

Utility Operations and Characteristics

Next:
Enter C.I.P. Projects

View Fund Balance

View Dashboard



| Name of Utility |
|-----------------------------|
| Green-Taylor Water District |

| Type of Utility |
|-----------------|
| Water Only |

| Current Fiscal Year |
|---------------------|
| FY18 |

Only capital projects that start next year (i.e.: in FY19) for the next 20 years can be included in this Capital Improvement Plan.

| Water Only Rates in FY18 | |
|---|----------|
| Input the residential water rates at 5,000 gallons/month of use (or 6.7 ccf/month). Convert to monthly rates. | |
| Volumetric Rate at 5,000 gallons/month (\$/1000 gallons) | \$ 8.50 |
| Monthly Base Charge ("Minimum Charge") | \$ 20.40 |
| Volume Included with the Base Charge (1,000's of gallons) | 2 |

Apprx. Residential Bill (5,000 gallons/month): \$ 45.90

Assuming uniform rates up to 5,000 gallons/month. This number is illustrative only.

Expected Revenue from Rates in FY18: \$ 2,699,940

This model estimates rate increases needed to pay for this CIP, but does not prescribe rate increases. Projections are purely illustrative. A rate study is still necessary. For example, a utility might choose to mitigate large future rate increases by spreading them out in the intervening period.

| Existing Capital Reserves by End of FY18 | \$ 1,687,500 |
|--|--------------|
| Target Minimum Not Allocated to Future Cash-Financed Projects* | \$ 2,000,000 |
| Average Annual Interest Earnings on Reserves (%/year) | 0.99% |

* The target minimum non-allocated balance is equivalent to 47% of this year's non-capital expenditures (enough to pay for 5.6 months of day-to-day O&M expenditures)

| Expected Revenues and Expenses in FY18 | |
|---|--------------|
| Annual Operating and Non-operating Revenues | \$ 5,000,000 |
| Annual Non-Capital Expenditures (O&M, Admin., etc.) | \$ 4,250,000 |
| Expected Annual Inflation of Expenditures (%/year) | 2.7% |

| Usage Billed to Customers in FY18 | | |
|--|-------------|-----------------|
| | Residential | Non-residential |
| Number of Customers | 4,850 | 75 |
| Total Monthly Use (1,000's of gallons) | 22,500 | 2,000 |
| Annual Customer Base Growth (%/year) | 1.0% | 1.2% |
| Change in Average Water Use (%/year) | -2.0% | 0.0% |

Average Water Use (gallons/month): 4,639 26,667

Pre-Existing Debt Service

Input annual payments for debt incurred for all projects not listed in this C.I.P. (incl. past projects)

| | |
|------|------------|
| FY18 | \$ 327,633 |
| FY19 | \$ 654,860 |
| FY20 | \$ 660,442 |
| FY21 | \$ 576,540 |
| FY22 | \$ 573,837 |
| FY23 | \$ 580,530 |
| FY24 | \$ 565,155 |
| FY25 | \$ 577,950 |
| FY26 | \$ 610,085 |
| FY27 | \$ 601,770 |
| FY28 | \$ 485,120 |
| FY29 | \$ 224,945 |
| FY30 | \$ 229,210 |
| FY31 | \$ 242,920 |
| FY32 | \$ 226,487 |
| FY33 | \$ 230,100 |
| FY34 | \$ 223,440 |
| FY35 | \$ 216,690 |
| FY36 | \$ 229,415 |
| FY37 | \$ 152,947 |
| FY38 | \$ 79,180 |
| FY39 | \$ 76,765 |

