



SOUTH TAHOE  
PUBLIC UTILITY DISTRICT

**TEN-YEAR  
FINANCIAL PLAN  
2020/21 TO 2029/30**

SEPTEMBER 2020

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# TEN-YEAR FINANCIAL PLAN

**July 1, 2020 to June 30, 2030**

## PURPOSE

In an effort to set a responsible financial plan for South Tahoe Public Utility District, finance staff prepares a Ten-Year Financial and Capital Improvement Plan (the Plan) for use by the Board of Directors and management. The ten-year period covered is July 1, 2020, to June 30, 2030. This Plan is based on the best available information and Board direction as of August 20, 2020. How closely the ten-year plan comes to forecasting the financial results will depend on whether the assumptions used prove to be correct and the number of unforeseen changes during the ten-year period.

## ASSUMPTIONS

The Plan assumptions are: operations and maintenance expenses and depreciation increase at 2.0% per year; salaries increase at 3.0% per year and benefits increase at 3.0% per year due to anticipated increases of health insurance and retirement costs; 0% service charge rate increases in fiscal year 2021; 5% sewer and 6% water service charge rate increases in fiscal years 2022 - 2030; and property tax revenue is estimated to increase 2% annually. Due to twelve years of record, or near record low interest rates, interest income is forecasted at an earnings rate of 1% through the forecast; water capacity/connection fees are expected to be received from 30 residential allocations each year, while sewer capacity/connections fees are expected to be received from 116 residential allocations in fiscal year 2021 and decrease 10% annually through fiscal year 2030. Due to the unknown nature of commercial connections, we have projected total annual commercial development equivalent to 50 sewer units and one four-inch water connection.

## CAPITAL SPENDING

Sewer fund capital spending over the ten-year period is anticipated to total \$87.4 million, not including associated labor and operating costs or debt payments for prior capital projects. Of this amount, \$79.2 million is for engineered infrastructure improvements. The District's investment in capital is more than 100% of the forecasted depreciation expense, which is estimated to total \$53.6 million over ten years. The capital projects include spending for the sewer treatment plant and system upgrades, pump station improvements, pipeline rehab and replacement, recycled water system enhancements, heavy equipment replacement, and other equipment purchases. Specifically, the Plan includes the rehabilitation of three treatment plant secondary clarifiers, improvements to the "Big Five" pump stations, gravity main replacements, field communication upgrades, and several other wastewater collection, treatment, and recycling projects. Fifty-nine percent of the infrastructure costs are forecasted to be self-funded, and the remaining 41% of the costs are borrowed from lenders. The District is seeking to borrow approximately \$35.6 million from the California State Revolving Loan Program through the State Water Resources Control Board in the form of low-interest loans. See the accompanying Capital Outlay schedules for details by department and project or item.

Water fund capital spending over the ten-year period is anticipated to total \$65.3 million, not including associated labor and operating costs or debt payments for prior capital projects. Of this amount, \$60.1 million is for engineered infrastructure improvements. The District's investment in capital is more than 100% of the forecasted depreciation expense, which is estimated to total \$44.9 million over ten years. The ten-year capital improvement plan allows for installing all remaining meters (approximately 600) on unmetered connections. The District is required by state law to have all water connections metered by the year 2025. This project is utilizing funding from low-cost loans from the State Water Resources Control Board. The capital improvement plan also allows for the replacement of a portion of the

undersized waterlines in the water distribution system and installation of additional fire hydrants. Currently, approximately 10% of the distribution system is undersized and does not provide adequate flows for fire protection. Other capital projects in the Plan include booster station and water tank improvements, heavy equipment replacement, and technological equipment upgrades. Thirty-nine percent of the infrastructure costs are forecasted to be self-funded and the remaining 61% of the costs are borrowed from lenders. The District is seeking to borrow approximately \$40.0 million from the California State Revolving Loan Program through the State Water Resources Control Board in the form of low-interest loans. See the accompanying Capital Outlay schedules for details by department and project or item.

CASH RESERVES

The District prudently maintains minimum reserve levels to address unexpected expenditures or reduction in revenue sources. Reserves are available for debt, operations, capital projects, and to avoid large rate increases. The operating reserve is equal to two months of operating expenses, while the capital reserve when combined with borrowings, if any, is at least the amount of the next year’s budgeted capital spending. The sewer fund rate stabilization and debt reserve is equal to one year’s property tax receipts while the water fund reserve is equal to ten percent of service charge revenues in fiscal years 2021 and 2022, fifteen percent in 2023 – 2025, and twenty percent in 2026 - 2030. At June 30, 2030, the end of this ten-year forecast, the District's reserves are forecast as follows:

	<u>SEWER FUND</u>	<u>WATER FUND</u>
Capital Outlay Reserve	\$12,899,415	\$9,995,549
Rate Stabilization/Debt Reserve	9,615,999	4,404,200
Operating Reserve	<u>4,610,903</u>	<u>3,147,293</u>
Total	\$27,126,317	\$17,547,042

## RATE CHANGES

The adopted budget for fiscal year 2020/21 (year one of the ten-year forecast) includes a 0% increase to water rates and 0% increase to sewer rates. Following issuance of a multi-year Proposition 218 notice in 2019, the Board of Directors adopted a five-year rate schedule. Fiscal year 2020/21 represents year two of the rate schedule which included 6% and 5% rate increases to water and sewer service charge rates. Due to the negative economic impact caused by COVID-19, the Board chose not to implement the increases. Rate changes for years two-through-ten are forecasted at 6% per year for the water fund and 5% for the sewer fund to complete the capital improvement plans discussed above. The continued need for infrastructure maintenance and replacement, along with the day-to-day operating expenditures of the District, necessitates consistent marginal rate adjustments. The District Board of Directors and a majority of the ratepayers have historically preferred this methodology over occasional large rate adjustments.

**SEWER FUND**  
**TEN-YEAR FINANCIAL PLAN**

SOUTH TAHOE PUBLIC UTILITY DISTRICT

**SEWER TEN-YEAR FINANCIAL PLAN**

	2020/21 FORECAST	2020/21 FORECAST	2021/22 FORECAST	2021/22 FORECAST	2022/23 FORECAST	2022/23 FORECAST	2023/24 FORECAST	2023/24 FORECAST	2024/25 FORECAST	2024/25 FORECAST
	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE
BEGINNING CASH BALANCES	3,593,398	25,665,883	3,683,861	24,356,939	3,803,484	19,757,411	3,925,897	17,063,651	4,155,014	15,536,182
REVENUES (1)	24,481,694	1,403,191	25,415,924	992,872	26,344,452	893,585	27,345,907	804,226	28,415,335	723,804
BORROWINGS	<b>3,000,000</b>			<b>3,025,000</b>	0	<b>6,227,000</b>	0	<b>6,363,000</b>	0	<b>6,617,500</b>
AVAILABLE FUNDS	31,075,092	27,069,073	29,099,785	28,374,811	30,147,936	26,877,996	31,271,804	24,230,878	32,570,349	22,877,486
SALARIES (2)	6,776,800	968,775	6,980,104	997,838	7,189,507	1,027,773	7,405,192	1,058,607	7,627,348	1,090,365
BENEFITS (2)	3,714,050	422,275	3,825,472	434,943	3,940,236	447,992	4,058,443	461,431	4,180,196	475,274
OPERATIONS & MAINTENANCE (2)	6,159,415	545,850	6,042,277	924,267	6,163,123	813,752	6,286,385	830,027	6,412,113	846,628
CAPITAL OUTLAY		8,000,200		11,092,800		12,481,000		10,881,400		10,176,600
DEBT SERVICE	771,000	2,745,000	805,000	2,811,000	835,000	3,138,000	1,236,000	3,594,000	1,209,000	3,370,000
TOTAL CASH OUTLAYS	17,421,265	12,682,100	17,652,853	16,260,849	18,127,865	17,908,517	18,986,020	16,825,465	19,428,657	15,958,867
BALANCE BEFORE TRANSFERS	<b>13,653,827</b>	<b>14,386,973</b>	<b>11,446,932</b>	<b>12,113,962</b>	<b>12,020,070</b>	<b>8,969,478</b>	<b>12,285,784</b>	<b>7,405,412</b>	<b>13,141,692</b>	<b>6,918,619</b>
CAPITAL OUTLAY FUND TRANSFERS	-9,969,966	9,969,966	-7,643,448	7,643,448	-8,094,173	8,094,173	-8,130,770	8,130,770	-8,939,871	8,939,871
ACCRUAL TO CASH ADJUSTMENT		0		0		0		0		0
RATE STABILIZATION AND DEBT RESERVES		-8,049,000		-8,210,000		-8,374,000		-8,541,000		-8,711,000
OPERATING AND CAPITAL OUTLAY RESERVES (3)	3,683,861	16,307,939	3,803,484	11,547,411	3,925,897	8,689,651	4,155,014	6,995,182	4,201,821	7,147,490
<b>WATER FUND LOAN</b>										
DEBT PAYMENT RESERVE FUND		1,347,837		1,347,837		1,703,707		2,647,423		3,817,913
RATE STABILIZATION FUND (4)		6,701,163		6,862,163		6,670,293		5,893,577		4,893,087
TOTAL RESERVE BALANCES	3,683,861	24,356,939	3,803,484	19,757,411	3,925,897	17,063,651	4,155,014	15,536,182	4,201,821	15,858,490
AMORTIZATION (NON-CASH ITEM)	25,490		25,490		25,490		25,490		25,490	
DEPRECIATION (NON-CASH ITEM)	5,094,000		5,195,000		5,298,000		5,403,000		5,511,000	

**ASSUMPTIONS:**

**(1) REVENUES**

Enterprise Revenue includes property taxes, service charges, interest income and other misc revenue.

