ADOPTED BIENNIAL OPERATING AND CAPITAL BUDGET FY23 Budget Adjustments

JULY 1, 2022 - JUNE 30, 2023



CENTRAL MARIN SANITATION AGENCY



CENTRAL MARIN SANITATION AGENCY ADOPTED BIENNIAL OPERATING AND CAPITAL BUDGET REVISIONS ADOPTED JUNE 14 and JULY 14, 2022

FY23 JULY 1, 2022 through JUNE 30, 2023

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CENTRAL MARIN SANITATION AGENCY FUNDING REQUIREMENTS AND SOURCES SUMMARY Adopted Revisions to the FY23 Operating and Capital Budgets

	FY23	\neg	FY23	
	Adopted		Revised	%
Funding Requirements	Budget	Revisions	Budget	Change
Operating:		_		
Salaries and Wages	\$ 6,340,74		\$ 6,693,679	5.6%
Employee Benefits	3,256,62		3,321,609	2.0%
Chemicals & Fuels	1,279,15		1,542,730	20.6%
Biosolids Management	418,43	· ·	502,387	20.1%
Permit Testing & Monitoring	176,78	· ·	228,547	29.3%
Maintenance & Repairs	478,50	*	516,220	7.9%
Utilities	303,93		385,082	26.7%
Insurance	510,06		510,069	0.0%
General & Administrative	940,37	57,692	998,062	6.1%
Operating before debt and capital	13,704,62	993,764	14,698,384	7.3%
Debt Service (Note 1)	4,522,03	1 -	4,522,031	0.0%
Operating before capital	18,226,65	1 993,764	19,220,415	5.5%
Capital Improvements	4,388,14		7,447,606	69.7%
Capital improvements	4,366,14	3,039,438	7,447,000	03.776
Total requirements	\$ 22,614,79	9 \$ 4,053,222	\$ 26,668,021	17.9%
	FY23		FY23	0
	Adopted		Revised	
Funding Sources	Budget	Revisions	Budget	Change
Sorvice Charges	\$ 12,189,42	,	\$ 12,189,422	0.0%
Service Charges	1 ' '		\$ 12,189,422 977,580	
Capital Fee Debt Service Charge	977,58 5,652,53		5,652,539	0.0% 0.0%
Capacity Charges	247,11		247,117	0.0%
Contract Service Revenues				
	1,777,98		1,871,186	5.2%
Program Revenues	126,64		126,648	0.0%
Haulers, Permits & Inspections	297,72		272,725	-8.4%
Other Revenues	20,00		20,000	0.0%
Interest Income	51,36		51,365	0.0%
Other Financing Sources (Notes 1, 2)		-	-	
Subtotal funding sources	21,340,38	68,202	21,408,582	0.3%
Reserve (Increase) Usage	1,274,41	3,985,020	5,259,439	312.7%
Total funding sources	\$ 22,614,79	9 \$ 4,053,222	\$ 26,668,021	17.9%

Note 1: POB debt service funded through UAL within employee benefits

CENTRAL MARIN SANITATION AGENCY FUNDING REQUIREMENTS AND SOURCES SUMMARY Adopted Revisions to FY23 Revenue

		FY23				FY23	
		Adopted				Revised	%
Description		Budget	Re	evisions		Budget	Change
Control Control Programme							
Contract Service Revenues	¢		<u> </u>	C0 202	۸.	C0 202	
Airporter Revenue	\$	-	\$	68,202	\$	68,202	-
Marin Clean Energy Revenue		-		25,000		25,000	-
SQ State Prison Wastewater Services		740,422				740,422	0.0%
SQ State Prison Pump Station Maint		413,895				413,895	0.0%
SQ Village Wastewater Services		34,800				34,800	0.0%
SD #2 Pump Station Maintenance		480,295				480,295	0.0%
LGVSD - FOG & pollution prevention		23,519				23,519	0.0%
RVSD - FOG		29,095				29,095	0.0%
SRSD - FOG		39,911				39,911	0.0%
TCSD - FOG		2,459				2,459	0.0%
SD #2 - FOG		8,912				8,912	0.0%
Almonte SD - FOG		1,199				1,199	0.0%
Novato SD - Dental Amalgam		3,477				3,477	0.0%
Total contract service revenues	\$	1,777,984	\$	93,202	\$	1,871,186	5.2%
Total contract service revenues		1,777,504		33,202		1,071,100	3.270
Program Revenues							
Health & Safety Program	\$	83,080			\$	83,080	-
Public Education Program		43,568				43,568	-
Outside Safety Training		, -				· -	
,							
Total program revenues	\$	126,648	\$	-	\$	126,648	0.0%
Haulers, Permits & Inspection							
Permit and Inspection Fees	\$	31,000			\$	31,000	
	ڔ				ڔ		-
Revenue from Haulers - Septic		103,400				103,400	-
Revenue from Haulers - RV		2,500		(25,000)		2,500	0.0%
Revenue from Haulers - FOG		103,400		(25,000)		78,400	-24.2%
Revenue from Haulers - Liquid Waste		500				500	0.0%
Revenue from Foodwaste Disposal		56,925				56,925	0.0%
Total contract service revenues	\$	297,725	\$	(25,000)	\$	272,725	-8.4%
Interest Income							
Interest Income - WFB	\$	1,734			\$	1,734	0.0%
Interest Income - US Bank		1,250				1,250	0.0%
Interest Income - LAIF		48,000				48,000	0.0%
Investment Interest - CAMP		381				381	0.0%
Total contract service revenues	\$	51,365	\$	-	\$	51,365	0.0%
Other Revenues							
Other non-operating revenue	\$	20,000			\$	20,000	0.0%
Total contract service revenues	\$	20,000	\$		\$	20,000	0.0%
	<u> </u>	_0,000			<u> </u>	_0,000	2.0,3

Summary of Expenditures by Departments and Category

				% Change			% Change	
		FY22	FY23	FY23	FY23	FY23	FY23	
Operating Expenditures by		Adopted	Adopted	Adopted	Budget	Revised	Revised	% of Total
Department	FY21 Actual	Budget	Budget	From FY22	Revision	Budget	From FY23	Budget
ADMINISTRATION	2,634,799	2,671,252	2,801,322	4.9%	22,463	2,823,785	0.8%	19.2%
HEALTH & SAFETY	122,778	177,386	182,212	2.7%	4,679	186,891	2.6%	1.3%
TECHNICAL SERVICES	2,309,517	2,638,143	2,735,841	3.7%	494,995	3,230,836	18.1%	22.0%
OPERATIONS	4,012,940	4,488,519	4,523,769	0.8%	433,315	4,957,085	9.6%	33.7%
MAINTENANCE	3,143,621	3,276,335	3,461,476	5.7%	38,312	3,499,788	1.1%	23.8%
TOTAL	12,223,655	13,251,635	13,704,620	3.4%	993,764	14,698,385	7.3%	100.0%

				% Change			% Change	
		FY22	FY23	FY23	FY23	FY23	FY23	
Operating Expenditures by		Adopted	Adopted	Adopted	Budget	Revised	Revised	% of Total
Category	FY21 Actual	Budget	Budget	From FY22	Revision	Budget	From FY23	Budget
SALARIES	5,832,949	6,130,761	6,340,747	3.4%	352,932	6,693,679	5.6%	45.5%
BENEFITS	3,229,381	3,055,541	3,256,626	6.6%	64,983	3,321,609	2.0%	
SUB-TOTAL	9,062,330	9,186,302	9,597,373	4.5%	417,915	10,015,288	4.4%	68.1%
CHEMICALS & FUELS	983,485	1,313,142	1,279,151	-2.6%	263,579	1,542,730	20.6%	10.5%
UTILITIES	263,560	366,038	303,939	-2.0% -17.0%	81,143	385,082	26.7%	
BIOSOLIDS MANAGEMENT	381,059	404,285	418,435	3.5%	83,952	502,387	20.1%	
PERMIT TESTING & MONITORING	176,249	174,340	176,784	1.4%	51,763	228,547	29.3%	1.6%
MAINTENANCE & REPAIRS	365,146	423,500	478,500	13.0%	37,720	516,220	7.9%	3.5%
GENERAL & ADMINISTRATIVE	611,062	935,133	940,369	0.6%	57,692	998,062	6.1%	6.8%
INSURANCE	380,764	448,895	510,069	13.6%	-	510,069	0.0%	3.5%
SUB-TOTAL	3,161,325	4,065,333	4,107,247	1.0%	575,849	4,683,097	14.0%	31.9%
TOTAL	12,223,655	13,251,635	13,704,620	3.4%	993,764	14,698,385	7.3%	100.0%

Summary of Benefit Expenditures and Benefits as a Percent of Total Revenue

Schedule of Benefits as a Percent of Operating Revenues (excludes Debt Service, Capital Fee, Capacity Charge, Other Revenue, Other Financing Sources, and Reserve Increase/Usage)

Benefit Expenditures	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22	Benefits as a Percent of FY23 Total Revenue	FY23 Budget Revision	FY23 Revised Budget	% Change FY23 Revised From FY23	Benefits as a Percent of FY23 Total Revenue
					\$ 14,391,779				\$ 14,459,981
RETIREMENT (CALPERS CLASSIC, PEPRA, UAL)	1,495,280	1,651,345	1,782,015	7.9%	12.4%	33,231	1,815,246	1.86%	12.6%
CALPERS CLASSIC	505,226	447,600	462,605	3.4%	3.21%	(21,843)	440,762	-4.7%	3.05%
CALPERS PEPRA	159,857	194,807	201,710	3.5%	1.40%	18,529	220,239	9.19%	1.52%
CALPERS UNFUNDED ACCRUED LIABILITY - CLASSIC	825,306	1,002,478	1,111,000	10.8%	7.72%	36,545	1,147,545	3.29%	7.94%
CALPERS UNFUNDED ACCRUED LIABILITY - PEPRA	4,891	6,460	6,700	3.7%	0.05%	-	6,700	0.00%	0.05%
RETIREMENT - CALPERS SURVIVORS	2,723	2,790	2,973	6.6%	0.02%	-	2,973	0.00%	0.02%
RETIREMENT - PARS (Alternate Retirement Plan)	2,510	5,702	5,790	1.5%	0.04%	58	5,848	1.00%	0.04%
RETIREMENT - SOCIAL SECURITY/MEDICARE	88,956	91,927	95,147	3.5%	0.66%	1,878	97,025	1.97%	0.67%
CALPERS MEDICAL	720,636	738,988	787,022	6.5%	5.47%	61,280	848,302	7.79%	5.87%
MEDICAL - FLEX \$	57,730	125,264	125,264	0.0%	0.87%	(34,254)	91,010	-27.35%	0.63%
DENTAL	81,544	46,461	48,784	5.0%	0.34%	25,554	74,338	52.38%	0.51%
LIFE INSURANCE, AD&D, LTD	31,116	31,623	32,730	3.5%	0.23%	-	32,730	0.00%	0.23%
VISION	11,148	11,465	11,694	2.0%	0.08%	6,023	17,717	51.51%	0.12%
PEHP/MARA	52,825	62,110	64,285	3.5%	0.45%	1,532	65,817	2.38%	0.46%
CALPERS MEDICAL - RETIRED EMPLOYEES	72,853	85,504	90,634	6.0%	0.63%	(13,463)	77,171	-14.85%	0.53%
MEDICAL REIMBURSEMENTS - RETIRED EMPLOYEES	93,134	114,854	121,744	6.0%	0.85%	(16,856)	104,888	-13.85%	0.73%
ANNUAL OPEB CONTRIBUTION	42,642	39,958	39,958	0.0%	0.28%	-	39,958	0.00%	0.28%
BENEFITS - EAP	3,559	7,199	7,361	2.3%	0.05%	_	7,361	0.00%	0.05%
BENEFIT ADMINISTRATION FEES	4,689	17,190	17,535	2.0%	0.12%	-	17,535	0.00%	0.12%
TOTAL *	2,761,346	3,032,380	3,232,936	6.6%	22.46%	64,983	3,297,919	2.01%	22.81%

^{*} Benefit line items for unemployment benefits and uniforms are excluded from the Summary of Benefit Expenditures and Benefits as a Percent of Total Revenue table.

FY23 Operating Budget

Administration Department (0110)

Line Item Accounts

ADMINISTRATION

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
Account #	Account Name	Бу	Actual	Duuget	buuget	FIOIII F122
SALARIES & BENEFITS						
100-0110-440-7001	Salaries wages - regular	ASM	1,157,056	1,080,576	1,118,396	3.5%
100-0110-440-7002	Salaries wages - part-time	ASM	-	-	-	0.0%
100-0110-440-7003	Salaries wages - temp	ASM	-	50,000	50,000	0.0%
100-0110-440-7004	Salaries wages - board	GM	10,350	17,100	17,100	0.0%
100-0110-440-7005	Salaries wages - overtime	GM	9,587	6,682	6,916	3.5%
Subtotal Salaries & W	/ages		1,176,994	1,154,358	1,192,412	3.3%
100-0110-440-7021	Er ret - CalPERS classic	ASM	170,801	129,336	133,672	3.4%
100-0110-440-7022	Er ret - CalPERS PEPRA	ASM	26,088	8,057	8,350	3.6%
100-0110-440-7023	Er ret - CalPERS survivors	ASM	395	438	467	6.6%
100-0110-440-7024	Er ret - CalPERS Classic UAL	ASM	165,061	155,941	172,822	10.8%
		7.6	200,002	200,0 . 2	-7-2,0-2	20.07
100-0110-440-7025	Er ret - CalPERS PEPRA UAL	ASM	250	1,005	1,042	3.7%
100-0110-440-7027	Er ret - PARS benefit	ASM	684	3,173	3,173	0.0%
100-0110-440-7028	Er ret - medicare	ASM	27,736	16,738	17,324	3.5%
100-0110-440-7041	Benefits - medical active	ASM	194,122	122,124	130,062	6.5%
100-0110-440-7042	Benefits - flex\$	ASM	35,334	28,749	28,749	0.0%
100-0110-440-7043	Benefits - dental	ASM	24,303	7,292	7,656	5.0%
100-0110-440-7044	Benefits - life-AD&D-LTD Ins	ASM	8,751	4,963	5,137	3.5%
100-0110-440-7045	Benefits - vision	ASM	3,258	1,799	1,835	2.0%
100-0110-440-7046	Benefits - Er paid MARA: PEPH/Z	ASM	17,175	7,281	7,536	3.5%
100-0110-440-7047	Benefits - retiree medical prem	ASM	34,555	14,826	15,716	6.0%
100-0110-440-7048	Benefits - retiree medical reimb	ASM	9,112	19,915	21,110	6.0%
100-0110-440-7049	Benefits - retiree medical prefund	ASM	6,413	6,271	6,271	0.0%
100-0110-440-7051	Benefits - EAP	AS	520	687	704	2.5%
100 0110 440-7031	Denetito LAI	7.3	320	007	704	2.3/0

GM General Manager

ASM Administrative Services Manager

OS Operations Supervisor

ISA Information Systems Administrator

AE Associate Engineer
AS Administrative Specialist

		% Change	
	FY23	FY23	
FY23 Budget	Revised	Revised	
Revision	Budget	From FY23	Budget Account Description
36,470	1,154,866	3.3%	Salaries for six full-time employees. FY23 increases are for a 5% COLA, 2 step adjustments,
			awards, and leave balance cash-outs.
	-	0.0%	
(30,000)	20,000	-60.0%	Account established for an Agency internship program employing the equivalent of 1.75 full
			time employees. FY23 allocates \$30K to Technical Services per FY22 usage.
	17,100		Stipends for attending Board and committee meetings.
100	7,016	1.4%	Authorized overtime to complete special activities or assignments.
6,570	1,198,982	0.6%	
4,288	137,960	3.2%	Employer contributions for CalPERS 2.7% @ 55 for Classic employee retirement program. The
			FY23 employer contribution rate is 14.03%.
393	8,743	4.7%	Employer contributions for CalPERS 2% @ 62 retirement program for PEPRA employees hired
			after January 1, 2013. The FY23 employer PEPRA contribution rate is 7.47%.
	467		Annual Survivors Benefit premium.
5,685	178,507	3.3%	The Classic unfunded accrued liability is the total minimum required employer contribution
			established in the CalPERS Actuarial Valuation Report dated June 30, 2019. The Agency
			selects the annual lump sum prepayment option.
	1,042	0.0%	The PEPRA unfunded accrued liability is the total minimum required employer contribution.
			The Agency selects the annual lump sum prepayment option.
146	3,319	4.6%	PARS is retirement account for part-time and temporary employees. The employer rate is
			3.75%.
496	17,820		Employer's 1.45% share of Medicare for all employees.
(4,758)	125,304	-3.7%	Medical coverage up to the Kaiser family rate. FY23 decrease due to Kaiser current premium
			was less than budgeted. FY23 assumes 6 months current premium and a 6.5% premium
			increase for premiums effective January 1st.
(2,973)	25,776	-10.3%	Medical benefit differential paid for family coverage to two eligible employees. FY23
			decrease due to reduced flex dollar benefit for one eligible employee.
4,011	11,667	52.4%	Dental is self-insured. Increase based upon projected FY22 actual expenses for dental
			services.
	5,137	0.0%	Employer paid life, accidental death & dismemberment, and long-term disability insurances.
946	2,781	51.6%	Employer paid vision benefits. Board approved enhanced vision benefits.
514	8,050	6.8%	PEHP: Post Employment Health Plan (also known as MARA: medical after retirement
			account). Employer contribution of 1.5% of base salary.
(4,693)	11,023	-29.9%	Medical benefits for six retired employees at the SF-Bay Area PERS Kaiser single rate.
			Decrease due to FY23 revision allocates premiums by department, not headcount as a
			percentage of total annual premium. In line with how reimbursements are processed and
			paid out of account 7048.
(13,635)	7,475	-64.6%	Medical benefits in excess of the CalPERS PEMCHA miniumum reimbursed directly to retirees
,	,		is charged to departments. Decrease due to FY23 revised allocated actual premiums by
			department, not headcount as a percentage of total monthly premium.
	6,271	0.0%	Prefunding of the Agency's post-employment health benefit obligations for current retirees
	0,2,1	0.070	and employees. The prefunding amount is in accordance with the Agency's OPEB Funding
			Plan updated annually.
	704	U U0/	Confidential professional counseling provided to employees.
	704	0.0%	connactical professional couriseining provided to employees.

