



DATE: January 26th, 2022

TO: Lisa Petersen, Director of Public Works

FROM: Douglas Dove, President
Michael DeGroot, Financial Analyst

SUBJECT: Wastewater Rate Study

MEMORANDUM

Introduction

Bartle Wells Associates (BWA) has been retained by the City of Pacifica to evaluate the City's current wastewater rates and make recommendations on rate increases. At a public hearing, on May 8, 2017, the City adopted 5 years of rate increases from FY 2017/18 through 2021/22. The City now wants to update its wastewater rates for the next five years to reflect current costs of service.

Current Wastewater Rates

Pacifica's adopted wastewater rates are listed in Table 1. Rates have been implemented as adopted and the final increase was implemented July 1st, 2021.

BWA recommends continuing the current billing practices. Generally, the water consumption estimate for a user is the user's total water consumption for the six (6) bi-monthly water billing periods ending with the billing period for February of the calendar year during which the charges will be levied. This twelve (12) month period is known as the "billing year."

The method for estimating water consumption for single-family and multi-family residences is to multiply total water consumption during the billing year by 90% (0.90). 10% of usage is estimated to be used for irrigation based on an analysis of billing data and BWA's experience with coastal community's water usage.

The City's minimum charge is based on 48 units and is applied to the lowest user through the median user, who consumes 48 units per year. The minimum charge is designed to recover a minimum of 60% of projected sewer revenues before factoring in usage. The minimum charge reflects the cost profile of the sewer enterprise, which is heavily fixed regardless of wastewater flows.

Any nonresidential user with substantial irrigation requirements may be able to apply to have his or her flow estimate recalculated based on criterion in City Municipal Code Section 6-6.407.

Applications submitted will be subject to the procedures and requirements set forth in the City's Municipal Code. If a user has more than one water meter at a service location, and one or more of those meters measures only water used for landscaping purposes, the meter usage for landscaping purposes will be excluded.

Schools with mixed water use (drinking water and irrigation) may apply to have their flow estimate calculated as six (6) times the average consumption of the following bimonthly periods: (i) March and April, (ii) May and June, (iii) ½ billed during November and December, and (iv) January and February.

Operations and Maintenance Expenses

Table 2 shows the projected operations and maintenance expenses for the City's WWTP and collection system. BWA projects that operations and maintenance expenses will increase 3% per year from the City's FY 2022/23 budget.

Outstanding Debt Service

The City had four outstanding debt obligations as of January 1st, 2021, as shown in Table 3. Importantly, one of the debt issuances was recently paid off, and one of the City's debts will be paid off within the rate study projection period: the 1997 State of California Water Resource Control Board Loan final payment was July 2021, and the 2014 Wastewater Revenue Refunding Bonds final payment is in 2026. The payoff of these loans will free up \$1.8 MM to \$2 MM of cash flow for future debt service or to cash fund capital projects.

Loan Balances as of January 1st, 2021:

- 1997 State of California Water Resource Control Board Loan: \$2.1 MM principal outstanding (paid off July 1st, 2021)
- 2012 Loan and Installment Agreement: \$4.3MM principal outstanding
- 2014 Wastewater Revenue Refunding Bonds: \$6.7 MM principal outstanding
- 2017 Wastewater Revenue Bond: \$22.1 MM principal outstanding

Capital Improvement Program

The City's wastewater capital program is shown in Table 4. Total planned capital projects in the rate period amount to \$125 MM, with \$47.2 MM in collection system capital, \$37.8 MM in WWTP capital projects, and \$40 MM for the Beach Blvd Infrastructure Resiliency Project. The capital program averages \$11.4 MM per year with the largest annual capital expenditure at \$20.9 MM in FY 2026/27.

Financial Projections

Table 5 shows the wastewater cashflow projection from FY 2021/22 to FY 2031/32. BWA projects that rate increases of 3.5% per year are required each year for the next 5 years (FY

2022/23 to FY 2026/27) to meet the City's wastewater expenses. Projections include 0.5% growth estimated based on projected development.

BWA projects a loan of \$31.6 MM is required in FY 2022/23 to fund the capital program. An additional \$52.4 MM is estimated to be required in FY 2026/27 for three years of capital, primarily to fund the Beach Boulevard Infrastructure Resiliency Project & Other Coastal Projects (total est. project cost is \$40 MM over four years, beginning in FY 2026/27.) For projection purposes, the loan terms are estimated at 4% interest, over 30 years, with 1.5% issuance fees.

The financial projections are designed to meet a minimum operating reserve target of 90 days with at least 1.25x debt service coverage (calculated as net revenues / annual debt service). The City is projected to have very strong debt service coverage of at least 1.43x throughout the projection period. These financial targets are based on industry standard metrics to obtain a high credit rating and qualify for debt financing.

Chart A shows a graphical presentation of the 10-year financial projections.

Rate Survey

Chart B shows a regional sewer rate survey for FY 2021/22. The surveyed average monthly sewer bill for a single family home using 5 hcf per month is \$96.70. The City's sewer rates compare favorably with regional agencies and are in the average range at \$94.07.

Wastewater Strength Factors

Table 6 shows the derivation of the wastewater strength factors. Based on a detailed review of wastewater enterprise costs, system costs are allocated 44% to flow, 28% to biological oxygen demand (BOD) and 28% total suspended solids (TSS). BWA uses this formula to calculate the strength factors for each customer class based on their estimated wastewater strength characteristics in milligrams per liter (mg/l).

Proposed Rate Schedule

Table 7 shows the proposed wastewater rate schedule for the next 5 years (FY 2022/23 to FY 2026/27).