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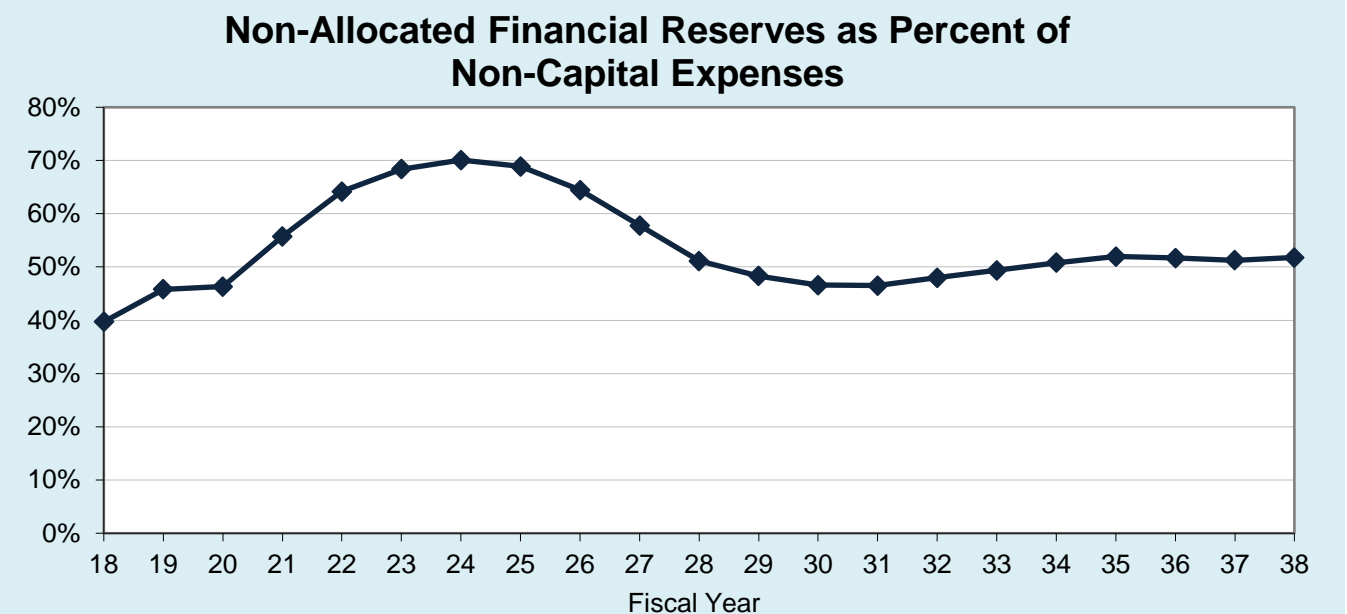