Line Item Accounts

ADMINISTRATION

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
100-0110-440-7061	Unemployment benefits	ASM	-	1,250	1,250	0.0%
100-0110-440-7062	Benefit adminstration fees	ASM	1,926	2,698	2,752	2.0%
Subtotal Benefits			726,485	532,543	565,628	6.2%
Total Salaries & Bene	fits		1,903,479	1,686,901	1,758,040	4.2%
INSURANCE						
100-0110-440-7401	Ins - general liability & auto	ASM	63,022	86,883	95,976	10.5%
100-0110-440-7402	Ins - pollution liability	ASM	1,068	1,317	1,448	9.9%
100-0110-440-7403	Ins - employees comm bond	ASM	875	900	1,800	100.0%
100-0110-440-7404	Ins - commercial crime	ASM	1,496	1,571	1,649	5.0%
100-0110-440-7406	Ins - property	ASM	97,234	131,266	164,082	25.0%
100-0110-440-7405	Ins - workers compensation	ASM	217,070	226,958	245,114	8.0%
Subtotal Insurance	·		380,764	448,895	510,069	13.6%
Utilities and Telephor	ne					
100-0110-440-7501	Internet & telephone	ISA	41,646	45,830	46,751	2.0%
Subtotal Utilities and	Telephone		41,646	45,830	46,751	2.0%
GENERAL ADMINISTR	RATIVE					
100-0110-440-7601	Meetings/Training	GM	4,706	4,000	4,000	0.0%
100-0110-440-7602	Conferences	GM	7,403	25,000	25,000	0.0%
100-0110-440-7603	Commissioners - mtgs/conf	GM	6,525	8,000	8,000	0.0%
100-0110-440-7610	Prof affiliation memberships	ASM	5,926	5,840	5,840	0.0%
100-0110-440-7611	Membership - BACWA	GM	8,531	8,531	8,702	2.0%
100-0110-440-7612	Membership - NBWA	GM	4,448	5,560	5,560	0.0%
100-0110-440-7613	Membership - CASA	GM	17,100	17,100	17,955	5.0%
100-0110-440-7614	Membership - NACWA	GM	11,250	11,588	12,051	4.0%
100 0110 440 7014						
100-0110-440-7615	Bay Area Biosolids Coalition	GM	3,250	6,500	6,500	0.0%

GM General Manager

ASM Administrative Services Manager

OS Operations Supervisor

ISA Information Systems Administrator

AE Associate Engineer
AS Administrative Specialist

		% Change	
	FY23	FY23	
FY23 Budget	Revised	Revised	
Revision	Budget	From FY23	Budget Account Description
Revision	1,250		An allowance for unemployment benefits paid to State Employment Development
	1,230	0.070	Department (EDD) for claims filed by separated employees.
	2,752	0.0%	Administrative fees charged for EDIS dental, CalPERS medical, PEHP post employment health,
	2,732	0.070	and NAVIA Flex 125 plans.
(9,580)	556,048	-1.7%	und NAVIATIEX 125 piuns.
(3,010)	1,755,030	-0.2%	
(-//	,,		
	95,976	0.0%	CSRMA pooled insurance coverage for general, automobile, and error and omission liability
			premiums. CSRMA recommended premium increase.
	1,448	0.0%	CSRMA pollution liability insurance for cleanup costs resulting from underground fuel storage
			tank system leaks and releases and other pollution caused losses.
	1,800	0.0%	CSRMA public official bonds for four Agency employees and one commissioner who are
			authorized to sign Agency checks, and includes employees who handle Agency funds such as
			petty cash.
	1,649	0.0%	Coverage for dishonest public employees, loss of money orders, depositor's forgery, or
			counterfeit currency. It is intended to cover all employees not covered under the
			employee/public official bonds.
	164,082	0.0%	CSRMA property insurance coverage for all Agency buildings and structures.
	245,114	0.0%	CSRMA workers' compensation (WC) insurance for Agency employees.
-	510,069	0.0%	
5,621	52,372	12.0%	Expenses associated with telephone, internet and email services, cell phones, portable
3,021	32,372	12.070	radios, and data plan expenses. Revised amounts based on actual FY22 services and
			associated expenses.
5,621	52,372	12.0%	associated expenses.
3,022	32,372	22.070	
	4,000	0.0%	Expenses associated with staff travel, training, and attendance at single-day professional
			meetings and seminars. Includes allowed expenses pursuant to the Agency's travel expense
			reimbursement policy.
	25,000	0.0%	Expenses associated with staff attendance at multi-day professional conferences, seminars,
			and training events outlined in the Agency's travel expense reimbursement policy.
	8,000		Conferences and meetings for Board members.
	5,840		Professional memberships, license, and registration requirements for department staff.
	8,702		Annual membership dues to the Bay Area Clean Water Agencies (BACWA).
	5,560	0.0%	Annual membership dues to the North Bay Watershed Association (NBWA). CMSA appoints a
			commissioner to the NBWA Board.
	17,955		Annual membership dues to the California Association of Sanitation Agencies (CASA).
	12,051	0.0%	Annual membership dues to the National Association of Clean Water Agencies (NACWA).
			NACWA represents the wastewater industry nationwide on regulatory and legislative issues.
	6,500		Agency membership for Bay Area Biosolids-to-Energy Coalition.
	8,000	0.0%	Agency sponsorship for the Bay Area Consortium for Water & Wastewater Education
			Program.

Line Item Accounts

ADMINISTRATION

		*5	FY21	FY22 Adopted	FY23 Adopted	% Change FY23 Adopted
Account #	Account Name	*By	Actual	Budget	Budget	From FY22
100-0110-440-7650	Office expense	AS	27,224	35,000	35,000	0.0%
100-0110-440-7651	Safety supplies	OS	30,863	34,190	30,105	-11.9%
100-0110-440-7652	Information technology software	ISA	46,736	57,699	46,251	-19.8%
100-0110-440-7670	Printing & publications	AS	5,205	2,500	2,750	10.0%
100-0110-440-7701	Prof svcs - general	GM	45,837	55,000	55,000	0.0%
100-0110-440-7702	Prof svcs - regulatory	GM	29	50,000	60,000	20.0%
100-0110-440-7703	Prof svcs - finance/audit	ASM	39,224	51,000	51,000	0.0%
100-0110-440-7704	Prof svcs - labor negotiations	GM	10,404	10,868	11,248	3.5%
100-0110-440-7705	Prof svcs - legal	GM	18,988	30,000	30,000	0.0%
100-0110-440-7731	Employee health maintenance	AS	3,128	3,500	3,500	0.0%
100-0110-440-7751	Bank fees - general	ASM	7,844	6,250	6,500	4.0%
100-0110-440-7762	Postage & shipping	AS	4,463	3,500	3,500	0.0%
100-0110-440-7763	Trade discounts	ASM	(176)	-	-	0.0%
100-0110-440-7769	Contingency	GM	-	50,000	50,000	0.0%
Subtotal General & A	dministrative		308,910	489,626	486,462	-0.6%
Subtotal (excluding	Salary and Benefits)		731,320	984,351	1,043,282	6.0%
Total Administration			2,634,799	2,671,252	2,801,322	4.9%

GM General Manager

ASM Administrative Services Manager

OS Operations Supervisor

ISA Information Systems Administrator

AE Associate Engineer
AS Administrative Specialist

	EV22	% Change	
EVOD D. J. J.	FY23	FY23	
FY23 Budget	Revised	Revised	P. dark Associate Providence
Revision	Budget	From FY23	Budget Account Description
	35,000	0.0%	Costs associated with the Agency's administrative operations, including office supplies, copier
		2.22/	leases, office furniture, office equipment service and repairs, and other related expenses.
	30,105	0.0%	Annual expenses for safety training, first aid and emergency supplies, defibrillator and fire
			extinguisher testing, various one-time purchases, and safety assessment expenses to correct
			workplace hazards.
19,852	66,103	42.9%	Expenses related to Information Technology equipment and software licenses and upgrades.
			Increase on individual items plus re-budgeting \$11K for source control software upgrade not
			performed in FY22.
	2,750	0.0%	Expenses associated with newspaper subscriptions, publication of notices, and copy services
			at local print shops.
	55,000	0.0%	Expenses for general governmental and human resource services such as recruitments,
			background reference checks, and employment law staff training and development.
	60,000	0.0%	Consultation and advice on regulatory compliance and permit issues. The NPDES permit
			renewal process began in FY22.
	51,000	0.0%	Expenses for professional services related to the financial operations of the Agency: annual
			audit of financial statements; annual renewal financial software license and support; GFOA
			Award program fees; actuarial, financial and operational analyses.
	11,248	0.0%	IDEA annual fee for labor relations and negotiations services.
	30,000		Expenses for general, employment law, and construction/contract legal services.
	3,500	0.0%	Expense for workplace safety related physicals, pre-employment exams, and urgent care at
			Kaiser Hospital and Medical Center of Marin.
	6,500	0.0%	Bank fees and investment expenses for California Asset Management Program and
			Westamerica Bank accounts, and includes finance charges and late payment fees. The
			Agency is implemented Postive Pay in FY22 to protect against check fraud.
	3,500	0.0%	Postage, delivery, and overnight shipping expense.
	-	0.0%	Account used to record vendor payment discounts received and taken for paying bills within
			payment terms.
	50,000	0.0%	Funds available for transfer to other operating budget accounts for unplanned and
			unanticipated activities.
19,852	506,314	4.1%	
25,473	1,068,755	2.4%	
22,463	2,823,785	0.8%	

FY23 Operating Budget

Health & Safety Department (0120)

Line Item Accounts

CMSA Health & Safety Department

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
					200801	
SALARIES & BENEFITS 100-0120-440-7001	Salaries wages - regular	ASM	67,843	82,920	85,823	3.5%
100-0120-440-7001	Salaries wages - regular	ASIVI	07,645	62,920	03,023	3.3/0
100-0120-440-7015	Salaries wages - car allow	ASM	667	2,892	2,892	0.0%
Subtotal Salaries Wa			68,511	85,812	88,715	3.4%
100-0120-440-7022	Er ret - CalPERS PEPRA	ASM	5,380	6,199	6,424	3.6%
100-0120-440-7023	Er ret - CalPERS survivors	ASM	34	38	40	5.3%
100-0120-440-7024	Er ret - CalPERS Classic UAL	ASM	-	22,277	24,689	10.8%
100-0120-440-7025	Er ret - CalPERS PEPRA UAL	ASM	150	144	149	3.5%
100-0120-440-7028	Er ret - medicare	ASM	997	1,244	1,288	3.5%
100-0120-440-7041	Benefits - medical active	ASM	4,793	6,236	6,641	6.5%
100-0120-440-7043	Benefits - dental	ASM	266	628	659	4.9%
100-0120-440-7044	Benefits - life-AD&D-LTD Ins	ASM	361	427	442	3.5%
100-0120-440-7045	Benefits - vision	ASM	171	155	158	1.9%
100-0120-440-7046	Benefits - Er paid MARA: PEPH/Z	ASM	880	1,225	1,268	3.5%
100-0120-440-7047	Benefits - retiree medical prem	ASM	852	1,489	1,578	6.0%
100-0120-440-7048	Benefits - retiree medical reimb	ASM	-	2,000	2,120	6.0%
100-0120-440-7049	Benefits - retiree medical prefund	ASM	549	540	540	0.0%
100-0120-440-7051	Benefits - EAP	SSS	52	98	101	3.1%
100-0120-440-7061	Unemployment benefits	ASM	-	120	120	0.0%
100-0120-440-7062	Benefit adminstration fees	ASM	128	232	237	2.2%
Subtotal Benefits			14,615	43,052	46,454	7.9%
Total Salaries & Bene	fits		83,126	128,864	135,169	4.9%
GENERAL ADMINISTE			4.42	4 205	4 205	0.000
100-0120-440-7601	Meetings/Training	SSS	443	1,205	1,205	0.0%
100-0120-440-7602	Conferences	SSS	1,635	2,410	2,410	0.0%
100-0120-440-7610	Prof affiliation memberships	SSS	256	615	615	0.0%

ASM Administrative Services Manager

GM General Manager SSS Senior Safety Specialist

1,242 87,065 1.4% CMSA's 60.25% share of the Senior Safety Specialist (SSS) position. FY23 includes 5% COLA, awards, and leave balance cash-out. 2,892 0.0% CMSA's 60.25% share of the SSS car allowance. 1,242 89,957 1.4% (18) 6,406 -0.3% Employer contributions for CalPERS 2% @ 62 retirement program for PEPRA employees hired after January 1, 2013. The FY23 employer PEPRA contribution rate is 7.47%. 40 0.0% Annual Survivors Benefit premium. 812 25,501 3.3% The Classic unfunded accrued liability is the total minimum required employer contribution established in the CalPERS Actuarial Valuation Report dated June 30, 2019. The Agency selects the annual lump sum prepayment option. 149 0.0% The PEPRA unfunded accrued liability is the total minimum required employer contribution. 16 1,304 1.2% Employer's 1.45% share of Medicare for all employees. 3,093 9,734 46.6% Medical coverage up to the Kaiser family rate. FY23 increase due to more expensive plan elected during open enrollment. 2.4% Dental is self-insured. 442 0.0% Employer paid vision benefits. Board approved enhanced vision benefits. 18 1,286 1.4% PEHP: Post Employment Health Plan (also known as MARA: medical after retirement account). Employer contribution of 1.5% of base salary. (471) 1,107 -29.8% Medical benefits for a 60.25% share of one retired employee at the SF-Bay Area PERS Kaiser single rate. Decrease due to FY23 revision allocated actual premiums by department, not headcount as a percentage of total monthly premium. (439) 1,681 -20.7% Medical benefits in excess of the CalPERS PEMCHA minimum reimbursed directly to retirees is charged to departments. Decrease due to FY23 revision allocated actual premiums by department, not headcount as a percentage of total monthly premium. 540 0.0% Prefunding of the Agency's post-employment health benefit obligations for current retirees and employees. The prefunding amount is in accordance with the Agency's OPEB Funding Plan updated annually. 540 0.0% An allowance for unemployment benefits paid to State Emp	FY23 Budget Revision	FY23 Revised Budget	% Change FY23 Revised From FY23	Budget Account Description
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812 25,501 3.3% The Classic unfunded accrued liability is the total minimum required employer contribution established in the CalPERS Actuarial Valuation Report dated June 30, 2019. The Agency selects the annual lump sum prepayment option. 149 0.0% The PEPRA unfunded accrued liability is the total minimum required employer contribution. The Agency selects the annual lump sum prepayment option. 16 1,304 1.2% Employer's 1.45% share of Medicare for all employees. 3,093 9,734 46.6% Medical coverage up to the Kaiser family rate. FY23 increase due to more expensive plan elected during open enrollment. 345 1,004 52.4% Dental is self-insured. 442 0.0% Employer paid life, accidental death & dismemberment, and long-term disability insurances. 81 239 51.3% Employer paid vision benefits. Board approved enhanced vision benefits. 18 1,286 1.4% PEHP: Post Employment Health Plan (also known as MARA: medical after retirement account). Employer contribution of 1.5% of base salary. (471) 1,107 -29.8% Medical benefits for a 60.25% share of one retired employee at the SF-Bay Area PERS Kaiser single rate. Decrease due to FY23 revision allocated actual premiums by department, not headcount as a percentage of total monthly premium. (439) 1,681 -20.7% Medical benefits in excess of the CalPERS PEMCHA minimum reimbursed directly to retirees is charged to departments. Decrease due to FY23 revised allocated actual premiums by department, not headcount as a percentage of total monthly premium. 540 0.0% Prefunding of the Agency's post-employment health benefit obligations for current retirees and employees. The prefunding amount is in accordance with the Agency's OPEB Funding Plan updated annually. 0.0% Confidential professional counseling provided to employees. 120 0.0% An allowance for unemployment benefits paid to State Employment Development Department (EDD) for claims filed by separated employees. 1237 0.0% Administrative fees charged for EDIS dental, CalPERS medical, PEHP post employment health, and NAVIA Flex 125 plans. 1	(18)	6,406	-0.3%	
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149 0.0% The PEPRA unfunded accrued liability is the total minimum required employer contribution. The Agency selects the annual lump sum prepayment option. 16 1,304 1.2% Employer's 1.45% share of Medicare for all employees. 3,093 9,734 46.6% Medical coverage up to the Kaiser family rate. FY23 increase due to more expensive plan elected during open enrollment. 345 1,004 52.4% Dental is self-insured. 442 0.0% Employer paid life, accidental death & dismemberment, and long-term disability insurances. 81 239 51.3% Employer paid vision benefits. Board approved enhanced vision benefits. 18 1,286 1.4% PEHP: Post Employment Health Plan (also known as MARA: medical after retirement account). Employer contribution of 1.5% of base salary. (471) 1,107 -29.8% Medical benefits for a 60.25% share of one retired employee at the SF-Bay Area PERS Kaiser single rate. Decrease due to FY23 revision allocated actual premiums by department, not headcount as a percentage of total monthly premium. (439) 1,681 -20.7% Medical benefits in excess of the CalPERS PEMCHA minimumum reimbursed directly to retirees is charged to departments. Decrease due to FY23 revised allocated actual premiums by department, not headcount as a percentage of total monthly premium. 540 0.0% Prefunding of the Agency's post-employment health benefit obligations for current retirees and employees. The prefunding amount is in accordance with the Agency's OPEB Funding Plan updated annually. 101 0.0% Confidential professional counseling provided to employees. 237 0.0% An allowance for unemployment benefits paid to State Employment Development Department (EDD) for claims filed by separated employees. 4,679 139,848 3.5% 1,205 0.0% Visual aids, tools, IT equipment, training materials, and refreshments. 2,410 0.5 Safety related conferences, professional development, webinars, industry conferences and meetings.				· · · · · · · · · · · · · · · · · · ·
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		615	0.0%	
			,-	Safety Council, and American Society of Safety Professionals.