Table 1
City of Pacifica
Adopted Annual Wastewater Rates 2017/18 - 2021/22

<i>Rate Increase %</i>		8%	8%	8%	7%	7%
	\$/hcf	<u>2017/18</u>	<u>2018/19</u>	<u>2019/20</u>	<u>2020/21</u>	<u>2021/22</u>
Residential [1]	\$13.04476	\$14.08834	\$15.21541	\$16.43264	\$17.58293	\$18.81373
Commercial [2]	\$13.04476	\$14.08834	\$15.21541	\$16.43264	\$17.58293	\$18.81373
Minimum Charge	\$626.14	\$676.24	\$730.34	\$788.76	\$843.98	\$903.06

Commerical Strength Factors

Car Washes	0.9
Cleaners	1.2
Laundromats	0.75
Restaurants with grease traps	1.6
Restaurants without grease traps	1.8
Gymnasiums	0.9
All other commercial use	1.0

1 - units calculated using total annual use multiplied by 0.9

2 - units calculated using total annual water use multiplied by strength factor

Table 2 City of Pacifica Expense Detail - Operations and Maintenance													
projected													
EXPENSE	FY 2021-22	FY 22-23	Escalation %	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31	FY 31-32	
FUND 18	BUDGET	PROPOSED		PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	
Operations & Maintenance													
18.940741.51200	Salaries - Regular	\$ 1,197,627	\$ 1,408,556	3.0%	\$1,450,813	\$1,494,337	\$1,539,167	\$1,585,342	\$1,632,902	\$1,681,889	\$1,732,346	\$1,784,317	\$1,837,846
18.940741.51200.0275	Salaries - Regular COVID	\$ 68,000	\$ 68,000	3.0%	\$70,040	\$72,141	\$74,305	\$76,535	\$78,831	\$81,196	\$83,631	\$86,140	\$88,725
18.940741.51300	Salaries - Part-time	\$ 80,000	\$ 80,000	3.0%	\$82,400	\$84,872	\$87,418	\$90,041	\$92,742	\$95,524	\$98,390	\$101,342	\$104,382
18.940741.51400	Salaries - Overtime	\$ 80,000	\$ 80,000	3.0%	\$82,400	\$84,872	\$87,418	\$90,041	\$92,742	\$95,524	\$98,390	\$101,342	\$104,382
18.940741.51500	Retirement	\$ 289,913	\$ 298,611	3.0%	\$307,569	\$316,796	\$326,300	\$336,089	\$346,172	\$356,557	\$367,254	\$378,271	\$389,619
18.940741.51500.0275	Retirement COVID	\$ 17,452	\$ 17,452	3.0%	\$17,976	\$18,515	\$19,070	\$19,642	\$20,232	\$20,839	\$21,464	\$22,108	\$22,771
18.940741.51600	Benefits	\$ 295,968	\$ 304,847	3.0%	\$313,993	\$323,413	\$333,115	\$343,108	\$353,402	\$364,004	\$374,924	\$386,172	\$397,757
18.940741.51600.0275	Benefits COVID	\$ 17,816	\$ 18,351	3.0%	\$18,901	\$19,468	\$20,052	\$20,654	\$21,274	\$21,912	\$22,569	\$23,246	\$23,944
18.940741.51606	Shoe Allowance	\$ 2,600	\$ 3,000	3.0%	\$3,090	\$3,183	\$3,278	\$3,377	\$3,478	\$3,582	\$3,690	\$3,800	\$3,914
18.940741.51608	Car Allowance	\$ 4,000	\$ 4,000	3.0%	\$4,120	\$4,244	\$4,371	\$4,502	\$4,637	\$4,776	\$4,919	\$5,067	\$5,219
18.940741.51700	Conferences & Training	\$ 14,000	\$ 14,000	3.0%	\$14,420	\$14,853	\$15,298	\$15,757	\$16,230	\$16,717	\$17,218	\$17,735	\$18,267
18.940741.52102	Utility - PG&E	\$ 1,400,000	\$ 1,500,000	3.0%	\$1,545,000	\$1,591,350	\$1,639,091	\$1,688,263	\$1,738,911	\$1,791,078	\$1,844,811	\$1,900,155	\$1,957,160
18.940741.52103	Utility - Water	\$ 78,000	\$ 80,000	3.0%	\$82,400	\$84,872	\$87,418	\$90,041	\$92,742	\$95,524	\$98,390	\$101,342	\$104,382
18.940741.52104	Insurance	\$ 104,000	\$ 107,120	3.0%	\$110,334	\$113,644	\$117,053	\$120,565	\$124,181	\$127,907	\$131,744	\$135,696	\$139,767
18.940741.52105	Telephone	\$ 34,000	\$ 34,000	3.0%	\$35,020	\$36,071	\$37,153	\$38,267	\$39,415	\$40,598	\$41,816	\$43,070	\$44,362
18.940741.52220	Tax Collection Expenses	\$ 78,000	\$ 80,340	3.0%	\$82,750	\$85,233	\$87,790	\$90,423	\$93,136	\$95,930	\$98,808	\$101,772	\$104,825
18.940741.52300	Departmental Expense	\$ 38,000	\$ 38,000	3.0%	\$39,140	\$40,314	\$41,524	\$42,769	\$44,052	\$45,374	\$46,735	\$48,137	\$49,581
18.940741.52300.0275	Departmental Expense COVID	\$ 3,000	\$ 3,000	3.0%	\$3,090	\$3,183	\$3,278	\$3,377	\$3,478	\$3,582	\$3,690	\$3,800	\$3,914
18.940741.52325	Operating Software	\$ 22,000	\$ 23,000	3.0%	\$23,690	\$24,401	\$25,133	\$25,887	\$26,663	\$27,463	\$28,287	\$29,136	\$30,010
18.940741.52340	WWTP Operations Supplies	\$ 60,000	\$ 60,000	3.0%	\$61,800	\$63,654	\$65,564	\$67,531	\$69,556	\$71,643	\$73,792	\$76,006	\$78,286
18.940741.52340.0275	WWTP Operations Supplies COVID	\$ 7,000	\$ 7,000	3.0%	\$7,210	\$7,426	\$7,649	\$7,879	\$8,115	\$8,358	\$8,609	\$8,867	\$9,133