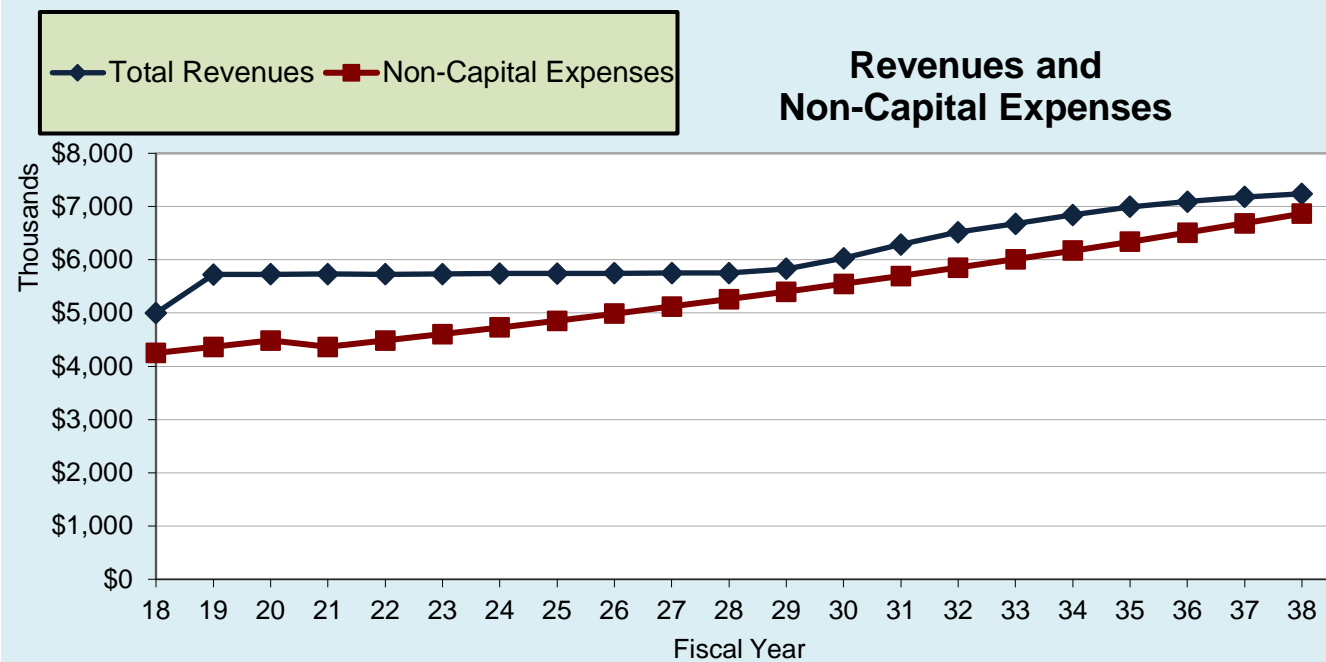
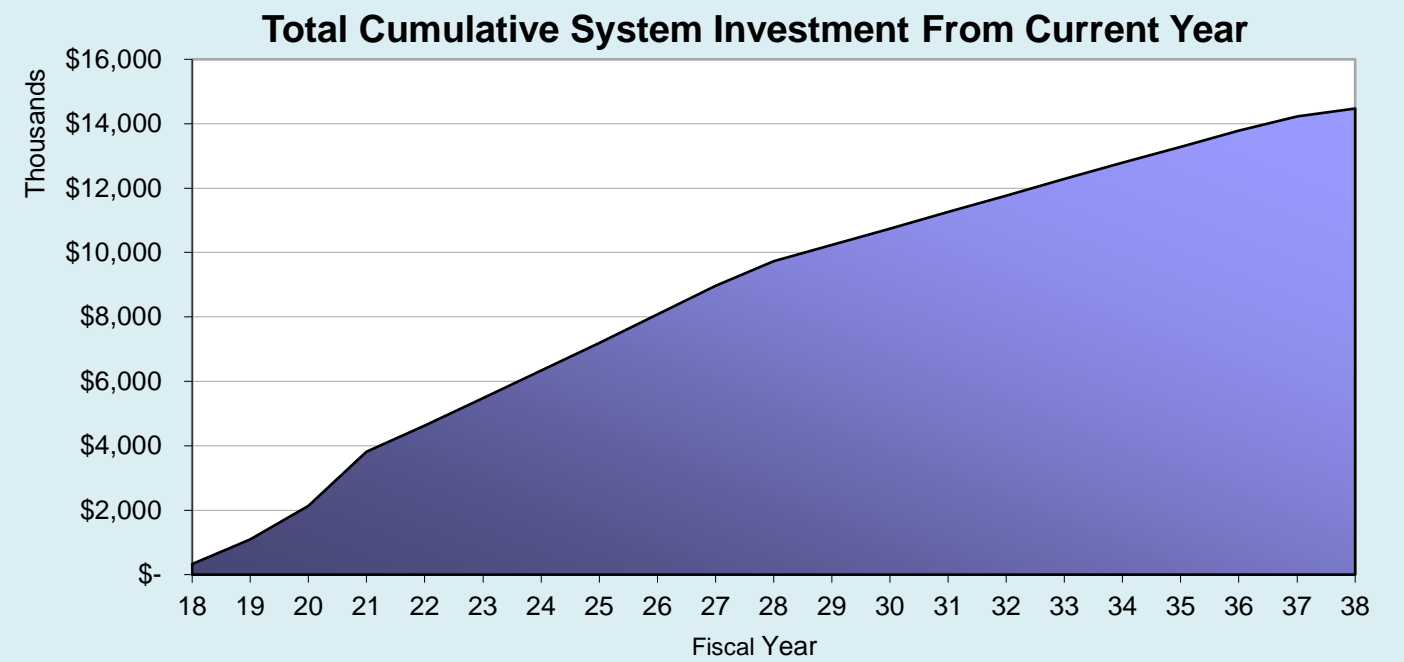