Capital Fund Revenue includes capacity charges and capital grant receipts.

Service charge rates increase 5.0% in years 2020/21 - 2028/29 and 2% in 2029/30.

Investments earn 1% to 3.0% net of management fees.

Capacity fees in 2020/21 are budgeted using a three year average. Subsequent years reduced 10% annually.

2016/17 included a \$3.0M bridge loan to the Water Fund which will be paid back by 2020/21 year end.

**(2) EXPENDITURES**

Benefits include a 3.0% escalator beginning 2021/22 due to potential PERS/health insurance increases.

Salaries include a 3.0% escalator beginning 2021/22 to account for standard step increases and other potential adjustments.

O&M Expenses & Depreciation increase at 2.0% per year. Specific known changes adjusted as appropriate.

Ten Year CIP plan in the amount of \$91.5 million (Includes all departments).

Debt Service includes principle & interest payments for current debt and additional debt of \$30.1 million over the ten year forecast.

\$150,000 contingency reserve for all years.



SOUTH TAHOE PUBLIC UTILITY DISTRICT

<b>SEWER TEN-YEAR FINANCIAL PLAN (CONTINUED)</b>										
	2025/26 FORECAST	2025/26 FORECAST	2026/27 FORECAST	2026/27 FORECAST	2027/28 FORECAST	2027/28 FORECAST	2028/29 FORECAST	2028/29 FORECAST	2029/30 FORECAST	2029/30 FORECAST
	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE
BEGINNING CASH BALANCES	4,201,821	15,858,490	4,335,549	16,649,375	4,429,267	19,575,039	4,468,045	20,833,494	4,509,455	19,287,575
REVENUES (1)	29,557,784	651,423	30,761,305	586,281	32,052,953	527,653	33,374,783	474,888	34,118,109	427,399
BORROWINGS	0	<b>5,870,500</b>	0	<b>4,970,000</b>	0	<b>2,560,000</b>	0		0	
<b>AVAILABLE FUNDS</b>	<b>33,759,604</b>	<b>22,380,414</b>	<b>35,096,854</b>	<b>22,205,656</b>	<b>36,482,220</b>	<b>22,662,692</b>	<b>37,842,828</b>	<b>21,308,382</b>	<b>38,627,564</b>	<b>19,714,974</b>
SALARIES (2)	7,856,169	1,123,076	8,091,854	1,156,768	8,334,609	1,191,471	8,584,647	1,227,215	8,842,187	1,264,032
BENEFITS (2)	4,305,602	489,532	4,434,770	504,218	4,567,813	519,345	4,704,847	534,925	4,845,993	550,973
OPERATIONS & MAINTENANCE (2)	6,540,355	863,560	6,671,162	880,832	6,804,585	898,448	6,940,677	916,417	7,079,491	934,746
CAPITAL OUTLAY		9,141,800		6,722,600		7,035,100		8,297,450		3,550,800
DEBT SERVICE	1,577,000	3,258,000	1,488,000	3,348,000	1,395,000	3,097,000	1,312,000	2,836,000	1,231,000	2,917,000
<b>TOTAL CASH OUTLAYS</b>	<b>20,279,125</b>	<b>14,875,969</b>	<b>20,685,786</b>	<b>12,612,418</b>	<b>21,102,008</b>	<b>12,741,364</b>	<b>21,542,172</b>	<b>13,812,008</b>	<b>21,998,670</b>	<b>9,217,550</b>
BALANCE BEFORE TRANSFERS	<b>13,480,479</b>	<b>7,504,445</b>	<b>14,411,069</b>	<b>9,593,238</b>	<b>15,380,213</b>	<b>9,921,327</b>	<b>16,300,656</b>	<b>7,496,374</b>	<b>16,628,894</b>	<b>10,497,424</b>
CAPITAL OUTLAY FUND TRANSFERS	-9,144,930	9,144,930	-9,981,801	9,981,801	-10,912,167	10,912,167	-11,791,201	11,791,201	-12,017,990	12,017,990
ACCRUAL TO CASH ADJUSTMENT		0		0		0		0		0
RATE STABILIZATION AND DEBT RESERVES		-8,885,000		-9,062,000		-9,242,999		-9,426,999		-9,615,999
OPERATING AND CAPITAL OUTLAY RESERVES (3)	4,335,549	7,764,375	4,429,267	10,513,039	4,468,045	11,590,495	4,509,455	9,860,576	4,610,903	12,899,415
<b>WATER FUND LOAN</b>										
DEBT PAYMENT RESERVE FUND		3,817,913		3,817,913		3,817,913		3,817,913		3,817,913
RATE STABILIZATION FUND (4)		5,067,087		5,244,087		5,425,086		5,609,086		5,798,086
<b>TOTAL RESERVE BALANCES</b>	<b>4,335,549</b>	<b>16,649,375</b>	<b>4,429,267</b>	<b>19,575,039</b>	<b>4,468,045</b>	<b>20,833,494</b>	<b>4,509,455</b>	<b>19,287,575</b>	<b>4,610,903</b>	<b>22,515,414</b>
AMORTIZATION (NON-CASH ITEM)	25,490		25,490		25,490		25,490		25,490	
DEPRECIATION (NON-CASH ITEM)	5,621,000		5,733,000		5,847,000		5,963,000		6,082,000	

**(3) OPERATING & CAPITAL RESERVES**

Operating reserve is equal to two months of operating costs. Remaining reserves are for capital projects.

**(4) RATE STABILIZATION FUND**

The rate stabilization and debt reserve fund is equal to one years property tax receipts net of jurisdictional transfers

**RESULTS:**

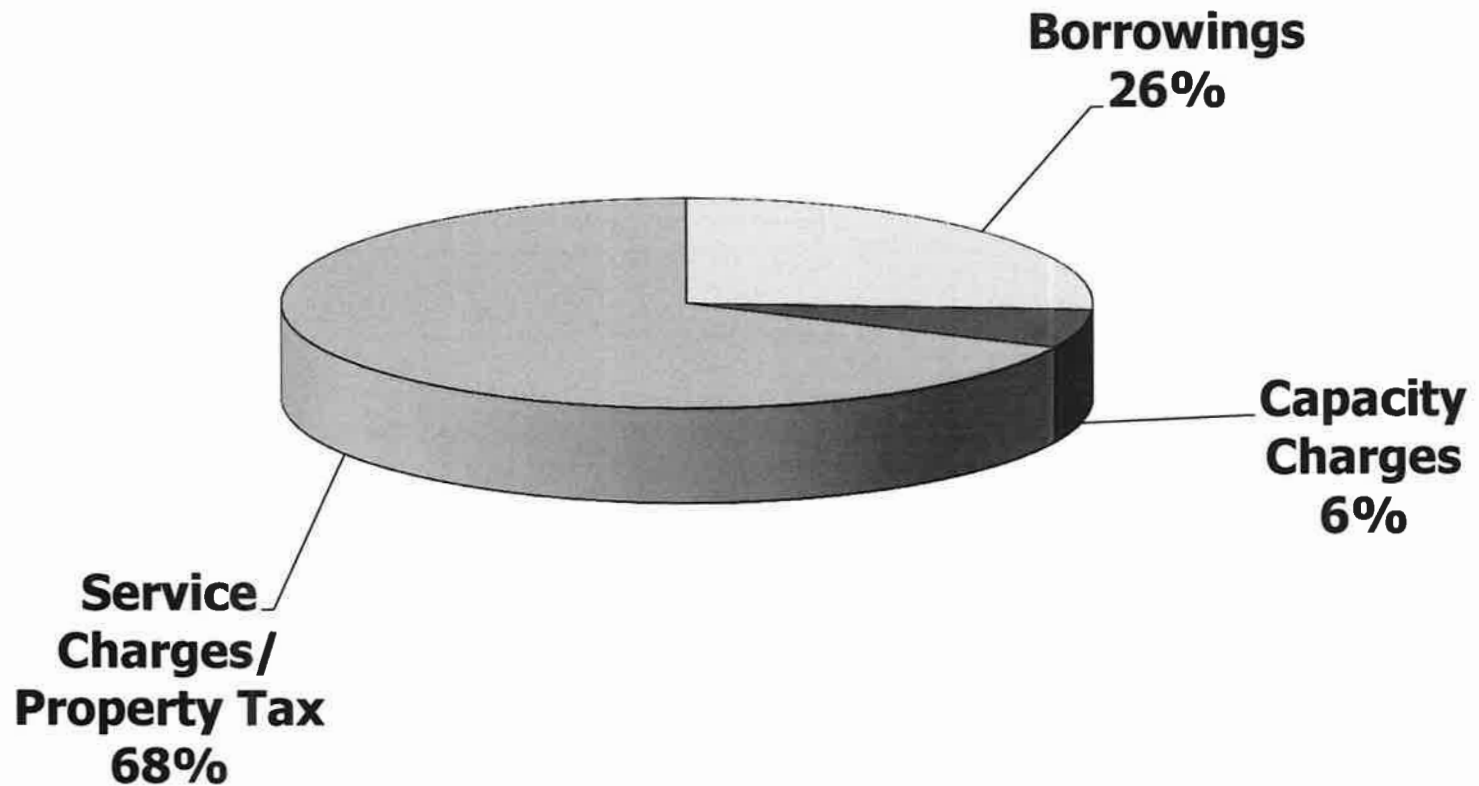
*Operating revenue covers operating expenses at all times.*