18.940741.52341	WWTP UV Supplies & Services	\$ 100,000	\$ 130,000	3.0%	\$133,900	\$137,917	\$142,055	\$146,316	\$150,706	\$155,227	\$159,884	\$164,680	\$169,621
18.940741.52342	WWTP Chemical Expense	\$ 275,000	\$ 280,000	3.0%	\$288,400	\$297,052	\$305,964	\$315,142	\$324,597	\$334,335	\$344,365	\$354,696	\$365,336
18.940741.52343	WWTP Laboratory Supplies & Services	\$ 120,000	\$ 100,000	3.0%	\$103,000	\$106,090	\$109,273	\$112,551	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477
18.940741.52344	WWTP Sludge Removal	\$ 140,000	\$ 120,000	3.0%	\$123,600	\$127,308	\$131,127	\$135,061	\$139,113	\$143,286	\$147,585	\$152,012	\$156,573
18.940741.52400	Maintenance - Office Equip	\$ 5,000	\$ 5,000	3.0%	\$5,150	\$5,305	\$5,464	\$5,628	\$5,796	\$5,970	\$6,149	\$6,334	\$6,524
18.940741.52401	Maintenance - ATAD	\$ 30,000	\$ 20,000	3.0%	\$20,600	\$21,218	\$21,855	\$22,510	\$23,185	\$23,881	\$24,597	\$25,335	\$26,095
18.940741.52402	Maintenance - Biosolids	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048
18.940741.52403	Maintenance - Generator	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048
18.940741.52404	Maintenance - Grit	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048
18.940741.52405	Maintenance - Instrument	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048
18.940741.52406	Maintenance - Sand Filter	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048
18.940741.52407	Maintenance - SBR	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048
18.940741.52408	Maintenance - SCADA	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048
18.940741.52409	Maintenance - Solar System	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048
18.940741.52450	Maintenance - Landscaping	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048
18.940741.52491	Maintenance - Biofilter	\$ 30,000	\$ 30,000	3.0%	\$30,900	\$31,827	\$32,782	\$33,765	\$34,778	\$35,822	\$36,896	\$38,003	\$39,143
18.940741.52499	Maintenance - Centrifuge	\$ 15,000	\$ 15,000	3.0%	\$15,450	\$15,914	\$16,391	\$16,883	\$17,389	\$17,911	\$18,448	\$19,002	\$19,572
18.940741.52500	Maintenance - Field Equip	\$ 15,000	\$ 15,000	3.0%	\$15,450	\$15,914	\$16,391	\$16,883	\$17,389	\$17,911	\$18,448	\$19,002	\$19,572
18.940741.52501	Annual Motor Pool Exp	\$ 40,000	\$ 40,000	3.0%	\$41,200	\$42,436	\$43,709	\$45,020	\$46,371	\$47,762	\$49,195	\$50,671	\$52,191
18.940741.52502	Annual Depr/Replacement	\$ 17,000	\$ 17,000	3.0%	\$17,510	\$18,035	\$18,576	\$19,134	\$19,708	\$20,299	\$20,908	\$21,535	\$22,181
18.940741.52700	Rentals & Lease Exp	\$ 20,000	\$ 20,000	3.0%	\$20,600	\$21,218	\$21,855	\$22,510	\$23,185	\$23,881	\$24,597	\$25,335	\$26,095
18.940741.52800	Contractual Services	\$ 60,000	\$ 60,000	3.0%	\$61,800	\$63,654	\$65,564	\$67,531	\$69,556	\$71,643	\$73,792	\$76,006	\$78,286
18.940741.52800.0275	Contractual Services COVID	\$ 1,000	\$ 1,000	3.0%	\$1,030	\$1,061	\$1,093	\$1,126	\$1,159	\$1,194	\$1,230	\$1,267	\$1,305
18.940741.52818	SWRCB Permitting Fees	\$ 60,000	\$ 60,000	3.0%	\$61,800	\$63,654	\$65,564	\$67,531	\$69,556	\$71,643	\$73,792	\$76,006	\$78,286
18.940741.52828	Contractual - Legal Services	\$ 190,000	\$ 100,000	3.0%	\$103,000	\$106,090	\$109,273	\$112,551	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477
18.940741.53781	Ins. Premi - Liab/Prop	\$ 707,000	\$ 728,210	3.0%	\$750,056	\$772,558	\$795,735	\$819,607	\$844,195	\$869,521	\$895,606	\$922,475	\$950,149
18.940741.53782	Employment Risk Ins.	\$ 14,000	\$ 14,000	3.0%	\$14,420	\$14,853	\$15,298	\$15,757	\$16,230	\$16,717	\$17,218	\$17,735	\$18,267
18.940741.53785	Administrative Services	\$ 1,019,979	\$ 1,000,000	3.0%	\$1,030,000	\$1,060,900	\$1,092,727	\$1,125,509	\$1,159,274	\$1,194,052	\$1,229,874	\$1,266,770	\$1,304,773
18.940741.55130	Capital Outlay - Mach/Equip	\$ 30,000	\$ 30,000	3.0%	\$30,900	\$31,827	\$32,782	\$33,765	\$34,778	\$35,822	\$36,896	\$38,003	\$39,143
18.940741.59155	Fines & Penalties	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048
	TOTAL OPERATIONS & MAINTENANCE EXP.	\$ 6,880,356	\$ 7,114,487		\$ 7,327,922	\$ 7,547,759	\$ 7,774,192	\$ 8,007,418	\$ 8,247,640	\$ 8,495,070	\$ 8,749,922	\$ 9,012,419	\$ 9,282,792