Line Item Accounts

CMSA Health & Safety Department

				5 1/22	EV.2.2	% Change
				FY22	FY23	FY23
			FY21	Adopted	Adopted	Adopted
Account #	Account Name	*By	Actual	Budget	Budget	From FY22
100-0120-440-7650	Office expense	SSS	252	301	301	0.0%
100-0120-440-7651	Safety supplies	SSS	142	120	120	0.0%
100-0120-440-7652	Information technology software	SSS	667	2,771	2,834	2.3%
100-0120-440-7670	Printing & publications	SSS	438	1,024	1,024	0.0%
100-0120-440-7701	Prof svcs - general	SSS	85	3,013	3,013	0.0%
100-0120-440-7738	H&S Program Admin CMSA Share	SSS	29,844	27,415	28,375	3.5%
100-0120-440-7739	Outside safety training	SSS	5,890	9,648	7,146	-25.9%
Subtotal Administrati	ive		39,652	48,522	47,043	-3.0%
Subtotal (excluding	Salary and Benefits)		39,652	48,522	47,043	-3.0%
Total Health & Safety		122,778	177,386	182,212	2.7%	

ASM Administrative Services Manager

GM General Manager SSS Senior Safety Specialist

		% Change	
FY23	FY23	FY23	
Budget	Revised	Revised	
Revision	Budget	From FY23	Budget Account Description
	301	0.0%	
	120	0.0%	
	2,834	0.0%	MSDS Online, Keller Online
	1,024	0.0%	Mancomm Regulations, CalOSHA Reporter, Safety Alert for Supervisors, NFPA/ANSI
			Standards
	3,013	0.0%	Contracted services to assist in completion/developing of programs.
	28,375	0.0%	The budget is for costs shared equally between CMSA and NSD for NSD's Administrative/Risk
			Services & Safety Officer (25% of total salary and benefits, split 50/50).
	7,146	0.0%	Training expenses for required safety programs that include hearing tests, CPR/first aid, fire
			extinguisher, incident command, traffic control, defensive driving, and many other Cal/OSHA
			programs that facilitate a safe work environment.
-	47,043	0.0%	
-	47,043	0.0%	
4.679	186.891	2.6%	

FY23 Operating Budget

Technical Services Department (0230)

Line Item Accounts

TECHNICAL SERVICES

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
SALARY & WAGES						
100-0230-440-7001	Salaries wages - regular	ASM	1,280,007	1,317,137	1,363,236	3.5%
100-0230-440-7281	Transfer to CIP	GM	(239,627)	(150,552)	(155,664)	3.4%
100-0230-440-7003	Salaries wages - temp	TSM	28,521	-	-	0.0%
100-0230-440-7005	Salaries wages - overtime	TSM	6,383	7,146	7,396	3.5%
100-0230-440-7009	Salaries wages - standby	TSM	-	4,424	4,579	3.5%
Subtotal Salary & Wa	ages		1,075,284	1,178,155	1,219,547	3.5%
100-0230-440-7021	Er ret - CalPERS classic	ASM	75,708	62,783	64,887	3.4%
100-0230-440-7022	Er ret - CalPERS PEPRA	ASM	39,357	63,563	65,694	3.4%
100-0230-440-7023	Er ret - CalPERS survivors	ASM	546	563	600	6.6%
100-0230-440-7024	Er ret - CalPERS Classic UAL	ASM	165,061	200,496	222,200	10.8%
100-0230-440-7025	Er ret - CalPERS PEPRA UAL	ASM	998	1,292	1,340	3.7%
100-0230-440-7027	Er ret - PARS benefit	ASM	854	-	-	0.0%
100-0230-440-7028	Er ret - medicare	ASM	16,600	19,266	19,941	3.5%
100-0230-440-7041	Benefits - medical active	ASM	92,775	115,914	123,449	6.5%
100-0230-440-7043	Benefits - dental	ASM	6,953	9,375	9,844	5.0%
100-0230-440-7044	Benefits - life-AD&D-LTD Ins	ASM	5,565	6,381	6,604	3.5%
100-0230-440-7045	Benefits - vision	ASM	1,661	2,313	2,360	2.0%
100-0230-440-7046	Benefits - Er paid MARA: PEPH/Z	ASM	10,344	15,168	15,699	3.5%
100-0230-440-7047	Benefits - retiree medical prem	ASM	3,822	12,355	13,096	6.0%
100-0230-440-7048	Benefits - retiree medical reimb	ASM	24,786	16,596	17,592	6.0%
100-0230-440-7049	Benefits - retiree medical prefund	ASM	8,234	8,063	8,063	0.0%
100-0230-440-7051	Benefits - EAP	ASM	779	883	905	2.5%
100-0230-440-7061	Unemployment benefits	ASM	1,330	1,875	1,875	0.0%

GM General Manager

ASM Administrative Services Manager

TSM Technical Services Manager

RCM Regulatory Compliance Manager

AE Associate Engineer

FY23 Budget	FY23 Revised	% Change FY23 Revised	
Revision	Budget	From FY23	Budget Account Description
94,830	1,458,066	7.0%	Salaries for nine full-time employees and includes a 5% COLA salary increase, 3 step
,	, ,		adjustments, awards, and leave balance cash-outs.
155,664	-	-100.0%	Transfer of salary expenses for staff assigned to CIP funded projects (.61 FTE).
30,000	30,000		Budget allocated from Administration in accordance with TS Department FY22 usage.
2,819	10,215	38.1%	Authorized overtime to complete special activities or assignments including activities
			supporting the public education program.
(1,552)	3,027	-33.9%	Stand-by duty is assigned to a laboratory analyst during the wet weather event season
			November through April 30th when there is a reasonable potential that a blending event may
			occur during the weekend.
281,761	1,501,308	23.1%	
6,981	71,868	10.8%	Employer contributions for CalPERS 2.7% @ 55 for Classic employee retirement program. The
2.045	CO F20	4.20/	FY23 employer contribution rate is 14.03%.
2,845	68,539	4.3%	Employer contributions for CalPERS 2% @ 62 retirement program for PEPRA employees hired
	600	0.0%	after January 1, 2013. The FY23 employer PEPRA contribution rate is 7.47%.
7,309	229,509		Annual Survivors Benefit premium. The Classic unfunded accrued liability is the total minimum required employer contribution
7,309	229,309	3.3/0	established in the CalPERS Actuarial Valuation Report dated June 30, 2019. The Agency
			selects the annual lump sum prepayment option.
	1,340	0.0%	The PEPRA unfunded accrued liability is the total minimum required employer contribution.
	1,340	0.076	The Agency selects the annual lump sum prepayment option.
		0.0%	PARS is retirement account for part-time and temporary employees. The employer rate is
	_	0.070	3.75%.
1,393	21,334	7.0%	Employer's 1.45% share of Medicare for all employees.
12,474	135,923		Medical coverage up to the Kaiser family rate. FY23 increase due to a new hire elected family
	•		coverage when the open position had been budgeted for single coverage.
5,156	15,000	52.4%	Dental is self-insured. Increase based upon projected FY22 actual expenses for dental
			services.
	6,604	0.0%	Employer paid life, accidental death & dismemberment, and long-term disability insurances.
1,215	3,575	51.5%	Employer paid vision benefits. Board approved enhanced vision benefits.
1,290	16,989	8.2%	PEHP: Post Employment Health Plan (also known as MARA: medical after retirement
			account). Employer contribution of 1.5% of base salary.
(2,073)	11,023	-15.8%	Medical benefits for six retired employees at the SF-Bay Area PERS Kaiser single rate.
			Decrease due to FY23 revision allocated actual premiums by department, not headcount as a
			percentage of total monthly premium.
4,412	22,004	25.1%	Medical benefits in excess of the CalPERS PEMCHA miniumum reimbursed directly to retirees
			is charged to departments. Increase due to FY23 revision allocated actual premiums by
			department, not headcount as a percentage of total monthly premium. Premiums are higher
			for two retirees not eligible for medicare.
	8,063	0.0%	Prefunding of the Agency's post-employment health benefit obligations for current retirees
			and employees. The prefunding amount is in accordance with the Agency's OPEB Funding
			Plan updated annually.
	905		Confidential professional counseling provided to employees.
	1,875	0.0%	An allowance for unemployment benefits paid to State Employment Development
			Department (EDD) for claims filed by separated employees.

Line Item Accounts

TECHNICAL SERVICES

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
100-0230-440-7062	Benefit adminstration fees	ASM	484	3,469	3,538	2.0%
100-0230-440-7063	Uniforms	AE	2,720	2,057	2,129	3.5%
Subtotal Benefits			469,273	588,758	626,162	6.4%
Total Salaries & Bene	efits		1,544,557	1,766,913	1,845,709	4.5%
BIOSOLIDS MANAGE	MENT					
100-0230-440-7101	Biosolids Hauling	AE	121,209	120,536	124,755	3.5%
100-0230-440-7102	Biosolids Reuse Fees	AE	259,849	283,749	293,680	3.5%
Subtotal Biosolids M	anagement		381,059	404,285	418,435	3.5%
PERMIT TESTING & N	AONITORING					
100-0230-440-7301	Lab Supplies	RCM	72,182	78,772	81,529	3.5%
			, =,===	76,772	02,020	0.070
100-0230-440-7302	Lab maintenance & rentals	RCM	11,164	16,523	13,996	-15.3%
100-0230-440-7310	Biosolids monitoring	RCM	12,260	10,450	10,764	3.0%
100-0230-440-7311	NPDES monitoring	RCM	45,833	33,891	35,077	3.5%
100-0230-440-7312	Source control monitoring	TSM	21,976	19,954	20,652	3.5%
100-0230-440-7313	Biogas monitoring	RCM	7,989	9,400	9,729	3.5%
100-0230-440-7314	Special sampling	RCM	-	-	-	0.0%
100-0230-440-7320	UST monitoring	RCM	3,349	5,350	5,037	-5.9%
100-0230-440-7321	UST triennial monitoring	RCM	1,496	-	-	0.0%
Subtotal Permit Testi	ing & Monitoring		176,249	174,340	176,784	1.4%

GM General Manager

ASM Administrative Services Manager

TSM Technical Services Manager

RCM Regulatory Compliance Manager

AE Associate Engineer

FY23	FY23	% Change FY23	
Budget	Revised	Revised	
Revision	Budget	From FY23	Budget Account Description
- Revision	3,538		Administrative fees charged for EDIS dental, CalPERS medical, PEHP post employment health,
	5,555		and NAVIA Flex 125 plans.
	2,129	0.0%	Uniforms for five employees.
41,002	667,164	6.5%	
322,763	2,168,472	17.5%	
37,377	162,132	30.0%	Approximately one load per day of biosolids is hauled to one of the biosolids reuse sites.
		4= 00/	Recent 41.5% diesel fuel price increase impacts the transportation unit cost.
46,575	340,255	15.9%	Biosolids tipping fees for beneficial reuse at Redwood Landfill for alternative daily cover, land
			application sites in Solano county for soil augmentation, and at the Lystek facility for
			processing into a fertilizer. Increased 15.9% for land application tipping fee due to new
92.052	F02 207	20.1%	regulatory requirement for PH adjustment chemical addition.
83,952	502,387	20.1%	
19,890	101,419	24.4%	Laboratory and source control program supplies including all chemicals, glassware, reagents,
			consumables, disposable containers, filters, bioassay, and other supplies. Additional lab
			supplies in FY23 to support the Ion Chromatography method and increased volume of JPA
			Agency SSO sample analyses.
3,586	17,582	25.6%	Expenses for service contracts to maintain laboratory equipment including the deionized
			water system and certification of analytical balance and pipette/titrator equipment. UV
			Spectrometer bi-annual maintenance was not completed in FY22 and moved to FY23.
313	11,077	2.9%	Laboratory analysis cost associated with biosolids monthly and semiannual regulatory
			monitoring requirements. AB 901 requires increased biosolids sampling for regulatory
			reporting, however, new laboratory contractor provides tests at significantly lower rates.
6,934	42,011	19.8%	Contract laboratory analysis cost associated with NPDES permit compliance. Includes
			monthly, quarterly, semiannual, annual, and permit period monitoring requirements,
			including new nutrient watershed permit monitoring requirements. Significant inflation in
			laboratory subcontracting costs since two-year budget was developed - 6% Alpha and 43%
(-2-)			Pacific Ecorisk.
(431)	20,221	-2.1%	Cost of contract laboratory analysis for source control samples and monitoring industrial
			waste. Increased sample analysis for regulated dischargers and three new permit
0.533	40.254	07.00/	applications. These funds are reimbursed through user monitoring fees.
9,522	19,251	97.9%	Monitoring cost for the organic waste receiving facility and new BAAQMD permit filter and
			cogeneration ammonia monitoring requirements. Increased monitoring frequency, from 4 to
			12 times per year for siloxanes and from 0 to 6 times per year for BTU content, to ensure gas
10,000	10,000	n n%	quality requirements are met for the Jenbacher cogeneration engine. New contingency account added for unexpected sampling requirements, such as air quality
10,000	10,000	0.0%	compliance documentation.
1,949	6,986	38.7%	Annual testing and monitoring of underground gasoline and diesel tank over-fill and
_,,,,,	2,220	23 70	secondary containment. A vendor bankruptcy resulted in increased annual and monthly costs
			charged by the new vendor.
		0.0%	Testing of underground tank secondary containment every three years as required by state
		2.270	regulation. Next UST Triannual Test to be conducted in FY24.
51,763	228,547	29.3%	
- 7	-,,		