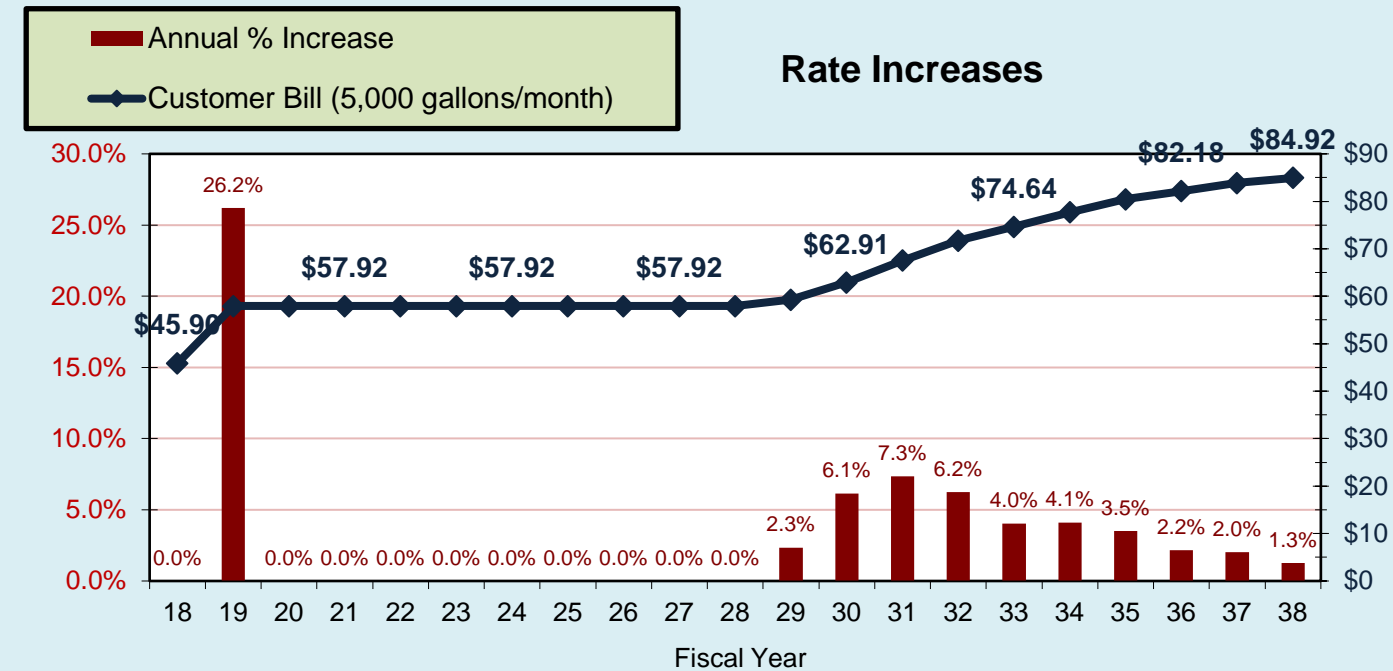