FUND 18		FY 2021-22	FY 22-23	Escalation %	projected									
					BUDGET	PROPOSED	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	FY 30-31
					PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED	PROPOSED
<i>Collection Systems Maintenance</i>														
18.940742.51200	Salaries - Regular	\$ 1,697,450	\$ 1,923,373	3.0%	\$1,981,074	\$2,040,507	\$2,101,722	\$2,164,773	\$2,229,717	\$2,296,608	\$2,365,506	\$2,436,472	\$2,509,566	\$2,586,930
18.940742.51300	Salaries - Part-time	\$ 5,000	\$ 15,000	3.0%	\$15,450	\$15,914	\$16,391	\$16,883	\$17,389	\$17,911	\$18,448	\$19,002	\$19,572	\$20,157
18.940742.51400	Salaries - Overtime	\$ 80,000	\$ 82,400	3.0%	\$84,872	\$87,418	\$90,041	\$92,742	\$95,524	\$98,390	\$101,342	\$104,382	\$107,513	\$110,733
18.940742.51500	Retirement	\$ 42,377	\$ 43,648	3.0%	\$44,957	\$46,306	\$47,695	\$49,126	\$50,600	\$52,118	\$53,681	\$55,292	\$56,951	\$58,657
18.940742.51600	Benefits	\$ 517,986	\$ 533,526	3.0%	\$549,532	\$566,018	\$582,998	\$600,488	\$618,503	\$637,058	\$656,169	\$675,855	\$696,130	\$716,499
18.940742.51606	Shoe Allowance	\$ 3,600	\$ 3,600	3.0%	\$3,708	\$3,819	\$3,934	\$4,052	\$4,173	\$4,299	\$4,428	\$4,560	\$4,697	\$4,839
18.940742.51608	Car Allowance	\$ 4,000	\$ 4,000	3.0%	\$4,120	\$4,244	\$4,371	\$4,502	\$4,637	\$4,776	\$4,919	\$5,067	\$5,219	\$5,375
18.940742.51700	Conferences & Training	\$ 17,000	\$ 17,000	3.0%	\$17,510	\$18,035	\$18,576	\$19,134	\$19,708	\$20,299	\$20,908	\$21,535	\$22,181	\$22,845
18.940742.52103	Utility - Water	\$ 500	\$ 500	3.0%	\$515	\$530	\$546	\$563	\$580	\$597	\$615	\$633	\$652	\$672
18.940742.52105	Telephone	\$ 11,000	\$ 11,000	3.0%	\$11,330	\$11,670	\$12,020	\$12,381	\$12,752	\$13,135	\$13,529	\$13,934	\$14,353	\$14,786
18.940742.52300	Departmental Expense	\$ 23,000	\$ 23,000	3.0%	\$23,690	\$24,401	\$25,133	\$25,887	\$26,663	\$27,463	\$28,287	\$29,136	\$30,010	\$30,910
18.940742.52300.0275	Departmental Expense COVID	\$ 1,000	\$ 1,000	3.0%	\$1,030	\$1,061	\$1,093	\$1,126	\$1,159	\$1,194	\$1,230	\$1,267	\$1,305	\$1,345
18.940742.52325	Operating Software	\$ 5,000	\$ 5,000	3.0%	\$5,150	\$5,305	\$5,464	\$5,628	\$5,796	\$5,970	\$6,149	\$6,334	\$6,524	\$6,719
18.940742.52340	WWTP Operations Supplies	\$ 98,000	\$ 98,000	3.0%	\$100,940	\$103,968	\$107,087	\$110,300	\$113,609	\$117,017	\$120,528	\$124,143	\$127,868	\$131,607
18.940742.52340.0275	WWTP Operations Supplies COVID	\$ 7,000	\$ 7,000	3.0%	\$7,210	\$7,426	\$7,649	\$7,879	\$8,115	\$8,358	\$8,609	\$8,867	\$9,133	\$9,406
18.940742.52342	WWTP Chemical Expense	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048	\$13,439
18.940742.52485	Maintenance - CMMS	\$ 32,600	\$ 32,600	3.0%	\$33,578	\$34,585	\$35,623	\$36,692	\$37,792	\$38,926	\$40,094	\$41,297	\$42,536	\$43,811
18.940742.52490.0000.000	Maintenance - Easement	\$ 10,000	\$ 10,000	3.0%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$13,048	\$13,439
18.940742.52492.0000.000	Maintenance - Anza PS	\$ 5,000	\$ 5,000	3.0%	\$5,150	\$5,305	\$5,464	\$5,628	\$5,796	\$5,970	\$6,149	\$6,334	\$6,524	\$6,719
18.940742.52493.0000.000	Maintenance - Brighton PS	\$ 5,000	\$ 5,000	3.0%	\$5,150	\$5,305	\$5,464	\$5,628	\$5,796	\$5,970	\$6,149	\$6,334	\$6,524	\$6,719
18.940742.52494.0000.000	Maintenance - Linda Mar PS	\$ 21,000	\$ 21,000	3.0%	\$21,630	\$22,279	\$22,947	\$23,636	\$24,345	\$25,075	\$25,827	\$26,602	\$27,400	\$28,222
18.940742.52495.0000.000	Maintenance - Rockaway PS	\$ 12,000	\$ 12,000	3.0%	\$12,360	\$12,731	\$13,113	\$13,506	\$13,911	\$14,329	\$14,758	\$15,201	\$15,657	\$16,136
18.940742.52496.0000.000	Maintenance - Sharp Park PS	\$ 11,000	\$ 11,000	3.0%	\$11,330	\$11,670	\$12,020	\$12,381	\$12,752	\$13,135	\$13,529	\$13,934	\$14,353	\$14,786
18.940742.52497.0000.000	Maintenance - Skyridge PS	\$ 5,300	\$ 5,300	3.0%	\$5,459	\$5,623	\$5,791	\$5,965	\$6,144	\$6,328	\$6,518	\$6,714	\$6,915	\$7,122
18.940742.52498.0000.000	Maintenance - CCTV	\$ 10,600	\$ 10,600	3.0%	\$10,918	\$11,246	\$11,583	\$11,930	\$12,288	\$12,657	\$13,037	\$13,428	\$13,831	\$14,246
18.940742.52499.0000.000	Maintenance - Root Foaming	\$ 20,000	\$ 20,000	3.0%	\$20,600	\$21,218	\$21,855	\$22,510	\$23,185	\$23,881	\$24,597	\$25,335	\$26,095	\$26,878
18.940742.52501	Annual Motor Pool Exp	\$ 284,473	\$ 280,000	3.0%	\$288,400	\$297,052	\$305,964	\$315,142	\$324,597	\$334,335	\$344,365	\$354,696	\$365,336	\$376,386
18.940742.52502	Annual Motor Pool Depr/Replacement	\$ -	\$ -	3.0%	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18.940742.52700	Rentals & Lease Exp	\$ 5,300	\$ 5,300	3.0%	\$5,459	\$5,623	\$5,791	\$5,965	\$6,144	\$6,328	\$6,518	\$6,714	\$6,915	\$7,122
18.940742.52800	Contractual Services	\$ 60,000	\$ 61,800	3.0%	\$63,654	\$65,564	\$67,531	\$69,556	\$71,643	\$73,792	\$76,006	\$78,286	\$80,635	\$83,054
18.940742.52800.0275	Contractual Services COVID	\$ 1,000	\$ 1,000	3.0%	\$1,030	\$1,061	\$1,093	\$1,126	\$1,159	\$1,194	\$1,230	\$1,267	\$1,305	\$1,345
18.940742.55130	Capital Outlay - Mach/Equip	\$ 60,000	\$ 60,000	3.0%	\$61,800	\$63,654	\$65,564	\$67,531	\$69,556	\$71,643	\$73,792	\$76,006	\$78,286	\$80,635
	TOTAL COLLECTION SYSTEM MAIN EXP.	\$ 3,066,186	\$ 3,318,647		\$ 3,418,206	\$ 3,520,752	\$ 3,626,375	\$ 3,735,166	\$ 3,847,221	\$ 3,962,638	\$ 4,081,517	\$ 4,203,962	\$ 4,330,081	\$ 4,462,336