Line Item Accounts

TECHNICAL SERVICES

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
			Actual	Duuget	Duuget	1101111122
GENERAL & ADMINIS		RCM	022	3,000	3,000	0.0%
100-0230-440-7601	Meetings/Training	KCIVI	823	3,000	3,000	0.0%
100-0230-440-7602	Conferences	RCM	3,760	20,850	25,027	20.0%
100-0230-440-7610	Memberships	RCM	2,817	4,782	4,949	3.5%
100-0230-440-7631	NPDES permit fees	RCM	62,521	66,898	71,581	7.0%
100-0230-440-7632	ELAP certification fees	RCM	13,188	16,650	9,915	-40.5%
100-0230-440-7633	Regional monitoring program	RCM	47,104	47,905	49,581	3.5%
100-0230-440-7634	BACWA Fees	RCM	43,654	44,690	45,937	2.8%
100-0230-440-7635	CUPA permit	RCM	5,154	5,399	5,588	3.5%
100-0230-440-7636	Stormwater permit	RCM	1,474	1,552	1,606	3.5%
100-0230-440-7650	Office & printer expenses	RCM	1,627	5,250	5,473	4.2%
100-0230-440-7670	Printing & publications	RCM	140	600	600	0.0%
100-0230-440-7706	Special studies & support services	TSM	-	40,000	40,000	0.0%
100-0230-440-7708	Cathodic protection surveys	AE	4,723	5,594	5,761	3.0%
100-0230-440-7737	Public Ed Program	GM	20,407	29,435	25,895	-12.0%
Subtotal General & A		207,652	292,605	294,913	0.8%	
Subtotal (excluding	Salary and Benefits)		764,960	871,230	890,132	2.2%
Total Technical Service	ces		2,309,517	2,638,143	2,735,841	3.7%

GM General Manager

ASM Administrative Services Manager

TSM Technical Services Manager

RCM Regulatory Compliance Manager

AE Associate Engineer

FY23 Budget	FY23 Revised	% Change FY23 Revised	
Revision	Budget	From FY23	Budget Account Description
	2.000	0.00/	
	3,000	0.0%	Expenses associated with single-day professional meetings and training seminars. Includes allowed expenses pursuant to the Agency's expense reimbursement policy.
15,474	40,501	61.8%	Expenses associated with multi-day professional conferences, seminars, and training events
			per the Agency's expense reimbursement policy. Regulatory Compliance Manager
			attendance at a two-week Wastewater Leadership Center professional development program
	4,949	0.0%	at UNC. Professional memberships and registration fees for the Water Environment Association and
	4,545	0.070	California Water Environment Association, CalPELRA, TNI and Standard Methods.
2,216	73,797	3.1%	Annual NPDES permit and pre-treatment program fees. Increase based upon information
11,228	21,143	113 2%	provided by the SWRCB. Fees for annual renewal of the laboratory certification, inspections, required testing,
	,	1101170	certificates, and ELAP certification fees. The formal ELAP third party assessment was moved
			to early FY23, the vendor's assessment costs have significantly increased in price, and ELAP
			has implemented a new application fee.
1	49,582	0.0%	NPDES permit requires participation in the Regional Monitoring Program for the San
			Francisco Bay, which is administered by the San Francisco Estuary Institute. Cost based upon
13	45,950	0.0%	Cu, Ni, Cr, and Se facility loading to SF bay. FY23 based on 3.5% CPI. SF Bay NPDES dischargers are required to perform regional monitoring tests and perform
15	43,330	0.0%	studies to determine impacts to the bay. Organization participants conduct studies and tests
			related to TMDL development, nutrients, mercury, and PCB permit work that focus on Bay
			Area Clean Water Agencies (BACWA) priorities to protect the SF Bay. The increased BACWA
			nutrient permit is included in FY23.
	5,588	0.0%	Certified Unified Program Agency fees are paid to the County of Marin for the Agency's
			underground storage tanks and hazardous materials storage permits.
229	1,835		SWRCB permit for the Agency's industrial site stormwater permit.
	5,473	0.0%	Office supplies: sample labels, ink cartridges, paper for large-format printer/plotter, new lab
	600	0.00/	copier rental fee, and other miscellaneous office expenses. Allowance for printing/shipping/advertising expenses for documents not assigned to specific
	000	0.0%	CIP project contracts and for mailing expenses related to maintaining CMSA's list of
			prequalified contractors.
	40,000	0.0%	Allowance for special studies and engineering consultant services as needed.
	5,761		Periodic cathodic protection monitoring of the land portion of the marine outfall, sections of
			the Ross Valley interceptor, the San Rafael interceptor, various buried pipelines on Agency
			property, San Rafael Sanitation District Simms Force Main, and the South Francisco casing.
5,099	30,994	19.7%	CMSA's 40.6% share of the Countywide Public Education Program expenses associated with
			participating in public outreach events, hosting school programs, a Comcast video
34,260	329,173	11.6%	presentation, and educational materials for the program.
34,200	323,173	11.0%	
169,975	1,060,107	19.1%	
492,738	3,228,579	18.0%	

FY23 Operating Budget

Operations Department (0340)

Line Item Accounts

OPERATIONS

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
SALARIES & WAGES						
100-0340-440-7001	Salaries wages - regular	ASM	1,706,793	1,779,905	1,842,202	3.5%
	Transfer to CIP	ASM	-	(20,910)	(21,620)	3.4%
100-0340-440-7005	Salaries wages - overtime	OS	77,304	93,559	96,834	3.5%
100-0340-440-7009	Salaries wages - standby	TPM	-	5,032	5,208	3.5%
Subtotal Salaries & W	/ages		1,784,097	1,857,586	1,922,624	3.5%
100-0340-440-7021	Er ret - CalPERS classic	ASM	141,526	144,720	149,572	3.4%
100-0340-440-7022	Er ret - CalPERS PEPRA	ASM	41,619	48,006	49,752	3.6%
100-0340-440-7023	Er ret - CalPERS survivors	ASM	850	813	866	6.5%
100-0340-440-7024	Er ret - CalPERS Classic UAL	ASM	280,604	289,605	320,956	10.8%
100-0340-440-7025	Er ret - CalPERS PEPRA UAL	ASM	1,248	1,866	1,936	3.8%
100-0340-440-7028	Er ret - medicare	ASM	22,527	27,238	28,192	3.5%
100-0340-440-7041	Benefits - medical active	ASM	182,308	235,453	250,757	6.5%
100-0340-440-7042	Benefits - flex\$	ASM	8,442	36,582	36,582	0.0%
100-0340-440-7043	Benefits - dental	ASM	16,085	13,541	14,219	5.0%
100-0340-440-7044	Benefits - life-AD&D-LTD Ins	ASM	7,643	9,217	9,540	3.5%
100-0340-440-7045	Benefits - vision	ASM	2,650	3,342	3,408	2.0%
100-0340-440-7046	Benefits - Er paid MARA: PEPH/Z	ASM	12,151	16,874	17,465	3.5%
100-0340-440-7047	Benefits - retiree medical prem	ASM	26,710	27,181	28,812	6.0%
100-0340-440-7048	Benefits - retiree medical reimb	ASM	23,236	36,512	38,702	6.0%
100-0340-440-7049	Benefits - retiree medical prefund	ASM	11,894	11,646	11,646	0.0%
100-0340-440-7051	Benefits - EAP	ASM	1,169	1,276	1,308	2.5%
100 00-0 7-0 7001	Denemo Lin	77,5141	1,100	1,210	1,500	2.5/0

ASM Administrative Services Manager

AOS Assistant Operations Supervisor

OS Operations Supervisor

TPM Treatment Plant Manager

FY23	FY23	% Change FY23	
Budget	Revised	Revised	Budget Assesset Description
Revision	Budget	From FY23	Budget Account Description
56,146	1,898,348	3.0%	Salaries for 13.5 full-time employees (Treatment Plant Manager 50% Operations & 50%
			Maintenance). Includes a FY23 COLA increase of 5%, three step adjustments, awards, and
			leave balance cash-outs.
21,620	-		FY23 eliminated transfer of salary expenses for staff assigned to CIP funded projects.
3,663	100,497	3.8%	Authorized overtime to ensure facilities are properly staffed 24 hours/day and to complete specified activities or assignments.
197	5,405	3.8%	24/7 stand-by duty provided by qualified operations staff during the wet weather season
			(November-April). Employees are paid to remain fit for duty and must respond within one
			hour after being called in for emergency situations.
81,626	2,004,250	4.2%	
(12,187)	137,385	-8.1%	Employer contributions for CalPERS 2.7% @ 55 for Classic employee retirement program. The
			FY23 employer contribution rate is 14.03%.
9,920	59,672	19.9%	Employer contributions for CalPERS 2% @ 62 retirement program for PEPRA employees hired
			after January 1, 2013. The FY23 employer PEPRA contribution rate is 7.47%.
	866		Annual Survivors Benefit premium.
10,557	331,513	3.3%	The Classic unfunded accrued liability is the total minimum required employer contribution
			established in the CalPERS Actuarial Valuation Report dated June 30, 2019. The Agency selects
			the annual lump sum prepayment option.
	1,936	0.0%	The PEPRA unfunded accrued liability is the total minimum required employer contribution.
			The Agency selects the annual lump sum prepayment option.
870	29,062		Employer's 1.45% share of Medicare for all employees.
22,527	273,284	9.0%	Medical coverage up to the Kaiser family rate. FY23 increase due to new hires electing family
			coverage, not single coverage as budgeted.
(23,694)	12,888	-64.8%	Medical benefit differential paid for family coverage to one eligible employee (down from two in FY22).
7,448	21,667	52.4%	Dental is self-insured. Increase based upon projected FY22 actual expenses for dental
			services.
	9,540		Employer paid life, accidental death & dismemberment, and long-term disability insurances.
1,756	5,164	51.5%	Employer paid vision benefits. Board approved enhanced vision benefits.
486	17,951	2.8%	PEHP: Post Employment Health Plan (also known as MARA: medical after retirement
			account). Employer contribution of 1.5% of base salary.
1,323	30,135	4.6%	Medical benefits for eleven retired employees at the SF-Bay Area PERS Kaiser single rate.
			Increase due to FY23 revision allocated actual premiums by department, not headcount as a
			percentage of total monthly premium. Premiums are higher for three retirees who receive full
(0.000)	20.704	25.00/	medical coverage.
(9,998)	28,704	-25.8%	Medical benefits in excess of the CalPERS PEMCHA miniumum reimbursed directly to retirees
			is charged to departments. Decrease due to FY23 revised allocated actual premiums by
	44.040	0.001	department, not headcount as a percentage of total monthly premium.
	11,646	0.0%	Prefunding of the Agency's post-employment health benefit obligations for current retirees
			and employees. The prefunding amount is in accordance with the Agency's OPEB Funding
	4 200	0.001	Plan updated annually.
	1,308	0.0%	Confidential professional counseling provided to employees.

Line Item Accounts

OPERATIONS

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
100-0340-440-7061	Unemployment benefits	ASM	-	2,815	2,815	0.0%
100-0340-440-7062	Benefit adminstration fees	ASM	721	5,010	5,111	2.0%
100-0340-440-7063	Uniforms	ASM	8,285	6,686	6,920	3.5%
Subtotal Benefits			980,712	918,383	978,559	6.6%
Total Salaries & Bene	fits		2,764,810	2,775,969	2,901,183	4.5%
CHEMICALS & FUEL						
100-0340-440-7120	Gasoline, diesel, oil	OS	7,239	18,000	18,630	3.5%
100-0340-440-7130	Chemicals - ferric chloride	OS	95,399	131,000	116,955	-10.7%
100-0340-440-7131	Chemicals - polymer cationic	OS	111,273	165,000	110,000	-33.3%
100-0340-440-7132	Chemicals - odor control	OS	11,188	15,600	15,600	0.0%
100-0340-440-7133	Chemicals - calcium nitrate	OS	272,583	254,594	263,505	3.5%
100-0340-440-7134	Chemicals - hydrogen peroxide	OS	216,306	227,000	234,945	3.5%
100-0340-440-7135	Chemicals - sodium hypochlorite	OS	154,124	225,792	233,695	3.5%
100-0340-440-7136	Chemicals - sodium bisulfite	OS	115,372	276,156	285,821	3.5%
Subtotal Chemicals &	Fuel		983,485	1,313,142	1,279,151	-2.6%
UTILITIES						
100-0340-440-7502	Utilities - natural gas	OS	62,896	65,508	50,880	-22.3%
100-0340-440-7503	Utilities - electricity	OS	80,249	167,000	114,400	-31.5%
100-0340-440-7504	Utilities - water	AOS	17,438	17,700	18,408	4.0%
100-0340-440-7505	Utilities - garbage	AOS	61,331	70,000	73,500	5.0%
Subtotal Utilities			221,914	320,208	257,188	-19.7%

ASM Administrative Services Manager

AOS Assistant Operations Supervisor

OS Operations Supervisor

TPM Treatment Plant Manager

		% Change	
FY23	FY23	FY23	
Budget	Revised	Revised	
Revision	Budget	From FY23	Budget Account Description
REVISION	2,815		An allowance for unemployment benefits paid to State Employment Development
	2,813	0.0%	Department (EDD) for claims filed by separated employees.
	5,111	0.0%	Administrative fees charged for EDIS dental, CalPERS medical, PEHP post employment health,
	3,111		and NAVIA Flex 125 plans.
	6,920		Uniforms for thirteen employees.
9,008	987,568	0.9%	
90,634	2,991,818	3.1%	
20,00	_,,,,,,,,	0.2,0	
1,370	20,000	7.4%	Fuel for vehicles and landscaping equipment, and diesel for emergency generators and the
			effluent pump station's pumps.
38,796	155,751	33.2%	Ferric chloride is used to improve settling in the primary clarifiers during storm related flow
			events, inhibits hydrogen sulfide production in the digesters, reduces struvite formations in
			pipelines, and is used as a coagulant in the biosolids dewatering process. A 33.2%-unit cost
			increase is due to supply chain issues.
109,123	219,123	99.2%	Polymer is added to centrifuge feed sludge to enhance the efficiency of solids removal and is
			also injected into the flow stream for sludge thickening units to increase solids capture which
			reduces hydraulic loading in the digesters.
	15,600	0.0%	A chemical agent used to mask odorous compounds produced by some wastewater
			processes.
62,917	326,422	23.9%	Calcium nitrate solution is the first of a two-phase odor control system used in the collection
			system upstream of the wastewater treatment plant to inhibit hydrogen sulfide formation.
			Unit cost increases 24%.
11,689	246,634	5.0%	Hydrogen peroxide is the second phase of the odor control system. It is injected into the Ross
			Valley and San Rafael interceptors upstream of the headworks. Unit cost increases 5%.
140,305	374,000	60.0%	Sodium hypochlorite is used for effluent and recycled water disinfection, and in facility odor
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			control scrubbers. A 60%-unit cost increase caused by demand and supply chain issues.
(100,621)	185,200	-35.2%	Sodium bisulfite is used to neutralize the chlorine residual in the effluent prior to its discharge
			into the San Francisco Bay. Usage reduction resulting from NPDES permit disinfection
			monitoring changes that offset a 15%-unit cost increase.
263,579	1,542,730	20.6%	
48,000	98,880	94.3%	Supplemental fuel for the cogeneration systems. A 94.3%-unit cost increase projected by the
,	-,	/-	supplier SPURR, due to increases in natural gas exports, inflation, and reduced hydroelectric
			power generation due to drought conditions.
27,522	141,922	24.1%	Electricity to supplement the cogeneration system output and to supply power when the
	, 5	2/0	cogenerator is offline for maintenance. A 24%-unit cost increase includes an adjustment for
			the new PG&E standby tariff and includes transferring a monthly non-energy interconnection
			fee from the capital budget. This fee is now a permanent monthly expenditure.
	18,408	0.0%	Potable and fire protection water for supply. The FY23 budget is based on actual usage plus a
	10,400	3.070	4% rate increase.
	73,500	0.0%	Solid waste disposal for garbage, green waste, recycling, and debris box disposal of
	-,	2.270	headworks screenings, grit, and non-recyclable wastes. Dry weather conditions has resulted in
			reduced volume of waste generated. Anticipate a 5% rate increase for FY23.
75,522	332,710	29.4%	- caused 10.ac of tracec periorated / minorpate a 3/0 rate moreage for 1 123.
, 5,522	332,710	£3.7/0	

Line Item Accounts

OPERATIONS

Account #	Account Name	*Ву	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
GENERAL & ADMINIS	TRATIVE					
100-0340-440-7110	Operations - general	TPM	4,423	9,000	9,315	3.5%
100-0340-440-7111	Process control consumable supplies	AOS	5,306	8,900	9,212	3.5%
100-0340-440-7601	Meetings/Training	TPM	1,208	2,500	4,500	80.0%
100-0340-440-7602	Conferences	TPM	-	3,000	5,000	66.7%
100-0340-440-7610	Prof affiliation memberships	TPM	1,772	4,800	3,800	-20.8%
100-0340-440-7638	Permits & lic - BAAQMD	TPM	27,583	30,000	33,000	10.0%
100-0340-440-7650	Office expense	TPM	41	_	_	0.0%
100-0340-440-7709	Process support	TPM	2,376	21,000	21,420	2.0%
100-0340-440-7731	Employee health maintenance	ASM	24	-	- 06 247	0.0%
Subtotal General & A	aministrative		42,732	79,200	86,247	8.9%
Subtotal (excluding S	Salary and Benefits)		1,248,130	1,712,550	1,622,586	-5.3%
Total Operations			4,012,940	4,488,519	4,523,769	0.8%

