1123	-2141	-157	4596	9622	13994	18071	25252	36108	36892	38001	50337	63344	61939	62531	75726	87071	103438	121881	123971	128516
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	775	785	794	802	811	821	821	822	822	839	858	875	876	877	877	877	878	879	879	880	881	881	899	918	918	920	919	920	938	958
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980

Additional \$300,000 operational spending per year

20	Peg Leg & smaller dams operations	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	1200	1027	161	2162	2380	2720	3653	5822	4600	68	-3314	-1448	3202	8124	12394	16371	23453	34210	34899	35914	48157	61075	59582	60088	73200	84464	100752	119118	121134	125607
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	775	785	794	802	811	821	821	822	822	839	858	875	876	877	877	877	878	879	879	880	881	881	899	918	918	920	919	920	938	958
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980

Additional \$400,000 operational spending per year

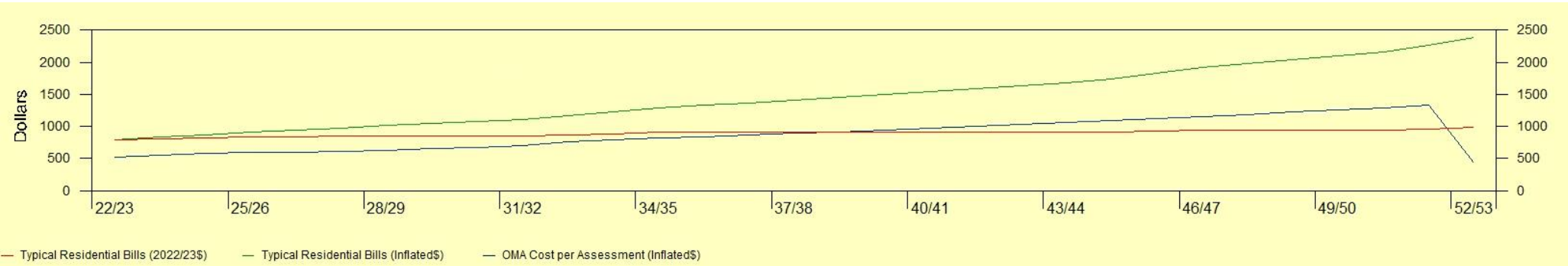
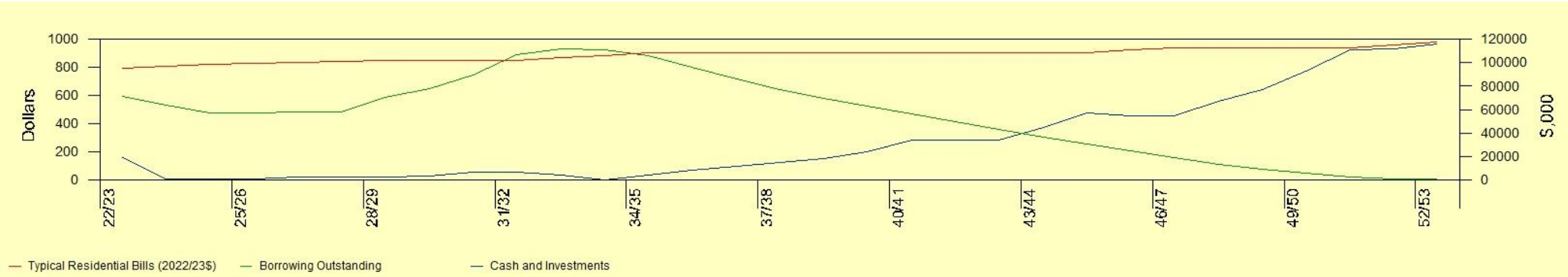
	Peg Leg & smaller dams operation	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53	
Cash and Investments (\$'000)			18876	1098	822	-149	1745	1857	2091	2917	4978	3650	-989	-4489	-2742	1804	6624	10793	14669	21652	32313	32906	33827	45979	58807	57226	57646	70675	81856	98066	116354	118295	122696	
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465	
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465	
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319	
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319	
Total New Loans Required (\$'000)			0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Residential Bills (\$)			760	775	785	794	802	811	823	821	822	822	839	858	875	876	877	877	877	877	878	879	879	880	881	881	899	918	918	920	919	920	938	958
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980	

Additional \$500,000 operational spending per year

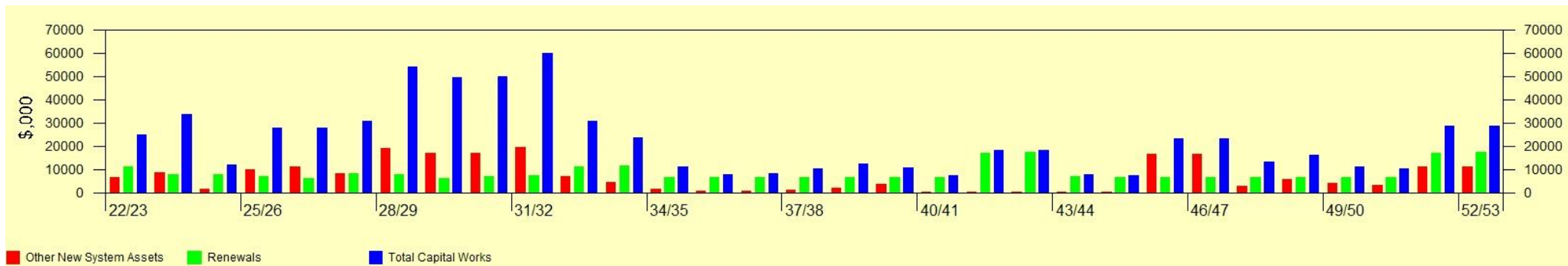
20	Peg Leg & smaller dams operations	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	995	616	-440	1347	1351	1476	2193	4186	2787	-1926	-5537	-3836	575	5273	9322	13080	19946	30492	30973	31784	43829	56551	54869	55191	68123	79212	95330	113533	115393	119718
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	775	785	794	802	811	822	821	822	822	839	858	875	876	877	877	877	878	879	879	880	881	881	899	918	918	920	919	920	938	958
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	960	980	

Final iteration of reducing the amount of internal funding for new works, if the increase to an additional \$500,000 operational spending per year was adopted. This shows that cash and investments remain positive with reducing internal funding in years 25/26 and 30/31 to 34/35.

20	Peg Leg & smaller dams operations	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	995	616	473	2186	2117	2168	2813	6563	6764	3494	118	4189	7762	11630	14867	17830	23922	33716	33464	33564	44919	56976	54698	54445	66826	77385	92994	110804	112384	116537
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	4000	5000	5000	5000	5000	0	0	0	0	0	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	7250	6919	5912	18330	15030	19682	26831	15302	9677	4535	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	775	785	794	802	811	821	821	822	822	839	858	875	876	877	877	877	878	879	879	880	881	881	899	918	918	920	919	920	938	958
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980



Please note we have troubleshot the OMA cost per assessment dropping at 52/52 and are unable to resolve. Please ignore the drop in OMA in the final year.



Water: Run 8- Change in TRB path															
Variable changed:								TRB path – less bill increases in the final 20 years							
Details								This includes: • Spending for <i>'The Everyday Scenario'</i> • Peg Leg Creek Dam for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah • Expansion of recycled water for unrestricted public access at Taree Rec Grounds							
Comments								1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position by changing the TRB price path from <i>water: run 1</i> . 2- Removing TRB increases in years' 31/32-33/34, 36/37, 45/46-46/47 and 51/52-52/53 resulted in a negative cash and investments for 33/34 – 35/36. 3- Adding back in 2% rises in years 31/32-33/34 resulted in a positive cash and investment position for all years. This indicates the TRB can remain constant from 33/34, after delivery of Manning, Gloucester and Bulahdelah water security solutions ("remaining constant" still includes some increases due to inflation).							

1- Removing TRB increases in years 31/32-33/34, 36/37, 45/46-46/47 and 51/52-52/53

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	795.50	811.41	819.52	827.72	836.00	844.36	852.80	852.80	852.80	852.80	852.80	852.80	852.80	852.80	852.80
Increase (%)	-	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	-	-	-	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	852.80	852.80	852.80	852.80	852.80	852.80	852.80	852.80	852.80	852.80	852.80	852.80	852.80	852.80	852.80	852.80
Increase (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

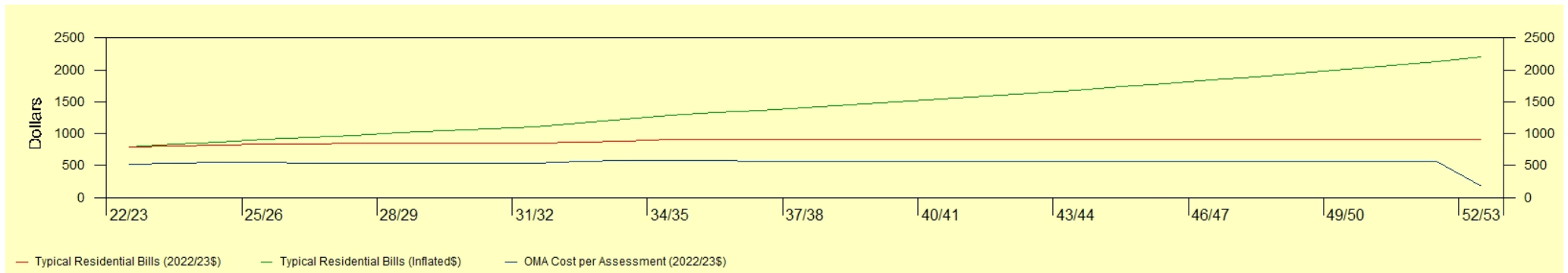
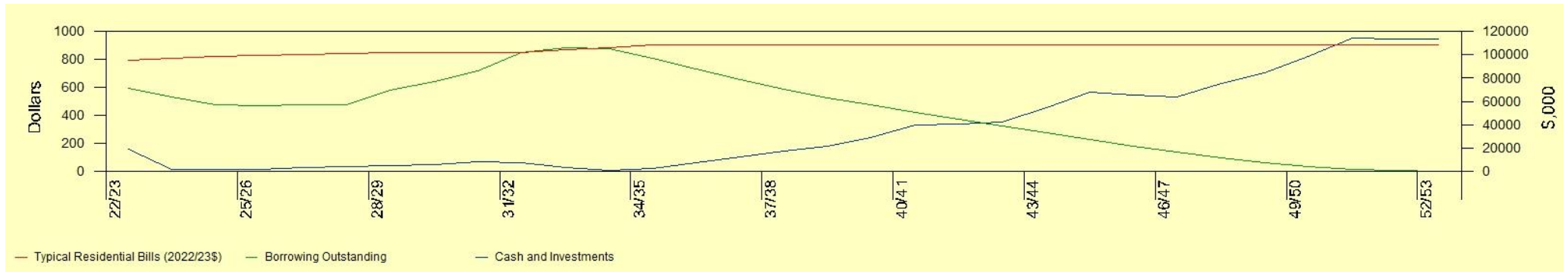
21	Pref- Peg Leg + Dams TRB flat after	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	1552	1645	1048	3364	3943	4562	5815	8263	7361	2250	-2634	-3231	-1113	1259	2967	4341	8821	16949	14987	13338	22909	33184	27958	23608	31879	38269	49718	63259	59342	80046
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	776	784	793	802	812	820	821	821	822	823	823	824	825	826	826	827	828	828	828	828	828	829	830	830	831	831	831	832	833	833
Typical Residential Bills (\$)			795.5	811	820	828	836	844	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853	853

2- Adding back in 2% rises in years 31/32-33/34

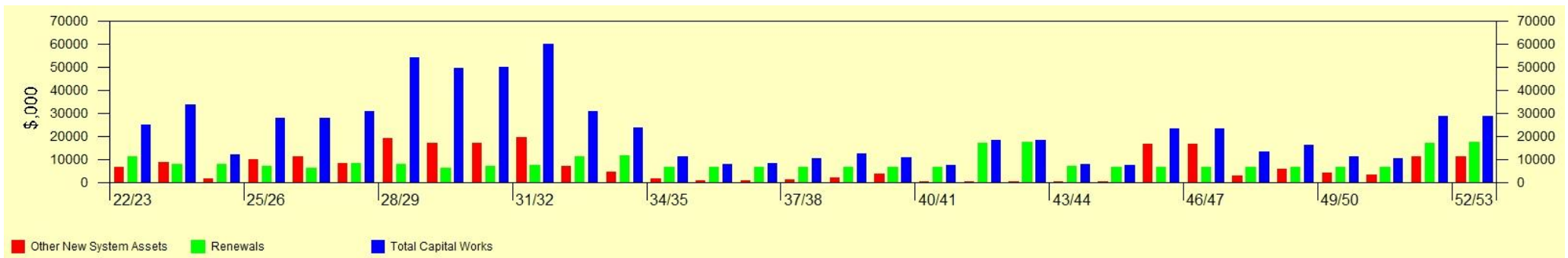
Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	795.50	811.41	819.52	827.72	836.00	844.36	852.80	852.80	852.80	852.80	869.86	887.25	905.00	905.00	905.00
Increase (%)		2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	2.0%	2.0%	2.0%	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00
Increase (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

21	Pref- Peg Leg + Dams TRB flat afft	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
	Cash and Investments (\$'000)		18876	1507	1645	1093	3409	3946	4605	5859	8349	7447	3235	193	2393	7356	12588	17164	21443	28822	39872	40647	42144	54664	67852	65506	63996	75088	84302	98546	114875	113681	113614
	New Works less Cap. Works Grants (\$'000)		13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
	Internal Funding for New Works (\$'000)		13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
	Renewals (\$'000)		11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	17169	17319
	Internal Funding for Renewals (\$'000)		11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	17169	17319
	Total New Loans Required (\$'000)		0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Average Residential Bills (\$)		760	775	785	794	802	811	821	821	822	822	839	858	875	876	877	877	877	878	879	879	880	881	881	881	882	882	883	883	884	884	884
	Typical Residential Bills (\$)		796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905



Please note we have troubleshot the OMA coast per assessment dropping at 52/52 and are unable to resolve. Please ignore the drop in OMA in the final year.



Water: Run 9- Developer charge increase to \$9,570 but remove inflation increases	
Variable changed: Developer charges from 24/25 onwards (\$)	Water developer charge of \$9,570 reduced by 3% yearly to take out inflation from 38/39 onwards
Details	This includes: • Spending for '<i>The Everyday Scenario</i>' • Peg Leg Creek Dam for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah • Expansion of recycled water for unrestricted public access at Taree Rec Grounds
Comments	1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position and impact on TRB if developer charges are increased to \$9,570 but do not increase with inflation from 38/39 onwards. This was the year where cash and investments become positive in the scenario where developer charges are kept constant at \$6,977 (see <i>water: run 5</i>). 2- This demonstrated a small reduction on the level of cash and investments at 53 (\$16,720,000 reduction in cash and investments from <i>water: run 1</i>) compared to developer charges increasing with inflation from 38/39 onwards. However, changes to water developer charges require a full review within the next few years. This will be completed through revision of servicing strategies and development servicing plans.