*District is in compliance with the "net revenue" debt covenants.*

*Capital Improvement Program is greater than 100% of depreciation*

# SEWER ENTERPRISE FUND

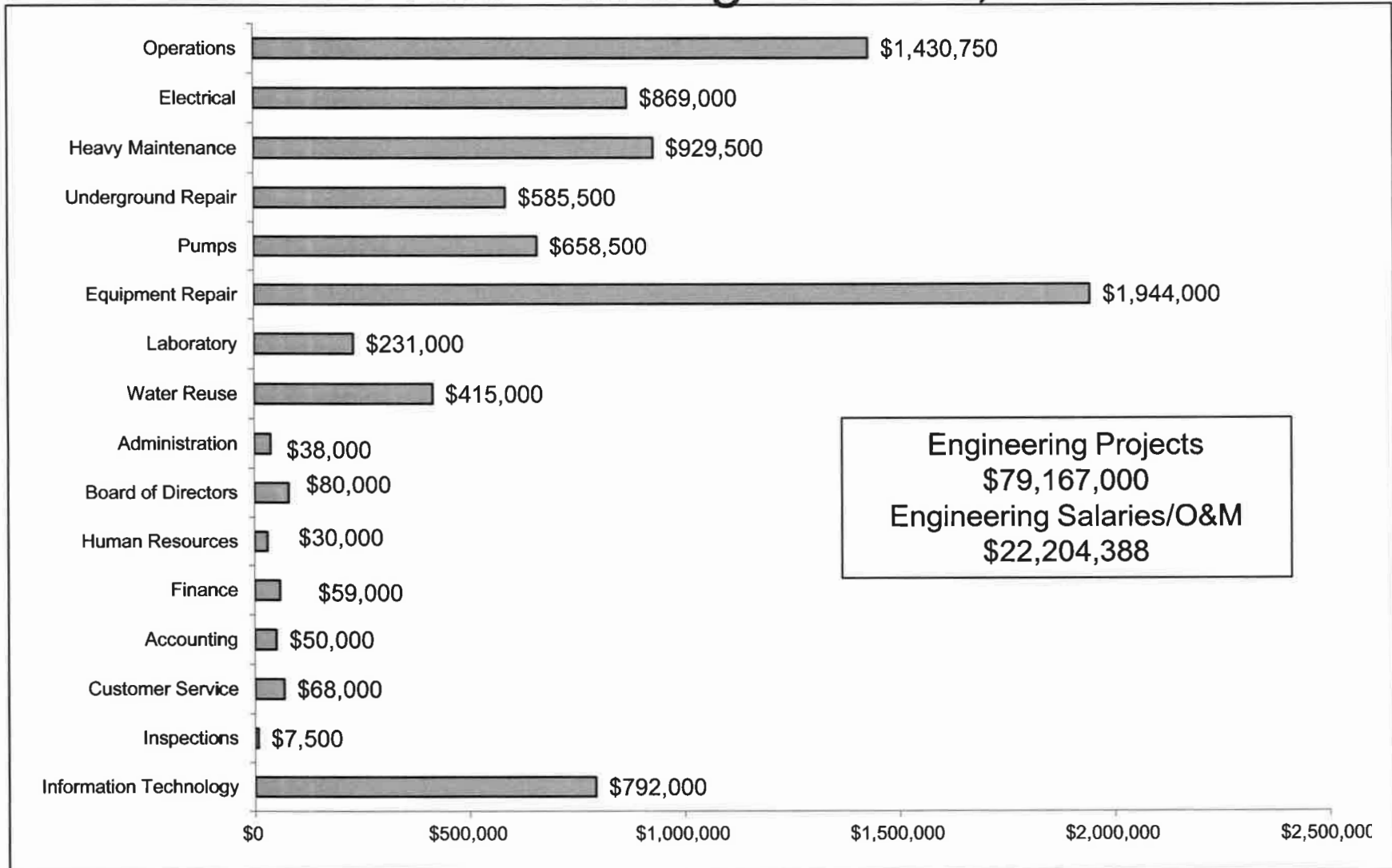
## Funding Sources for Capital Projects Fund



# SEWER ENTERPRISE FUND CAPITAL PROJECTS

## Ten Years Ending June 30, 2030

All Other  
Departments



**SEWER**

**TEN-YEAR CAPITAL PLAN**

**BY DEPARTMENT**

**and**

**BY PROJECT**

**SEWER TOTALS**

DEPARTMENT	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
UNDERGROUND REPAIR	65,000	16,500	43,500	16,500	72,000	16,500	4,500	141,500	13,000	196,500	585,500
PUMPS	10,000	78,500	76,500	76,500	77,000	60,000	60,000	60,000	110,000	50,000	658,500
ELECTRICAL	80,500	110,000	110,000	85,000	80,000	85,000	81,500	82,000	70,000	85,000	869,000
HEAVY MAINTENANCE	164,500	195,000	105,000	58,000	113,000	110,000	35,000	55,000	94,000	0	929,500
EQUIPMENT REPAIR	147,200	842,000	450,000	67,400	387,000	42,600	0	7,800	0	0	1,944,000
OPERATIONS	247,000	491,000	76,300	75,300	80,900	79,900	114,700	84,800	90,850	90,000	1,430,750
LABORATORY	15,000	25,000	10,000	20,000	10,000	25,000	11,000	85,000	20,000	10,000	231,000
BOARD OF DIRECTORS	0	0	0	5,000	0	75,000	0	0	0	0	80,000
ADMINISTRATION	0	0	0	0	19,000	0	0	0	19,000	0	38,000
HUMAN RESOURCES	0	0	0	15,000	0	0	0	0	15,000	0	30,000
PUBLIC AFFAIRS/WATER CONSERVATION	0	0	0	0	0	0	0	0	0	0	0
WATER REUSE	22,000	81,800	42,700	33,700	34,700	35,800	46,900	38,000	39,100	40,300	415,000
ENGINEERING	7,028,000	9,197,000	11,460,000	10,374,000	9,180,000	8,456,000	6,262,000	6,481,000	7,676,000	3,053,000	79,167,000
INFORMATION SYSTEMS	152,000	6,000	107,000	55,000	60,000	156,000	107,000	0	123,000	26,000	792,000
CUSTOMER SERVICE	50,000	0	0	0	18,000	0	0	0	0	0	68,000
INSPECTIONS	0	0	0	0	0	0	0	0	7,500	0	7,500
FINANCE	19,000	0	0	0	20,000	0	0	0	20,000	0	59,000
ACCOUNTING	0	50,000	0	0	0	0	0	0	0	0	50,000
PURCHASING	0	0	0	0	0	0	0	0	0	0	0
ENGINEERING STAFF & EXPENSES	1,936,900	1,995,007	2,054,857	2,116,503	2,179,998	2,245,398	2,312,760	2,382,143	2,453,607	2,527,215	22,204,388
	9,937,100	13,087,807	14,535,857	12,997,903	12,331,598	11,387,198	9,035,360	9,417,243	10,751,057	6,078,015	109,559,138

**SEWER OPERATIONS**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 OTHER PLANT IMPROVEMENTS **		71,000	73,100	75,300	77,600	79,900	82,300	84,800	87,350	90,000	721,350	1
2 HIGH EFFICIENCY BLOWER		300,000									300,000	2
3 REPLACE CHEMICAL STORAGE TANKS (5)	20,000	80,000									100,000	6
4 REPLACE POLYMER PUMP	20,000	20,000									40,000	7
5 REPLACE HYPO PUMPS	25,000										25,000	8
6 REPLACE AERATION BASIN WATERLINE	100,000										100,000	5
7 EPA SPILL CONTROL & COUNTERMEASURE PLAN REVIEW							17,000				17,000	7
8 SNOWBLOWER			3,200		3,300		3,400		3,500		13,400	8
9 REPLACE H2S METER							12,000				12,000	9
10 30 INCH ERB VALVE		20,000									20,000	10
11 RETURNED ACTIVATED SLUDGE LINE REHAB	67,000										67,000	11
12 AB #1 D.O. INSTRUMENTATION	15,000										15,000	12
	247,000	491,000	76,300	75,300	80,900	79,900	114,700	84,800	90,850	90,000	1,430,750	

\*\* Includes a 3% increase per year (rounded).



**SEWER HEAVY MAINTENANCE**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REBUILD SECONDARY CLARIFIER DRIVE		60,000									60,000	1
2 REPLACE LINERS FOR SLUDGE AUGERS		20,000							20,000		40,000	2
3 REBUILD CENTRIFUGES		35,000	35,000			90,000	90,000		35,000	35,000	320,000	3
4 REBUILD SLUDGE PUMPS (BIOSOLIDS BLDG.)	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	72,000	4
5 REPLACE ROLL-UP DOOR	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	12,000	108,000	5
6 REPLACE TOOLS: PORTABLE/TIG WELDER			10,000								10,000	6
7 REPLACE PLANT AIR COMPRESSOR				3,000	3,000				3,000		9,000	7
8 REPLACE A- LINE SURGE AIR COMPRESSOR				15,000			15,000				30,000	8
9 UTILITY VEHICLE (3)									16,000		16,000	9
10 BIO SCRUBBER MEDIA REPLACEMENT				20,000							20,000	10
11 HVAC SERVER ROOM	100,000										100,000	11
12 FINAL/SECONDARY PUMP REBUILD (4)		40,000	40,000								80,000	12
13 #3 WATER PUMPS		20,000									20,000	13
14 BIO BUILDING HVAC UPGRADES	30,000										30,000	14
15 AIR GAP PACKAGE UNIT	14,500										14,500	15
	164,500	195,000	105,000	58,000	113,000	110,000	35,000	55,000	94,000	0	929,500	