ASM Administrative Services Manager

AOS Assistant Operations Supervisor

OS Operations Supervisor

TPM Treatment Plant Manager

		% Change	
FY23	FY23	FY23	
Budget	Revised	Revised	
Revision	Budget	From FY23	Budget Account Description
	9,315	0.0%	Small tools, equipment, parts, and other miscellaneous supplies.
	9,212	0.0%	Chemical reagents to verify and/or determine the concentration of chlorine in treated
			wastewater, assist in field instrument calibration, determine peroxide concentrations in
			wastewater, measure pH, and measure sulfide levels in biogas.
	4,500	0.0%	Expenses associated with attendance at single-day professional meetings, seminars, and
			certification trainings.
	5,000		Expenses associated with multi-day professional conferences, seminars, and training events.
	3,800	0.0%	Professional memberships and certification renewal requirements for licensed operators. The
			budget includes 13 annual CWEA membership renewals, 9 operator certification renewals,
			and 3 operators that eligible for higher levels of training and testing certification.
	33,000	0.0%	The FY23 budget anticipates a 10% increase over FY22 for annual fees and a fee for the
			Jenbacher cogeneration engine .
	-	0.0%	
3,580	25,000	16.7%	Professional wastewater consulting services for evaluation of process control options, advice
			on process control issues, training staff on process analysis, and conducting special studies.
			Support service increase due to adding the organic waste receiving facility to the BAAQMD
			permit as a new source.
	-	0.0%	
3,580	89,827	4.2%	
342,681	1,965,267	21.1%	
433,315	4,957,085	9.6%	

FY23 Operating Budget

Maintenance Department (0350)

Line Item Accounts

MAINTENANCE

0 #	Assessed Norma	*D	FY21	FY22 Adopted	FY23 Adopted	% Change FY23 Adopted
Account #	Account Name	*By	Actual	Budget	Budget	From FY22
SALARIES & WAGES						
100-0350-440-7001	Salaries wages - regular	ASM	1,602,973	1,724,470	1,784,826	3.5%
100-0350-440-7281	Transfer to CIP	ASM		(37,638)	(38,916)	3.4%
100-0350-440-7002	Salaries wages - part-time	TSM	12,608	67,430	67,430	0.0%
100-0350-440-7005	Salaries wages - overtime	TPM	42,915	41,561	43,016	3.5%
100-0350-440-7009	Salaries wages - standby	TPM	56,255	59,027	61,093	3.5%
Subtotal Salaries & \	Nages Nages		1,728,061	1,854,850	1,917,449	3.4%
100-0350-440-7021	Er ret - CalPERS classic	ASM	117,190	110,761	114,474	3.4%
100-0350-440-7022	Er ret - CalPERS PEPRA	ASM	47,413	68,982	71,490	3.6%
100-0350-440-7023	Er ret - CalPERS survivors	ASM	897	938	1,000	6.6%
100-0350-440-7024	Er ret - CalPERS Classic UAL	ASM	214,580	334,159	370,333	10.8%
100-0350-440-7025	Er ret - CalPERS PEPRA UAL	ASM	2,246	2,153	2,233	3.7%
100-0350-440-7027	Er ret - PARS benefit	ASM	972	2,529	2,617	3.5%
100-0350-440-7028	Er ret - medicare	ASM	21,096	27,441	28,402	3.5%
100-0350-440-7041	Benefits - medical active	ASM	246,638	259,261	276,113	6.5%
100-0350-440-7042	Benefits - flex\$	ASM	3,259	13,587	13,587	0.0%
100-0350-440-7043	Benefits - dental	ASM	33,937	15,625	16,406	5.0%
100-0350-440-7044	Benefits - life-AD&D-LTD Ins	ASM	8,796	10,635	11,007	3.5%
100-0350-440-7045	Benefits - vision	ASM	3,408	3,856	3,933	2.0%
100-0350-440-7046	Benefits - Er paid MARA: PEPH/Z	ASM	12,274	21,562	22,317	3.5%
100-0350-440-7047	Benefits - retiree medical prem	ASM	6,913	29,653	31,432	6.0%

ASM Administrative Services Manager

TPM Treatment Plant Manager MS Maintenance Supervisor

EIT Electrical Instrumentation Technician

FY23 Budget	FY23 Revised	% Change FY23 Revised	
Revision	Budget	From FY23	Budget Account Description
(62,004)	1,722,822	-3.5%	Salaries for 14.5 full-time employees (Treatment Plant Manager 50% Maintenance & 50% Operations). Includes a 5% COLA salary increase, ten step adjustments, awards, and leave
			balance cash-outs.
38,916	-	-100.0%	FY23 eliminated transfer of salary expenses for staff assigned to CIP funded projects.
,	67,430		Part-time annuitant hired for special projects.
1,059	44,075		Authorized overtime to complete unexpected maintenance activities or assignments that
			require work after an employee's regularly scheduled shift.
1,505	62,598	2.5%	24/7 Stand-by duty for qualified maintenance staff to respond to emergency repair work and
			equipment failures. Employees are paid to remain fit for duty and to respond within one
			hour. Sanitary District #2 funds one half of this expense.
(20,524)	1,896,925	-1.1%	
(20,925)	93,549	-18.3%	Employer contributions for CalPERS 2.7% @ 55 for Classic employee retirement program.
			The FY23 employer contribution rate is 14.03%. Decrease due to retirement and terminated
			employees.
5,389	76,879	7.5%	Employer contributions for CalPERS 2% @ 62 retirement program for PEPRA employees
			hired after January 1, 2013. The FY23 employer PEPRA contribution rate is 7.47%. Increase
			due to one additional PEPRA employee.
	1,000	0.0%	Annual Survivors Benefit premium.
12,182	382,515	3.3%	The Classic unfunded accrued liability is the total minimum required employer contribution
			established in the CalPERS Actuarial Valuation Report dated June 30, 2019. The Agency
			selects the annual lump sum prepayment option. decrease due to correct UAL allocation per
			number Classic employees in department.
	2,233	0.0%	The PEPRA unfunded accrued liability is the total minimum required employer contribution.
			The Agency selects the annual lump sum prepayment option. Decrease due to correct UAL
			allocation per number PEPRA employees in department.
(88)	2,529		PARS is retirement account for part-time and temporary employees. The employer rate is
			3.75%.
(897)	27,505		Employer's 1.45% share of Medicare for all employees.
27,944	304,057	10.1%	Medical coverage up to the Kaiser family rate. FY23 increase due to new hires electing family
(7.507)	6.000	55.00/	coverage, not single coverage as budgeted.
(7,587)	6,000		FY23 decreased due to retirement of one eligible employee.
8,594	25,000		Dental is self-insured. Employer paid life, accidental death & dismemberment, and long-term disability insurances.
2,025	11,007 5,958		Employer paid vision benefits. Board approved enhanced vision benefits.
(776)	21,541		PEHP: Post Employment Health Plan (also known as MARA: medical after retirement
(770)	21,371	-3.3/0	account). Employer contribution of 1.5% of base salary.
(7,549)	23,883	-24 0%	Medical benefits for thirteen retired employees at the SF-Bay Area PERS Kaiser single rate.
(7,545)	23,003	2-1.070	Decrease due to FY23 revision allocated actual premiums by department, not headcount as a
			percentage of total monthly premium.
			percentage of total monthly premium.

Line Item Accounts

MAINTENANCE

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
100-0350-440-7048	Benefits - retiree medical reimb	ASM	36,001	39,831	42,220	6.0%
100-0350-440-7049	Benefits - retiree medical prefund	ASM	15,552	13,438	13,438	0.0%
100-0350-440-7051	Benefits - EAP	ASM	1,334	1,669	1,710	2.5%
100-0350-440-7061	Unemployment benefits	ASM	8,207	3,230	3,230	0.0%
100-0350-440-7062	Benefit adminstration fees	ASM	1,429	5,781	5,897	2.0%
100-0350-440-7063	Uniforms	ASM	6,328	7,714	7,984	3.5%
Subtotal Benefits			1,038,296	972,805	1,039,823	6.9%
Total Salaries & Bene	efits		2,766,357	2,827,655	2,957,272	4.6%
MAINTENANCE & RE	PAIRS (M&R)					
100-0350-440-7201	Outside services & parts	TPM	31,085	30,000	30,600	2.0%
100-0350-440-7202	Facilities maintenance	MS	29,639	30,000	30,600	2.0%
100-0350-440-7203	Fleet maintenance	MS	14,133	12,000	12,240	2.0%
100-0350-440-7210	Hazardous waste disposal	MS	23,851	53,000	75,000	41.5%
100-0350-440-7211	Groundskeeping	MS	31,683	32,000	32,640	2.0%
100-0350-440-7212	Utility supplies	MS	8,024	8,000	8,200	2.5%
100-0350-440-7213	Electrical equipment	EIT	25,931	29,000	29,580	2.0%
100-0350-440-7214	Small tools & equipment	MS	13,707	15,000	15,300	2.0%
100-0350-440-7215	Lubricants-propane-other	MS	5,680	6,500	7,000	7.7%
100-0350-440-7230	Plant pumps	MS	23,205	26,000	26,520	2.0%
100-0350-440-7231	Process tank maintenance	MS	21,997	20,000	20,400	2.0%

ASM Administrative Services Manager

TPM Treatment Plant Manager MS Maintenance Supervisor

EIT Electrical Instrumentation Technician

FY23	FY23	% Change FY23	
Budget	Revised	Revised	
Revision	Budget	From FY23	Budget Account Description
2,804	45,024		Medical benefits in excess of the CalPERS PEMCHA miniumum reimbursed directly to retirees
2,004	45,024	0.070	is charged to departments. Increase due to FY23 revised allocated actual premiums by
			department, not headcount as a percentage of total annual premium, plus one additional
			retiree and two not eligible for medicare.
	13,438	0.0%	Prefunding of the Agency's post-employment health benefit obligations for current retirees
	20, .00	0.070	and employees. The prefunding amount is in accordance with the Agency's OPEB Funding
			Plan updated annually.
	1,710	0.0%	Confidential professional counseling provided to employees.
	3,230		An allowance for unemployment benefits paid to State Employment Development
	•		Department (EDD) for claims filed by separated employees.
	5,897	0.0%	Administrative fees charged for EDIS dental, CalPERS medical, PEHP post employment
			health, and NAVIA Flex 125 plans.
	7,984	0.0%	Uniform costs for fourteen employees.
21,116	1,060,939	2.0%	
592	2,957,864	0.0%	
2,400	33,000	7.8%	Service repair costs performed by outside providers for machining, fabrication, vacuum
2,400	33,000	7.070	services, specialty repair work, and related parts, equipment, and supplies.
	30,600	0.0%	Preventative and corrective repairs to maintain non-process specific facility structures such
	30,000	0.070	as roof and gutter systems, doors and door hardware, flooring, and painted surfaces. This
			account also includes funds for facility pest control services.
760	13,000	6.2%	This account is for preventative, predictive, and corrective maintenance on the Agency's
	,		fleet vehicles, and includes purchases of batteries, oil, tires, and other consummables. The
			Agency's fleet consists of 11 vehicles, two forklifts, a skid steer loader, 15 electric carts, and 7
			bicycles.
(15,000)	60,000	-20.0%	Safe disposal of wastes such as oils, greases, oil and air filters, coolants, paints, solvents, light
			bulbs, batteries, air purification medias (siloxane, hydrogen sulfide, and activated carbon).
			The adjusted decrease reflects projected labor and disposal costs.
2,360	35,000	7.2%	Facility landscaping services and supplies to maintain the Agency grounds and property.
			Services include fire-defensible space maintenance onsite and on Andersen Hill, weed
			abatement, and landscape improvement projects.
	8,200	0.0%	Custodial and general facility maintenance cleaning supplies.
	29,580	0.0%	Allowance for procurement of routine electrical equipment such as conduit, wiring, electrical
			connectors, fittings, consumable electrical supplies, and facility lighting (light bulbs, tubes,
			LED lights).
700	16,000	4.6%	Purchase and repair of hand, power, and pneumatic tools utilized in the day-to-day
			maintenance of assets and equipment.
	7,000	0.0%	Lubricants used for facility assets and equipment (cogeneration and stand-by power systems
			excluded), propane for the forklift, welding and calibration gases, and lab bioassay oxygen.
	26,520	0.0%	Allowance for routine consumable parts and equipment such as impellers, volutes, packing
			material, and gasket material.
	20,400	0.0%	Allowance for routine consumable parts and equipment for facility process tanks and the
			primary heat exchanger (excludes heat exchangers utilized by cogeneration systems).

Line Item Accounts

MAINTENANCE

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
100-0350-440-7232	Centrifuge maintenance	MS	8,939	10,000	10,200	2.0%
100-0350-440-7233	Process media replacement	MS	34,092	43,000	70,000	62.8%
100-0350-440-7234	Organic waste receiving facility	MS	37,488	43,000	44,000	2.3%
100-0350-440-7235	Boilers hot water systems	MS	8,126	7,500	7,650	2.0%
100-0350-440-7236	Effluent pump station & diesel tank	MS	6,652	3,500	3,570	2.0%
100-0350-440-7237	Cogen system maintenance	MS	40,916	55,000	55,000	0.0%
Subtotal Maintenand	e & Repairs		365,146	423,500	478,500	13.0%
GENERAL & ADMINIS	TRATIVE					
100-0350-440-7601	Meetings/Training	TPM	3,052	5,500	6,000	9.1%
100-0350-440-7602	Conferences	TPM	3,170	13,000	13,000	0.0%
100-0350-440-7610	Prof affiliation memberships	TPM	4,437	5,500	5,500	0.0%
100-0350-440-7650	Office expense		1,325	480	480	0.0%
100-0350-440-7670	Printing & publications		1,323	500	520	4.0%
100-0350-440-7710	Prof svcs - Underground srvc alert	MS	116	200	204	2.0%
100-0350-440-7731	Employee health maintenance	ASM	18	-	-	0.0%
Subtotal General & A	dministrative		12,118	25,180	25,704	2.1%
Subtotal (excluding	Salary and Benefits)		377,264	448,680	504,204	12.4%
Total Maintenance			3,143,621	3,276,335	3,461,476	5.7%

ASM Administrative Services Manager

TPM Treatment Plant Manager MS Maintenance Supervisor

EIT Electrical Instrumentation Technician

FY23	FY23	% Change FY23	
Budget	Revised	Revised	
Revision	Budget	From FY23	Budget Account Description
ICVISION	10,200		Consumable parts and equipment for annual preventative and corrective maintenance for
	10,200	0.070	three centrifuges and their system components.
39,500	109,500	56.4%	Biogas and air purification media for facility equipment. Budget includes purchase of media
33,300	103,300	33.170	for sulfatreat vessels, siloxane filters, and activated carbon odor scrubbers. New air permit
			limits will require three additional media replacements to remove hydrogen sulfide and
			siloxane from biogas equipment.
	44,000	0.0%	Allowance for consumable items required for maintaining the OWRF. This budget assumes
	,		performing four cleanings, eight hose and glycerin changeouts, paddle finisher screens and
			shaft, as well as rock trap replacement parts and other critical spare inventory items.
	7,650	0.0%	Consumable items required for maintaining two dual fueled hot water boilers and hot water
	,,,,,		recirculation systems. Budget includes annual specialized boiler system inspection work to
			examine the brick and burner assemblies, the fuel regulating systems, and associated pumps
			and piping. The FY23 increase in maintenance costs is for expected increased boiler run
			times for two congeneration systems.
	3,570	0.0%	Allowance for parts and consumable items within the effluent pump station and its above
	3,373	0.0,0	ground diesel tank. Includes pump and engine parts, driveshafts, fuel conveyance, diesel
			storage tanks, motor controls, and the fire protection system.
7,000	62,000	12 7%	Routine parts and equipment for scheduled systems maintenance. The budget assumes four
7,000	02,000	12.770	2,000 hour maintenance procedures on the Waukesha cogeneration system and one annual
			maintenance procedure on the Cummins emergency standby diesel generator. FY23
			adjustment is for additional engine-generator maintenance supplies.
37,720	516,220	7.9%	
Í	•		
	6,000	0.0%	Expenses associated with attendance at single-day meetings, seminars, technical
			certification courses, and professional development. Includes allowed expenses pursuant to
			the Agency's expense reimbursement policy.
	13,000	0.0%	Expenses associated with multi-day professional conferences, seminars, and training events
	F 500	0.000	outlined in the Agency's travel and expense reimbursement policy.
	5,500	0.0%	Professional memberships and annual certification renewal fees for 15 department
	400	0.007	employees. Budget assumes four technicians will attempt tech exams and earn certifications.
	480		Office supplies, copier lease, office furniture, equipment and repairs.
	520		Subscriptions, publication of notices, printing services Annual Underground Service Alert fee to identify utility locations prior to any type of digging
	204	0.0%	
		0.00/	or excavation work. Expense for workplace safety related physicals, pre-employment exams, and urgent care at
	-	0.0%	Kaiser Hospital and Medical Center of Marin.
_	25,704	0.0%	raiser muspital and iviedical center of ivialin.
	_5,754	3.070	
37,720	541,924	7.5%	
38,312	3,499,788	1.1%	