1- Using the same TRB path as *water: run 1*

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$ 22/23)	795.50	811.41	819.52	827.72	836.00	844.36	852.80	852.80	852.80	852.80	869.86	887.25	905.00	905.00	905.00
Increase (%)	-	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	2.0%	2.0%	2.0%	-	-

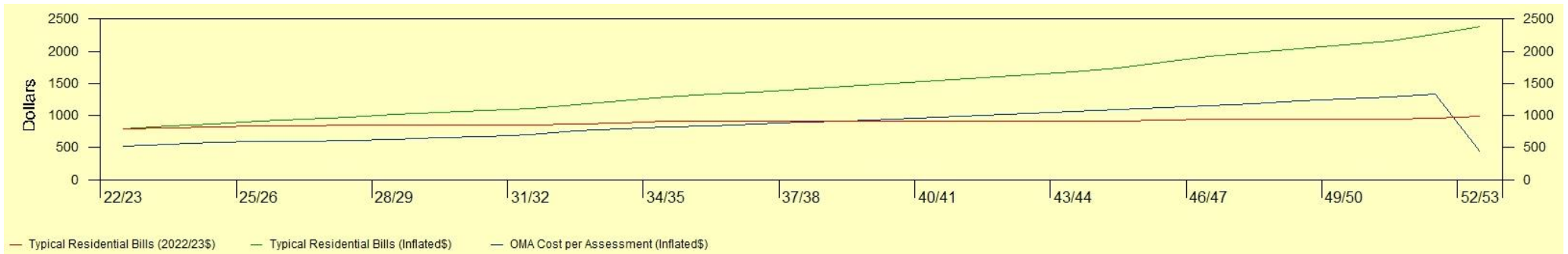
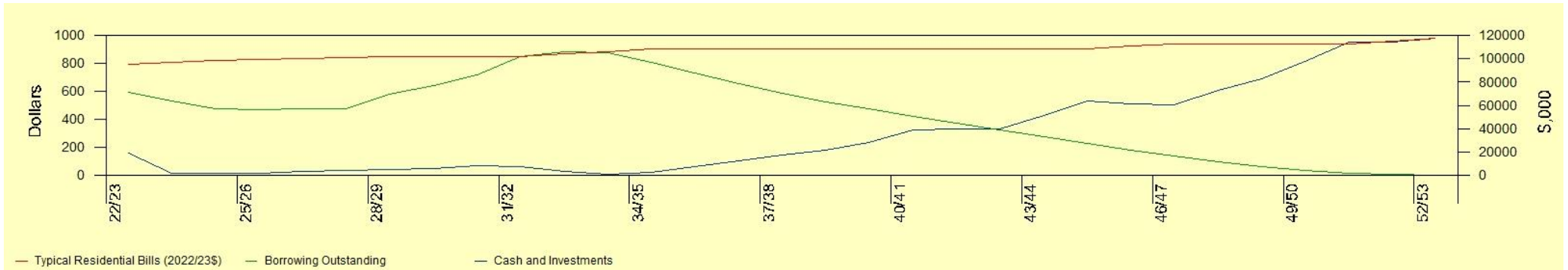
Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	923.10	941.56	941.56	941.56	941.56	941.56	960.39	979.60
Increase (%)	-	-	-	-	-	-	-	-	2.0%	2.0%	-	-	-	-	2.0%	2.0%

Developer charges

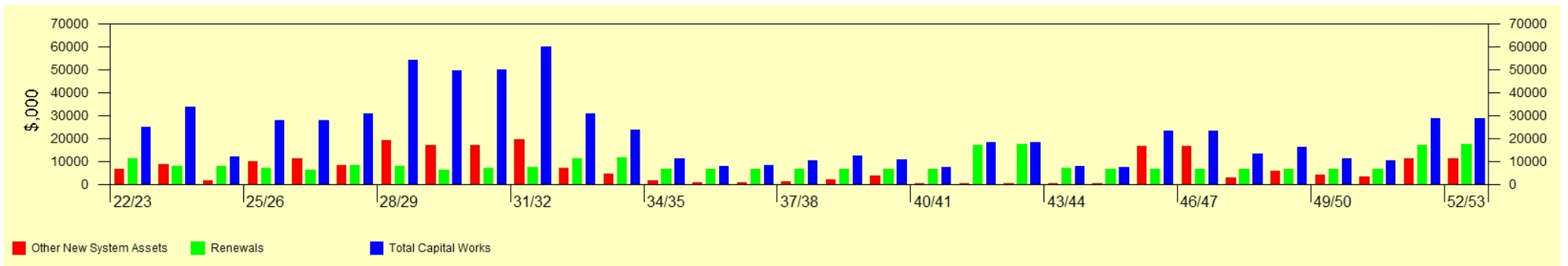
Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Developer Charge (\$ 22/23)	6645	6977	9570	9570	9570	9570	9570	9570	9570	9570	9570	9570	9570	9570	9570
Decrease (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Developer Charge (\$ 22/23)	9570	9283	9004	8734	8472	8218	7972	7732	7500	7275	7057	6845	6640	6441	6248	6060
Decrease (%)	-	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%

23	Peg Leg+Dams developer charge -	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
	Cash and Investments (\$'000)		18876	1507	1645	1093	3409	3946	4605	5859	8349	7447	3235	193	2393	7356	12588	17164	21292	28368	38970	39351	39910	51553	63728	61352	60841	72799	82782	97666	114503	114875	117589
	New Works less Cap. Works Grants (\$'000)		13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
	Internal Funding for New Works (\$'000)		13904	17783	2401	5000	5000	5000	5000	5000	2000	2000	2000	800	3212	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
	Renewals (\$'000)		11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
	Internal Funding for Renewals (\$'000)		11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
	Total New Loans Required (\$'000)		0	0	0	6250	6919	5912	18330	15030	17681	24830	13302	8877	1323	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Average Residential Bills (\$)		760	775	785	794	802	811	821	821	822	822	839	858	875	876	877	877	877	878	879	879	880	881	881	899	918	918	920	919	920	938	958
	Typical Residential Bills (\$)		796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	923	942	942	942	942	942	960	980



Please note we have troubleshot the OMA coast per assessment dropping at 52/52 and are unable to resolve. Please ignore the drop in OMA in the final year.



Water: Run 10- Water price path based on outcomes from runs 1 - 9	
Variable changed:	From water: run 8- the TRB remains constant from 33/34 (after delivery of Manning, Gloucester and Bulahdelah water security solutions). From water: run 9- developer charges at \$9,570 reduced by 3% yearly to take out inflation from 38/39 onwards From water: run 7- Additional 500k operational spend per year
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Peg Leg Creek Dam for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah
Comments	1- The purpose of this was to model Council's preferred price path for water. 2- This demonstrates Council's financial position for the water business for the preferred water scenario. 3- Council's IWCN strategy adaptive plan may include emergency desalination, depending on circumstances. This preferred water price path allows some contingency for this. 4- This run demonstrates that small increases of 1 -2 % above inflation to the water fees and charges are required in the short term (years 2024-2029 and years 2033-2035 as shown below). It should be noted that these increases can be offset by decreases in the sewer fees and charges (refer to Sewer: Run 10 and Error! Reference source not found. - <i>Comparison of TRB for preferred water and sewer price paths</i>). 5- This run demonstrates that an increase to the water developer charges is required in the short term (once the DSP is complete) but that it will not need to be increased in line with inflation beyond 2038/39, based on current capital works estimates over the 30 years. 6- This run demonstrates that operational cost increases of up to \$500k per year are affordable. Increases in operational spending may be required due to the need for additional resources, increased chemical or energy costs, etc.

1- Using the same TRB path as *water: run 8*

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	795.50	811.41	819.52	827.72	836.00	844.36	852.80	852.80	852.80	852.80	869.86	887.25	905.00	905.00	905.00
Increase (%)		2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	2.0%	2.0%	2.0%	-	-

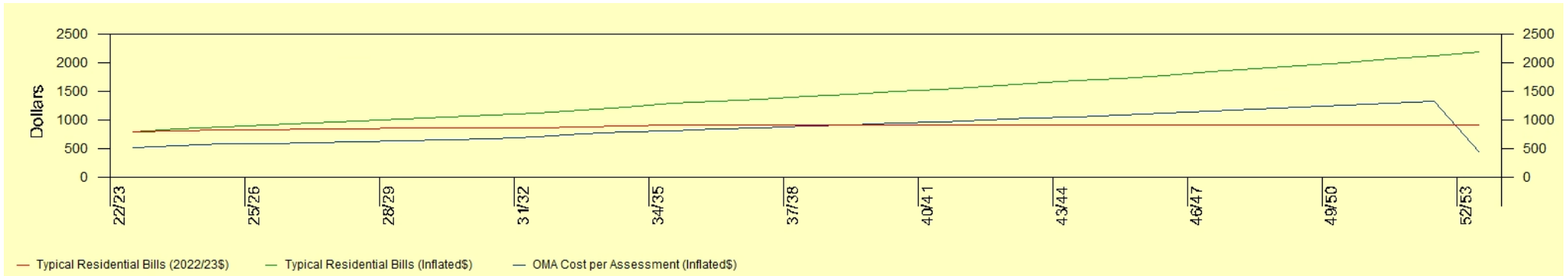
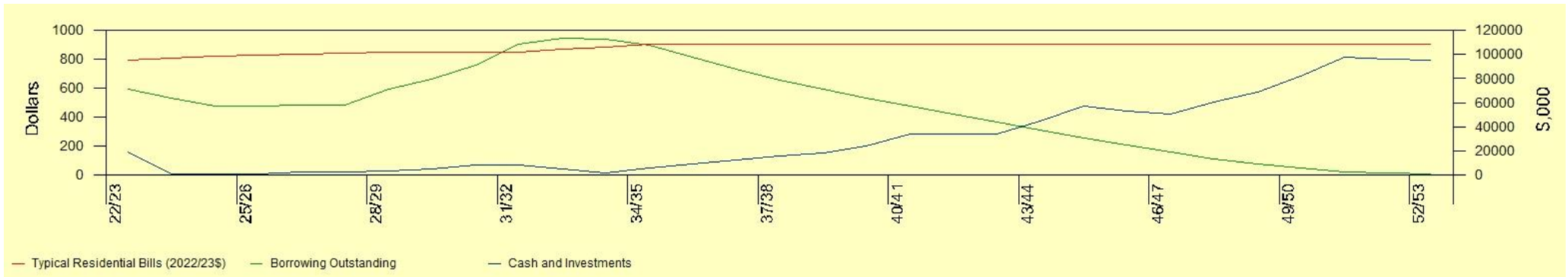
Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00	905.00
Increase (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2- Using the same developer charge path as *water: run 9*

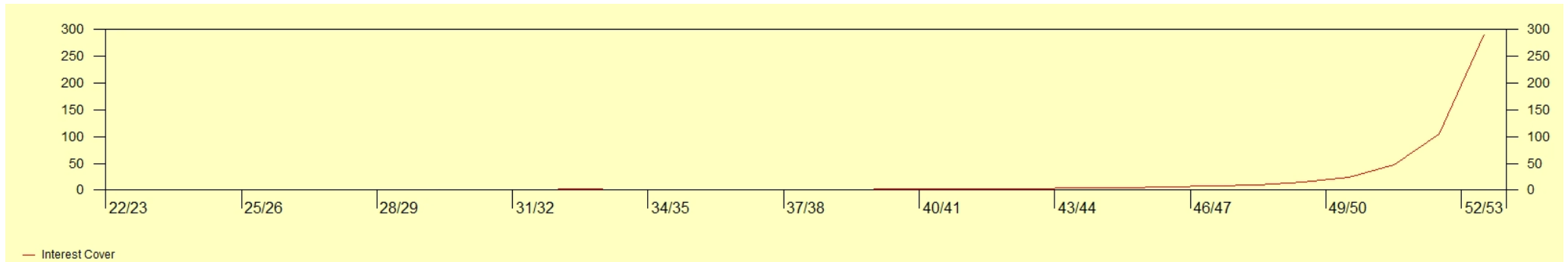
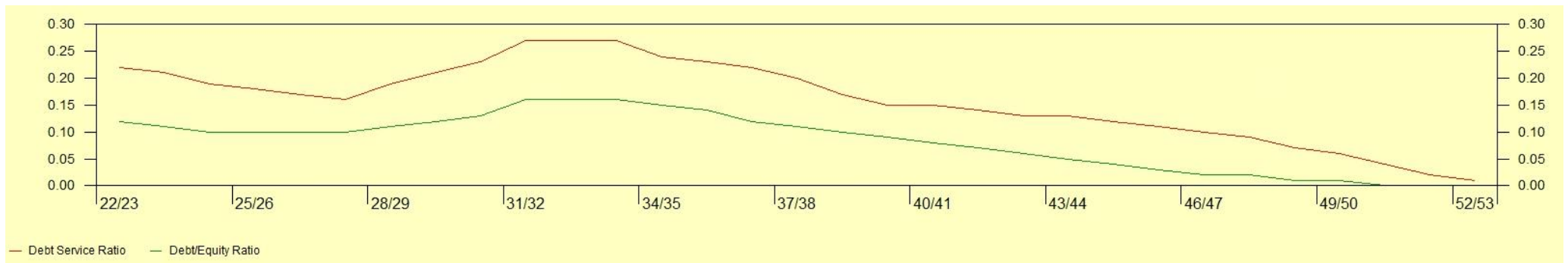
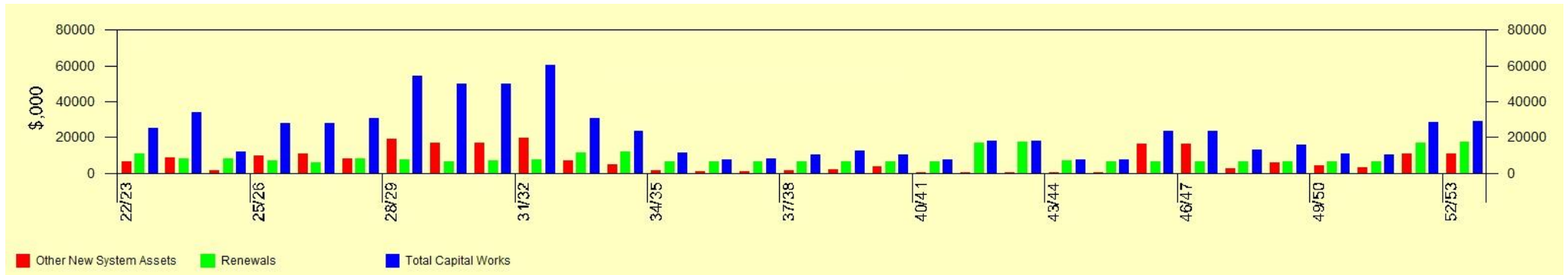
Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Developer Charge (\$ 22/23)	6645	6977	9570	9570	9570	9570	9570	9570	9570	9570	9570	9570	9570	9570	9570
Decrease (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

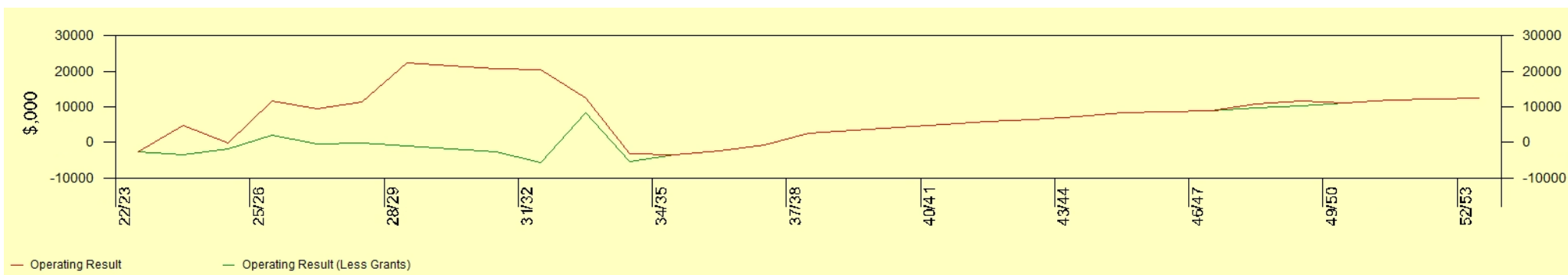
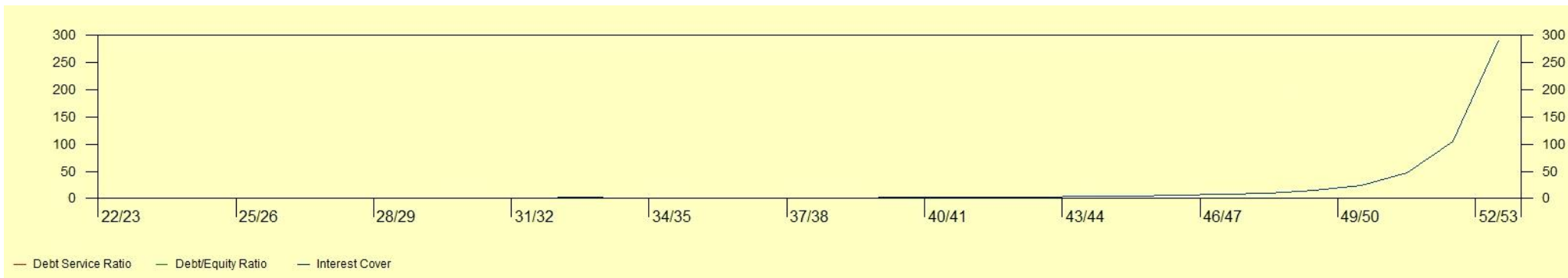
Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Developer Charge (\$ 22/23)	9570	9283	9004	8734	8472	8218	7972	7732	7500	7275	7057	6845	6640	6441	6248	6060
Decrease (%)	-	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%

26	Final preferred w operational increa	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			18876	995	616	473	2186	2117	3083	4564	8158	8205	4784	1260	5183	8613	12342	15443	18274	24238	33906	33533	33516	44757	56704	53205	50576	60589	68809	82141	97691	95842	95245
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			13904	17783	2401	4000	5000	5000	4000	4000	0	0	0	0	0	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			0	0	0	7250	6919	5912	19330	16030	19682	26831	15302	9677	4535	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	775	785	794	802	811	821	821	822	822	839	858	875	876	877	877	877	878	879	879	880	881	881	881	882	882	883	883	884	884	884
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905



Please note we have troubleshot the OMA cost per assessment dropping at 52/52 and are unable to resolve. Please ignore the drop in OMA in the final year.