**SEWER UNDERGROUND REPAIR**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 SMART COVERS		16,500		16,500		16,500		16,500		16,500	82,500	1
2 REPLACE HYDRAULIC JACKHAMMER			4,000				4,500				8,500	2
3 REPLACE MAIN/PORTABLE CAMERAS								100,000		100,000	200,000	3
4 CONFINED SPACE EQUIPMENT			7,500							15,000	22,500	4
5 REPLACE STAND ALONE LATERAL CAMERA			20,000								20,000	5
6 HYDRO NOZZLES					12,000				13,000		25,000	6
7 PORTABLE HYDRO UNIT								25,000			25,000	7
8 FOUR RACKS, 8 REELS OF 8" LAY FLAT HOSE (660' PER REEL)					60,000					65,000	125,000	8
9 REPLACE TV CABLE			12,000								12,000	9
10 CAMERA FOR RIVER CROSSINGS	65,000										65,000	10
	65,000	16,500	43,500	16,500	72,000	16,500	4,500	141,500	13,000	196,500	585,500	

**SEWER PUMPS**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 SECURITY MEASURES		13,500	26,500	26,500	10,000	10,000	10,000	10,000			106,500	1
2 PUMP REBUILDING		50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	450,000	2
3 REPLACE BIJOU PLMP #2					17,000						17,000	3
4 REPLACE PUMP #2 TAYLOR CREEK SPS		15,000									15,000	4
5 REPLACE PUMP #1 TROUT CREEK SPS								30,000			30,000	5
6 REPLACE PUMP #2 TROUT CREEK SPS								30,000			30,000	6
7 CONFINED SPACE RESCUE TRAILER/EQUIPMENT	10,000										10,000	7
	10,000	78,500	76,500	76,500	77,000	60,000	60,000	60,000	110,000	50,000	658,500	

**SEWER EQUIPMENT REPAIR - PAGE 1**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REPLACE ENGINE/TRANSMISSION (TBD)	7,200	10,000		7,400		7,600		7,800			40,000	1
2 REPLACE GENERATORS	75,000	75,000			60,000						210,000	2
3 6" GODWIN PUMP (OPERATIONS)	65,000										65,000	3
	147,200	85,000	0	7,400	60,000	7,600	0	7,800	0	0	315,000	

**SEWAIR EQUIPMENT REPAIR (VEHICLES) - PAGE 2**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REPLACE U/R TRUCK #1 (1988)			60,000								60,000	1
2 REPLACE U/R TRUCK #4 (2011)			60,000								60,000	2
3 REPLACE U/R TRUCK #20 (2001)		35,000									35,000	3
4 REPLACE U/R TRUCK #52 (1998)					27,000						27,000	4
5 REPLACE UR TRUCK #44					50,000						50,000	5
6 REPLACE FIELD OPERATIONS TRUCK #38			30,000								30,000	6
7 REPLACE PUMPS TRUCK #59 (2010)		40,000									40,000	7
8 REPLACE PUMPS TRUCK #30 (2007)				25,000							25,000	8
9 REPLACE PUMPS TRUCK #36 (2004 VACUUM)		150,000									150,000	9
10 REPLACE PUMPS SNOWMOBILE			50,000								50,000	10
11 REPLACE ELECTRIC SHOP TRUCK #51(2011)						35,000					35,000	11
12 REPLACE ELECTRIC SHOP TRUCK #28 (2001)					40,000						40,000	12
13 REPLACE ELECTRIC SHOP TRUCK #2 (1997)		40,000									40,000	13
14 REPLACE ELECTRIC SHOP TRUCK #21 (2002)			45,000								45,000	14
15 REPLACE H/M WELDING TRUCK #19 (2008)		40,000									40,000	15
16 REPLACE H/M ONE TON TRUCK #14 (2002)		140,000									140,000	16
17 HEAVY MAINT. ARTICULATING MANLIFT (2006)					100,000						100,000	17
18 REPLACE EQUIP. REPAIR TRUCK #11 (2008)					45,000						45,000	18
19 REPLACE OPS TRUCK #74 (2007)					35,000						35,000	19
20 REPLACE LAB TRUCK #49 (2011)					30,000						30,000	20
21 REPLACE WATER REUSE TRUCK #50 (2006)			45,000								45,000	21
22 REPLACE WATER REUSE UTILITY VEHICLE (2005)		17,000									17,000	22
23 REPLACE WATER REUSE DUMP TRUCK #56 (2009)			80,000								80,000	23
24 REPLACE WATER REUSE BACKHOE #29 (2004)		120,000									120,000	24
25 NEW WATER REUSE MOTOR GRADER		150,000									150,000	25
26 REPLACE ENGINEERING VEHICLE #73 (2002)				35,000							35,000	26
27 REPLACE ENGINEERING VEHICLE #76 (2004)			35,000								35,000	27
28 REPLACE INSPECTIONS TRUCK #18 W/SHELL (2007)		25,000									25,000	28
29 NEW ENGINEERING VEHICLE (HYBRID)			45,000								45,000	29
<hr/>												
	0	757,000	450,000	60,000	327,000	35,000	0	0	0	0	1,629,000	
<b>TOTAL</b>	<b>147,200</b>	<b>842,000</b>	<b>450,000</b>	<b>67,400</b>	<b>387,000</b>	<b>42,600</b>	<b>0</b>	<b>7,800</b>	<b>0</b>	<b>0</b>	<b>1,944,000</b>	

**SEWER ENGINEERING - PAGE 1**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 WATER REUSE DIAMOND DITCH REHABILATION			281,000	290,000							571,000	1
2 WATER REUSE ROADS (PHASES 1 AND 2)	705,000	727,000									1,432,000	2
3 WATER REUSE - HAY BARN	309,000										309,000	3
4 SEWER REPAIR UNPLANNED REPAIRS	500,000										500,000	4
5 SEWER FORCE MAIN ASSET MANAGEMENT					466,000	111,000	114,000				691,000	5
6 SEWER FLOW MONITORING PROGRAM **		44,000	45,000	46,000	48,000	49,000	51,000	52,000	54,000	55,000	444,000	6
7 SEWER CROSSING CONDITION ASSESSMENT/IMPROVEMENTS **		328,000	338,000								666,000	7
8 TALLAC CREEK SEWER CROSSING				174,000	179,000						353,000	8
9 FM BYPASS - UPPER TRUCKEE	148,000										148,000	9
10 APACHE AVENUE SEWER	883,000										883,000	10
11 SANTA FE YARD IMPROVEMENTS	199,000										199,000	11
12 GRAVITY SEWER CCTV - EQUIPMENT/SPECIAL INSPECTIONS	85,000										85,000	12
13 SEWER REPLACEMENT - MASTER PLAN PRIORITY 1			1,781,000	3,669,000	1,890,000						7,340,000	13
14 FM BYPASS - TAHOE KEYS	136,000										136,000	14
15 BAL BIJOU ROAD GRAVITY MAIN CIPP (1A)		314,000	323,000								637,000	15
16 SEWER REPLACEMENT 89 AND 5TH				170,000	175,000						345,000	16
17 SEWER REPLACEMENT - MASTER PLAN PRIORITY 2					2,413,000	4,970,000	2,560,000				9,943,000	17
18 UPPER TRUCKEE RIVER GRAVITY MAIN CIPP (1B)							501,000	516,000			1,017,000	18
19 SKI RUN BLVD. GRAVITY MAIN REPLACEMENT (1C)							61,000	1,285,000	1,324,000		2,670,000	19
20 SHOP STREET GRAVITY MAIN REPLACEMENT (2C)								63,000	423,000	435,000	921,000	20
21 FORCE MAIN ARV REPLACEMENT PROJECT								158,000	326,000	168,000	652,000	21
22 FIELD COMMUNICATION UPGRADES PHASE 2	128,000	132,000									260,000	22
23 FIELD COMMUNICATION UPGRADES PHASE 3		150,000	155,000								305,000	23
24 SEWER PUMP STATION MONITORING PROGRAM **	172,000	177,000	182,000	186,000	193,000	199,000	205,000	211,000	218,000	224,000	1,969,000	24
25 TAHOE KEYS PUMP STATION REHABILITATION		3,116,000	3,116,000								6,232,000	25
	3,265,000	4,988,000	6,221,000	4,537,000	5,364,000	5,329,000	3,492,000	2,285,000	2,345,000	882,000	38,708,000	

\*\* Includes a flat rate cost per year.