FY23 Operating Budget

Non-Agency Health & Safety (0121)

Non-Agency Technical Services – Countywide Education (0231)

Non-Agency Maintenance (0351)

Line Item Accounts

Non-Agency Health & Safety

CMSA Services Provided Under Contract to Other Local Agencies

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
SALARIES & BENEFIT	S					
100-0121-440-7001	Salaries wages - regular	ASM	55,627	54,707	56,622	3.5%
100-0121-440-7015	Salaries wages - car allow	ASM	440	1,908	1,908	0.0%
Subtotal Salaries Wa			56,068	56,615	58,530	3.4%
100-0121-440-7022	Er ret - CalPERS PEPRA	ASM	4,109	4,090	4,239	3.6%
100-0121-440-7023	Er ret - CalPERS survivors	ASM	23	25	27	8.0%
100-0121-440-7025	Er ret - CalPERS PEPRA UAL	ASM	99	-	-	0.0%
100-0121-440-7028	Er ret - medicare	ASM	774	821	850	3.5%
100-0121-440-7041	Benefits - medical active	ASM	3,773	4,114	4,381	6.5%
100-0121-440-7043	Benefits - dental	ASM	176	414	435	5.1%
100-0121-440-7044	Benefits - life-AD&D-LTD Ins	ASM	272	282	292	3.5%
100-0121-440-7045	Benefits - vision	ASM	121	102	104	2.0%
100-0121-440-7046	Benefits - Er paid MARA: PEPH/Z	ASM	995	808	837	3.6%
100-0121-440-7047	Benefits - retiree medical prem	ASM	978	982	1,041	6.0%
100-0121-440-7048	Benefits - retiree medical reimb	ASM	-	1,319	1,399	6.1%
100-0121-440-7049	Benefits - retiree medical prefund	ASM	366	356	356	0.0%
100-0121-440-7051	Benefits - EAP	SSS	34			0.0%
100-0121-440-7061	Unemployment benefits	ASM	-	85	85	0.0%
100-0121-440-7062	Benefit adminstration fees	ASM	21	153	156	2.0%
Subtotal Benefits			11,742	13,551	14,202	4.8%
Total Salaries & Ben	efits		67,810	70,166	72,732	3.7%

ASM Administrative Services Manager

GM General Manager SSS Senior Safetly Specialist

FY23 Budget Revision	FY23 Revised Budget	% Change FY23 Revised From FY23	Budget Account Description
Kevisioii	buuget	FIUIII F123	Buuget Account Description
819	57,441	1.4%	Novato Sanitary Distict's (NSD) share of the Senior Safetly Specialist position salary is 39.75%
			and includes car allowance and leave cash-outs. The Agency's share is 60.25% and is
			allocated to the Health & Safety Budget.
	1,908	0.0%	
819	59,349	1.4%	
(13)	4,226	-0.3%	Employer contributions for CalPERS 2% @ 62 retirement program for PEPRA employees
			hired after January 1, 2013. The FY23 employer PEPRA contribution rate is 7.47%.
	27		Annual Survivors Benefit premium.
	-	0.0%	The PEPRA unfunded accrued liability is the total minimum required employer contribution.
			The Agency selects the annual lump sum prepayment option.
11	861		Employer's 1.45% share of Medicare for all employees.
2,041	6,422	46.6%	Medical coverage up to the Kaiser family rate. FY23 increase due to more expensive plan
			elected during open enrollment.
228	663	52.4%	Dental is self-insured. Increase based upon projected FY22 actual expenses for dental
			services.
	292		Employer paid life, accidental death & dismemberment, and long-term disability insurances.
54	158		Employer paid vision benefits. Board approved enhanced vision benefits.
12	849	1.4%	PEHP: Post Employment Health Plan (also known as MARA: medical after retirement
(5)			account). Employer contribution of 1.5% of base salary.
(311)	730	-29.9%	Medical benefits for a 39.75% share of one retired employee at the SF-Bay Area PERS Kaiser
			single rate.
	1,399	0.0%	Medical benefits in excess of the CalPERS PEMCHA miniumum reimbursed directly to retirees
			is charged to departments. Increase due to FY23 revision allocated actual premiums by
	356	0.0%	Prefunding of the Agency's post-employment health benefit obligations for current retirees
			and employees. The prefunding amount is in accordance with the Agency's OPEB Funding
			Plan updated annually.
	-		Confidential professional counseling provided to employees.
	85	0.0%	An allowance for unemployment benefits paid to State Employment Development
			Department (EDD) for claims filed by separated employees.
	156	0.0%	Administrative fees charged for EDIS dental, CalPERS medical, PEHP post employment
			health, and NAVIA Flex 125 plans.
2,022	16,224	14.2%	
2,841	75,573	3.9%	

Line Item Accounts

Non-Agency Health & Safety

CMSA Services Provided Under Contract to Other Local Agencies

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
GENERAL ADMINISTE	RATIVE					
100-0121-440-7601	Meetings/Training	SSS	7	795	795	0.0%
100-0121-440-7602	Conferences	SSS	543	1,590	1,590	0.0%
100-0121-440-7610	Prof affiliation memberships	SSS	339	405	405	0.0%
100-0121-440-7650	Office expense	SSS	252	199	199	0.0%
100-0121-440-7651	Safety supplies	SSS	-	80	80	0.0%
100-0121-440-7652	Information technology software	SSS	396	1,828	1,870	2.3%
100-0121-440-7670	Printing & publications	SSS	289	676	676	0.0%
100-0121-440-7701	Prof svcs - general	SSS	-	1,988	1,988	0.0%
100-0121-440-7731	Employee health maintenance	SSS	-	-	-	0.0%
100-0121-440-7738	H&S Program Admin NSD Share	SSS	400	27,415	28,375	3.5%
100-0121-440-7739	Outside safety training	SSS	-	5,932	3,857	-35.0%
Subtotal Administrat	ive		2,225	40,908	39,835	-2.6%
Total Non-Agency He	alth & Safety		70,035	111,074	112,567	1.3%

ASM Administrative Services Manager

GM General Manager SSS Senior Safetly Specialist

		% Change	
FY23	FY23	FY23	
Budget	Revised	Revised	
Revision	Budget	From FY23	Budget Account Description
	795	0.0%	Visual aids, tools, IT equipment, training materials, and refreshments.
	1,590	0.0%	Safety related conferences, professional development, webinars, industry conferences and
			meetings.
	405	0.0%	Institute of Hazardous Materials (CHMM), Board of Certified Safety Professionals, National
			Safety Council, and American Society of Safety Professionals.
	199	0.0%	
	80	0.0%	
	1,870	0.0%	MSDS Online, Keller Online
	676	0.0%	Mancomm Regulations, CalOSHA Reporter, Safety Alert for Supervisors, NFPA/ANSI
			Standards
	1,988	0.0%	Contracted services to assist in completion/developing of programs.
	-	0.0%	Expense for workplace safety related physicals, pre-employment exams, and urgent care at
			Kaiser Hospital and Medical Center of Marin.
	28,375	0.0%	The budget is for costs shared equally between CMSA and NSD for NSD's Administrative/Risk
			Services & Safety Officer (25% of total salary and benefits, split 50/50).
	3,857	0.0%	Training expenses for required safety programs that include hearing tests, CPR/first aid, fire
			extinguisher, incident command, traffic control, defensive driving, and many other Cal/OSHA
			programs that facilitate a safe work environment.
-	39,835	0.0%	
2,841	115,408	2.5%	

Line Item Accounts

Non-Agency Technical Services - Public Education Program

CMSA Services Provided Under Contract to Other Local Agencies

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
100-0231-440-7737	Public Ed Program	SS/M	29,857	43,065	38,123	0.0%
Subtotal Administrat	ive		29,857	43,065	38,123	0.0%
Total Non-Agency Te	chnical Services		29,857	43,065	38,123	0.0%

ASM Administrative Services Manager

GM General Manager

SS/M Safety Specialist/Manager MS Maintenance Supervisor TPM Treatment Plant Manager

FY23 Budget	FY23 Revised	% Change FY23 Revised	
Revision	Budget	From FY23	Budget Account Description
7,223	45,346	18.9%	Participating agency's share of the Public Education Program expenses associated with
			participating in public outreach events, hosting school programs, a Comcast video
			presentation, and educational materials for the program.
7,223	45,346	0.0%	
7,223	45,346	0.0%	

Line Item Accounts

Non-Agency Maintenance

CMSA Services Provided Under Contract to Other Local Agencies

Account #	Account Name	*By	FY21 Actual	FY22 Adopted Budget	FY23 Adopted Budget	% Change FY23 Adopted From FY22
SALARIES & BENEFITS	6					
100-0351-440-7001	Salaries wages - regular	ASM	136,019	178,644	184,897	3.50%
100-0351-440-7005	Salaries wages - overtime	ASM	9,013	-	-	0.00%
Subtotal Salaries Wa	ges		145,032	178,644	184,897	3.50%
100-0351-440-7022	Er ret - CalPERS PEPRA	ASM	10,480	13,559	14,052	3.6%
100-0351-440-7023	Er ret - CalPERS survivors	ASM	172	188	200	6.4%
100-0351-440-7025	Er ret - CalPERS PEPRA UAL	ASM	749	-	-	0.0%
100-0351-440-7028	Er ret - medicare	ASM	2,105	2,590	2,681	3.5%
100-0351-440-7041	Benefits - medical active	ASM	, -	57,957	61,724	6.5%
100-0351-440-7043	Benefits - dental	ASM	720	3,125	3,281	5.0%
100-0351-440-7044	Benefits - life-AD&D-LTD Ins	ASM	-	2,127	2,201	3.5%
100-0351-440-7045	Benefits - vision	ASM	-	771	787	2.1%
100-0351-440-7046	Benefits - Er paid MARA: PEPH/Z	ASM	1,686	2,680	2,773	3.5%
100-0351-440-7049	Benefits - retiree medical prefund	ASM	-	2,688	2,688	0.0%
100-0351-440-7051	Benefits - EAP	MS	236			0.00%
100-0351-440-7061	Unemployment benefits	ASM	-	625	625	0.0%
100-0351-440-7062	Benefit adminstration fees	ASM	(471)	1,156	1,179	2.0%
100-0351-440-7063	Uniforms	AE	-	1,543	1,597	3.5%
Subtotal Benefits			15,676	89,009	93,788	5.37%
Total Salaries & Bene	fits		160,708	267,653	278,685	4.12%
MAINTENANCE & REI		NAC	122 214	10.003	11 272	2.400/
100-0351-440-7290	SD#2 pump stations - Repair services	MS	133,214	10,892	11,272	3.49%
100-0351-440-7201	SD#2 General parts, supplies, equipment	MS	-	22,928	23,730	3.50%

ASM Administrative Services Manager

GM General Manager

MS Maintenance Supervisor TPM Treatment Plant Manager

EV22	5,422	% Change	
FY23	FY23	FY23	
Budget	Revised	Revised	Dudant Assessed Description
Revision	Budget	From FY23	Budget Account Description
(10,088)	174,809	-5.5%	Salaries for 3 full-time maintenance positions are allocated to the Non-Agency Maintenance
			budget. Includes 5% COLA salary increase, two step increases, awards, and leave balance
			cash-outs. Decrease due to new hires paid step 1.
	-	0.0%	
(10,088)	174,809	0.00%	
(994)	13,058	-7.1%	Employer contributions for CalPERS 2% @ 62 retirement program for PEPRA employees
			hired after January 1, 2013. The FY23 employer PEPRA contribution rate is 7.47%.
	200		Annual Survivors Benefit premium.
	-	0.0%	The PEPRA unfunded accrued liability is the total minimum required employer contribution.
			The Agency selects the annual lump sum prepayment option. Increase due to correct UAL
			allocation per number PEPRA employees in department.
(146)	2,535		Employer's 1.45% share of Medicare for all employees.
(7,339)	54,385	-11.9%	Medical coverage up to the Kaiser family rate. FY23 decrease due to new hire elected single
			coverage previously budgeted for employee plus spouse.
1,719	5,000	52.4%	Dental is self-insured. Increase based upon projected FY22 actual expenses for dental
			services.
	2,201		Employer paid life, accidental death & dismemberment, and long-term disability insurances.
405	1,192		Employer paid vision benefits. Board approved enhanced vision benefits.
(151)	2,622	-5.4%	PEHP: Post Employment Health Plan (also known as MARA: medical after retirement
	2.522	2.22/	account). Employer contribution of 1.5% of base salary.
	2,688	0.0%	Prefunding of the Agency's post-employment health benefit obligations for current retirees
			and employees. The prefunding amount is in accordance with the Agency's OPEB Funding
			Plan updated annually.
	-		Confidential professional counseling provided to employees.
	625	0.0%	An allowance for unemployment benefits paid to State Employment Development
	4.470	0.007	Department (EDD) for claims filed by separated employees.
	1,179	0.0%	Administrative fees charged for EDIS dental, CalPERS medical, PEHP post employment
	4.507	0.007	health, and NAVIA Flex 125 plans.
(C FOC)	1,597		Uniforms for three employees.
(6,506) (16,594)	87,282 262,091	-6.94% -5.95%	
(10,334)	202,031	-3.33%	
	11,272	0.0%	Allowance for specialty repairs, contractor services, metal fabrication work, and vacuum
			trucks for annual pump station cleaning and debris removal.
	23,730		Allowance for consumable material purchases such as pump parts, lubricants, and electrical
			supplies. Includes general utility tools, painting supplies, hoses and hose bibs, and ladders.

Line Item Accounts

Non-Agency Maintenance

CMSA Services Provided Under Contract to Other Local Agencies

				FY22	FY23	% Change FY23
			FY21	Adopted	Adopted	Adopted
Account #	Account Name	*By	Actual	Budget	Budget	From FY22
100-0351-440-7297	SD#2 Recommended asset mgmt projects	MS	-	132,230	136,858	3.50%
100-0351-440-7291	SQSP pump station maintenance	TPM	303,706	167,583	178,089	6.27%
100-0351-440-7208	SQSP General supplies, parts, equipment	TPM	-	5,000	5,175	3.50%
100-0351-440-7209	SQSP Repair services	TPM	-	1,300	1,346	3.54%
100-0351-440-7292	SQ Village WW system maint	TPM	17,087	11,081	-	-100.00%
Subtotal Maintenanc	e & Repairs		454,008	351,014	356,470	1.6%
GENERAL ADMINISTE	ATIVE					
100-0351-440-7609	SQSP Gate & PS access training	TPM	-	2,400	2,484	3.50%
100-0351-440-7710	SD#2 USA North 811 services	MS	-	1,488	1,540	3.49%
100-0351-440-7711	SQSP USA, documents & reports	TPM	-	231	239	3.46%
100-0351-440-7769	SD#2 Contingency	GM	-	14,328	14,831	3.51%
Subtotal Administrat	ive		-	18,447	19,094	3.51%
Total Non-Agency Ma	aintenance		614,716	637,114	654,249	2.69%

ASM Administrative Services Manager

GM General Manager

MS Maintenance Supervisor TPM Treatment Plant Manager

		% Change	
FY23	FY23	FY23	
Budget	Revised	Revised	
Revision	Budget	From FY23	Budget Account Description
	136,858	0.0%	Staff performed AM improvements work which includes procuring and replacing pumps,
			impellers, and small VFD's. There are however the three large 300hp pumps at Paradise that
			CMSA recommends replacing.
	178,089		Additional maintenance services and projects outside the scope of the annual contract.
	5,175	0.0%	Material purchases such as pumps and pump parts, electrical equipment and components,
			and general supplies to maintain station and collection system equipment.
	1,346	0.0%	Specialty contractors, metel fabrication work, rental equipment.
9,863	9,863	0.0%	SQV wastewater maintenance costs include labor, mileage, repair services, parts, supplies,
			equipment, and recommended maintenance and capital expenditures. Budget increased
			because original FY23 Adopted Budget was zero.
9,863	366,333	2.8%	
	2,484	0.0%	Mandatory prison access training and card renewal process. Budget for nine MT's, three E/I,
			three UW, three IUL, two admininstration staff.
	1,540	0.0%	Annual subscription fee based on 1,100 avg/tickets/annual x \$0.575 per/ticket.
	239	0.0%	Underground Service Alerts (USA) marking sewer lines (SQ 16" FM) when requested, and
			researching and updating as-built drawings. Maintain and provide access or copies, upon
			request, to all regulatory documents, annual operations and capital budgets concerning the
			O&M services provided under this agreement.
	14,831	0.0%	
-	19,094	0.00%	
(6,731)	647,518	-1.03%	