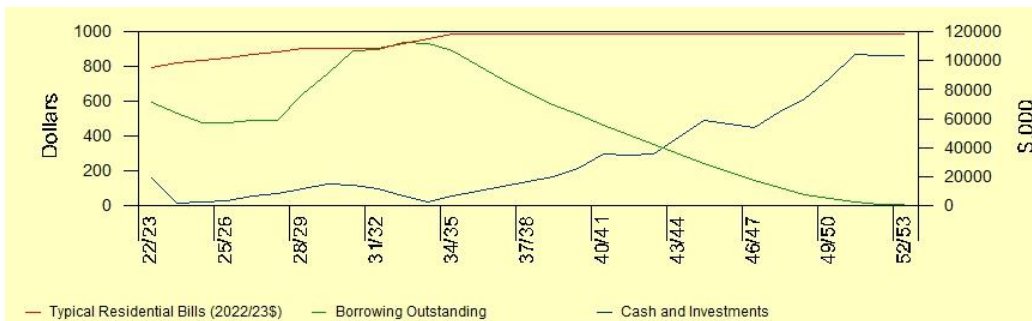


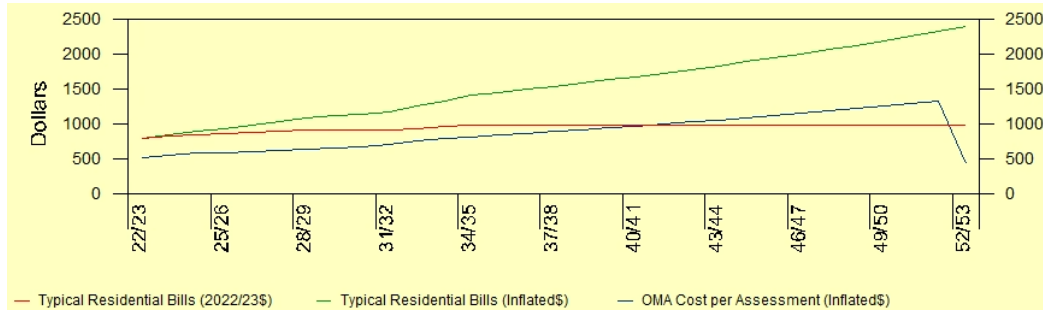
Water: Run 11- Rerun of Desalination Plant for the Manning for water scenario for water: run 10	
Variable changed:	Capital and operating costs for a Desalination Plant, instead of Peg Leg Creek Dam, for the preferred water scenario (water: run 10)
Details	This includes: • Spending for 'The Everyday Scenario' • Desalination Plant for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah • Expansion of recycled water for unrestricted public access at Taree Rec Grounds
Comments	2- The purpose of this sensitivity analysis was to determine the increase to the TRB if a desalination plant was adopted for the Manning. Using the same TRB path as <i>water: run 10</i> provides negative cash and investments. TRB rises were increased by 0.1 of a percentage until the cash and investments line were positive and close to the cash and investments from run 1. This was achieved with a 1% increase on top of each TRB step. Iterations demonstrated an extra 1% increase on top of the TRB steps is required to account for the extra costs (capital and operating) from a desalination plant. Over the 30-year period, each connection would pay an extra \$2,053.90 (in \$22/23 dollars) for desalination.

3- TRB path to approximate cash and investments from *water: run 10* (to get uplift on TRB from Desalination Plant compared to Peg Leg Creek Dam)

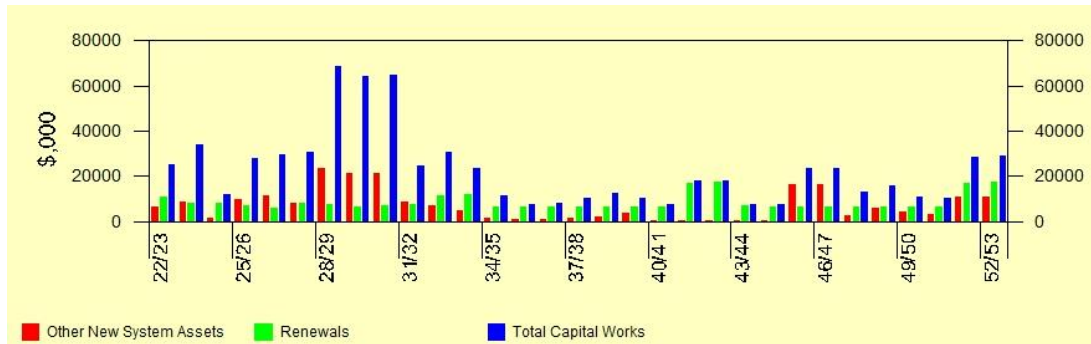
Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	795.50	819.37	835.75	852.47	869.52	886.91	904.65	904.65	904.65	904.65	931.78	959.74	988.53	988.53	988.53
Increase (%)	-	3.0%	2.0%	2.0%	2.0%	2.0%	2.0%	-	-	-	3.0%	3.0%	3.0%	-	-
Increase from <i>water: run 10</i>	-	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	1.0%	1.0%	1.0%	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	988.53	988.53	988.53	988.53	988.53	988.53	988.53	988.53	988.53	988.53	988.53	988.53	988.53	988.53	988.53	988.53
Increase (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Increase from <i>water: run 10</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-





Please note we have troubleshot the OMA coast per assessment dropping at 52/52 and are unable to resolve. Please ignore the drop in OMA in the final year.



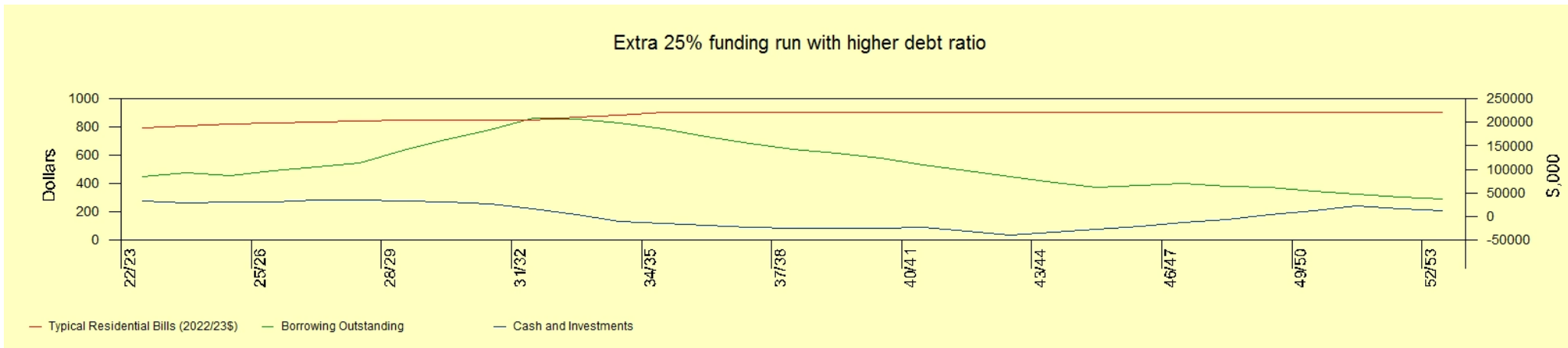
Uplift in TRB per year for a Desalination Plant (instead of Peg Leg Creek Dam)

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Uplift in TRB (\$22/23)	-	7.96	16.23	24.75	33.52	42.55	51.85	51.85	51.85	51.85	61.93	72.48	83.53	83.53	83.53

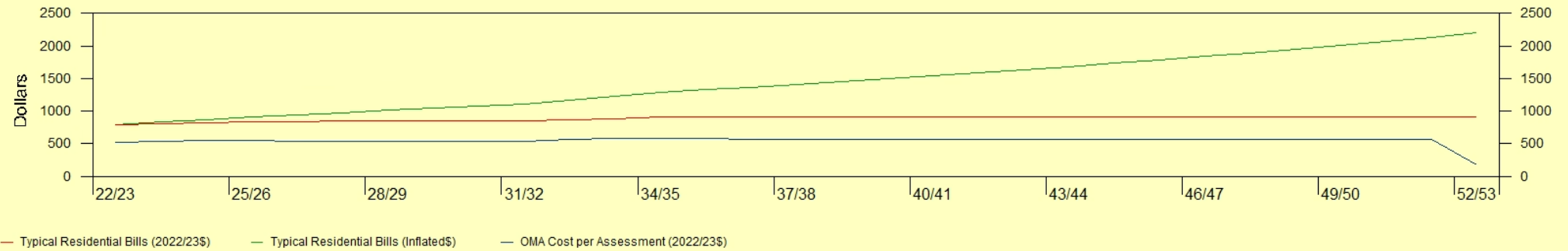
Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Uplift in TRB (\$22/23)	83.53	83.53	83.53	83.53	83.53	83.53	83.53	83.53	83.53	83.53	83.53	83.53	83.53	83.53	83.53	83.53

Water: Run 12- Peg Leg Creek Dam with 25% government funding- with increased borrowings	
Variable changed: Government funding level for Manning scheme water security option (%)	25% government funding for Peg Leg off-stream storage dam (instead of 66%)
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Peg Leg Creek Dam for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah
Comments	1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position through borrowings (keeping the TRB constant) if government funding for the Peg Leg Off Stream Storage Dam is 25%. Using the same TRB path as preferred water TRB path- water: run 10 and increased borrowings to aim for a positive cash and investments. 2- When assessing increasing water fees and charges, it is important to consider that the MidCoast LGA has a higher proportion of people on low incomes compared to the state average (41.0% on a low income compared to the state average of 33.7%, https://forecast.id.com.au/) 3- Government funding for Peg Leg Dam of anywhere between 25% and 66% will need appropriate increases in the typical residential bill. 4- This run demonstrated Council's financial position remains in a negative financial position with full borrowings, if the TRB is not also increased. This shows that a TRB Increase is not avoidable if funding levels are 25%

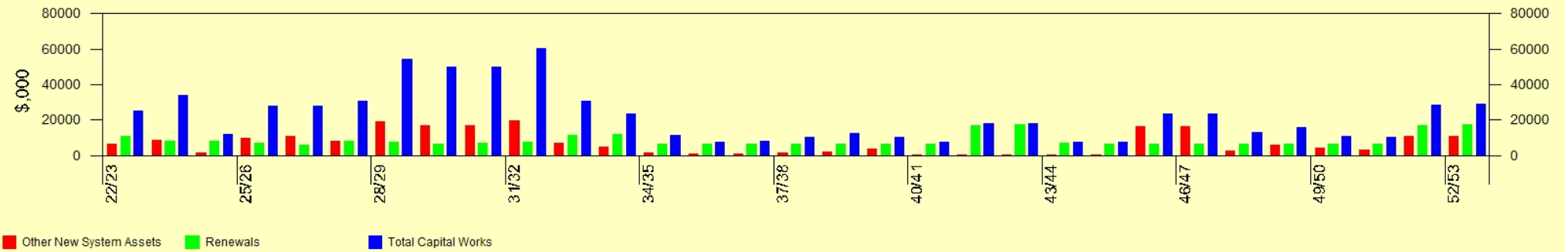
28	Extra 25% funding run with higher c	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			31550	29381	29444	30538	33608	33932	32777	30649	25426	15571	2493	-10497	-15851	-20268	-23870	-26064	-26486	-25810	-24302	-32623	-39693	-34339	-27883	-21158	-14231	-6267	3543	11280	22232	16756	12754
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	17400	18069	18077	37885	34585	34236	41386	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			13904	17783	2401	17400	18069	18077	37885	34585	34236	41386	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	0	0	0	0
Average Residential Bills (\$)			760	775	785	794	802	811	821	821	822	822	839	858	875	876	877	877	877	878	879	879	880	881	881	881	882	882	883	883	884	884	884
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905



Extra 25% funding run with higher debt ratio

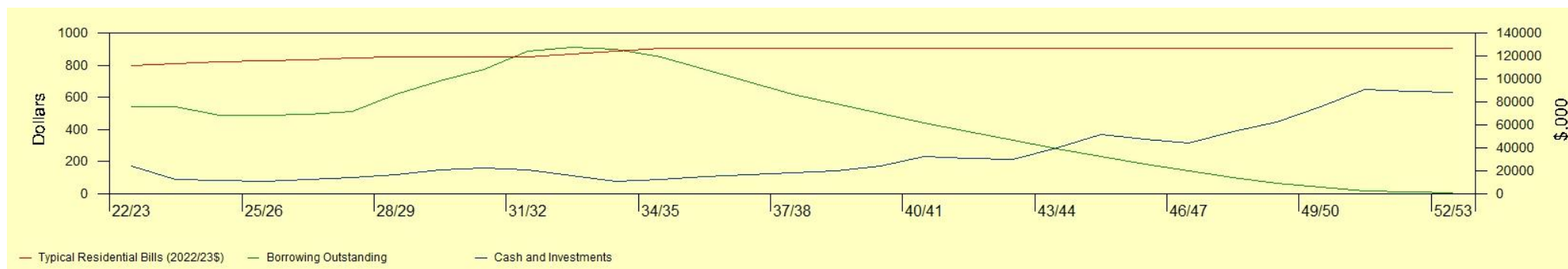


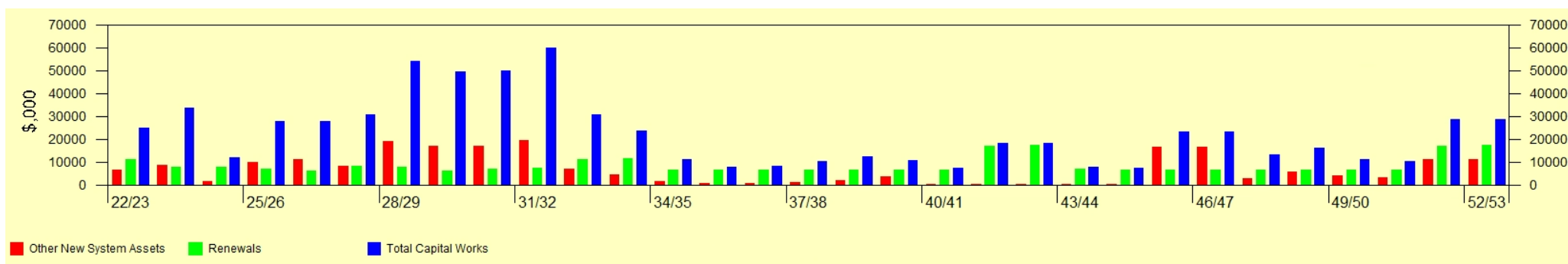
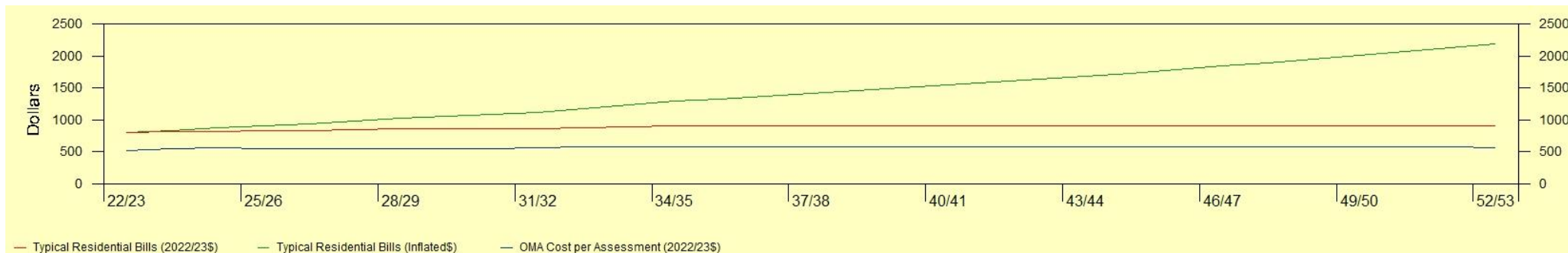
Extra 25% funding run with higher debt ratio