Table 3									
City of Pacifica									
Debt Service									
Debt Service									
		<i>total payment (principal + interest)</i>							
Loan	Source	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
2012 Loan and Installment Agreement	WW Charge Fund	\$447,334	\$447,161	\$446,983	\$446,798	\$446,607	\$446,408	\$446,203	\$446,031
1997 State of California Water Resource Control Board Loan	WW Charge Fund	2,065,919	2,065,919	2,065,919	2,065,919				
2014 Wastewater Revenue Refunding Bonds	WW Charge Fund	337,000	337,000	337,000	337,000	1,819,000	1,816,125	1,814,375	1,808,625
2017 Wastewater Revenue Bonds	WW Charge Fund	<u>1,061,600</u>	<u>1,061,600</u>	<u>1,061,600</u>	<u>1,061,600</u>	<u>1,670,975</u>	<u>1,668,975</u>	<u>1,670,350</u>	<u>1,669,975</u>
Total Debt Service		\$3,911,853	\$3,911,680	\$3,911,502	\$3,911,317	\$3,936,582	\$3,931,508	\$3,930,928	\$3,924,631

TABLE 4 - CAPITAL IMPROVEMENT PROJECTS (COST IN THOUSAND DOLLARS)

PROJECT	21-22	22-23	23-24	24-25	25-26	26-27	27-28	28-29	29-30	30-31	31-32	TOTALS
COLLECTION SYSTEMS												
Linda Mar Pump Station Upgrade	\$ 1,475	\$ 590	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,065
Linda Mar Pump Station - Bar Screen Rebuild	\$ -	\$ 150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150
Linda Mar Pump Station - New Washer/Compactor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 160	\$ 160
Rockaway PS Upgrade (Formerly Rockaway PS Upgrade FY 20-21)	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100
Rockaway PS - Bar Screen Rebuild	\$ -	\$ 150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150
Sharp Park Pump Station Facility Improvements Project	\$ 500	\$ 1,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000
Sharp Park Pump Station Bar Screen Rebuild	\$ -	\$ 250	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250
Sharp Park Pump Station - New Washer/Compactor	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 160	\$ 160
Anza Pump Station Rebuild	\$ 1,000	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000
Sewer System Master Plan Update Phase 2	\$ 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90	\$ -	\$ -	\$ -	\$ -	\$ 110
Collection System Projects	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 1,100
Lateral Grant Assistance	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ 1,100
Relocation of Sewer Mainline at SF RV Park	\$ -	\$ -	\$ 200	\$ 2,400	\$ 1,200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,800
Collection System R&R Project Lower Linda Mar 1	\$ -	\$ -	\$ 492	\$ 2,786	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,278
Collection System R&R Project Lower Linda Mar 2	\$ -	\$ -	\$ -	\$ 492	\$ 2,786	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,278
Collection System R&R Project Lower Linda Mar 3	\$ -	\$ -	\$ -	\$ -	\$ 492	\$ 2,786	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,278
Collection System R&R Project Fremont, Linda Mar Blvd & Catalina Ave	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 210	\$ 1,190	\$ -	\$ -	\$ -	\$ -	\$ 1,400
Collection System R&R Project Vallemar 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 557	\$ 3,152	\$ -	\$ -	\$ -	\$ 3,709
Collection System R&R Project Vallemar 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 557	\$ 3,152	\$ -	\$ -	\$ 3,709
Collection System R&R Project Vallemar 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 557	\$ 3,152	\$ -	\$ 3,709
Collection System R&R Project Vallemar 4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 557	\$ 3,152	\$ 3,709
Collection System R&R Project Fairway Park 1 & 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 990	\$ 990
Rockaway Beach Ave (San Sewer) 1&2	\$ -	\$ -	\$ 506	\$ 2,863	\$ 506	\$ 2,863	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,738
Forcemain Condition Assessment	\$ -	\$ -	\$ -	\$ 75	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75
Linda Mar Pump Station Jockey Pump Upgrade	\$ -	\$ 50	\$ 150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200
Collection System Projects	\$ 3,295	\$ 3,890	\$ 1,548	\$ 8,816	\$ 5,184	\$ 6,059	\$ 2,037	\$ 3,909	\$ 3,909	\$ 3,909	\$ 4,662	\$ 47,218
Total Collection System Projects FY 2022-27		\$					25,497					
Total Collection System Projects FY 2027-32							\$				18,426	

CAPITAL IMPROVEMENT PROJECTS (COST IN THOUSAND DOLLARS)

PROJECT	21-22	22-23	23-24	24-25	25-26	26-27	27-28	28-29	29-30	30-31	31-32	TOTALS
WASTEWATER TREATMENT PLANT												
Digesters - ATAD Modification Phase 3	\$ 175	\$ 150	\$ -	\$ -	\$ 100	\$ -	\$ -	\$ 100	\$ -	\$ -	\$ 100	\$ 625
CCWRP Pump Replacement	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 550
CCWRP Centrifuges	\$ 25	\$ 50	\$ -	\$ -	\$ -	\$ 250	\$ -	\$ -	\$ -	\$ 250	\$ -	\$ 575
CCWRP SCADA and PLC Upgrade	\$ 200	\$ 400	\$ 400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000
Calera Creek and Wetlands Maintenance	\$ 75	\$ -	\$ 30	\$ -	\$ 30	\$ -	\$ -	\$ 30	\$ -	\$ 30	\$ -	\$ 195
CCWRP Parking Lot Restoration	\$ -	\$ -	\$ -	\$ -	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100
CCWRP Roof Improvements	\$ -	\$ -	\$ 200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200
CCWRP Laboratory Room Improvement	\$ 25	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ 75
CCWRP Security & Gate System	\$ 70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 70
CCWRP Blower Replacement	\$ 30	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 530
San Pedro Creek & Pacifica State Beach TMDL, BMP, Monitoring Plan	\$ 10	\$ 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20
CCWRP Arc Flash Hazard Analysis	\$ 65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 65
CCWRP R&R Project	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 550
CCWRP R&R Project - Transformer Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCWRP R&R Project - Grit Classifier Upgrade	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CCWRP R&R Project - Sand Filter Upgrade	\$ 170	\$ 150	\$ -	\$ -	\$ 750	\$ 750	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,820
Ultraviolet Disinfection System Upgrade	\$ 122	\$ 3,760	\$ 2,980	\$ 4,570	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,432
CCWRP Photovoltaic System Improvement Project	\$ 280	\$ 100	\$ -	\$ 1,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,480
CCWRP Process Optimization Projects	\$ 50	\$ 100	\$ -	\$ -	\$ 100	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 50	\$ 550
Sewer Rate Study for FY 2022-2027	\$ 20	\$ -	\$ -	\$ -	\$ -	\$ 50	\$ 20	\$ -	\$ -	\$ -	\$ 50	\$ 140
CCWRP R&R Project - Drain Pump Station Piping Replacement	\$ 40	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 140
CCWRP R&R Project - Plant Effluent Pipe Line Spot Repair	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100
CCWRP Electrical Condition Assessment and Improvements	\$ 50	\$ 100	\$ 1,100	\$ 1,150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,400
CCWRP Environmental Compliance Project	\$ 50	\$ -	\$ -	\$ -	\$ 50	\$ -	\$ -	\$ -	\$ 50	\$ -	\$ -	\$ 150
CCWRP Admin Building Elevator Assessment	\$ 40	\$ -	\$ -	\$ -	\$ -	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 140
CCWRP Headworks Feasibility and Improvements	\$ 50	\$ 100	\$ 300	\$ -	\$ 1,500	\$ 3,500	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 10,450
CCWRP Vehicle Storage and Office Facility	\$ 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400	\$ 4,000	\$ -	\$ 4,417
CCWRP Projects	\$ 1,764	\$ 5,170	\$ 5,160	\$ 6,970	\$ 2,805	\$ 4,850	\$ 5,220	\$ 330	\$ 650	\$ 4,505	\$ 350	\$ 37,774
Total Wastewater Treatment Plant Projects FY 2022-27		\$					24,955					
Total Wastewater Treatment Plant Projects FY 2027-32							\$				11,055	
Collection System and Wastewater Treatment Plant Projects	\$ 5,059	\$ 9,060	\$ 6,708	\$ 15,786	\$ 7,989	\$ 10,909	\$ 7,257	\$ 4,239	\$ 4,559	\$ 8,414	\$ 5,012	\$ 84,992
lection System and Wastewater Treatment Plant Projects FY 2022-27		\$					50,452					
lection System and Wastewater Treatment Plant Projects FY 2027-32							\$				29,481	