**SEWER ENGINEERING - PAGE 2**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
26 UPPER TRUCKEE PUMP STATION REHABILITATION			1,957,000	1,957,000							3,914,000
27 LPPS TANK COATING AND CATHODIC PROTECTION	1,346,000	423,000									1,769,000
28 BIJOU PUMP STATION REHABILITATION				422,000	434,000						856,000
29 WET WELL IMPROVEMENTS, COATING, REPAIRS								380,000	391,000		771,000
30 JOHNSON PUMP STATION REHABILITATION							190,000	720,000	742,000		1,652,000
31 LPPS VALVE AND PIPING IMPROVEMENTS	515,000										515,000
32 LPPS FUEL TANK ROOF		106,000									106,000
33 AL TAHOE PUMP STATION REHABILITATION								261,000	1,950,000	2,009,000	4,220,000
34 PIONEER VILLAGE PUMP STATION					58,000	396,000	408,000				862,000
35 PUMP STATION SWITCH GEAR IMPROVEMENTS		164,000									164,000
36 POPE BEACH #1 PUMP STATION IMPROVEMENTS			55,000	108,000	111,000						274,000
37 POPE BEACH #2 PUMP STATION IMPROVEMENTS			55,000	108,000	111,000						274,000
38 BELLEVUE PUMP STATION IMPROVEMENTS					239,000	519,000	535,000				1,293,000
39 SCADA UPGRADES **	11,000	11,000	11,000	12,000	12,000	12,000	13,000	13,000	13,000	14,000	122,000
40 WWTP MASTER PLAN		133,000									133,000
41 SHOP FACILITIES MASTER PLAN		109,000	113,000								222,000
42 RECYCLED WATER MASTER PLAN		219,000	225,000								444,000
43 EMERGENCY BLOWER GENERATOR	427,000	440,000									867,000
44 SECONDARY CLARIFIER 1 REHAB			1,341,000	1,381,000							2,722,000
45 SECONDARY CLARIFIER 2 REHAB		1,302,000	1,341,000								2,643,000
46 SECONDARY CLARIFIER 3 REHAB	1,284,000	1,302,000									2,586,000
47 PLANT PAVING (CENTER ROAD)					358,000						358,000
48 LOWER FOUNTAIN SHOPS IMPROVEMENTS (3)				169,000	771,000	1,230,000	1,267,000	652,000			4,089,000
49 WWTP BALLAST PONDS					896,000	922,000					1,818,000
50 BLOWER SYSTEM IMPROVEMENTS	200,000			700,000	721,000						1,621,000
51 FILTERS 1,2 REHAB				778,000							778,000
52 RAS BUILDING REHABILITATION (3)							184,000	1,415,000	1,457,000		3,056,000
53 PLANT ELECTRICAL UPGRADES							123,000	687,000	708,000		1,518,000
54 BIO BUILDING ODOR CONTROL										69,000	69,000
55 TANKS COATINGS TOUCHUP PROJECT 1			109,000	113,000							222,000
56 TANKS ASSET MANAGEMENT PROGRAM			32,000	33,000	47,000	48,000	50,000	68,000	70,000	79,000	427,000
57 WWTP ELECTRICAL SUBMETERING					58,000						58,000
58 CAPITAL OUTLAY ROLLOVERS FROM 2018-19				56,000							56,000
	3,763,000	4,209,000	5,239,000	5,837,000	3,816,000	3,127,000	2,770,000	4,196,000	5,331,000	2,171,000	40,459,000
<b>TOTAL</b>	<b>7,028,000</b>	<b>9,197,000</b>	<b>11,460,000</b>	<b>10,374,000</b>	<b>9,180,000</b>	<b>8,456,000</b>	<b>6,262,000</b>	<b>6,481,000</b>	<b>7,676,000</b>	<b>3,053,000</b>	<b>79,167,000</b>

\*\* Includes a flat rate cost per year.

**SEWER LABORATORY**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
1 REPLACE FINAL SAMPLER	10,000								10,000		20,000
2 REPLACE SECONDARY SAMPLER								10,000			10,000
3 REPLACE PRIMARY SAMPLER								10,000			10,000
4 REPLACE HYDROLAB DATA SONDE			10,000			20,000					30,000
5 REPLACE RAW SAMPLER				10,000							10,000
6 REPLACE AMPEROMETRIC C12 TITRATOR							6,000				6,000
7 REPLACE LAB FIELD METERS (3)					10,000				10,000		20,000
8 REPLACE ALPINE MONITORING WELLS		20,000									20,000
9 REPLACE SAMPLE THREE-DOOR REFRIGERATOR				10,000							10,000
10 REPLACE ION CHROMATOGRAPH								60,000			60,000
11 QUANTI-TRAY SEALER						5,000					5,000
12 REPLACE GEOTECH PUMP CONTROLLER							5,000				5,000
13 REPLACE FULTZ PUMP CONTROLLER	5,000							5,000			10,000
14 REPLACE 104 DEGREE OVEN		5,000									5,000
15 BOD REFRIDGERATOR										10,000	10,000
	15,000	25,000	10,000	20,000	10,000	25,000	11,000	85,000	20,000	10,000	231,000

**SEWER WATER REUSE**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 FENCING DIAMOND VALLEY RANCH	7,000										7,000	1
2 UNDESIGNATED PROJECTS **		31,800	32,700	33,700	34,700	35,800	36,900	38,000	39,100	40,300	323,000	2
3 PAVING/SEALING ROADS			10,000				10,000				20,000	3
4 NUTRIENT MANAGEMENT PLAN		50,000									50,000	4
5 MINE REVEG	10,000										10,000	5
6 NEW INVERTED SIPHON VAULT	5,000										5,000	6
	22,000	81,800	42,700	33,700	34,700	35,800	46,900	38,000	39,100	40,300	415,000	

\*\* Includes a 3% increase per year (rounded).



**SEWER ADMINISTRATION**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REPLACE COPIER					19,000				19,000		38,000	1
	0	0	0	0	19,000	0	0	0	19,000	0	38,000	



**SEWER HUMAN RESOURCES**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REPLACE COPIER				15,000					15,000		30,000	1
	0	0	0	15,000	0	0	0	0	15,000	0	30,000	

SEWER FINANCE

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
1 REPLACE PRINTER/COPIER/FAX MACHINE	19,000				20,000				20,000		59,000
	19,000	0	0	0	20,000	0	0	0	20,000	0	59,000

**SEWER ACCOUNTING**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 TYLER HR/PAYROLL REPLACEMENT SOFTWARE		50,000									50,000	1
	0	50,000	0	0	0	0	0	0	0	0	50,000	



**SEWER CUSTOMER SERVICE**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REPLACE COPIER/PRINTER/FAX					18,000						18,000	1
2 CUSTOMER SERVICE REMODEL - SAFETY ENHANCEMENTS	50,000										50,000	2
	50,000	0	0	0	18,000	0	0	0	0	0	68,000	

**SEWER INSPECTIONS**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REPLACE DIGITAL LOCATING EQUIP. (2)									7,500		7,500	1
	0	0	0	0	0	0	0	0	7,500	0	7,500	





**SEWER PUBLIC AFFAIRS/WATER CONSERVATION**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
	0	0	0	0	0	0	0	0	0	0	0

**WATER FUND**  
**TEN-YEAR FINANCIAL PLAN**

SOUTH TAHOE PUBLIC UTILITY DISTRICT

WATER TEN-YEAR FINANCIAL PLAN										
	2020/21 FORECAST	2020/21 FORECAST	2021/22 FORECAST	2021/22 FORECAST	2022/23 FORECAST	2022/23 FORECAST	2023/24 FORECAST	2023/24 FORECAST	2024/25 FORECAST	2024/25 FORECAST
	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE
BEGINNING CASH BALANCES	1,972,296	7,778,533	2,709,581	3,091,191	2,271,933	4,587,292	2,352,402	5,789,061	2,507,573	8,278,505
REVENUES (1)	14,803,043	1,766,000	14,217,000	1,766,000	15,130,000	1,766,000	16,100,000	1,766,000	17,142,000	1,766,000
BORROWINGS		<b>2,999,335</b>		<b>4,849,000</b>		<b>4,696,000</b>		<b>4,788,000</b>		<b>3,790,000</b>
AVAILABLE FUNDS	16,775,339	12,543,868	16,926,581	9,706,191	17,401,933	11,049,292	18,452,402	12,343,061	19,649,573	13,834,505
SALARIES (2)	4,003,000	968,775	4,123,090	997,838	4,246,783	1,027,773	4,374,186	1,058,607	4,505,412	1,090,365
BENEFITS (2)	2,167,200	422,275	2,232,216	434,943	2,299,182	447,992	2,368,158	461,431	2,439,203	475,274
OPERATIONS & MAINTENANCE (2)	3,647,375	1,035,500	3,688,801	843,710	3,784,099	860,584	3,838,258	877,796	3,915,024	895,352
CAPITAL OUTLAY		7,270,000		6,151,000		6,204,400		4,973,000		5,891,600
DEBT SERVICE (2)	461,360	552,000	402,000	909,000	523,000	925,000	856,000	1,211,000	874,000	1,563,000
TOTAL CASH OUTLAYS	13,278,935	10,248,550	10,446,107	9,336,492	10,853,064	9,465,749	11,436,603	8,581,834	11,733,638	9,915,591
BALANCE BEFORE TRANSFERS	3,496,404	2,295,318	6,480,474	369,700	6,548,869	1,583,543	7,015,800	3,761,227	7,915,935	3,918,914
CAPITAL OUTLAY FUND TRANSFERS	-795,874	795,874	-4,217,592	4,217,592	-4,205,518	4,205,518	-4,517,278	4,517,278	-5,298,714	5,298,714
ACCRUAL TO CASH ADJUSTMENT	9,051	0	9,051	0	9,051	0	9,051	0	9,051	0
RATE STABILIZATION AND DEBT RESERVES		-1,335,100		-1,417,600		-2,257,650		-2,397,000		-2,545,050
OPERATING AND CAPITAL OUTLAY RESERVES (3)	2,709,581	1,756,091	2,271,933	3,169,692	2,352,402	3,531,411	2,507,573	5,881,505	2,626,271	6,672,579
<b>SEWER FUND LOAN REPAYMENT</b>		<b>3,000,000</b>								
DEBT PAYMENT RESERVE FUND		608,857		1,043,614		1,609,384		1,946,793		1,946,793
RATE STABILIZATION RESERVE (4)		726,243		373,986		648,266		450,207		598,257
TOTAL RESERVE BALANCES	2,709,581	3,091,191	2,271,933	4,587,292	2,352,402	5,789,061	2,507,573	8,278,505	2,626,271	9,217,629
AMORTIZATION (NON-CASH ITEM)	9,149		9,149		9,149		9,149		9,149	
DEPRECIATION (NON-CASH ITEM)	4,099,000		4,180,000		4,263,000		4,348,000		4,434,000	

**ASSUMPTIONS:**

**(1) REVENUES**

Enterprise revenue includes service charges, interest income and other misc revenue.  
 Capital Fund revenue includes capacity charges, capital grants and capital improvement charges  
 Service charge rates increase 6.0% in 2020/21 - 2028/29 and 2% in 2029/30.  
 Investments earn 1% to 3% net of investment fees.  
 Commercial capacity fees projected assume collections equivalent to a 4" connection.  
 Residential capacity fees are based on 30 residential allocations each year.  
 2016/17 included a \$3.0M bridge loan from the Sewer Fund which will be paid back by 2020/21 year end.