Water: Run 13- Water price path based on outcomes from runs 1 - 9	
Variable changed:	From water: run 8- the TRB remains constant from 33/34 (after delivery of Manning, Gloucester and Bulahdelah water security solutions). From water: run 9- developer charges at \$9,570 reduced by 3% yearly to take out inflation from 38/39 onwards From water: run 7- Additional 500k operational spend per year Keep cash and investments line above \$10,000,000
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Peg Leg Creek Dam for the Manning Scheme • Off-stream storages for Gloucester, Stroud and Bulahdelah
Comments	The purpose of this was to model Council's preferred price path for water. This demonstrates Council's financial position for the water business for the preferred water scenario. Council's IWC strategy adaptive plan may include emergency desalination, depending on circumstances. This preferred water price path allows some contingency for this. This run demonstrates that small increases of 1 -2 % above inflation to the water fees and charges are required in the short term (years 2024-2029 and years 2033-2035 as shown below). It should be noted that these increases can be offset by decreases in the sewer fees and charges (refer to Sewer: Run 10 and Error! Reference source not found. - <i>Comparison of TRB for preferred water and sewer price paths</i>). This run demonstrates that an increase to the water developer charges is required in the short term (once the DSP is complete) but that it will not need to be increased in line with inflation beyond 2038/39, based on current capital works estimates over the 30 years. This run demonstrates that operational cost increases of up to \$500k per year are affordable. Increases in operational spending may be required due to the need for additional resources, increased chemical or energy costs, etc. This run demonstrates that borrowings can be adjusted to keep cash and investments above \$10,000,000

26	Final preferred w operational incre	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			23457	12492	11188	10126	11863	14076	16612	20391	22227	20545	15425	10236	12531	14369	16545	18134	19492	24027	32313	30602	29533	40143	51482	47402	44267	53968	62040	75433	91045	89263	88736
New Works less Cap. Works Grants (\$'000)			13904	17783	2401	11250	11919	10912	23330	20030	19681	26831	15302	9677	4535	1285	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Internal Funding for New Works (\$'000)			9000	10000	2401	4000	4000	1500	1000	0	0	0	0	0	0	4935	1685	3725	5935	3965	885	885	885	885	885	16885	16885	5272	8372	4485	3585	11465	11465
Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Internal Funding for Renewals (\$'000)			11101	7821	7907	6799	5881	8279	7546	6246	7074	7462	11195	11679	6629	6529	6529	6579	6529	6529	6529	17169	17369	6879	6629	6529	6529	6579	6529	6529	6529	17169	17319
Total New Loans Required (\$'000)			4904	7783	0	7250	7919	9412	22330	20030	19682	26831	15302	9677	4535	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			760	775	785	794	802	811	821	821	822	822	839	858	875	876	877	877	877	878	879	879	880	881	881	881	882	882	883	883	884	884	884
Typical Residential Bills (\$)			796	811	820	828	836	844	853	853	853	853	870	887	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905	905



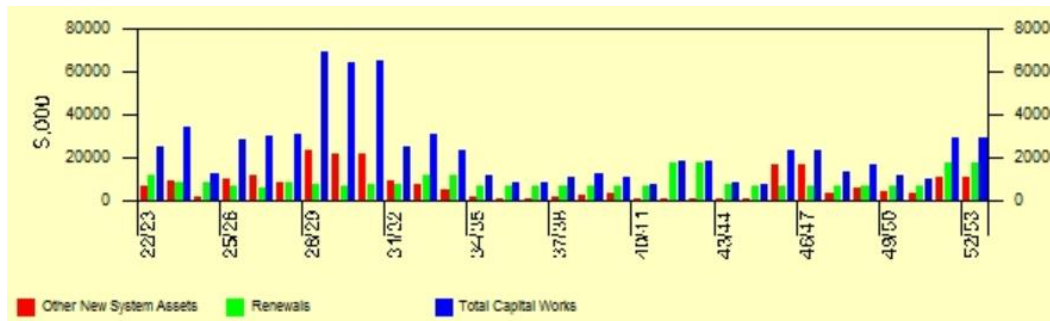
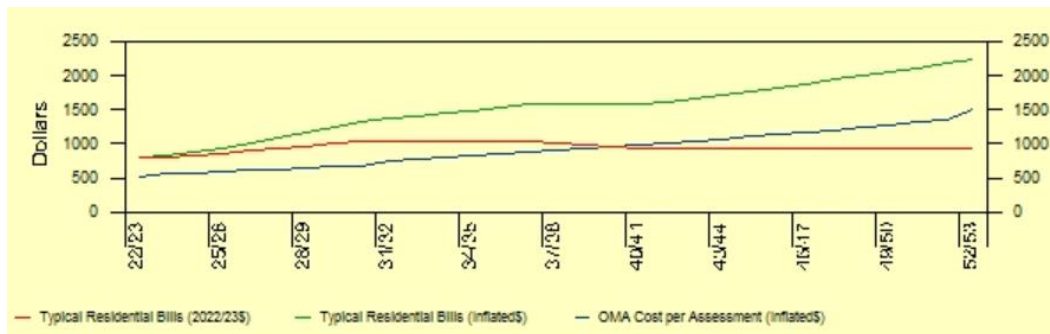
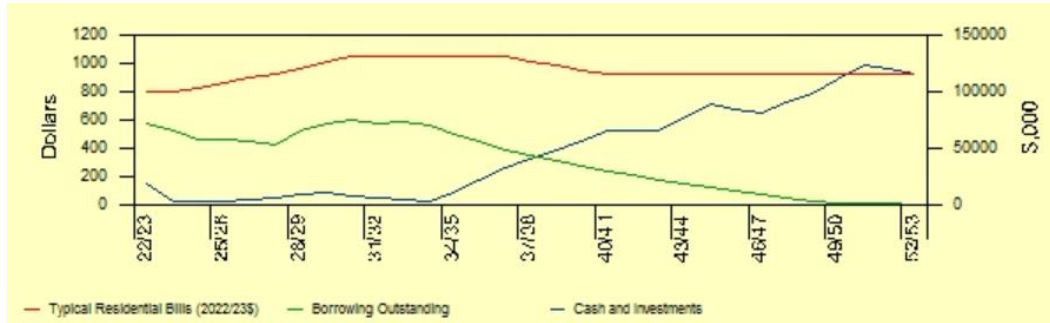


Water: Run 14- Rerun of Desalination Plant for the Manning for water scenario for preferred water scenario	
Variable changed:	Capital and operating costs for a Desalination Plant, instead of Peg Leg Creek Dam
Details	This includes: • Spending for the Everyday Scenario • Peg Leg Creek Dam for the Manning scheme with 66% government funding • Off-stream storages for Gloucester, Stroud and Bulahdelah with 25% government funding • Delivery of an \$80 million purified recycled water scheme in years 2050/51 to 2051/52 • Operational cost increases of up to \$500,000 per year after 2026/27. These increases in operational spending may be required due to the need for additional resources, increased chemical or energy costs, etc. • Developer charges at \$9,570 reduced by 3 percent yearly (to take out inflation) from 2038-39 onwards
Comments	1- The purpose of this sensitivity analysis was to determine the increase to the TRB if a desalination plant was adopted for the Manning. Using the same TRB path as <i>preferred water run</i>, gives negative cash and investments. TRB rises were increased by 0.1 of a percentage until the cash and investments line were positive and close to the cash and investments from the preferred run. This was achieved with a 1% increase on top of each TRB step. Iterations demonstrated an extra 1% increase on top of the TRB steps is required to account for the extra costs (capital and operating) from a desalination plant. Over the 30-year period, each connection would pay an extra \$1,648.00 (in \$22/23 dollars) for desalination.

4- TRB path to approximate cash and investments from *water: run 10* (to get uplift on TRB from Desalination Plant compared to Peg Leg Creek Dam)

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	795.5	795.50	827.32	860.41	894.83	930.62	967.85	1006.56	1046.82	1046.82	1046.82	1046.82	1046.82	1046.82	1046.82
Increase (%)	-	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	-	-	-	-	-	-	-
Increase from <i>preferred</i>	-	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	-	-	-	-	-	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	1015.42	984.96	955.41	926.75	926.75	926.75	926.75	926.75	926.75	926.75	926.75	926.75	926.75	926.75	926.75	926.75
Increase (%)	-3%	-3%	-3%	-3%	-	-	-	-	-	-	-	-	-	-	-	-
Increase from <i>water: run 10</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Uplift in TRB per year for a Desalination Plant (instead of Peg Leg Creek Dam)

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Uplift in TRB (\$22/23)	-	7.96	16.47	25.56	35.28	45.64	56.69	68.46	68.46	68.46	68.46	68.46	68.46	68.46	7.96

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Uplift in TRB (\$22/23)	66.41	64.41	62.48	60.61	60.61	60.61	60.61	60.61	60.61	60.61	60.61	60.61	60.61	60.61	60.61	60.61

Appendix 2: Sewer Finmod Runs

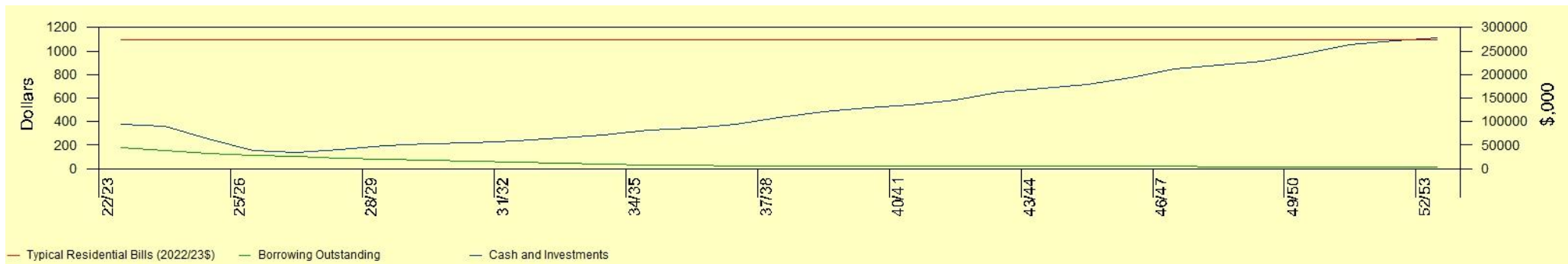
Sewer: Run 1	
Variable changed:	None
Details	This includes: - Spending for <i>'The Everyday Scenario'</i> - Expansion of recycled water for irrigation with unrestricted public access at Taree Rec Grounds
Comments	1- This indicates that Council's financial position has a positive cash and investment price path keeping the TRB constant (in \$22/23 dollars) 2- This run results in excessive cash and investments at the end of the 30 year period. It is possible that sewer capital spend, including renewals, has been underdone in the latter part of the planning horizon, however this is not likely to account for the level of cash and investments at the end of the 30 year period.

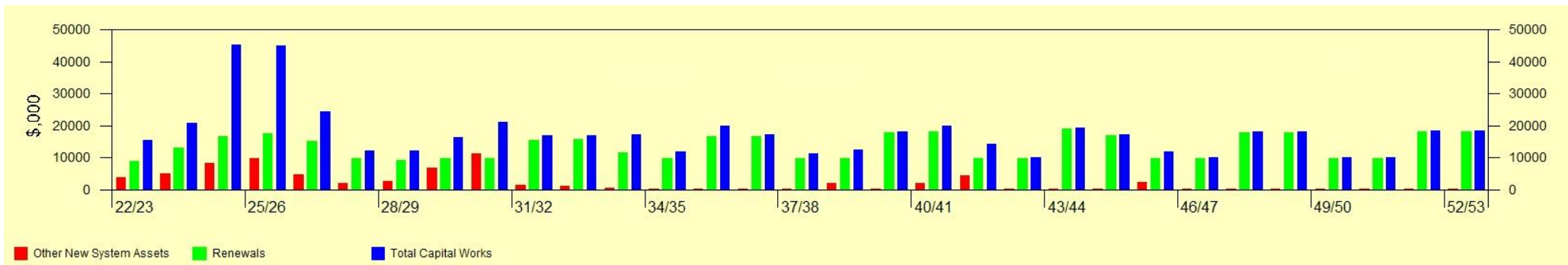
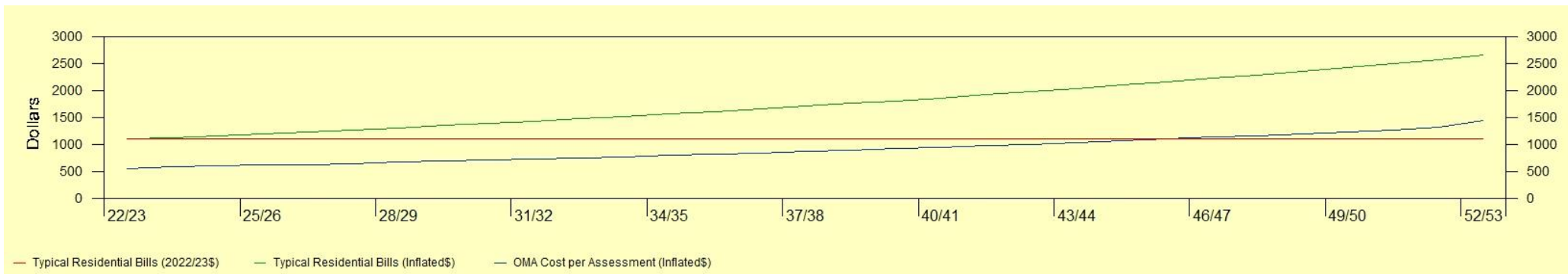
1- TRB path: keep constant

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

6	Preferred strategy - sewer	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			95322	90394	62961	39033	33778	41516	49631	53967	54588	59718	65301	70966	82460	86277	93923	108149	121270	128766	134580	146548	162977	170075	179275	194124	211112	219731	228519	245812	263130	271701	278140
New Works less Cap. Works Grants (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250
Internal Funding for New Works (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250
Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Internal Funding for Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Total New Loans Required (\$'000)			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			1042	1044	1044	1046	1047	1047	1049	1049	1049	1050	1051	1052	1053	1053	1054	1055	1056	1056	1057	1057	1058	1059	1059	1060	1061	1061	1062	1062	1063	1063	1064
Typical Residential Bills (\$)			1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096





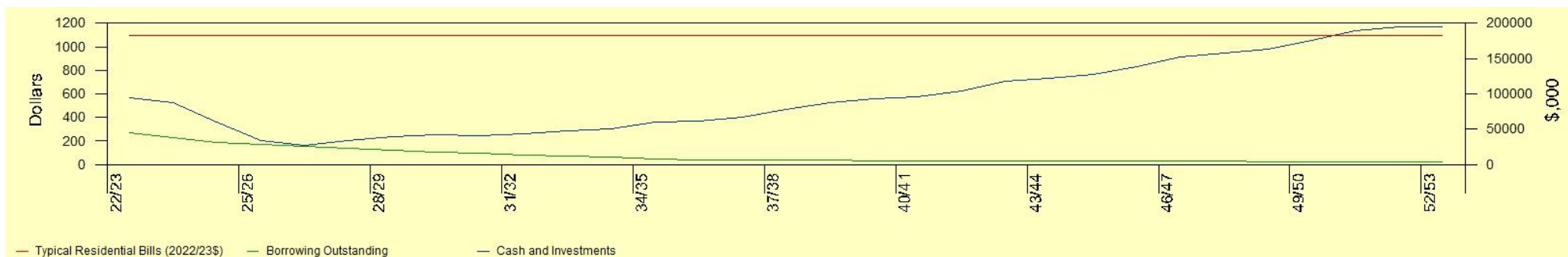
Sewer: Run 2- low growth															
Variable changed: Growth rate: residential and non-residential (%)				0.7% (instead of 1.0%)											
Details				This includes: - Spending for <i>'The Everyday Scenario'</i> - Expansion of recycled water for unrestricted public access at Taree Rec Grounds											
Comments				1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position if lower than forecast growth occurred. Using the same TRB path as <i>sewer: run 1</i> provides positive cash and investments. 2- A limitation with this sensitivity is that capital works program timelines have not been reassessed and pushed out, where works is for growth. 3- Council will reassess growth regularly over the life of the strategy and if growth does not occur at the predicted 1.0%, we will identify capital projects, including renewals, to push out in the future in order to remain financially sustainable.											