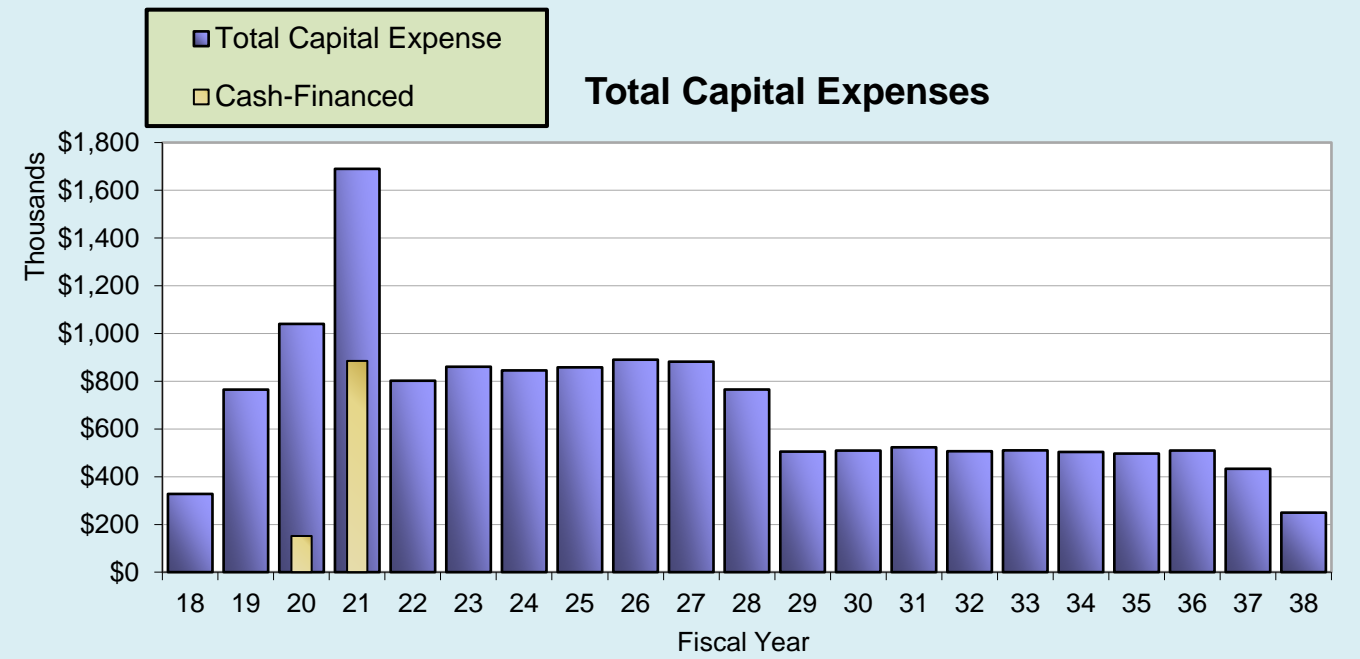
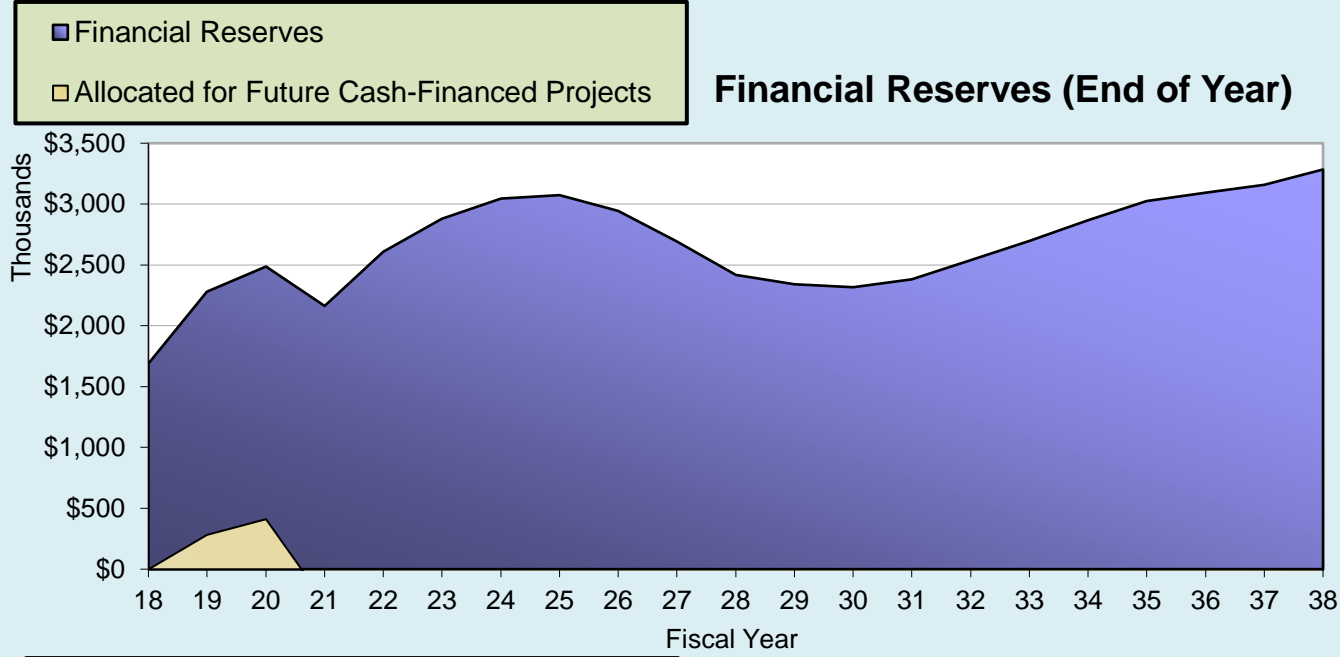
Edit Inputs