**(2) EXPENDITURES**

O&M Expenses and Depreciation increase at 2.0% per year. Specific known changes adjusted as appropriate.  
 Benefits include a 3% escalator beginning year 2020/21 due to potential PERS/health insurance increases.  
 Salaries include a 3% escalator beginning 2020/21 to account for standard step increases and other potential adjustments.  
 Ten Year CIP plan in the amount of \$73.4 million (Includes all departments)  
 Debt Service includes principle and interest payments on current debt as well as an additional \$37.3M million over the ten year forecast.  
 \$150,000 contingency reserve for all years.

SOUTH TAHOE PUBLIC UTILITY DISTRICT

**WATER TEN-YEAR FINANCIAL PLAN (CONTINUED)**

	2025/26 FORECAST	2025/26 FORECAST	2026/27 FORECAST	2026/27 FORECAST	2027/28 FORECAST	2027/28 FORECAST	2028/29 FORECAST	2028/29 FORECAST	2029/30 FORECAST	2029/30 FORECAST
	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE	ENTERPRISE FUND	CAPITAL OUTLAY RESERVE
BEGINNING CASH BALANCES	2,626,271	9,217,629	2,814,357	7,373,450	2,874,374	10,160,391	3,018,532	11,084,040	3,082,045	11,374,756
REVENUES (1)	18,229,000	1,766,000	19,354,000	1,766,000	20,595,000	1,766,000	21,888,000	1,766,000	22,386,000	1,766,000
BORROWINGS		<b>2,227,000</b>		<b>6,356,000</b>		<b>3,861,000</b>		<b>3,162,000</b>		<b>3,257,000</b>
AVAILABLE FUNDS	20,855,271	13,210,629	22,168,357	15,495,450	23,469,374	15,787,391	24,906,532	16,012,040	25,468,045	16,397,756
SALARIES (2)	4,640,574	1,123,076	4,779,791	1,156,768	4,923,185	1,191,471	5,070,881	1,227,215	5,223,007	1,264,032
BENEFITS (2)	2,512,379	489,532	2,587,750	504,218	2,665,383	519,345	2,745,344	534,925	2,827,704	550,973
OPERATIONS & MAINTENANCE (2)	3,993,324	913,259	4,073,191	931,524	4,154,654	950,154	4,237,748	969,158	4,322,502	988,541
CAPITAL OUTLAY		7,001,000		7,382,800		7,043,000		7,969,500		5,435,000
DEBT SERVICE (2)	1,289,000	1,925,000	1,237,000	1,976,000	1,473,000	2,234,000	1,409,000	2,298,000	1,342,000	2,365,000
TOTAL CASH OUTLAYS	12,435,277	11,451,867	12,677,732	11,951,310	13,216,222	11,937,971	13,462,972	12,998,798	13,715,214	10,603,545
BALANCE BEFORE TRANSFERS	<b>8,419,994</b>	<b>1,758,761</b>	<b>9,490,625</b>	<b>3,544,139</b>	<b>10,253,152</b>	<b>3,849,420</b>	<b>11,443,560</b>	<b>3,013,242</b>	<b>11,752,831</b>	<b>5,794,211</b>
CAPITAL OUTLAY FUND TRANSFERS	-5,614,688	5,614,688	-6,616,251	6,616,251	-7,234,620	7,234,620	-8,361,515	8,361,515	-8,605,538	8,605,538
ACCRUAL TO CASH ADJUSTMENT	9,051	0	0	0	0	0	0	0	0	0
RATE STABILIZATION AND DEBT RESERVES		-3,602,800		-3,825,200		-4,061,400		-4,311,600		-4,404,200
OPERATING AND CAPITAL OUTLAY RESERVES (3)	2,814,357	3,770,650	2,874,374	6,335,191	3,018,532	7,022,640	3,082,045	7,063,156	3,147,293	9,995,549
<b>SEWER FUND LOAN REPAYMENT</b>										
DEBT PAYMENT RESERVE FUND		2,732,237		2,732,237		3,225,705		3,225,705		3,225,705
RATE STABILIZATION RESERVE (4)		870,563		1,092,963		835,695		1,085,895		1,178,495
TOTAL RESERVE BALANCES	2,814,357	7,373,450	2,874,374	10,160,391	3,018,532	11,084,040	3,082,045	11,374,756	3,147,293	14,399,749
AMORTIZATION (NON-CASH ITEM)	9,149		9,149		9,149		9,149		9,149	
DEPRECIATION (NON-CASH ITEM)	4,522,000		4,612,000		4,704,000		4,798,000		4,893,000	

**(3) OPERATING & CAPITAL RESERVES**

Operating reserve is equal to two months of operating costs. Remaining reserves are available for debt service and capital projects.

**(4) RATE STABILIZATION AND DEBT PAYMENT RESERVES**

A reserve equal to 10% of water service charge revenue is established to provide a rate stabilization and debt reserve fund. Reserve increases to 15% of revenues in year 2022/23, 20% in 2025/26 to cover growing debt reserve.

**RESULTS:**

*Funding is available for all proposed Capital Projects and reserve levels comply with the Reserve Policy.*

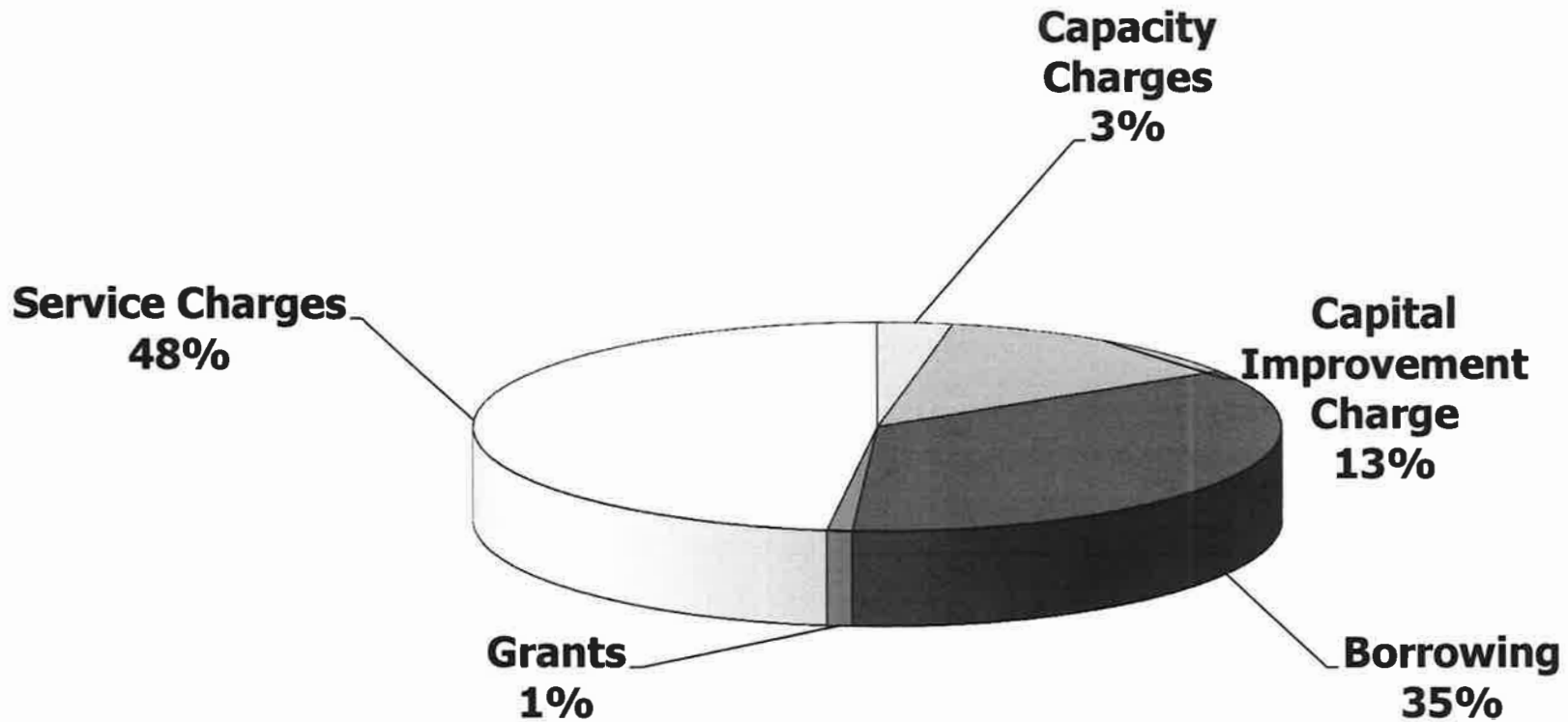
*Operating revenue covers operating expenses at all times.*