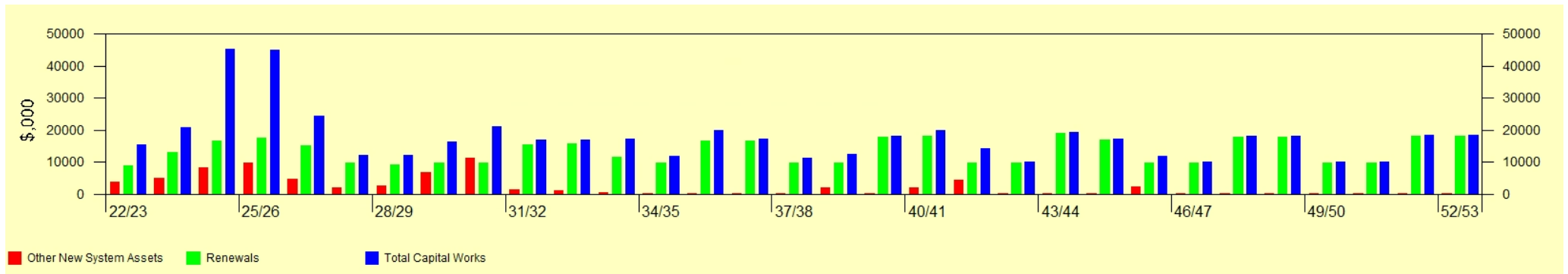
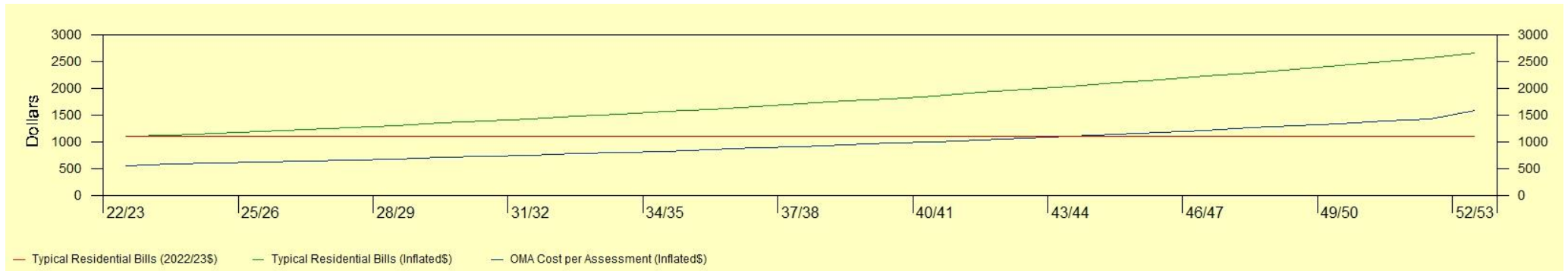
1- TRB path: keep constant

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

7	Low growth sewer	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			94298	88190	59458	34112	27344	33454	39827	42317	40983	44043	47454	50846	59955	61289	66358	77892	88227	92848	95697	104604	117879	121752	127629	139081	152589	157652	162805	176377	189908	194621	195079
New Works less Cap. Works Grants (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250
Internal Funding for New Works (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250
Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9645	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Internal Funding for Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9645	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Total New Loans Required (\$'000)			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			1042	1044	1044	1045	1046	1047	1048	1048	1048	1049	1050	1051	1052	1053	1053	1054	1054	1055	1056	1056	1056	1057	1057	1058	1059	1059	1060	1060	1061	1061	1061
Typical Residential Bills (\$)			1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096





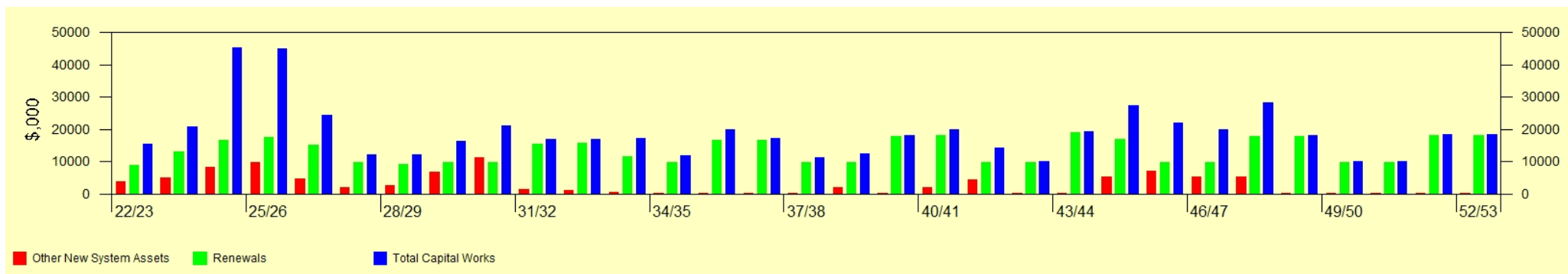
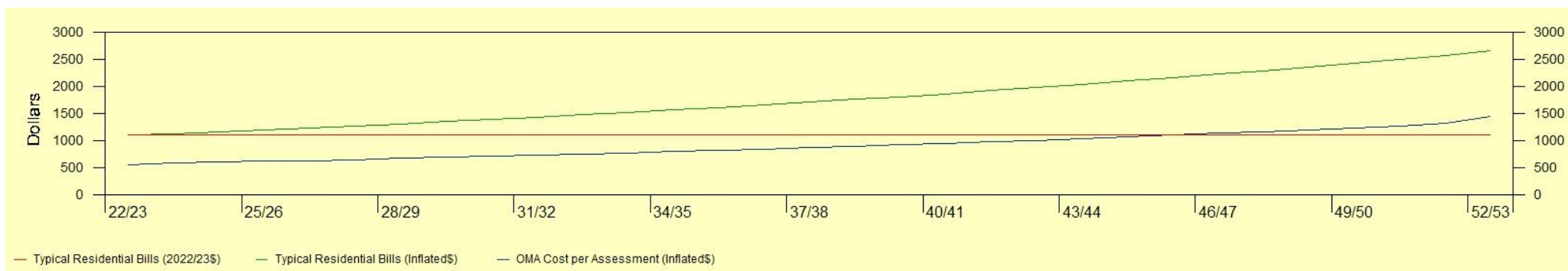
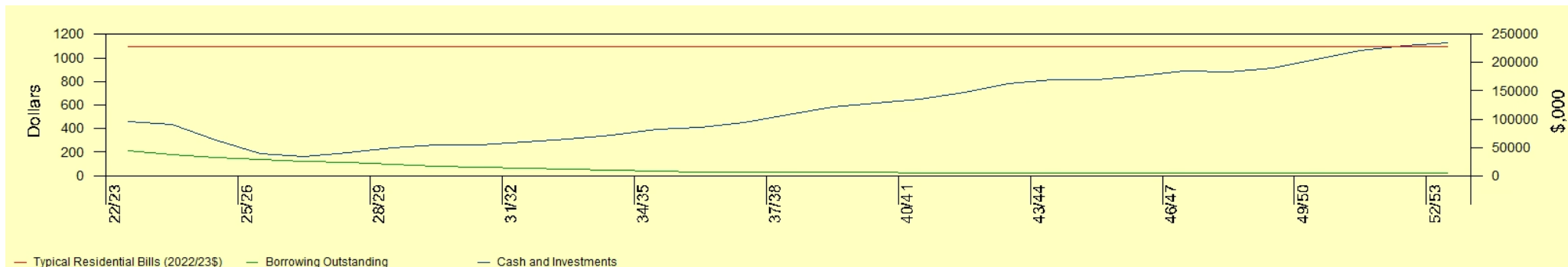
Sewer: Run 3- sewer climate secure scenario															
Variable changed:				Adding in capital and operating costs for climate independent supply											
Details				This includes: • Spending for <i>'The Everyday Scenario'</i> • Expansion of recycled water for unrestricted public access at Taree Rec Grounds • Construction of a climate independent supply towards the end of the 30-year period (2045) after Peg Leg Creek Dam built											
Comments				1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position and impact on TRB if a climate independent solution (purified recycled water) is required to be constructed within the 30-year period (after Peg Leg Creek Dam is constructed) and investigate the impact to Council's financial position and TRB. 2- Assumptions for inputs into the long-term financial plan: • \$80 million dollar project, split evenly across water and sewer funds • 25% funding for project, split evenly across water and sewer funds • Project delivered from 44/45 to 47/48 3- Using the same TRB path as <i>sewer: run 1</i> provides positive cash and investments for the period of construction and running of the purified recycled water scheme with no additional borrowings.											

1- TRB path: keep constant

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

8	Sewer climate secure	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			95322	90394	62961	39033	33778	41516	49631	53967	54588	59718	65301	70966	82460	86277	93923	108149	121270	128766	134580	146548	162977	170075	170328	176288	184453	182691	190149	206146	222202	229547	234795
New Works less Cap. Works Grants (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	9000	11000	9000	9000	250	250	250	250	250
Internal Funding for New Works (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	9000	11000	9000	9000	250	250	250	250	250
Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Internal Funding for Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Total New Loans Required (\$'000)			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			1042	1044	1044	1046	1047	1047	1049	1049	1049	1050	1051	1052	1053	1053	1054	1055	1056	1056	1057	1057	1058	1059	1059	1060	1061	1061	1062	1062	1063	1063	1064
Typical Residential Bills (\$)			1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096



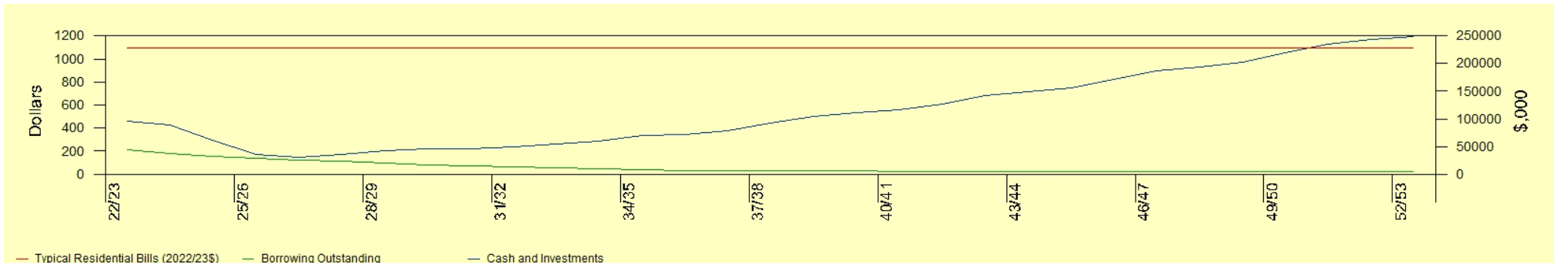
Sewer: Run 4- Increase in operational costs	
Variable changed:	Increase in yearly operational cost expenses to \$1 million and above
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Expansion of recycled water for unrestricted public access at Taree Rec Grounds
Comments	1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position an increase in operational spending for sewer. Increases in operational spending may be required due to the need for additional resources, increased chemical or energy costs, etc. 2- This was completed for operational increases to \$1 million, for all years, using the same TRB path as sewer: run 1. 3- The outputs from Finmod indicate that as operational spending is increased, the cash and investment position remains positive.

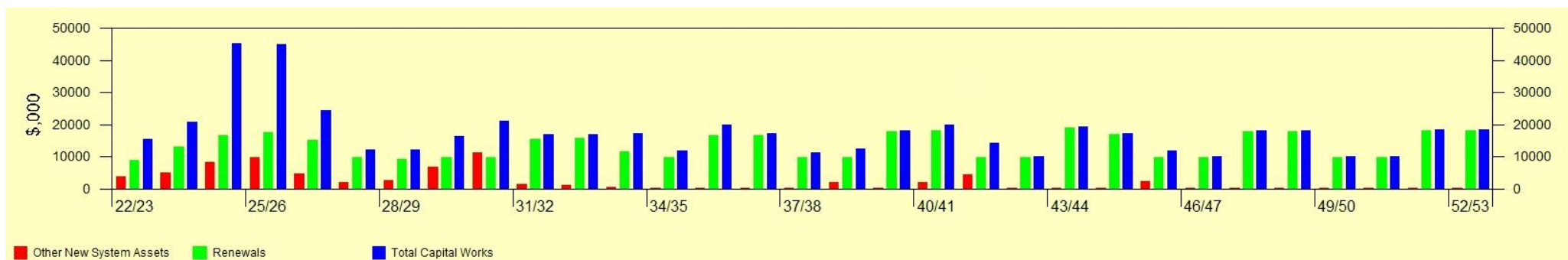
1- TRB path: keep constant

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

9	Sewer- operational increase	31	22/23	23/24	24/25	26/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
	Cash and Investments (\$'000)		95322	89372	60902	35927	29615	36292	43339	46605	46157	50218	54737	59344	69787	72563	79178	92385	104500	111005	115846	126856	142346	148523	156822	170792	186920	194701	202674	219174	235721	243545	249259
	New Works less Cap. Works Grants (\$'000)		6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250
	Internal Funding for New Works (\$'000)		6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250
	Renewals (\$'000)		8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
	Internal Funding for Renewals (\$'000)		8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
	Total New Loans Required (\$'000)		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	Average Residential Bills (\$)		1042	1044	1044	1046	1047	1047	1049	1049	1049	1050	1051	1052	1053	1053	1054	1055	1056	1056	1057	1057	1058	1059	1059	1060	1061	1061	1062	1062	1063	1063	1064
	Typical Residential Bills (\$)		1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096





Sewer: Run 5- Developer charges remove inflation increases	
Variable changed: Developer charges from 24/25 onwards (\$)	Reduced by 3% yearly to take out inflation from developer charges
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Expansion of recycled water for unrestricted public access at Taree Rec Grounds
Comments	1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position and impact on TRB if developer charges do not increase with inflation over the 30 year planning horizon. 2- This demonstrated that not increasing developer charges with inflation each year reduces cash and investments by approximately \$39 million at 2053. However, changes to sewer developer charges require a full review and will be completed through revision of servicing strategies and development servicing plans.