CAPITAL IMPROVEMENT PROJECTS (COST IN THOUSAND DOLLARS)

PROJECT	21-22	22-23	23-24	24-25	25-26	26-27	27-28	28-29	29-30	30-31	31-32	TOTALS
OTHER												
540 Crespi Drive Tree Replacement	\$ 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10
Beach Blvd Infrastructure Resiliency Project	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ -	\$ -	\$ 40,000
Other Wastewater Projects	\$ 10	\$ -	\$ -	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ -	\$ -	\$ 40,010
Total Wastewater Other Projects FY 2022-27		\$				10,000						
Total Wastewater Other Projects FY 2027-32							\$				30,000	

Table 5												
City of Pacifica												
Wastewater Cashflow Projection												
						<i>projected</i>						
	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	
Beginning Fund Balance												
Unrestricted Charge Fund	\$6,359,443	\$10,415,877	\$47,292,020	\$50,009,416	\$52,868,979	\$56,194,679	\$112,480,186	\$115,526,298	\$119,102,026	\$123,229,422	\$127,936,777	
Unrestricted Construction Fund	\$777,246	-\$4,291,755	-\$13,351,755	-\$20,059,755	-\$35,845,755	-\$43,834,755	-\$64,743,755	-\$82,000,755	-\$96,239,755	-\$110,798,755	-\$119,212,755	
Total Unrestricted Funds	\$7,136,688	\$6,124,122	\$33,940,265	\$29,949,662	\$17,023,225	\$12,359,924	\$47,736,431	\$33,525,544	\$22,862,272	\$12,430,668	\$8,724,023	
% Rate Revenue Increase	7.0%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	
% Capacity Fee Revenue Increase	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
% Growth	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	
REVENUE												
Charge Fund Revenue												
Investment Earnings												
Sewer Service Charges	17,514,293	18,217,930	18,949,835	19,711,145	20,503,040	21,326,750	22,183,552	23,074,776	24,001,805	24,966,078	25,969,090	
New Loan 1 (4%, 30 Yrs, 1.5% Fees)		31,554,000										
New Loan 2 (4%, 30 Yrs, 1.5% Fees)						52,405,000						
Miscellaneous Income ¹		2,000,000										
Pension Obligation Bond Repayment	400,000	400,000	297,339									
Total Charge Fund Revenue	\$17,914,293	\$52,171,930	\$19,247,174	\$19,711,145	\$20,503,040	\$73,731,750	\$22,183,552	\$23,074,776	\$24,001,805	\$24,966,078	\$25,969,090	
TOTAL REVENUE	\$17,914,293	\$52,171,930	\$19,247,174	\$19,711,145	\$20,503,040	\$73,731,750	\$22,183,552	\$23,074,776	\$24,001,805	\$24,966,078	\$25,969,090	
EXPENSES												
Charge Fund Expenses												
Operations and Maintenance	\$6,880,356	\$7,114,487	\$7,327,922	\$7,547,759	\$7,774,192	\$8,007,418	\$8,247,640	\$8,495,070	\$8,749,922	\$9,012,419	\$9,282,792	
Collection System Maintenance	3,066,186	3,318,647	3,418,206	3,520,752	3,626,375	3,735,166	3,847,221	3,962,638	4,081,517	4,203,962	4,330,081	
New Loan 1 Debt Service	0	926,071	1,852,143	1,852,143	1,852,143	1,852,143	1,852,143	1,852,143	1,852,143	1,852,143	1,852,143	
New Loan 2 Debt Service	0	0				1,538,023	3,076,045	3,076,045	3,076,045	3,076,045	3,076,045	
State Loan	2,065,919	0	0	0	0	0	0	0	0	0	0	
Sewer Loan	446,798	446,607	446,408	446,203	446,031	445,769	445,540	445,303	445,057	444,803	444,540	
2014 Refunding Bond	337,000	1,819,000	1,816,124	1,814,375	1,808,625	1,99,875	0	0	0	0	0	
2017 Refunding Bond	1,061,600	1,670,975	1,668,975	1,670,350	1,669,975	1,667,850	1,668,850	1,667,850	1,669,725	1,669,350	1,671,600	
Total Charge Fund	\$13,857,859	\$15,295,787	\$16,529,778	\$16,851,582	\$17,177,340	\$17,446,243	\$19,137,439	\$19,499,048	\$19,874,409	\$20,258,723	\$20,657,201	
Construction Fund												
Capital Project ²	\$5,069,000	\$9,060,000	\$6,708,000	\$15,786,000	\$7,989,000	\$20,909,000	\$17,257,000	\$14,239,000	\$14,559,000	\$8,414,000	\$5,012,000	
Total Construction Fund	\$5,069,000	\$9,060,000	\$6,708,000	\$15,786,000	\$7,989,000	\$20,909,000	\$17,257,000	\$14,239,000	\$14,559,000	\$8,414,000	\$5,012,000	
TOTAL EXPENSES	\$18,926,859	\$24,355,787	\$23,237,778	\$32,637,582	\$25,166,340	\$38,355,243	\$36,394,439	\$33,738,048	\$34,433,409	\$28,672,723	\$25,669,201	
Net Revenue												
Charge Fund	\$4,056,434	\$36,876,143	\$2,717,396	\$2,859,563	\$3,325,700	\$56,285,507	\$3,046,113	\$3,575,728	\$4,127,396	\$4,707,355	\$5,311,889	
Construction Fund	-\$5,069,000	-\$9,060,000	-\$6,708,000	-\$15,786,000	-\$7,989,000	-\$20,909,000	-\$17,257,000	-\$14,239,000	-\$14,559,000	-\$8,414,000	-\$5,012,000	
Total Net Revenue	-\$1,012,566	\$27,816,143	-\$3,990,604	-\$12,926,437	-\$4,663,300	\$35,376,507	-\$14,210,887	-\$10,663,272	-\$10,431,604	-\$3,706,645	\$299,889	
Ending Fund Balance												
Unrestricted Operating Fund	\$10,415,877	\$47,292,020	\$50,009,416	\$52,868,979	\$56,194,679	\$112,480,186	\$115,526,298	\$119,102,026	\$123,229,422	\$127,936,777	\$133,248,666	
Unrestricted Capital Fund	-\$4,291,755	-\$13,351,755	-\$20,059,755	-\$35,845,755	-\$43,834,755	-\$64,743,755	-\$82,000,755	-\$96,239,755	-\$110,798,755	-\$119,212,755	-\$124,224,755	
Total Unrestricted Funds	\$6,124,122	\$33,940,265	\$29,949,662	\$17,023,225	\$12,359,924	\$47,736,431	\$33,525,544	\$22,862,272	\$12,430,668	\$8,724,023	\$9,023,912	
Total Unrestricted Fund Target (90 Days Charge Fund Expenses)	\$3,417,006	\$3,771,564	\$4,075,836	\$4,155,185	\$4,235,509	\$4,301,813	\$4,718,821	\$4,807,984	\$4,900,539	\$4,995,301	\$5,093,556	
# Days Funded	161	810	661	369	263	999	639	428	228	157	159	
Debt Service Coverage (Min 1.25x)	2.04	2.09	1.47	1.49	1.58	1.68	1.43	1.51	1.59	1.67	1.75	
Target Met	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	
1 - \$2 MM Anza pump station insurance reimbursement												
2 - Total Short and Long Term Capital Improvement Plan. Includes General Fund Transfers												