Edit C.I.P. Projects

View Projected 20-Yr Fund Balance

Plan to Pay: Scenarios to Fund your C.I.P.

Dashboard for Green-Taylor Water District's 20-year Water Only C.I.P. starting in FY18



Plan to Pay: Scenarios to Fund your C.I.P.

20-Year Fund Balance and Estimated Rate Increase Projections

View-only. No edits are needed.

Edit Inputs
Edit C.I.P. Projects

Next:
View the Dashboard
of Long-Term Trends



| | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 | FY24 | FY25 | FY26 | FY27 | FY28 | FY29 | FY30 |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Estimated Rate Changes Needed to Maintain the Fund Balance | | | | | | | | | | | | | |
| 1-Year Increase (Decrease) in Rates (Base and Volumetric) | N/A | 26.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 2.3% | 6.1% |
| Increase (Decrease) in the Monthly Bill for 5,000 Gallons | N/A | \$12.02 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$1.35 | \$3.64 |
| Increase (Decrease) in the Monthly Base Charge | N/A | \$5.34 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.61 | \$1.65 |
| Monthly Base Charge ("Minimum Charge") | \$20.40 | \$25.74 | \$25.74 | \$25.74 | \$25.74 | \$25.74 | \$25.74 | \$25.74 | \$25.74 | \$25.74 | \$25.74 | \$26.36 | \$28.01 |
| Volumetric Rate at 5,000 gallons/month (\$/1000 gallons) | \$8.50 | \$10.73 | \$10.73 | \$10.73 | \$10.73 | \$10.73 | \$10.73 | \$10.73 | \$10.73 | \$10.73 | \$10.73 | \$10.97 | \$11.64 |
| Volume Included with the Base Charge (1,000's of gallons) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Approximate Monthly Charge for 5,000 gallons (\$) | \$45.90 | \$57.92 | \$57.92 | \$57.92 | \$57.92 | \$57.92 | \$57.92 | \$57.92 | \$57.92 | \$57.92 | \$57.92 | \$59.27 | \$62.91 |
| Projected Fund Balance | | | | | | | | | | | | | |
| Total Revenues | \$ 5,000,000 | \$ 5,723,095 | \$ 5,728,729 | \$ 5,731,123 | \$ 5,728,881 | \$ 5,734,820 | \$ 5,739,635 | \$ 5,744,016 | \$ 5,747,645 | \$ 5,750,290 | \$ 5,752,308 | \$ 5,828,680 | \$ 6,031,420 |
| Base Charges | \$ 1,205,640 | \$ 1,536,708 | \$ 1,552,122 | \$ 1,567,691 | \$ 1,583,416 | \$ 1,599,298 | \$ 1,615,341 | \$ 1,631,544 | \$ 1,647,910 | \$ 1,664,440 | \$ 1,681,136 | \$ 1,738,352 | \$ 1,865,738 |
| Usage Charges | \$ 1,494,300 | \$ 1,846,550 | \$ 1,807,592 | \$ 1,768,841 | \$ 1,730,293 | \$ 1,691,943 | \$ 1,653,789 | \$ 1,615,827 | \$ 1,578,052 | \$ 1,540,461 | \$ 1,503,050 | \$ 1,499,413 | \$ 1,549,794 |
| Interest Earned from Previous Year's Positive Balance | N/A | \$ 16,706 | \$ 22,582 | \$ 24,622 | \$ 21,432 | \$ 25,826 | \$ 28,502 | \$ 30,146 | \$ 30,443 | \$ 29,160 | \$ 26,653 | \$ 23,951 | \$ 23,175 |