1- TRB path: keep constant

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

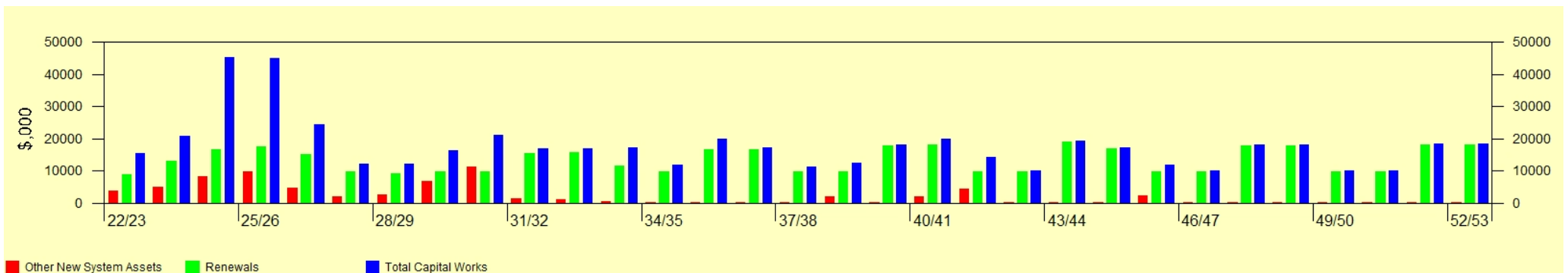
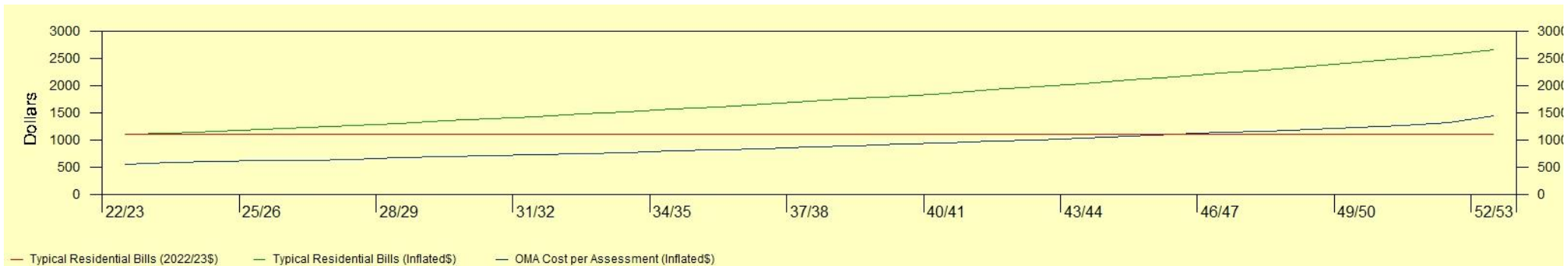
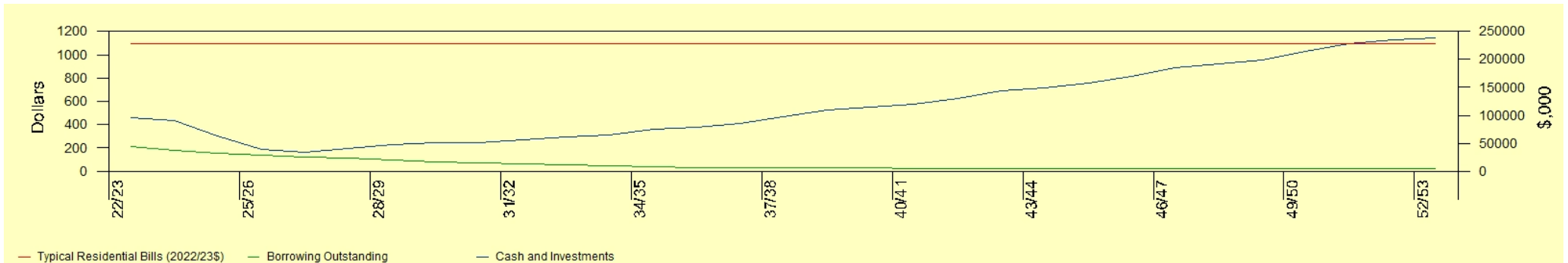
Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

Developer charges

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Developer Charge (\$ 22/23)	8280.00	8280.00	8031.60	7790.65	7556.93	7330.22	7110.32	6897.01	6690.10	6489.40	6294.71	6105.87	5922.70	5745.01	5572.66
Decrease (%)	-	-3%	-3%	-3%	-3%	-3%	-3%	-3%	-3%	-3%	-3%	-3%	-3%	-3%	-3%

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Developer Charge (\$ 22/23)	5405.48	5243.32	5086.02	4933.44	4785.44	4641.87	4502.62	4367.54	4236.51	4109.42	3986.13	3866.55	3750.55	3638.04	3528.90	3423.03
Decrease (%)	3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%

10	Developer charge reduce inflation-	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			95322	90394	62859	38726	33165	40494	48096	51820	51732	56053	60734	65404	75810	78450	84834	97709	109401	115391	119623	129934	144636	149943	157284	170219	185233	191823	198532	213693	228832	235183	239355
New Works less Cap. Works Grants (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250
Internal Funding for New Works (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250
Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Internal Funding for Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Total New Loans Required (\$'000)			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			1042	1044	1044	1046	1047	1047	1049	1049	1049	1050	1051	1052	1053	1053	1054	1055	1056	1056	1057	1057	1058	1059	1059	1060	1061	1061	1062	1062	1063	1063	1064
Typical Residential Bills (\$)			1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096



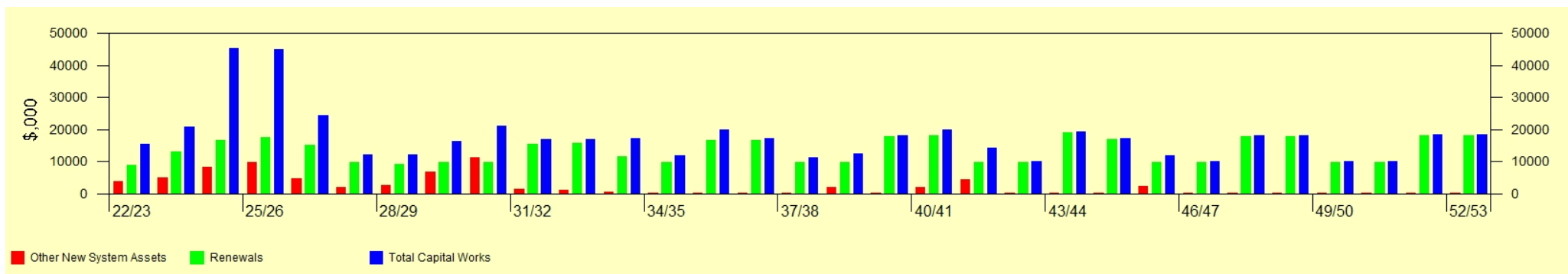
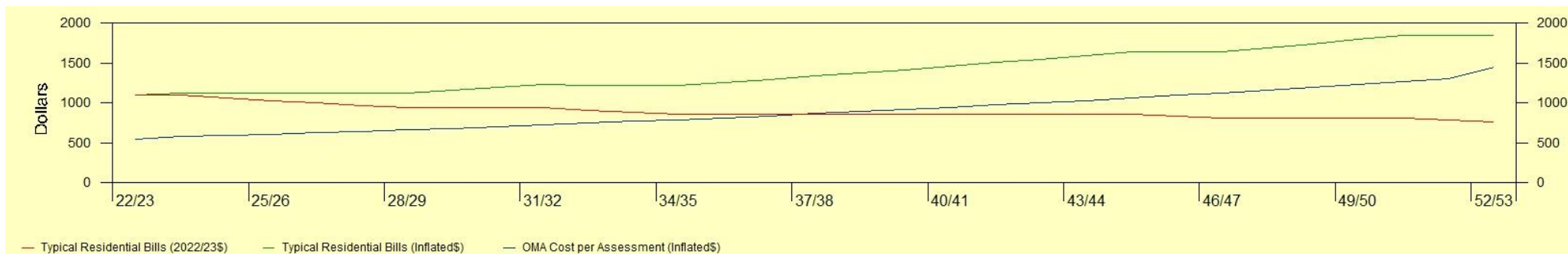
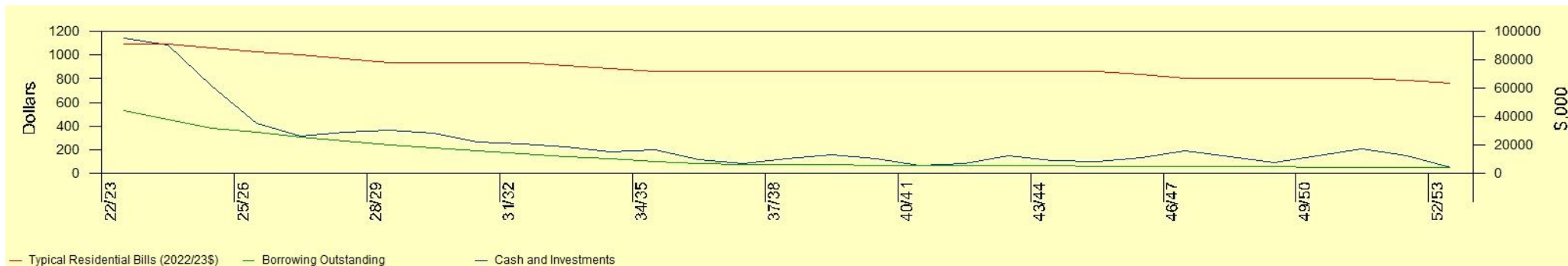
Sewer: Run 6 – Reduce sewer TRB when water TRB increase occurs															
Variable changed: Developer charges from 24/25 onwards (\$)				TRB path											
Details				This includes: • Spending for <i>'The Everyday Scenario'</i> • Expansion of recycled water for unrestricted public access at Taree Rec Grounds											
Comments				1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position by reducing the TRB price path from sewer: run 1, to coincide with the increases in the water TRB (see water: run 1) with a decrease in sewer TRB. The aim of this is to investigate reducing the uplift in residential bill cost on rate payers. 2- This shows the cash and investments remain positive with a 3% decrease in sewer TRB coinciding with any increase (1% or 2%) of water TRB. However, the cash and investments at 52/53 are reduced significantly, with approximately \$240 million removed from cash and investments at 2052/53. This demonstrates: • The TRB has a significant impact on level of cash and investments, particularly changes to the TRB in the early part of the 30 year planning horizon • Council can reduce sewer TRB with the reductions shown below and finance all planned works in the LTFP for growth, improved level of service and renewals; keeping the cash and investments between approximately \$5 and \$20 million in the latter half of the forecast period.											

1- Introducing a TRB decrease of 3% in years 24/25- 28/29, 31/32-33/34, 36/37, 45/46-46/47 and 51/52-52/53

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	1096.00	1096.00	1063.12	1031.23	1000.29	970.28	941.17	941.17	941.17	941.17	912.94	885.55	858.98	858.98	858.98
Decrease (%)	-	-	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-	-	-	-3.0%	-3.0%	-3.0%	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	858.98	858.98	858.98	858.98	858.98	858.98	858.98	858.98	833.21	808.22	808.22	808.22	808.22	808.22	783.97	760.45
Increase (%)	-	-	-	-	-	-	-	-	-3.0%	-3.0%	-	-	-	-	-3.0%	-3.0%

11	TRB reduce w water increa	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			95322	90394	61677	35179	26071	28648	30371	28204	22260	20744	18427	14966	16106	9475	6634	10329	12897	9844	5106	6542	12480	9123	7924	11180	15407	11350	7548	12333	17249	12305	4108
New Works less Cap. Works Grants (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250
Internal Funding for New Works (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250
Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Internal Funding for Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Total New Loans Required (\$'000)			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			1042	1044	1012	982	953	924	897	898	898	900	873	847	822	822	822	824	824	825	825	826	826	827	828	803	779	779	780	781	781	758	735
Typical Residential Bills (\$)			1096	1096	1063	1031	1000	970	941	941	941	941	913	886	859	859	859	859	859	859	859	859	859	859	859	833	808	808	808	808	808	784	760



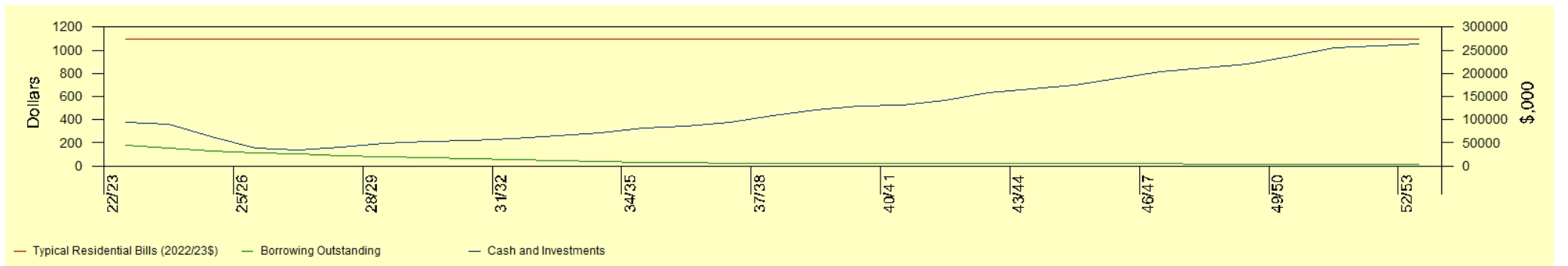
Sewer: Run 7- Increased spending for recycled water for irrigation with restricted and unrestricted use	
Variable changed:	Increased spending for recycled water projects
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Expansion of recycled water for unrestricted public access at Taree Rec Grounds • Expansion of recycled water for restricted and unrestricted uses in Gloucester • Expansion of recycled water for unrestricted use in Bulahdelah • Expansion of recycled water for unrestricted use in Old Bar Details on locations, the cost for each recycled scheme (capital and operating) and the delivery period are available in <i>scenarios cost estimating excel</i> and <i>LTFP for IWCM- working document CAPEX projects – April 2023 tab: Peg Leg + Dams + inc recycling</i>
Comments	1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position by expanding recycled water for irrigation in the MidCoast. 2- This demonstrates that Council has a positive cash and investments with additional expenditure on three recycled water schemes, with the TRB path kept constant