Chart A: Wastewater Projected Revenue, Expenses & Reserves

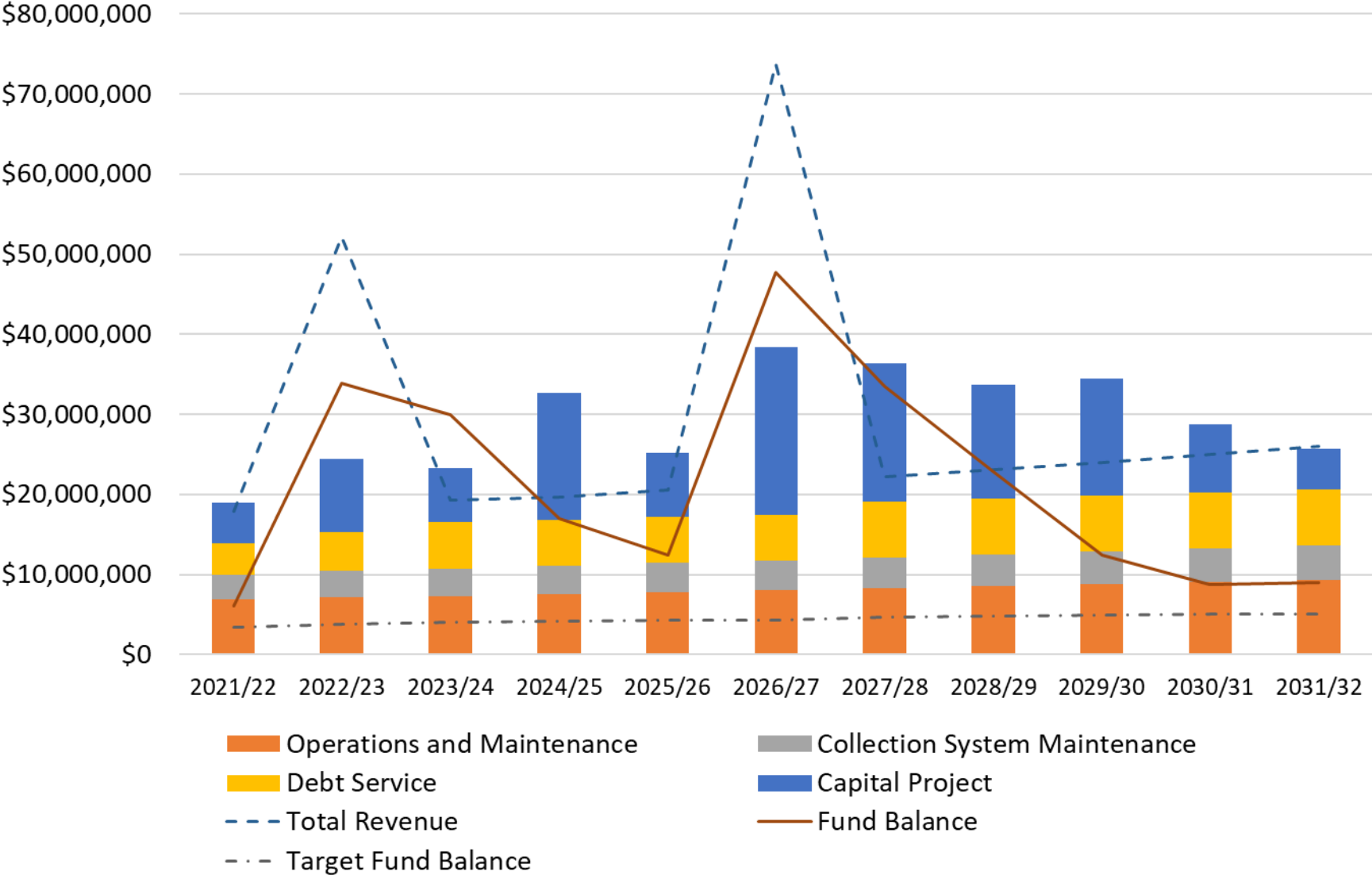


Table 6
City of Pacifica
Wastewater Strength Factors

Customer Class	Estimated Strength (mg/l)		Strength Factor (Rounded)
Residential	BOD	SS	
Single Family	175	175	1.0
Multi Family	175	175	1.0
Commercial			
Car Washes	30	230	0.9
Cleaners	300	160	1.2
Laundromats	100	95	0.75
Restaurants with grease traps	440	265	1.6
Restaurants without grease traps	550	300	1.8
Gymnasiums	150	150	0.9
Other commercial use	175	175	1.0

Formula:

$$\text{Strength Factor} = 44\% + (28\% * \text{BOD}(\text{MG/L})/175 + 28\% * \text{TSS}(\text{MG/L})/175)$$

Table 7
City of Pacifica
Proposed Annual Wastewater Rates 2022/23 - 2026/27

	Current	Maximum Proposed Rate				
		<u>2022-23</u>	<u>2023-24</u>	<u>2024-25</u>	<u>2025-26</u>	<u>2026-27</u>