| Revenues from Other Sources Besides Charges | \$ 2,300,060 | \$ 2,323,131 | \$ 2,346,433 | \$ 2,369,969 | \$ 2,393,741 | \$ 2,417,752 | \$ 2,442,004 | \$ 2,466,499 | \$ 2,491,240 | \$ 2,516,230 | \$ 2,541,470 | \$ 2,566,964 | \$ 2,592,713 |
| Total Expenses, Including Capital | \$ 4,577,633 | \$ 5,129,565 | \$ 5,522,670 | \$ 6,053,402 | \$ 5,284,970 | \$ 5,464,601 | \$ 5,573,534 | \$ 5,713,993 | \$ 5,877,239 | \$ 6,003,575 | \$ 6,025,211 | \$ 5,907,056 | \$ 6,057,176 |
| Pre-Existing Non-Capital Expenses (O&M, admin, etc.) | \$ 4,250,000 | \$ 4,364,750 | \$ 4,482,598 | \$ 4,603,628 | \$ 4,727,926 | \$ 4,855,580 | \$ 4,986,681 | \$ 5,121,321 | \$ 5,259,597 | \$ 5,401,606 | \$ 5,547,450 | \$ 5,697,231 | \$ 5,851,056 |
| C.I.P. Projects: Additional Non-Capital Annual Expenses | \$ - | \$ - | \$ - | \$ (240,000) | \$ (244,980) | \$ (251,594) | \$ (258,388) | \$ (265,364) | \$ (272,529) | \$ (279,887) | \$ (287,444) | \$ (295,205) | \$ (303,176) |
| Pre-Existing Debt Service | \$ 327,633 | \$ 654,860 | \$ 660,442 | \$ 576,540 | \$ 573,837 | \$ 580,530 | \$ 565,155 | \$ 577,950 | \$ 610,085 | \$ 601,770 | \$ 485,120 | \$ 224,945 | \$ 229,210 |
| C.I.P. Projects: Debt Service | \$ - | \$ 109,955 | \$ 228,187 | \$ 228,187 | \$ 228,187 | \$ 280,085 | \$ 280,085 | \$ 280,085 | \$ 280,085 | \$ 280,085 | \$ 280,085 | \$ 280,085 | \$ 280,085 |
| C.I.P. Projects: Cash-Financed from Capital Reserves | \$ - | \$ - | \$ 151,443 | \$ 885,047 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Net Income | \$ 422,367 | \$ 593,530 | \$ 206,060 | \$ (322,280) | \$ 443,911 | \$ 270,219 | \$ 166,101 | \$ 30,023 | \$ (129,594) | \$ (253,284) | \$ (272,903) | \$ (78,376) | \$ (25,756) |
| Financial Reserves - Ending Balance | \$ 1,687,500 | \$ 2,281,030 | \$ 2,487,089 | \$ 2,164,810 | \$ 2,608,721 | \$ 2,878,940 | \$ 3,045,041 | \$ 3,075,064 | \$ 2,945,470 | \$ 2,692,186 | \$ 2,419,283 | \$ 2,340,907 | \$ 2,315,152 |
| Allocated for Future C.I.P. Cash-Financed Projects | \$ - | \$ 281,030 | \$ 410,617 | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) |
| Not Allocated to Future C.I.P. Cash-Financed Projects | \$ 1,687,500 | \$ 2,000,000 | \$ 2,076,473 | \$ 2,433,932 | \$ 2,877,843 | \$ 3,148,062 | \$ 3,314,164 | \$ 3,344,187 | \$ 3,214,593 | \$ 2,961,309 | \$ 2,688,406 | \$ 2,610,030 | \$ 2,584,274 |
| * should exceed target set on first page: \$2,000,000 | | | | | | | | | | | | | |
| As Percent of Non-Capital Expenses | 40% | 46% | 46% | 56% | 64% | 68% | 70% | 69% | 64% | 58% | 51% | 48% | 47% |