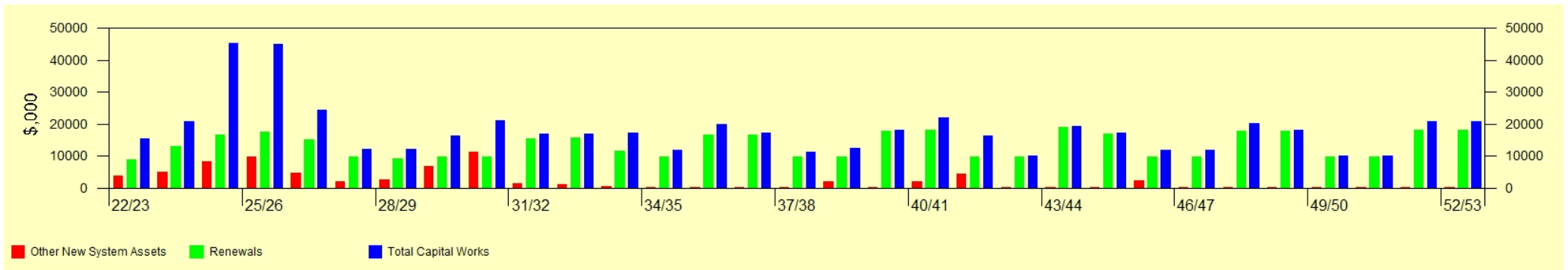
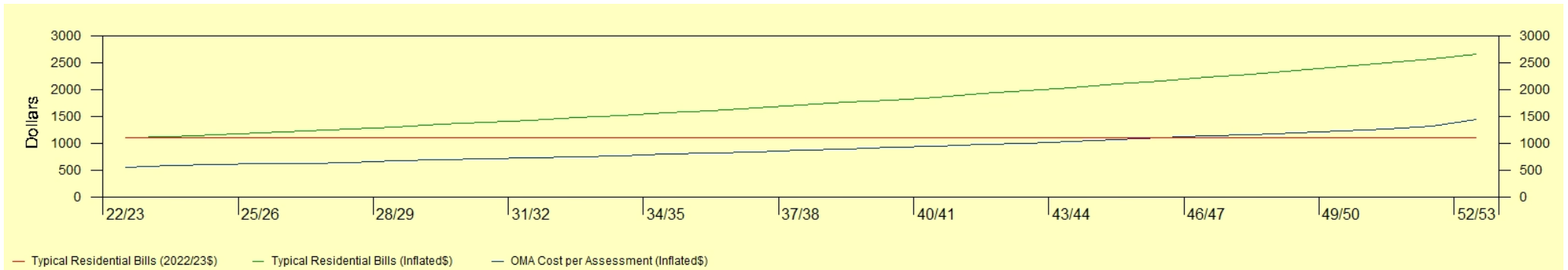
1- TRB path: keep constant

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

13	Sewer-recycling increase	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			95322	90394	62961	39034	33779	41517	49632	53967	54589	59718	65302	70966	82461	86277	93924	108150	121271	128767	132486	142297	158676	165728	174886	189696	204602	211105	219844	237093	254373	260407	264288
New Works less Cap. Works Grants (\$'000)			6743	7606	25926	24452	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	4100	6500	250	250	250	2250	2250	2250	250	250	250	2700	2700
Internal Funding for New Works (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	4100	6500	250	250	250	2250	2250	2250	250	250	250	2700	2700
Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Internal Funding for Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	11125	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Total New Loans Required (\$'000)			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			1042	1044	1044	1046	1047	1047	1049	1049	1049	1050	1051	1052	1053	1053	1054	1055	1056	1056	1057	1057	1058	1059	1059	1060	1061	1061	1062	1062	1063	1063	1064
Typical Residential Bills (\$)			1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096





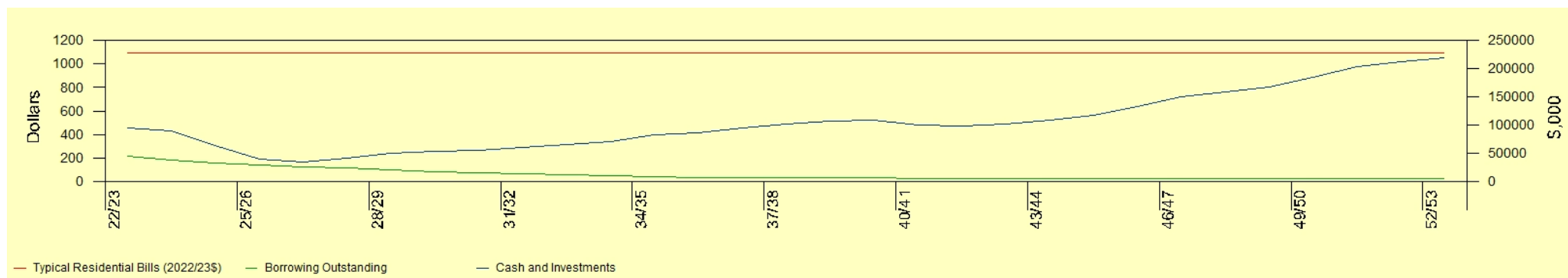
Sewer: Run 8- Providing sewerage services to Coomba Park and upgrade of Pacific Palms STP	
Variable changed:	Increased spending for recycled water projects
Details	This includes: • Spending for <i>'The Everyday Scenario'</i> • Expansion of recycled water for unrestricted public access at Taree Rec Grounds • Providing sewerage services to Coomba Park (currently prioritised as the highest risk unsewered village) • Upgrading Pacific Palms STP Stage 2 Details on the costs (capital and operating) and the delivery period are available in <i>LTFP for IWCM- working document CAPEX projects – April 2023 tab: Peg Leg + Dams + Coomba Park</i>
Comments	1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position by expanding recycled water in the MidCoast and providing additional sewerage services to Coomba Park, which triggers the Pacific Palms STP stage 2 upgrade. 2- This demonstrates that Council has a positive cash and investments with additional expenditure providing sewerage to Coomba Park, with the TRB path kept constant. 3- This run involves ratepayers and developers fully subsidising the provision of centralised sewerage to Coomba Park.

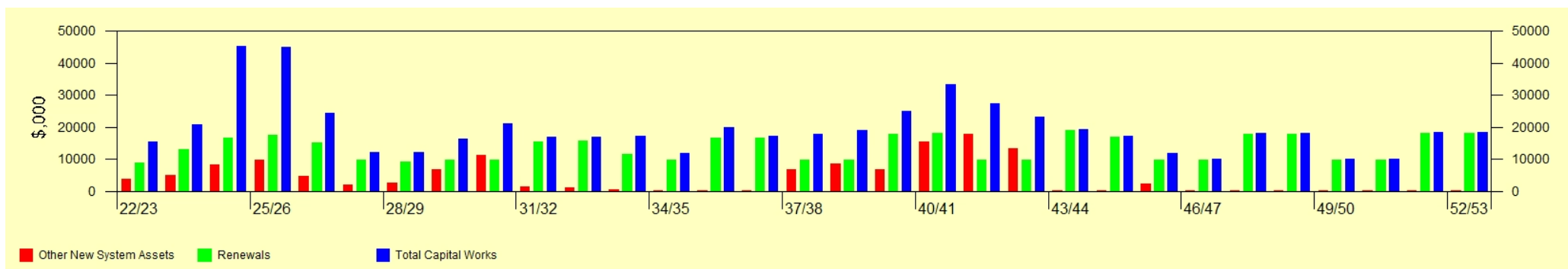
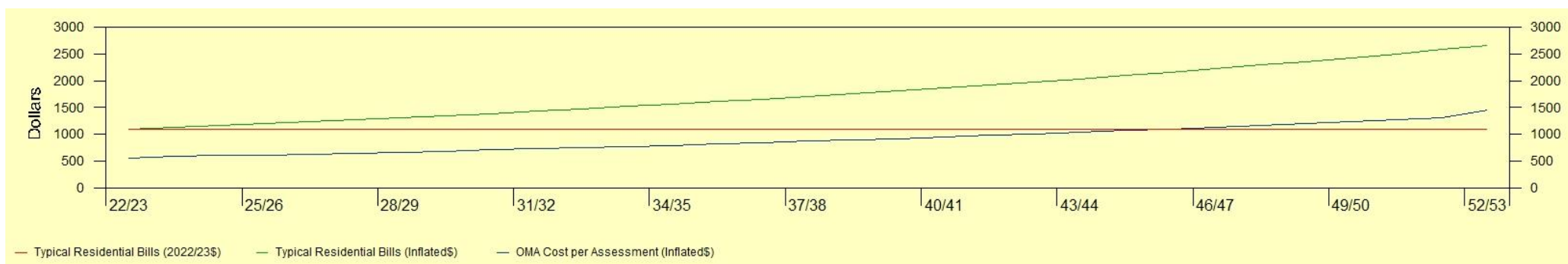
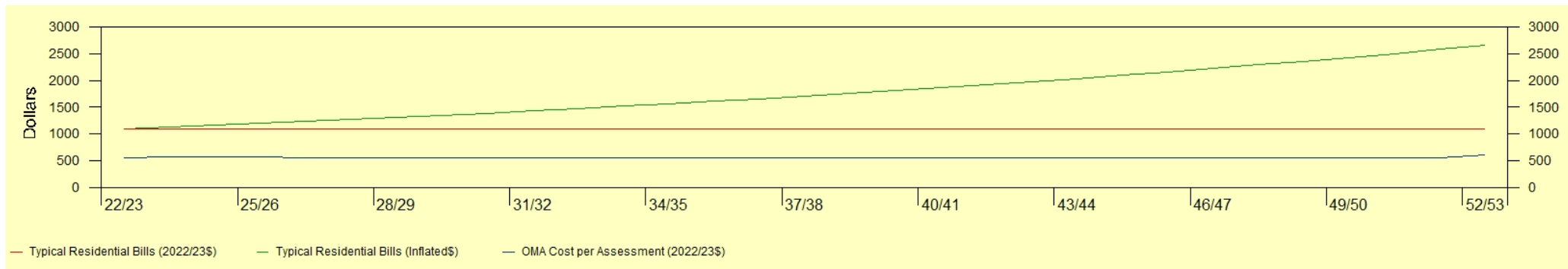
1- TRB path: keep constant

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

14	Sewer- servicing Coomba Park	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			95322	90394	62961	39033	33778	41516	49631	53967	54588	59718	65301	70966	82460	86277	93923	101332	107643	108348	100585	98782	101524	108669	117960	132942	150101	158930	167965	185540	203172	212089	218903
New Works less Cap. Works Grants (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	8117	9417	6997	15383	17783	13583	250	250	2250	250	250	250	250	250	250	250
Internal Funding for New Works (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	8117	9417	6997	15383	17783	13583	250	250	2250	250	250	250	250	250	250	250
Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Internal Funding for Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Total New Loans Required (\$'000)			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			1042	1044	1044	1046	1047	1047	1049	1049	1049	1050	1051	1052	1053	1053	1054	1055	1056	1056	1057	1057	1058	1059	1059	1060	1061	1061	1062	1062	1063	1063	1064
Typical Residential Bills (\$)			1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096





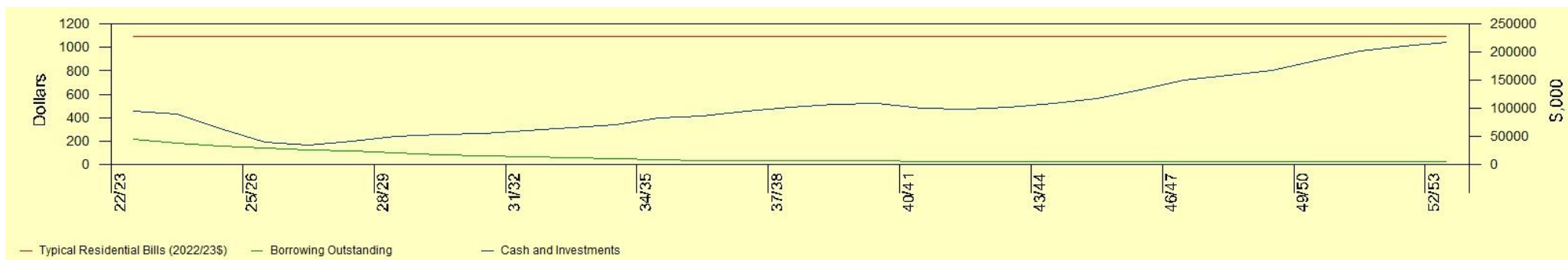
Sewer: Run 9- Providing sewerage services to Coomba Park and upgrade of Pacific Palms STP and increased spending for recycled water for restricted and unrestricted use															
Variable changed:				Increased spending for recycled water projects											
Details				This includes: • Spending for <i>'The Everyday Scenario'</i> • Expansion of recycled water for unrestricted public access at Taree Rec Grounds • Expansion of recycled water for restricted and unrestricted uses in Gloucester • Expansion of recycled water for unrestricted use in Bulahdelah • Expansion of recycled water for unrestricted use in Old Bar • Providing sewerage services to Coomba Park (currently prioritised as the highest risk unsewered village) • Upgrading Pacific Palms STP Stage 2 Details on the costs (capital and operating) and the delivery period are available in <i>LTFP for IWCM- working document CAPEX projects – April 2023 tab: Peg Leg + Dams + inc recycling + Coomba Park</i>											
Comments				1- The purpose of this sensitivity analysis was to determine the impact to Council's financial position by expanding recycled water in the MidCoast and providing sewerage services to Coomba Park, which triggers the Pacific Palms STP stage 2 upgrade. 2- This demonstrates that Council has a positive cash and investments with additional expenditure on both expanding recycled water and providing sewerage to Coomba Park, with the TRB path kept constant. 3- This run involves ratepayers and developers fully subsidising the provision of centralised sewerage to Coomba Park.											

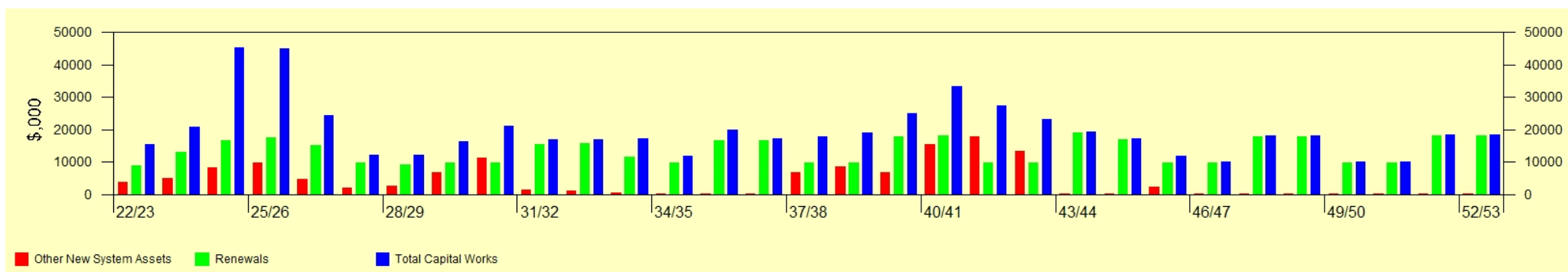
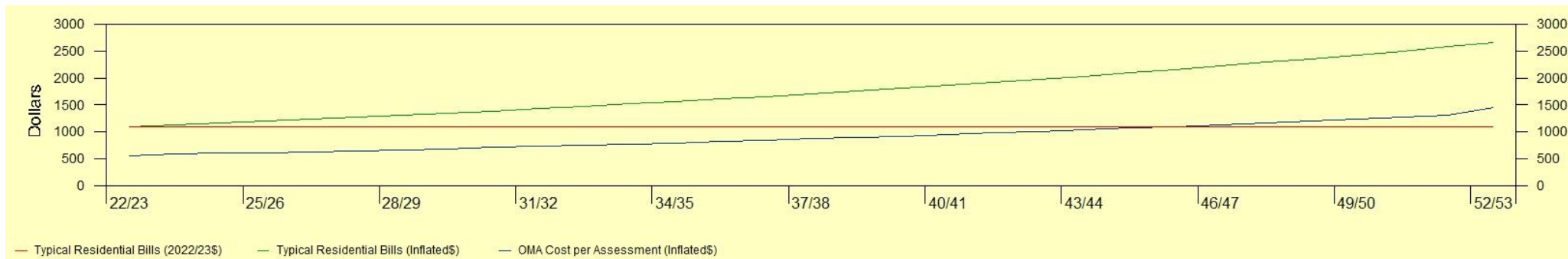
1- TRB path: keep constant

Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50	1095.50

15	Sewer- increase recycling+Coomba	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			95322	90394	62961	39033	33778	41516	49631	53967	54588	59718	65301	70966	82460	86277	93923	101332	107643	108348	100585	98715	101389	108467	117691	132607	149701	158413	167332	184791	202309	211115	217768
New Works less Cap. Works Grants (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	8117	9417	6997	15383	17783	13583	250	250	2250	250	250	250	250	250	250	250
Internal Funding for New Works (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	8117	9417	6997	15383	17783	13583	250	250	2250	250	250	250	250	250	250	250
Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Internal Funding for Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Total New Loans Required (\$'000)			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			1042	1044	1044	1046	1047	1047	1049	1049	1049	1050	1051	1052	1053	1053	1054	1055	1056	1056	1057	1057	1058	1059	1059	1060	1061	1061	1062	1062	1063	1063	1064
Typical Residential Bills (\$)			1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096





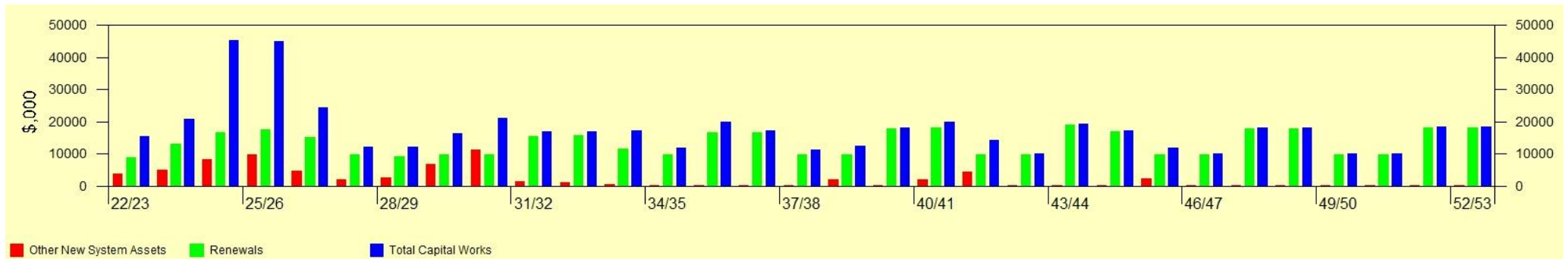
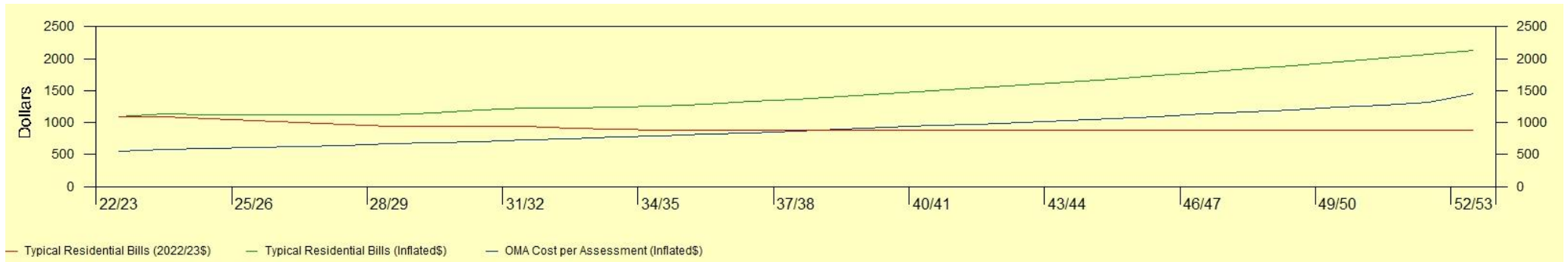
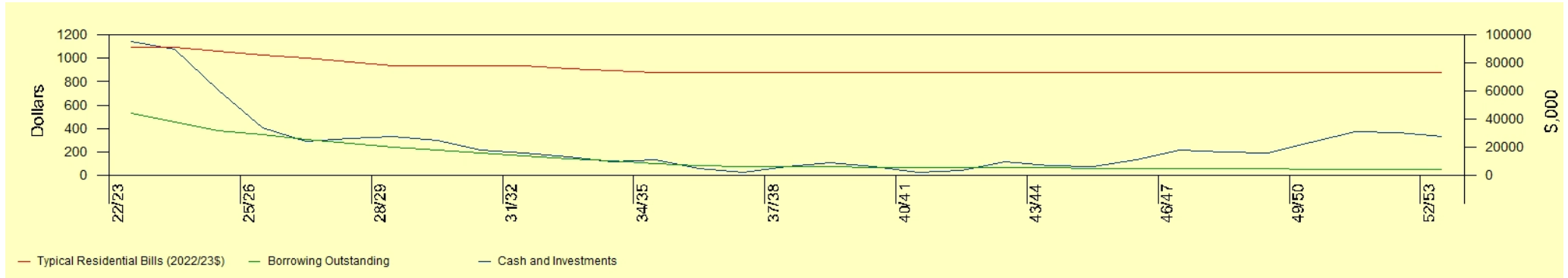
Sewer: Run 10- Sewer price path based on outcomes from runs 1 - 9	
Variable changed:	From sewer: reduce sewer TRB when water TRB increase occurs for <i>water: run 10</i> . Increase in operational spending of \$500,000 per year
Details	This includes: - Spending for '<i>The Everyday Scenario</i>' - Expansion of recycled water for unrestricted public access at Taree Rec Grounds
Comments	- The purpose of this was to model Council's preferred price path for sewer. This scenario introduced a TRB decrease for sewer in the same years that an increase for water is experienced. A 3% decrease was adopted for the first five steps (from 24/25 to 28/29) and a 2% decrease was adopted for the final three steps (from 32/33 to 34/35). This was selected to give a positive cash and investments across the 30 years. - This run demonstrates that holding sewer fees and charges steady (not increasing with inflation) during the years that water fees and charges will be slightly increased (as shown below) is affordable (refer to Table 3 - Comparison of TRB for preferred water and sewer price paths). - This run demonstrates that operational cost increases of up to \$500k per year are affordable. Increases in operational spending may be required due to the need for additional resources, increased chemical or energy costs, etc.

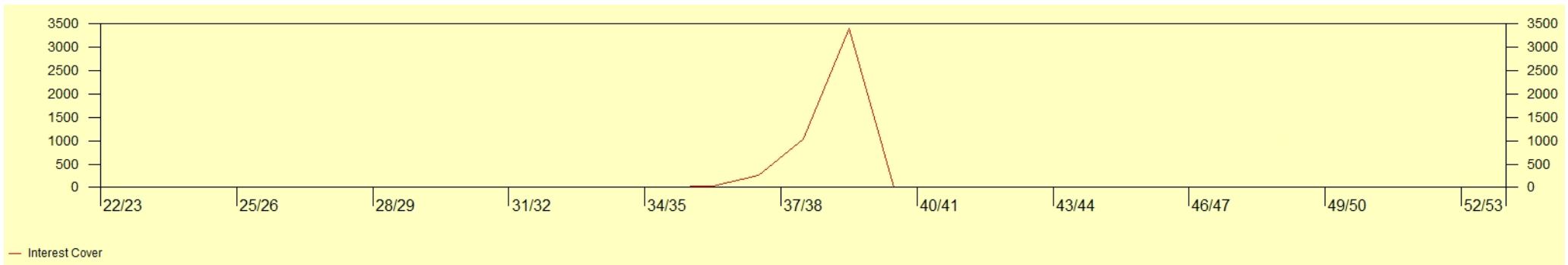
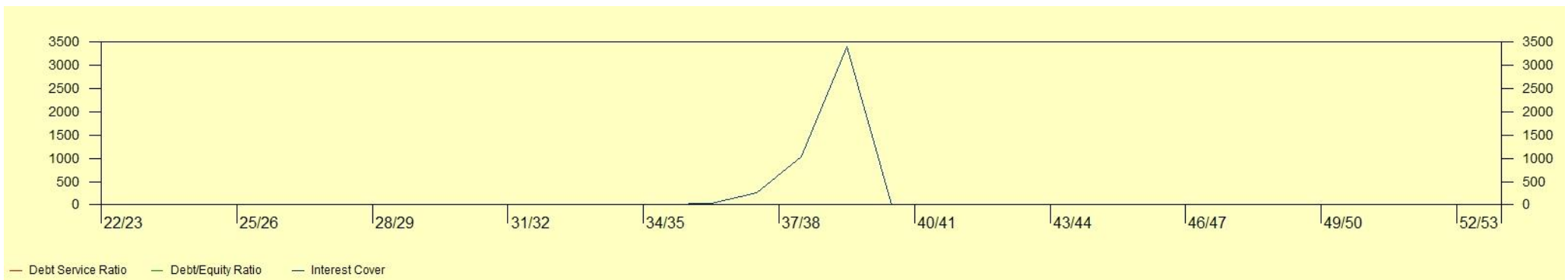
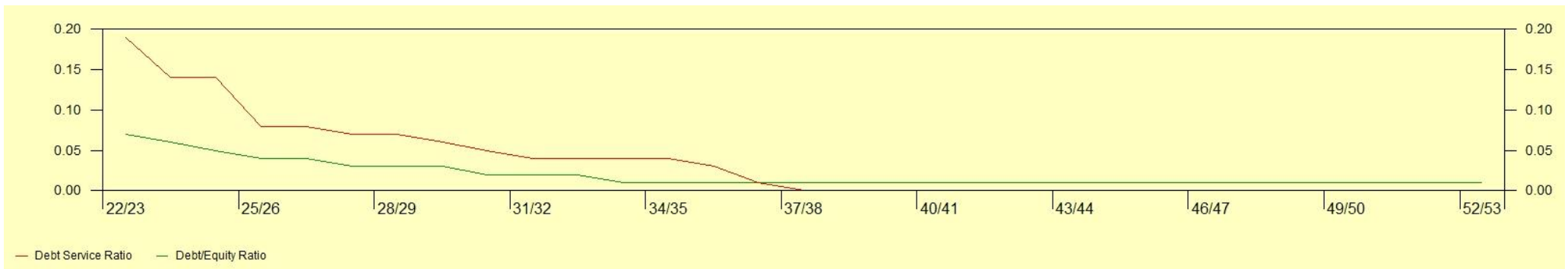
1- Introducing a TRB decrease of 3% in years 24/25- 28/29 and decrease of 2% in 32/33-34/35

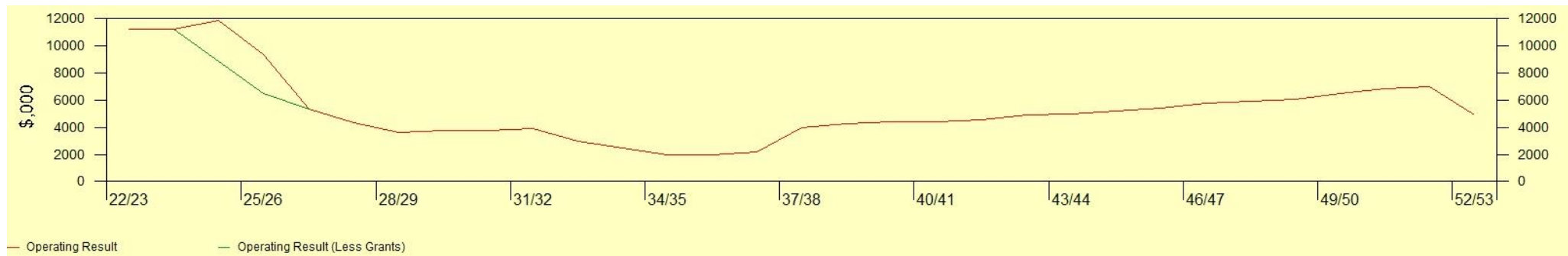
Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
TRB (\$22/23)	1096.00	1096.00	1063.12	1031.23	1000.29	970.28	941.17	941.17	941.17	941.17	912.94	885.55	858.98	858.98	858.98
Decrease (%)	-	-	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%	-	-	-	-2.0%	-2.0%	-2.0%	-	-

Year	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
TRB (\$22/23)	858.98	858.98	858.98	858.98	858.98	858.98	858.98	858.98	858.98	858.98	858.98	858.98	858.98	858.98	858.98	858.98
Increase (%)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

16	Preferred final-sewer	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53	
Cash and Investments (\$'000)			95322	89883	60649	33626	23990	26036	27226	24524	18045	15995	13147	9556	10928	4578	2037	6020	8893	6158	1755	3536	9829	6812	5962	10843	17938	16735	15788	23447	31249	30415	27572	
New Works less Cap. Works Grants (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250	250
Internal Funding for New Works (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250	250
Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205	
Internal Funding for Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205	
Total New Loans Required (\$'000)			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	
Average Residential Bills (\$)			1042	1044	1012	982	953	924	897	898	898	900	873	856	839	840	841	841	841	843	843	843	844	844	844	845	846	847	847	847	848	849	849	850
Typical Residential Bills (\$)			1096	1096	1063	1031	1000	970	941	941	941	941	913	895	877	877	877	877	877	877	877	877	877	877	877	877	877	877	877	877	877	877	877	







Sewer: Run 11- Sewer price path based on outcomes from runs 1 - 9		
Variable changed:	Cash and investments minimum of \$10,000,000 Increase in operational spending of \$500,000 per year	
Details	This includes: - Spending for <i>'The Everyday Scenario'</i> - Expansion of recycled water for unrestricted public access at Taree Rec Grounds	
Comments	1- The purpose of this was to model Council's preferred price path for sewer keeping a minimum cash and investments of \$10,000,000 (this level of reserves was provided by Council's Manager of Finance). This scenario introduced a TRB decrease for sewer in the same years that an increase for water is experienced. A 3% decrease was adopted for the first five steps (from 24/25 to 28/29) and a 2% decrease was adopted for the final three steps (from 32/33 to 34/35). This was selected to give a positive cash and investments across the 30 years. 2- This run demonstrates that holding sewer fees and charges steady (not increasing with inflation) during the years that water fees and charges will be slightly increased (as shown below) is affordable (refer to Table 3 - Comparison of TRB for preferred water and sewer price paths). 3- This run demonstrates that operational cost increases of up to \$500k per year are affordable. Increases in operational spending may be required due to the need for additional resources, increased chemical or energy costs, etc.	

16	Preferred final- sewer	31	22/23	23/24	24/25	25/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	33/34	34/35	35/36	36/37	37/38	38/39	39/40	40/41	41/42	42/43	43/44	44/45	45/46	46/47	47/48	48/49	49/50	50/51	51/52	52/53
Cash and Investments (\$'000)			95322	89883	60649	33626	23990	26035	27225	24523	18044	16413	14229	13857	16938	13049	10134	13670	17746	14257	10234	10840	15988	11860	10158	13973	20036	17835	15928	22661	29573	27907	24302
New Works less Cap. Works Grants (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1450	1250	5550	2250	3250	500	1450	2750	330	2050	4450	250	250	250	2250	250	250	250	250	250	250	250
Internal Funding for New Works (\$'000)			6743	7606	25926	24453	9385	2350	2865	6800	11250	1000	500	2000	0	0	0	1000	500	0	500	4450	250	250	0	2250	250	250	250	250	250	250	250
Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Internal Funding for Renewals (\$'000)			8678	13035	16458	17548	14987	9855	9245	9645	9845	15525	15575	11545	9645	16565	16565	9708	9671	17871	17965	9725	9695	18945	17045	9645	9645	17895	17845	9645	9645	18205	18205
Total New Loans Required (\$'000)			0	0	0	0	0	1	0	0	0	449	750	3550	2250	3250	500	450	2250	330	1550	0	0	1	251	0	0	0	0	0	0	0	0
Average Residential Bills (\$)			1042	1044	1012	982	953	924	897	898	898	900	873	856	839	840	841	841	841	843	843	843	844	844	845	846	847	847	847	848	849	849	850
Typical Residential Bills (\$)			1096	1096	1063	1031	1000	970	941	941	941	941	913	895	877	877	877	877	877	877	877	877	877	877	877	877	877	877	877	877	877	877	877