FY23 Capital Improvement Program Revised

Central Marin Sanitation Agency Capital Improvement Program Revised FY23 Budget and 10-Year Forecast

									10-year CIP						
GL Account					1	2	3	4	5	6	7	8	9	10	Total
Number			Delivery	Adopted	Revised										
	PM*		Method	FY23	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY23 - FY32
Facility Improveme	nts		-												
0230-550-8201	TSM	Effluent Storage Pond Rehabilitation	FB	-	-	- 13,200		32,000	1,443,900	-	-				1,489,100
0230-550-8202	TSM	Agency Facilities Master Plan	PSA	-	-	-	-	-	500,000		-	-	-		500,000
0230-550-8203	TSM	Industrial Coatings & Concrete Rehabilitation	IB/MC/FB	150,500	197,000	428,900	23,800	24,800	25,800	26,900	28,000	29,200	30,400	31,700	846,500
0230-550-8204	TSM	Outfall Inspection & Repairs	IB/MC/FB	66,400	80,000	478,600	40,100	41,800	43,500	45,300	47,200	49,200	51,300	53,400	930,400
0230-550-8205	TSM	Facility Improvements	IB	40,000	145,000	136,500	20,000	35,000	25,000	43,800	40,000	50,000	50,000	50,000	595,300
0230-550-8206	TSM	Facility Paving/Site Work	IB/MC	31,000	200,000	30,000	162,500	178,300	14,400	15,000	15,600	16,200	16,900	17,600	666,500
0230-550-8208	TSM	Facility Roofs Rehabilitation	MC/IB/FB	25,000	50,000	26,100	27,200	-	50,000	986,200	32,000	33,300	34,700	36,200	1,275,700
0230-550-8209	TSM	SHB Elevator Control Replacement	IB/FB	50,000	50,000	364,700	-	-	-	-	-	-	-		414,700
0230-550-8210	TSM	Facility Structures Seismic Study	PSA	-	-	1	243,900	-	-	-	-	-	-		243,900
			Subtotal - Facility Improvements	362,900	722,000	1,464,800	530,700	311,900	2,102,600	1,117,200	162,800	177,900	183,300	188,900	6,962,100
General Equipment	1														
0110-550-8301	ISA	Process Control	M/MC	35,200	74,300	37,000	53,700	40,100	41,800	43,500	45,300	47,200	49,200	51,300	483,400
0110-550-8302	MS	Security / Fire Systems	MC	11,700	23,700	12,400	18,000	13,500	19,500	14,600	21,200	16,500	23,900	17,900	181,200
0350-550-8303	MS/TSM	Fuel Storage Tanks	IB/MC	124,400	-	129,600	-	140,700	-	-	-	-	-	-	270,300
0110-550-8304	ISA	IT Hardware and Communication Equip	M	73,000	78,000	49,000	68,100	38,000	29,200	95,800	60,200	83,600	46,700	35,900	584,500
0350-550-8305	MS	Agency Vehicle Replacement	IB/PO	42,400	42,400	76,100	57,200	192,800	88,100	91,800	95,700	103,900	80,000	45,200	873,200
0230-550-8306	RCM	Laboratory Equipment	PO	205,200	114,000	61,500	182,400	10,200	66,400	41,700	55,300	35,000	90,000	21,700	678,200
0350-550-8307	MS	Electrical Equipment	M/IB	100,300	142,300	97,800	89,400	93,200	97,100	101,100	105,400	109,800	114,300	119,100	1,069,500
0350-550-8308	MS	Plant Lighting	IB	10,000	10,000	-	-	-	-	-	-	-	-	-	10,000
0350-550-8309	MS	Process Instrumentation	M	25,900	28,000	37,200	28,300	29,500	55,700	32,000	33,300	34,700	36,200	37,700	
0350-550-8310	TSM	Electrical Distribution System Rehabilitation	PSA/FB	592,148	340,000	75,000	521,200	2,684,900	175,000	-	-	259,100	-	-	4,055,200
			Subtotal - General Equipment	1,220,248	852,700	575,600	1,018,300	3,242,900	572,800	420,500	416,400	689,800	440,300	328,800	8,558,100
Liquids Treatment	Equipment	and Systems													
0230-550-8401	TSM	Biotower Rotary Distributor Replacement	FB	-	-	-	50,000	1,072,400	-	-	-	-	-	-	1,122,400
0350-550-8402	MS	Plant Pumps	MC/M	70,700	70,700	74,800	77,900	81,200	84,600	88,100	91,800	95,600	99,600	103,800	
0350-550-8403	MS	Chemical Pumps	M	68,700	123,700	58,700	68,200	63,800	66,400	69,200	72,100	75,100	78,200	81,500	
0350-550-8404	MS	Gates Rehabilitation	M/IB/FB	84,900	70,000	495,200	93,600	422,500	101,600	105,800	110,200	114,800	119,600	124,600	1,757,900
0350-550-8405	MS	Headworks Equipment	M/FB	30,000	53,000	34,100	268,700	1,713,800	38,500	40,200	41,800	43,600	45,400	47,300	2,326,400
0230-550-8406	TSM	Odor Control System Improvements	PSA/FB	-	-	-	-	-	2,337,000	-	2,739,400	1,880,500	-	-	6,956,900
0350-550-8407	MS	Process Tank Maintenance	M/IB	87,000	-	90,700	94,500	98,400	102,500	106,800	111,300	115,900	98,100	102,200	920,400
0350-550-8408	TSM/MS	Primary Clarifiers Rehabilitation	M/FB	-	20,000	401,400	418,200	871,300	453,900	178,800	184,600	-	-	-	2,528,200
0350-550-8409	TSM	Secondary Clarifiers Rehabilitation	PSA/FB	597,100	1,508,900	600,700	-	-	-	-	-	-	-	-	2,109,600
0350-550-8411	TPM	Aeration System Rehabilitation	M/IB	-	5,000	62,100	-	5,000	-	73,200	-	39,100	-	86,300	
0230-550-8412	TSM	Process Piping Inspection/Repairs/Replacement	PSA/IB	-	75,230	100,000	-	120,900	175,300	-	-	-	125,100	-	596,530
0350-550-8413	MS	Chemical Tanks	M/IB	38,100	38,100	46,300	45,700	50,000	60,900	63,500	66,100	68,900	71,800	74,800	
0350-550-8414	MS	Piping, Valves & Operators	M	64,500	64,500	68,700	30,000	30,000	77,700	80,900	84,300	87,900	91,500	95,300	
0230-550-8415	TSM	CCT Valve Rehabiliation	FB	-	-	-	-	-	367,200	-	-	-	-	-	367,200
0230-550-8416	TSM	Influent Flow Meter Improvement	PSA/IB	150,000	150,000	75,000	-	-	-	-	-	-	-	-	225,000
0230-550-8417	TSM	Nutrient Removal	TBD	-	-	-	-	-	-	-	-	-	-	-	-
		Subtotal - Liquids Tro	eatment Equipment and Systems	1,191,000	2,179,130	2,107,700	1,146,800	4,529,300	3,865,600	806,500	3,501,600	2,521,400	729,300	715,800	22,103,130

Central Marin Sanitation Agency Capital Improvement Program Revised FY23 Budget and 10-Year Forecast

									10-year CIP						
GL Account					1	2	3	4	5	6	7	8	9	10	Total
Number			Delivery	Adopted	Revised										
	PM*		Method	FY23	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY23 - FY32
Solids Treatment and Energy Generation Equipment and Systems															
0230-550-8501	TSM	Emergency Generator Assessment & Improvement	PSA/FB	100,000	125,000	-	-	530,500	1,608,000	-	-	-	-	-	2,263,500
0230-550-8502	TSM	Digester Inspection, Cleaning & Cover Replacement	FB	-	812,000	-	-	1	-	73,700	-	-	1,468,600	-	2,354,300
0350-550-8503	TSM/MS	Centrifuge Maintenance	PSA/FB	534,500	584,500	2,933,700	-	ı	-	-	-	-	-	-	3,518,200
0350-550-8504	MS	Waukesha Cogeneration Maintenance	M/IB/FB	10,000	10,000	10,500	11,000	11,500	12,000	12,600	13,200	13,800	14,400	15,100	124,100
0350-550-8513	MS	Jenbacher Cogeneration Maintenance	M/IB/FB	87,100	56,600	59,000	61,500	120,600	270,300	69,500	72,400	139,400	78,600	505,700	1,433,600
0230-550-8505	TSM	New Cogeneration System	FB	-	350,000	-	-	ı	-	-	-	-	-	-	350,000
0350-550-8506	MS	Hot Water Systems	M/PSA	32,100	32,100	34,200	35,600	42,200	6,700	7,000	7,300	7,600	7,900	8,200	188,800
0350-550-8508	MS	Boilers	IB/FB	-	-	-	-	100,000	639,300	-	-	-	-	-	739,300
0350-550-8510	MS	Biosolids Hoppers Maintenance	M	-	-	11,000	-	11,900	-	13,000	-	14,100		15,300	65,300
0350-550-8511	MS	Organic Waste Receiving Facility	PO	60,300	60,300	64,200	66,900	69,700	72,600	115,700	78,800	82,100	85,600	89,100	785,000
0230-550-8514	TSM	Liquid Organic Waste Storage and Biogas Treatment Upgrades	FB	573,800	1,623,076	597,300	-	-	-	-	-	-	-	-	2,220,376
0230-550-8512	TSM	PG&E Interconnection Agreement Modification	PSA	-	40,000	-	-	-	-	-	-	-	-	-	40,000
		Subtotal - Solids Treatment and Energy Generation Equipment and Systems		1,397,800	3,693,576	3,709,900	175,000	886,400	2,608,900	291,500	171,700	257,000	1,655,100	633,400	14,082,476
			Annual CIP Totals	4,171,948	7,447,406	7,858,000	2,870,800	8,970,500	9,149,900	2,635,700	4,252,500	3,646,100	3,008,000	1,866,900	51,705,806

^{*} PM indicates the project manager for the account.

(1) BOLD items are individual Capital Improvement Projects, or larger, nonrecurring maintenance projects.

		Projected Annual Escalation Rate:	4.18% (rolling 5-year a	verage of ENR	San Francisco C	Construction Co	ost Index (CCI)	annual change	es)			
		Escalation Factors:	1.0418	1.0853	1.1307	1.1780	1.2272	1.2785	1.3319	1.3876	1.4456	1.5060	1.5690
	Delivery Methods												
М	Maintenance project, self performed												
MC	Maintenance Contract	FY22 to FY23 Escalation Change:	0.79%										
PO	Purchase Order, equipment only	Escalation Change Factors:	1.0079	1.0160	1.0240	1.0322	1.0404	1.0486	1.0570	1.0654	1.0738	1.0823	1.0909
PSA	Professional Services Agreement												
IB	Informally Bid												
FB	Formally Bid												

Facility Improvements		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
0230-550- 8201	Effluent Storage Pond Rehabilitation	See Full Page Description.
0230-550- 8202	Agency Facilities Master Plan	Scheduled Master Plan to guide the Agency in planning future projects. FY27 – Allowance to retain a consultant to develop Master Plan.
0230-550- 8203	Industrial Coatings & Concrete Rehabilitation	Scheduled industrial coating rehabilitation program for process structures, metal equipment, and treatment plant deck traffic coatings. Coating rehabilitation will be included as part of a larger project when appropriate. The condition of concrete structures will be periodically assessed, and projects will be added as needed. FY23 – Epoxy injections in Gallery E to seal the ceiling leak. Coat the ferric chloride containment area. Repair the saw cut floor area in the digester basement (Master Plan Project 13-2). FY24 – Replace headworks structural metal (skylights, pipe supports, etc.) and apply new epoxy coating on the new metal and the grit tank handrails. Inspect spalled concrete below the water line in CCTs 1-4. Repair wear coating on the headworks deck and install wear coating on CCTs 1-4 deck. Apply coating above water lines in CCTs 1-4, including repair of exposed rebar below the water lines. FY25-32 – Allowance for industrial coating as needed, including deck coatings for
0230-550- 8204	Outfall Inspection & Repairs	On-going underwater inspection and maintenance of the marine outfall diffuser section. Activities include diver inspections of diffusers and risers, survey of diffuser check valve levels above shifting bay floor sediments, extending or replacing risers and diffuser check valves as needed, and periodic monitoring and removal of solids deposition inside outfall pipe. FY23 – Complete interior solids monitoring. Routine inspection and extend 10 buried risers and purchase 10 diffusers to replenish stock. FY24 – Allowance for outfall diffuser section interior cleaning. If the previous year's interior solids monitoring indicates the solids accumulation is minor, it will be deferred until a future year based on the solids accumulation rate from FY14 to FY23. FY25-32 – Routine inspection and riser extension or replacement (assumed 5 per year), as needed.

Facility Improvements		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
0230-550- 8205	Facility Improvements	Various building improvements that are not incorporated into other capital projects.
		FY23 – Replace 10 corroded steel doors facility wide. Replace carpet in Administration Building/Board Room.
		FY24 – Replace 10 corroded steel doors facility wide. Replace polymer rollup door in Solids Handling Building. Allowance for building improvements. Shop Floor Coating.
		FY25 – Rehabilitate Chemical Storage Building Control Room/Ops. Shop Floor Coating.
		FY26 – Replace Air Handling System in Chemical Storage Building Control Room.
		FY27 – Coating work Digester Mix Pump and MCC13 rooms.
		FY28 – Allowance for building improvements.
		FY29 – Replace Gallery A Air Handling unit.
		FY30 – Replace Control Room Air Handling unit in Biotower.
		FY31 – Admin. Building HVAC System Rehabilitation/Replacement.
		FY32 – Allowance for building improvements.
0230-550- 8206	Facility Paving/ Site Work	Minor paving repairs and associated site work on facility roads, walkways, parking lots, and other pavement, and for re-grading, cleaning, and replacing gravel in drainage ditches.
		FY23 – Slurry seal and re-stripe plant road from plant gate to OWRF. Allowance to rehabilitate Biotower "U" road, RAS Pump room access road, and Aeration basin road.
		FY24 – Regrade plant side v-ditches and gravel.
		FY25 – Complete major plant paving project for employee parking area.
		FY26 – Complete a major plant paving project for plant road from primary clarifiers to SHB.
		FY27-32 – Allowance for miscellaneous paving improvements.
0230-550- 8208	Facility Roofs Rehabilitation	See Full Page Description.
0230-550- 8209	SHB Elevator Control Replacement	See Full Page Description.
0230-550- 8210	Facility Structures Seismic Study	See Full Page Description.

	General Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
0110-550- 8301	Process Control	Allowances for on-going replacement, upgrades, and improvements to the Agency's process control system including new instruments, servers, and computers; and Programmable Logic Controllers (PLCs) and Human Machine Interface (HMI) hardware and software. Annual allowance is based on escalated costs from previous years. Actual cost estimates are used for specifically identified equipment. FY23 – Allowance for retired annuitant labor on as needed basis. FY23 – Replace polishing vault and final vault PLCs. FY23-24 – Routine PLC and HMI hardware replacement. Identify and purchase critical spares. FY25 – SCADA system software review and potential upgrades. FY26-32 – Routine PLC and HMI hardware replacement.	
0110-550- 8302	Security/ Fire Systems	Allowance for projects related to the Agency's physical security and fire protection systems, including a biannual allowance to purchase replacement equipment as needed. FY23-32 — Allowance for annual and quarterly inspections of alarms and sprinklers and fire line repair at Maintenance Annex. FY23 — Repair fire protection water service line to Maintenance Annex. FY23 — Complete 5-year inspection for sprinkler system. The annual sprinkler inspection would not be required during this Fiscal Year. Note: allowance for alarm and sprinkler related spare parts is included every other year.	
0350-550- 8303	Fuel Storage Tanks	Allowance in FY24 and FY26 to replace the existing underground fuel storage tanks with above ground storage tanks. This replacement would be triggered by one of the underground tanks failing or by a change in regulatory requirements. It is expected that any regulatory change would provide sufficient time for the replacement to occur in the fiscal year following the change.	