*District is in compliance with the "net revenue" debt covenants.*

*Capital Improvement Program is greater than 100% of depreciation*

# WATER ENTERPRISE FUND

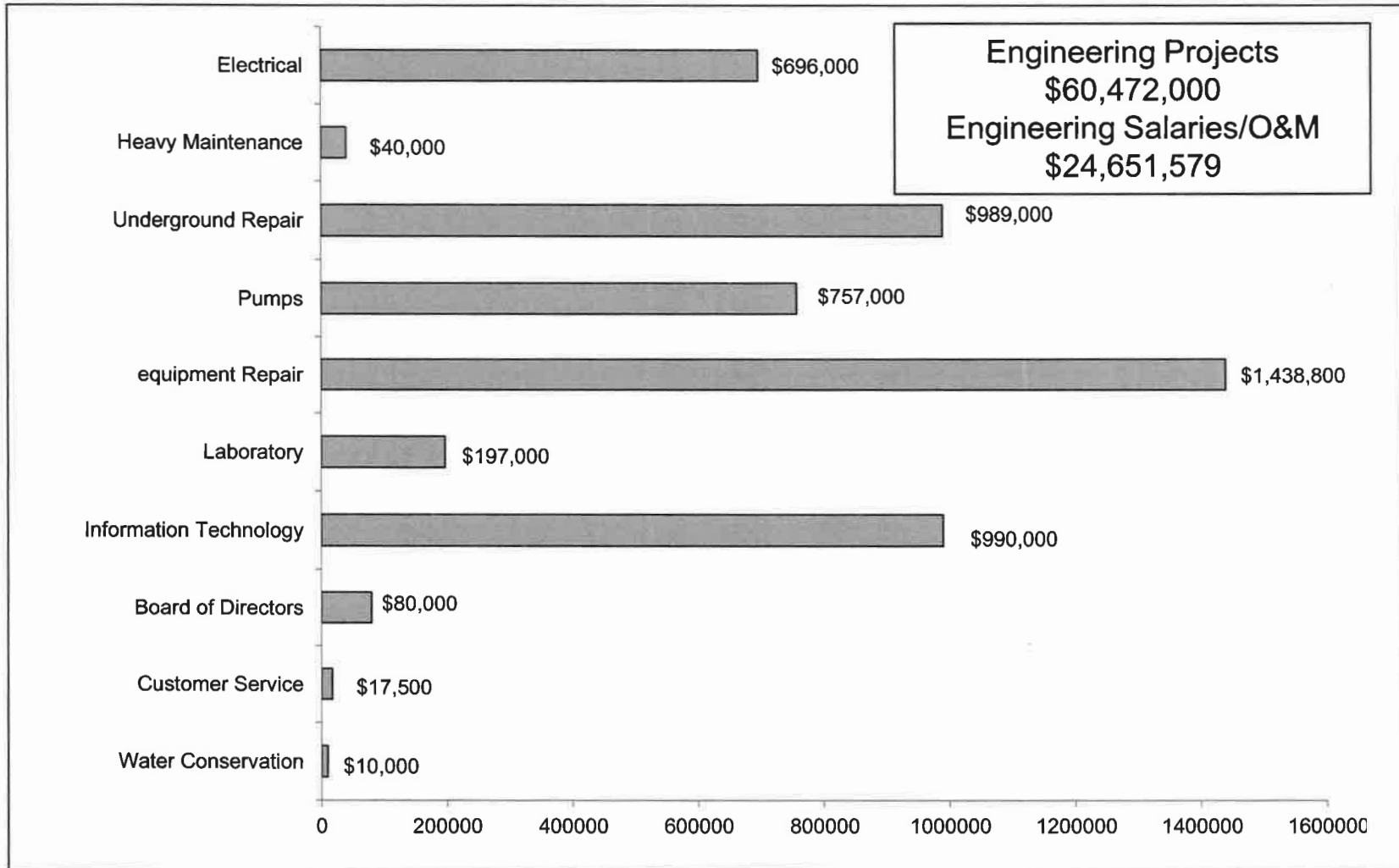
## Funding Sources for Capital Projects Fund



# WATER ENTERPRISE FUND CAPITAL PROJECTS

All Other  
Departments

## Ten Years Ending June 30, 2030



**WATER**

**TEN-YEAR CAPITAL PLAN**

**BY DEPARTMENT**

**and**

**BY PROJECT**



**WATER TOTALS**

DEPARTMENT	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
UNDERGROUND REPAIR	100,000	112,000	132,000	115,000	136,000	109,000	105,000	151,000	10,000	19,000	989,000
PUMPS	228,000	90,000	95,000	70,000	55,000	50,000	69,000	50,000	50,000	0	757,000
ELECTRICAL	45,000	70,000	90,000	90,000	94,000	85,000	87,000	65,000	5,000	65,000	696,000
HEAVY MAINTENANCE	0	0	10,000	0	10,000	0	10,000	0	10,000	0	40,000
EQUIPMENT REPAIR	325,000	65,000	285,400	180,000	267,600	80,000	7,800	0	228,000	0	1,438,800
LABORATORY	10,000	50,000	11,000	41,000	10,000	5,000	5,000	15,000	35,000	15,000	197,000
BOARD OF DIRECTORS	0	0	0	0	5,000	75,000	0	0	0	0	80,000
ADMINISTRATION	0	0	0	0	0	0	0	0	0	0	0
HUMAN RESOURCES	0	0	0	0	0	0	0	0	0	0	0
PUBLIC AFFAIRS/WATER CONSERVATION	10,000	0	0	0	0	0	0	0	0	0	10,000
ENGINEERING	6,888,000	5,649,000	5,557,000	4,277,000	5,206,000	6,476,000	7,074,000	6,654,000	7,445,000	5,246,000	60,472,000
INFORMATION SYSTEMS	30,000	115,000	24,000	200,000	108,000	121,000	25,000	108,000	169,000	90,000	990,000
CUSTOMER SERVICE	0	0	0	0	0	0	0	0	0	0	0
INSPECTIONS	0	0	0	0	0	0	0	0	17,500	0	17,500
FINANCE	0	0	0	0	0	0	0	0	0	0	0
ACCOUNTING	0	0	0	0	0	0	0	0	0	0	0
PURCHASING	0	0	0	0	0	0	0	0	0	0	0
ENGINEERING STAFF & EXPENSES	2,426,550	2,499,347	2,574,327	2,651,557	2,731,103	2,813,037	2,897,428	2,984,350	3,073,881	3,166,097	24,651,579
	10,062,550	8,650,347	8,778,727	7,624,557	8,622,703	9,814,037	10,280,228	10,027,350	11,043,381	8,601,097	90,338,879





**WATER UNDERGROUND REPAIR**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 IN-HOUSE WATERLINE REPLACEMENT UPSIZE	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000			800,000	1
2 REPLACE MOLE			8,000			9,000			10,000		27,000	2
3 REPLACE WACKER			5,000		5,000		5,000				15,000	3
4 REPLACE VACUUM ON VEHICLE #77			19,000					20,000			39,000	4
5 VACUUM FOR STANDBY TRUCK #61 (VALVE EXER. PROG.)					18,000					19,000	37,000	5
6 VALVE EXERCISE EQUIPMENT				15,000				18,000			33,000	6
7 LINE LOCATOR		6,000			6,500			6,500			19,000	7
8 LINE LOCATOR		6,000			6,500			6,500			19,000	8
	100,000	112,000	132,000	115,000	136,000	109,000	105,000	151,000	10,000	19,000	989,000	



**WATER EQUIPMENT REPAIR - PAGE 1**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REPLACE GENERATOR SETS	75,000								50,000		125,000	1
2 REPLACE ENGINE/TRANSMISSION	10,000		7,400		7,600		7,800		8,000		40,800	2
3 EQUIPMENT REPAIR SHOP IMPROVEMENTS	10,000										10,000	3
	95,000	0	7,400	0	7,600	0	7,800	0	58,000	0	175,800	

**WATER EQUIPMENT REPAIR (VEHICLES) - PAGE 2**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REPLACE U/R WATER SERVICE TRUCK #77 (2001)				50,000							50,000	1
2 REPLACE U/R TRUCK #32 (2009)						45,000					45,000	2
3 REPLACE U/R FLATBED TRUCK #43 (1988)					40,000						40,000	3
4 REPLACE U/R BACKHOE #47 (2003)			150,000								150,000	4
5 REPLACE U/R TRUCK #61 (2011)		35,000									35,000	5
6 REPLACE U/R TRUCK #25 (2000)								70,000			70,000	6
7 REPLACE U/R TRUCK #34								70,000			70,000	7
8 REPLACE U/R LOADER #22 (2007)					185,000						185,000	8
9 REPLACE U/R BACKHOE #48 (2008)				130,000							130,000	9
10 REPLACE U/R DUMP TRUCK #80 (2006)	170,000										170,000	10
11 REPLACE PUMPS TRUCK #46 (2011)			63,000								63,000	11
12 REPLACE PUMPS TRUCK #17 (2009)	60,000										60,000	12
13 REPLACE LAB TRUCK #82 (2006)								30,000			30,000	13
14 REPLACE ENG. TRUCK #37 (2002)			35,000								35,000	14
15 REPLACE INSPECTIONS TRUCK #64 (2013)						35,000					35,000	15
16 REPLACE INSPECTIONS TRUCK #72 (1999)		30,000									30,000	16
17 REPLACE PURCHASING VEHICLE #5 (1999)					35,000						35,000	17
18 NEW IT TRUCK			30,000								30,000	18
	230,000	65,000	278,000	180,000	260,000	80,000	0	0	170,000	0	1,263,000	
	325,000	65,000	285,400	180,000	267,600	80,000	7,800	0	228,000	0	1,438,800	