Plan to Pay: See
20-Year Fund Balance and

View-only. No edits are needed.

| | FY31 | FY32 | FY33 | FY34 | FY35 | FY36 | FY37 | FY38 | Total |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|
| Estimated Rate Changes Needed to Maintain the Fund | | | | | | | | | |
| 1-Year Increase (Decrease) in Rates (Base and Volumetric) | 7.3% | 6.2% | 4.0% | 4.1% | 3.5% | 2.2% | 2.0% | 1.3% | |
| Increase (Decrease) in the Monthly Bill for 5,000 Gallons | \$4.61 | \$4.21 | \$2.90 | \$3.06 | \$2.73 | \$1.75 | \$1.68 | \$1.07 | |
| Increase (Decrease) in the Monthly Base Charge | \$2.09 | \$1.91 | \$1.32 | \$1.39 | \$1.24 | \$0.79 | \$0.76 | \$0.49 | |
| Monthly Base Charge ("Minimum Charge") | \$30.10 | \$32.01 | \$33.33 | \$34.72 | \$35.96 | \$36.75 | \$37.52 | \$38.00 | |
| Volumetric Rate at 5,000 gallons/month (\$/1000 gallons) | \$12.48 | \$13.24 | \$13.77 | \$14.33 | \$14.82 | \$15.14 | \$15.45 | \$15.64 | |
| Volume Included with the Base Charge (1,000's of gallons) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Approximate Monthly Charge for 5,000 gallons (\$) | \$67.53 | \$71.74 | \$74.64 | \$77.70 | \$80.43 | \$82.18 | \$83.85 | \$84.92 | |
| Projected Fund Balance | | | | | | | | | |
| Total Revenues | \$ 6,285,758 | \$ 6,516,999 | \$ 6,677,135 | \$ 6,844,774 | \$ 6,993,640 | \$ 7,089,928 | \$ 7,181,406 | \$ 7,240,797 | |
| Base Charges | \$ 2,025,310 | \$ 2,175,507 | \$ 2,287,763 | \$ 2,407,170 | \$ 2,518,099 | \$ 2,599,542 | \$ 2,680,105 | \$ 2,741,999 | |
| Usage Charges | \$ 1,618,806 | \$ 1,672,937 | \$ 1,692,712 | \$ 1,712,586 | \$ 1,721,776 | \$ 1,707,713 | \$ 1,690,312 | \$ 1,659,293 | |
| Interest Earned from Previous Year's Positive Balance | \$ 22,920 | \$ 23,564 | \$ 25,138 | \$ 26,696 | \$ 28,374 | \$ 29,943 | \$ 30,645 | \$ 31,270 | |
| Revenues from Other Sources Besides Charges | \$ 2,618,721 | \$ 2,644,990 | \$ 2,671,523 | \$ 2,698,322 | \$ 2,725,390 | \$ 2,752,730 | \$ 2,780,344 | \$ 2,808,235 | |
| Total Expenses, Including Capital | \$ 6,220,679 | \$ 6,358,083 | \$ 6,519,687 | \$ 6,675,283 | \$ 6,835,171 | \$ 7,019,032 | \$ 7,118,322 | \$ 7,115,102 | |
| Pre-Existing Non-Capital Expenses (O&M, admin, etc.) | \$ 6,009,034 | \$ 6,171,278 | \$ 6,337,903 | \$ 6,509,026 | \$ 6,684,770 | \$ 6,865,259 | \$ 7,050,621 | \$ 7,240,988 | |
| C.I.P. Projects: Additional Non-Capital Annual Expenses | \$ (311,361) | \$ (319,768) | \$ (328,402) | \$ (337,269) | \$ (346,375) | \$ (355,727) | \$ (365,332) | \$ (375,196) | |
| Pre-Existing Debt Service | \$ 242,920 | \$ 226,487 | \$ 230,100 | \$ 223,440 | \$ 216,690 | \$ 229,415 | \$ 152,947 | \$ 79,180 | |
| C.I.P. Projects: Debt Service | \$ 280,085 | \$ 280,085 | \$ 280,085 | \$ 280,085 | \$ 280,085 | \$ 280,085 | \$ 280,085 | \$ 170,130 | |
| C.I.P. Projects: Cash-Financed from Capital Reserves | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | |
| Net Income | \$ 65,080 | \$ 158,917 | \$ 157,448 | \$ 169,491 | \$ 158,469 | \$ 70,896 | \$ 63,084 | \$ 125,695 | |
| Financial Reserves - Ending Balance | \$ 2,380,231 | \$ 2,539,148 | \$ 2,696,597 | \$ 2,866,088 | \$ 3,024,557 | \$ 3,095,453 | \$ 3,158,537 | \$ 3,284,232 | |
| Allocated for Future C.I.P. Cash-Financed Projects | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) | \$ (269,122) | |
| Not Allocated to Future C.I.P. Cash-Financed Projects | \$ 2,649,354 | \$ 2,808,270 | \$ 2,965,719 | \$ 3,135,210 | \$ 3,293,679 | \$ 3,364,575 | \$ 3,427,659 | \$ 3,553,354 | |
| * should exceed target set on first page: \$2,000,000 | | | | | | | | | |
| As Percent of Non-Capital Expenses | 46% | 48% | 49% | 51% | 52% | 52% | 51% | 52% | |