Percent Increase		3.5%	3.5%	3.5%	3.5%	3.5%
Residential [1]	\$18.81373	\$19.47221	\$20.15374	\$20.85912	\$21.58919	\$22.34481
Commercial [2]	\$18.81373	\$19.47221	\$20.15374	\$20.85912	\$21.58919	\$22.34481
Minimum Charge	\$903.06	\$934.67	\$967.38	\$1,001.24	\$1,036.28	\$1,072.55

1 - units calculated using total annual use multiplied by 0.9

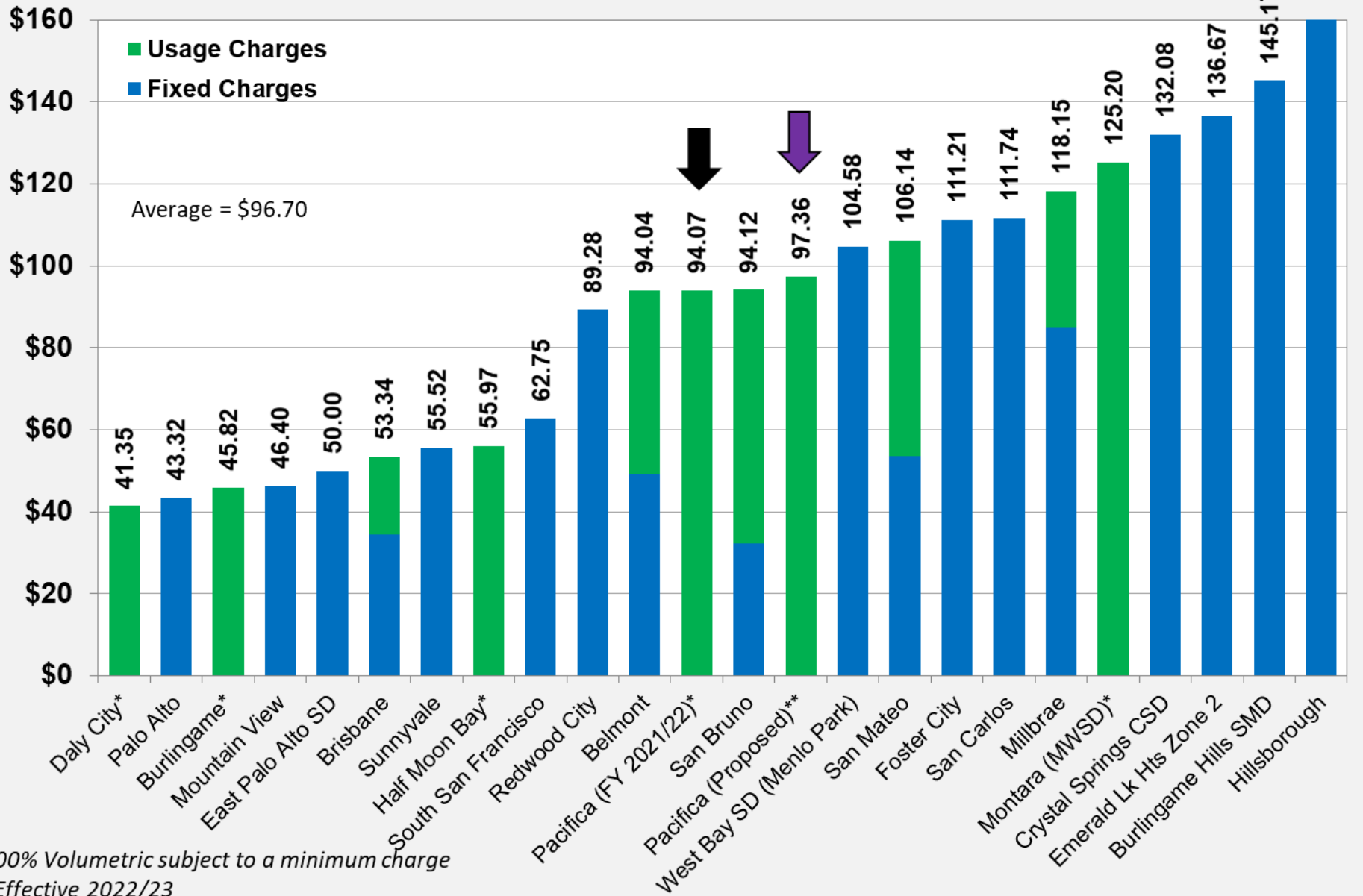
2 - units calculated using total annual water use multiplied by strength factor

Commerical Strength Factors

Car Washes	0.9
Cleaners	1.2
Laundromats	0.75
Restaurants with grease traps	1.6
Restaurants without grease traps	1.8
Gymnasiums	0.9
All other commercial use	1.0

Chart B: Single Family Residential Monthly Sewer Bills 2021/22

Based on flat rate or 5 hcf of monthly winter water use



*100% Volumetric subject to a minimum charge

**Effective 2022/23