**WATER ENGINEERING - PAGE 1**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 WATER REPAIR EMERGENCIES	500,000										500,000	1
2 HEAVENLY TANK COATING/IMPROVEMENTS	155,000										155,000	2
3 ROCKY POINT #2 WATERLINE	824,000										824,000	3
4 ROCKY PRV REPLACEMENT	309,000										309,000	4
5 KELLER-HEAVENLY ZONE IMPROVEMENTS (3)	279,000	1,693,000	1,448,000								3,420,000	5
6 METERS - PHASE 5B (1)	2,624,000										2,624,000	6
7 CRITICAL WATERLINE MONITORING	**				146,000	151,000	155,000	160,000	165,000	170,000	947,000	7
8 SCADA UPGRADES	** 11,000	11,000	11,000	12,000	12,000	12,000	13,000	13,000	13,000	14,000	122,000	8
9 UPPER MONTGOMERY/COLD CREEK BOOSTER					116,000	747,000	769,000				1,632,000	9
10 H STREET ZONE BOOSTER, FIRE PUMP					116,000	616,000	634,000				1,366,000	10
11 ROCKY POINT #1 WATERLINE	923,000	951,000									1,874,000	11
12 VALVE AND FIRE HYDRANT REPLACEMENTS	** 366,000			359,000	370,000	381,000	393,000	404,000	417,000	429,000	3,119,000	12
13 AMI TOWER REPLACEMENT					29,000	60,000	61,000	32,000			182,000	13
14 FUTURE HYDRANTS						1,243,000	1,280,000				2,523,000	14
15 BOWERS WATERLINE		958,000	987,000								1,945,000	15
16 FIELD COMMUNICATION UPGRADES PHASE 2	128,000	132,000									260,000	16
17 FIELD COMMUNICATION UPGRADES PHASE 3		150,000	155,000								305,000	17
18 BLACK BART #1 AND #2 WATERLINE			1,553,000	1,628,000							3,181,000	18
19 BIJOU #2 AND #3 WATERLINE		776,000	799,000								1,575,000	19
20 GLENWOOD RANCHO WATERLINE							2,581,000	2,659,000			5,240,000	20
21 HERBERT WALKUP WATERLINE					2,227,000	2,293,000					4,520,000	21
22 LTB WATERLINE								1,580,000	1,628,000		3,208,000	22
23 ELECTRICAL IMPROVEMENTS AT 16 SITES		198,000									198,000	23
24 GARDNER MOUNTAIN #2 WATERLINE									931,000	959,000	1,890,000	24
25 NEW PRV AT WASHOAN-NADOWA				169,000	174,000						343,000	25
<b>SUBTOTAL</b>	<b>6,119,000</b>	<b>4,869,000</b>	<b>4,953,000</b>	<b>2,168,000</b>	<b>3,190,000</b>	<b>5,503,000</b>	<b>5,886,000</b>	<b>4,848,000</b>	<b>3,154,000</b>	<b>1,572,000</b>	<b>42,262,000</b>	

\*\* Includes a flat rate cost per year.



**WATER ENGINEERING - PAGE 2**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
26 UTR MEYERS WATERLINE RELIABILITY IMPROVEMENTS	64,000	66,000									130,000
27 GARDNER MOUNTAIN #4 WATERLINE									948,000	974,000	1,920,000
28 REPLACE AL TAHOE WELL								127,000	611,000	630,000	1,368,000
29 KELLER BOOSTER UPGRADES								63,000	142,000	146,000	351,000
30 PIONEER TRAIL WATERLINE - GOLDEN BEAR TO PINE VALLEY				1,511,000	1,556,000						3,067,000
31 REPLACE SUSQUEHANNA PRV	170,000	175,000									345,000
32 REPLACE PRICE ROAD PRV	170,000	175,000									345,000
33 TANKS BACKUP POWER	166,000	171,000									337,000
34 BUOU #1 WATERLINE									1,380,000	1,421,000	2,801,000
35 TANK COATINGS (IROQUOIS NO. 1, STATELINE NO. 1)							451,000	464,000			915,000
36 TANK COATINGS (FLAGPOLE NO. 2, ARROWHEAD, STATELINE NO. 2)								842,000	867,000		1,709,000
37 TANKS COATINGS TOUCHUP PROJECT 1			219,000	225,000							444,000
38 TANKS COATINGS TOUCHUP PROJECT 2			273,000	281,000							554,000
39 TANKS ASSET MANAGEMENT PROGRAM		16,000	39,000	17,000	110,000	90,000	117,000	95,000	124,000	275,000	883,000
40 REGINA/DONNER WATERLINE (+NP#5 PRV)					272,000	280,000					552,000
41 STATELINE ZONE CAPACITY IMPROVEMENTS		106,000									106,000
42 WATER BOOSTER STATION AND WELL MONITORING						523,000	538,000	130,000	134,000	138,000	1,463,000
43 SANTA FE YARD IMPROVEMENTS	199,000										199,000
44 WELL TESTING,INSPECTION AND REHABILITATION PROJECT		71,000	73,000	75,000	78,000	80,000	82,000	85,000	87,000	90,000	721,000
<b>SUBTOTAL</b>	<b>769,000</b>	<b>780,000</b>	<b>604,000</b>	<b>2,109,000</b>	<b>2,016,000</b>	<b>973,000</b>	<b>1,188,000</b>	<b>1,806,000</b>	<b>4,291,000</b>	<b>3,674,000</b>	<b>18,210,000</b>
<b>TOTALS</b>	<b>6,888,000</b>	<b>5,649,000</b>	<b>5,557,000</b>	<b>4,277,000</b>	<b>5,206,000</b>	<b>6,476,000</b>	<b>7,074,000</b>	<b>6,654,000</b>	<b>7,445,000</b>	<b>5,246,000</b>	<b>60,472,000</b>

**WATER LABORATORY**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REPLACE STERILIZING OVEN			6,000								6,000	1
2 REPLACE AUTOCLAVE (SMALL)					10,000						10,000	2
3 REPLACE COLIFORM INCUBATOR				6,000							6,000	3
4 REPLACE LAB pH METER			5,000					5,000			10,000	4
5 REPLACE AUTOCLAVE (LARGE)		10,000								10,000	20,000	5
6 REPLACE 20 LITER WATER BATH	5,000					5,000					10,000	6
7 LIMS COMPUTER SOFTWARE	5,000			35,000					35,000		75,000	7
8 LAB DESIGN EVALUATION		35,000									35,000	8
9 REPLACE BLOCK DIGESTER FOR METALS AND TOTAL P		5,000								5,000	10,000	9
10 REPLACE 18-MOHM WATER SYSTEM								10,000			10,000	10
11 REPLACE TURBIDIMETER							5,000				5,000	11
	10,000	50,000	11,000	41,000	10,000	5,000	5,000	15,000	35,000	15,000	197,000	

**WATER ADMINISTRATION**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
											0
	0	0	0	0	0	0	0	0	0	0	0

**WATER BOARD OF DIRECTORS**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REPLACE BOARDROOM COMPONENTS						75,000					75,000	1
2 REPLACE BOARDROOM AV EQUIPMENT					5,000						5,000	2
	0	0	0	0	5,000	75,000	0	0	0	0	80,000	

**WATER HUMAN RESOURCES**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
											0
	0	0	0	0	0	0	0	0	0	0	0

**WATER FINANCE**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
											0
	0	0	0	0	0	0	0	0	0	0	0

**WATER ACCOUNTING**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
											0
	0	0	0	0	0	0	0	0	0	0	0

**WATER PURCHASING**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS
											0
	0	0	0	0	0	0	0	0	0	0	0





**WATER INSPECTIONS**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 REPLACE DIGITAL LOCATING EQUIPMENT									7,500		7,500	1
2 METER TESTER									10,000		10,000	2
	0	0	0	0	0	0	0	0	17,500	0	17,500	

**WATER INFORMATION TECHNOLOGY**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 FIREWALL SOFTWARE/UPGRADES		25,000			25,000			25,000			75,000	1
2 SOFTWARE (NEW, UPGRADES, COMPLIANCE)		8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	72,000	2
3 SQL ADDITIONAL LICENSES				7,000			7,000				14,000	3
4 STORAGE SYSTEM (SAN)/ADDITIONS				125,000					125,000		250,000	4
5 DATABASE SOFTWARE/UPDATES			8,000					8,000			16,000	5
6 REPLACE FIBER WAN - SHOPS					10,000						10,000	6
7 REPLACE NETWORKING EQUIP./IMPROVEMENTS		11,000		11,000		11,000		11,000		11,000	55,000	7
8 WIRELESS CONTROLLER/ACCESS POINTS		10,000				10,000				10,000	30,000	8
9 BACKUP/DISASTER RECOVERY APPLIANCE				15,000				15,000			30,000	9
10 REPLACE WATER HYDRAULIC MODELING SOFTWARE					15,000			15,000			30,000	10
11 AUTOCAD CIVIL LICENSES			6,000			6,000			6,000		18,000	11
12 STRATEGIC PLAN IMPLEMENTATION/UPDATE					20,000						20,000	12
13 LASERFICHE UPGRADE			10,000			25,000	10,000				45,000	13
14 REPLACE DOMAIN CONTROLLER SERVER	10,000				10,000				10,000		30,000	14
15 CORE SWITCH - SERVER ROOM		25,000				25,000				25,000	75,000	15
16 REPLACE SCADA HISTORIAN SERVER		10,000				10,000				10,000	30,000	16
17 SCADA SERVER 2	20,000				20,000				20,000		60,000	17
18 BACKUP POWER SERVER ROOM		6,000		6,000		6,000		6,000		6,000	30,000	18
19 VIRTUAL SERVER		20,000		20,000		20,000		20,000		20,000	100,000	19
	30,000	115,000	24,000	200,000	108,000	121,000	25,000	108,000	169,000	90,000	990,000	

**WATER PUBLIC AFFAIRS/WATER CONSERVATION**

USE OR BENEFIT EXPLANATION	20-21 BUDGET	21-22 BUDGET	22-23 BUDGET	23-24 BUDGET	24-25 BUDGET	25-26 BUDGET	26-27 BUDGET	27-28 BUDGET	28-29 BUDGET	29-30 BUDGET	TOTALS	
1 WATER CONSERVATION OFFICE UPGRADES	10,000										10,000	1
	10,000	0	0	0	0	0	0	0	0	0	10,000	

# ***ACKNOWLEDGMENTS***

*Paul Hughes, Chief Financial Officer*

*Debbie Henderson, Accounting Manager*

*Susan Rasmussen, Finance Administrative Assistant*

## **BOARD OF DIRECTORS' FINANCE COMMITTEE:**

*Chris Cefalu*

*Kelly Sheehan*