	General Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
0110-550- 8304	IT Hardware and Communication Equip	Routine repair and regular replacement of IT hardware and software, such as office computers, printers, scanners, digital telephone equipment and its supporting servers, and voice radio equipment.	
		FY23 – Allowance for equipment listed above and replacement of the data servers on which all Agency business and SCADA virtual servers run.	
		FY24 – Allowance for equipment listed above and replacement of backup repository.	
		FY25 – Allowance for equipment listed above and upgrade of 49 business computers and 4 laptops.	
		FY26 – Allowance for equipment listed above and replacement of 20 SCADA workstations.	
		FY27 – Allowance for equipment listed above.	
		FY28 – Allowance for equipment listed above and replacement of the data servers on which all Agency business and SCADA virtual servers run.	
		FY29 – Allowance for equipment listed above and replacement of backup repository.	
		FY30 – Allowance for equipment listed above and upgrade of 49 business computers and 4 laptops.	
		FY31 – Allowance for equipment listed above and replacement of 20 SCADA workstations.	
		FY32 – Allowance for equipment listed above.	
0350-550- 8305	Agency Vehicle Replacement	Purchase new vehicles or equipment for passenger vehicles, trucks, forklift, bicycles, and electric carts as they reach or exceed their expected useful lives.	
		FY23 – Replace F150 environmental services truck.	
		FY24 – Replace skid steer loader and replace batteries for Prius.	
		FY25 – Replace Ford E250 van and five bicycles.	
		FY26 – Replace F450 flatbed with a mechanic's truck, and one electric cart.	
		FY27 – Replace F150 Utility truck vehicle and one electric cart.	
		FY28 – Replace pump station rounds truck, GM vehicle, and two electric carts.	
		FY29 – Replace Technical Services Transit.	
		FY30 – Allowance for new vehicles or equipment.	
		FY31 – Allowance for new F150 SQPS Vehicle.	
		FY32 – Replace 3 electric carts.	

General Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
0230-550- 8306	Laboratory Equipment	Scheduled replacement of laboratory equipment such as autoclaves, spectrophotometers, collection/sampler systems, washers, incubators, etc. and purchasing new laboratory equipment.
		FY23 – Replace the BOD incubator, total suspended solids oven and laboratory dishwasher. Purchase and install an ammonia distillation and analyzer system.
		FY24 – Replace the Biotower sampler, microbiology microscope and the total solids oven.
		FY25 – Purchase and install an ICP-OES for metals analysis, replace the influent samplers.
		FY26 – Replace Primary Effluent Sampler.
		FY27 – Replace laboratory autoclave and dishwasher. Purchase and install a media prep system.
		FY28 – Replace Ovens and muffle furnace and influent and effluent samplers.
		FY29 – Replace the Corte Madera sampler, analytical balance, top loading balance and UV spectrophotometer.
		FY30 – Replace the San Quentin sampler and temperature monitoring system.
		FY31 – Replace the process control samplers, automated BOD system, sample refrigerator and centrifuge, temperature monitoring system.
		FY32 – Replace microbiological water bath and centrifuge.
0350-550- 8307	Electrical Equipment	Planned maintenance, upgrades, and replacement of Agency electrical components: individual motor controls and equipment panels, electric sluice gate operators, variable frequency drives, power monitoring equipment, and electrical equipment to support process equipment.
		FY23 – Purchase a spare actuator for the 84-inch gate. Automate biogas supply line valving in-house (6" gas transfer between digesters) which ties into level and flow instrumentation. Telemetry equipment for submarine outfall vault improvements.
		FY24 – Replace underground diesel storage tank annular space monitoring equipment. Replace Process Control System UPS, and SCADA Main.
		FY25 – Replace process waste sump controls, panel, and VFD.
		FY26 — Purchase replacement actuators for 4-inch to 8-inch valves. Replace primary tank drain pump controls.
		FY27-32 – Annual Allowance for replacement of equipment as determined by condition assessment as needed, including actuators, MCC buckets, conduit replacement, etc.

	General Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
0350-550- 8308	Plant Lighting	Replace low efficiency lights with LED lighting that consumes less power and reduces light pollution. Each project is grouped by lighting fixture type and will be completed by staff or an electrical contractor. FY23 – Allowance to replace any remaining HPS/Fluorescent lighting. FY24 – This account will be deleted, and minor lighting repairs and replacements will be transferred to operating budget.	
0350-550- 8309	Process Instrumentation	On-going repair, replacement, or upgrading of obsolete meters, sensors, and transmitters per year, and to provide local process status information and transmit it to the treatment plant's SCADA system. Annual allowance is based on equipment costs from previous years and has been escalated to current and future dollars. FY23 — Procure two analyzer controllers (CL2/SBS). Install sump level indicating equipment into submarine outfall vault. Install a TSS controller and two probes in Aeration Basins. FY24 — Primary sludge flow meters in solids handling area. Automate primary clarifier fill operation with in-tank level indicating equipment. Install inline Solids/Ammonia monitoring onto centrate line. FY25 — Differential PSI (biogas and digester membranes) transmitters, and two analyzer controllers. FY26 — Replace Rosemount digester PSI/liquid level transmitters if not completed with digester inspection, cleaning, and rehabilitation project work. FY27 — Replace RAS/WAS flow meters and two analyzer controllers. FY28 — Allowance for above equipment, plus replace the OWRF/Digester H2S atmospheric monitoring equipment. FY29-32 — Allowance for above equipment.	
0350-550- 8310	Electrical Distribution System Rehabilitation	See Full Page Description.	

	Liquid Treatment Processes and Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
0230-550- 8401	Biotower Rotary Distributor Replacement	See Full Page Description.	
0350-550- 8402	Plant Pumps	Scheduled replacement of centrifugal, positive displacement, chopper pumps, and in-line grinders. These pumps transport primary sludge, WAS, contact tank scum, and other liquids throughout the facility.	
		FY23 – Replace three recycled water pumps, two sump pumps and two secondary scum pumps. Allowance to replace additional pumps identified by condition assessments.	
		FY24 – Allowance to replace additional pumps identified by condition assessments. Replace secondary system tank drain pumps.	
		FY25 – Replace CCT scum pumps with centrifugal style pumps.	
		FY26 – Install new primary clarifier tank drain pumps. Replace centrifuge feed pumps, if not included in Centrifuge Replacement Project.	
		FY27 – Replace two TWAS pumps at RDTs.	
		FY28 – Upsize blend channel drain pump and piping. FY29-32 – Allowance to replace pumps identified by condition assessments.	
0350-550- 8403	Chemical Pumps	Regular refurbishment or replacement, based on a condition assessment, of pumps and related equipment for the delivery of specific chemicals at various treatment unit processes. Chemical pumps include those for ferric chloride, hydrogen peroxide, calcium nitrate, sodium hypochlorite, emulsion polymer, and sodium bisulfite. FY23 — Refurbish three polymer metering pumps and drives and purchase one chemical induction mixer. Replace two headworks ferric chloride metering pumps. Replace Sodium Bisulfite pump drives and motors. FY24 — Replace two polymer activation units in SHB. FY25 — Replace polymer blend unit (skid) at RDTs. FY26-32 — Above allowances to replace chemical pumps based on condition assessment.	
0350-550- 8404	Gates Rehabilitation	See Full Page Description.	
0350-550- 8405	Headworks Equipment	See Full Page Description.	
0230-550- 8406	Odor Control System Improvements	See Full Page Description.	

Liquid Treatment Processes and Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
0350-550- 8407	Process Tank Maintenance	Refurbishment and replacement of mechanical equipment such as drive mechanisms, media vessels, and blowers in all process tanks and systems throughout the treatment facility. FY24-30 – Allowance for flights/chain/sprockets/wear strips for one primary clarifier each year. FY31-32 – General tank related replacement of equipment as determined by condition assessment.
0350-550- 8408	Primary Clarifiers Rehabilitation	See Full Page Description.
0350-550- 8409	Secondary Clarifiers Rehabilitation	See Full Page Description.
0350-550- 8411	Aeration System Rehabilitation	Replacement and rehabilitation of aeration system equipment. FY23 – Increase inventory of diffuser membranes to have spares for the maintenance of one tank. FY24 – Replace aeration diffuser membranes in all four tanks. FY26 & 30 – Increase inventory of diffuser membranes as needed to replace damaged units during pressure washing. FY28 & 32 – Replace aeration diffuser membranes in all four tanks every 4 years. FY30 – Blower core refurbishment every 10 years.
0230-550- 8412	Process Piping Inspection/Repairs/ Replacement	See Full Page Description.

		Liquid Treatment Processes and Equipment
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
0350-550- 8413	Chemical Tanks	Replacement of chemical storage tanks used throughout the treatment plant and in the collection system as they approach the end of their service lives. There are five sodium hypochlorite, two sodium bisulfite, two hydrogen peroxide, two polymer, four calcium nitrate, and three ferric chloride tanks. The replacement schedule is subject to change based on annual condition assessment inspection results. FY23 — Replace the Greenbrae tank and perform roofing retrofit evaluation for Greenbrae and North Francisco stations. FY24 — Replace SBS Storage Tank No. 2. Perform a condition assessment on the FRP lining inside the bulk polymer storage tank at the Solids Handling Building. FY25 — Replace SBS Storage Tank No. 1. Perform an assessment on the effluent pump station's Convault diesel storage tank. FY26 — Replace on-site Peroxide Tank and replace the North Francisco nitrate solution tank and roof. Perform a condition assessment on the Headworks ferric chloride tank interiors (5-year cycle). FY27 — Replace the SQ Gun Range Peroxide Tank. FY28 — Assess cost to run dual wall containment piping for ferric chloride and pump ferric chloride from Headworks to the Solids Handling Building versus replacing the SHB Ferric Chloride storage tank. FY29 — Replace the West R/R Nitrate Solution storage tank. FY30 — Replace the Paradise pump station Nitrate Solution storage tank. FY31 — Replace Hypochlorite Storage Tank No. 5. FY32 — Replace Hypochlorite Storage Tank No. 3.
0350-550- 8414	Piping, Valves & Operators	There are over 750 plug valves in the treatment plant's process systems, ranging in size up to 12" in diameter. This account includes annual allowances for routine maintenance and periodic replacement of these valves, their operators, and associated piping. This allowance may change as on-going condition assessments are completed. FY23 – In-house assessment of hot water system piping inside galleries. Replace ten isolation valves at Galleries A/B intersection and clean-up piping. FY24 – Replace the hot water pipe system into the Administration Building. FY25-26 – Annual allowance for repairs as needed of above noted equipment. FY27 – Install MOV's on centrifuge sludge feed lines to automate switching of feed between digesters. FY28 – Replace biogas piping, valves, and operators in the boiler room. FY29-32 – Allowance for repairs as determined by future condition assessments.
0230-550- 8415	CCT Valve Rehabilitation	The telescoping valves in the CCTs 1 through 4 are used to remove debris floating on the water surface. FY27 — Replace the telescoping valves in CCTs 1 through 4. An option that will be explored is to replace the telescoping valves with rotating pipe skimmers and motorized actuators. This project also includes replacing the recycled water screen.

	Liquid Treatment Processes and Equipment		
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION	
0230-550- 8416	Influent Flow Meter Improvement	Both the 45" San Rafael Interceptor and the 54" Ross Valley Interceptor are fitted with ultrasonic meters manufactured by Manning. These flow meters are near the end of their useful life and the original manufacturer no longer makes these units. A study was performed in FY21 that identified multi-path ultrasonic transit time meter technology as a suitable flow meter for replacement within the existing infrastructure to improve the accuracy in measuring large flow variations. FY23 — Install new flow meter technology on San Rafael Interceptor and prepurchase new flow meter technology to prepare for installation on Ross Valley Interceptor in dry season of 2023 (if deemed successful on San Rafael Interceptor).	
		FY24 – Install new flow meter technology on Ross Valley Interceptor.	
0230-550- 8417	Nutrient Removal	See Full Page Description.	

CENTRAL MARIN SANITATION AGENCY CAPITAL IMPROVEMENT PROGRAM - ACCOUNT / PROJECT DESCRIPTIONS REVISED FY23 BUDGET AND 10-YEAR PROJECTION

	Solids Tr	reatment and Energy Generation Equipment and Systems
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
0230-550- 8501	Emergency Generator Assessment & Improvement	The emergency generator provides power to Agency facilities when utility power is not available, and the cogeneration systems are offline. The emergency generator system was installed in 1985 and consists of an electrical generator connected to a diesel-fueled reciprocating engine. While the equipment is relatively old, it has had minimal usage and is maintained per manufacturer's recommendations. FY23 — Complete an inspection of the Cummins engine and major preventive maintenance of the emergency generator system and replace the generator and heat exchanger in kind. FY26-27 — Allowance to fund design and installation of a replacement emergency
0230-550- 8502	Digester Inspection, Cleaning and Cover Replacement	Periodic cleaning and inspection of each anaerobic digester about every 10 years based on CMSA's membrane covers' service lives. Agency staff will drain the tanks to allow a contractor to remove material that has accumulated inside the tanks. A specialty contractor will replace the membrane covers after the cleaning is complete and then staff will return each digester to service. Project timing may also be adjusted based on actual digester process and membrane cover performance. FY23 – Clean and inspect the interior of Digester No. 2 and replace its dual membrane cover and replace pre-purchased mixing pump and valves. Purchase spare digester mixing pump rebuild kit to replenish inventory. Budget includes power, natural gas and polymer related to project. FY28 – Replace 1 digester mix pump based on expected service life. FY31 – Allowance to clean and inspect the interior of Digester No.1 and replace its dual membrane cover and replace pre-purchased valves.
0350-550- 8503	Centrifuge Maintenance	See Full Page Description.
0350-550- 8504	Waukesha Cogeneration Maintenance	See Full Page Description.
0350-550- 8513	Jenbacher Cogeneration Maintenance	See Full Page Description.
0230-550- 8505	New Cogeneration System	See Full Page Description.
0350-550- 8506	Hot Water Systems	Repair and replacement of hot water system pumps, valves, flex fittings, insulation, and piping as needed to maintain the system that supplies hot water to the digesters, buildings and facilities. FY23-26 — Replace aging insulation and/or install PVC jacketing on hot water pipes in Galleries B, C, and F and the Carport Area according to insulation replacement schedule. FY27-32 — Annual allowance for system repairs as needed, failing valves, piping leaks, booster pumps, and seals.

CENTRAL MARIN SANITATION AGENCY CAPITAL IMPROVEMENT PROGRAM - ACCOUNT / PROJECT DESCRIPTIONS REVISED FY23 BUDGET AND 10-YEAR PROJECTION

	Solids Ti	reatment and Energy Generation Equipment and Systems
ACCOUNT NUMBER	ACCOUNT / PROJECT TITLE	ACCOUNT / PROJECT DESCRIPTION
0350-550- 8508	Boilers	FY26 – Complete design and air permitting for replacement of existing boilers. FY27 – Remove two smaller existing boilers and replace with one larger new boiler, upgraded to meet future Bay Area Air Quality Management District requirements.
0350-550- 8510	Biosolids Hoppers Maintenance	An allowance for monitoring and minor repairs to biosolids hoppers, gates, and hydraulic actuators. When centrifuges are scheduled for replacement, improvements to the hoppers will be coordinated with that project. FY24-32 — Allowance for minor maintenance of mechanical equipment every other year.
0350-550- 8511	Organic Waste Receiving Facility	Repairs and replacement of pumps, valves, monitors, and other equipment in the Organic Waste Receiving Facility (OWRF). FY23 – New 4" receiving and 6" sludge recirculation MOVs. Two new mixing pumps if still utilizing this technology. FY24 – MCC AC unit and PLC upgrade. FY28 – Purchase Huber screen replacement wear parts as needed (seals, o-rings, worm shaft, strainer bucket, et al.). FY25-32 – Annual allowance for equipment replacement.
0230-550- 8514	Liquid Organic Waste Storage and Biogas Treatment Upgrades	Design and construction of additional liquid organic waste storage tank and biogas treatment upgrades. The additional liquid organic waste tank would provide additional storage capacity. The biogas treatment upgrades include a new lubrication oil system and waste coolant system, addition of biogas flow meters, redundant biogas chillers, and modifications to the biogas condensate removal systems. FY23 – Begin construction of the new liquid organic waste tank and biogas treatment upgrades and receive pre-purchased Huber equipment. FY24 – Complete construction of the new liquid organic waste tank and biogas treatment upgrades.
0230-550- 8512	PG&E Interconnection Agreement Modification	FY23 – Coordination and construction of remaining PG&E interconnection agreement improvements not completed in FY22 and completion of updated as-build records drawings for all PG&E related and other switchgear modifications completed over the last years.

	Effluent Storage Pond Rehabilitation (GL 0230-550-8201)					
Type of Project	Design and Capital Construction	Lead Department	Technic	cal Services		
Project Delivery	Formally Bid	Formally Bid				
Description and Justification	The effluent storage pond was constructed over a deep layer of Young Bay Mud that settles unevenly under the pond. This causes loss of capacity due to berm settling, and small areas of shallow standing water after the pond is emptied due to bottom settling. The berm was reconstructed and raised in 2007, including a new geotextile liner and new sections of intake and outlet piping. There is an allowance for surveying and project scoping in FY25, design in FY26, and potential renovation of berms and bottom in FY27, depending on the survey results.					
Risk Assessment	This is a low risk project because berm settlement does not occur rapidly. Berm condition will be regularly monitored and the survey timing can be adjusted if necessary.					
Schedule	Activity Description			Cost		
FY25	Survey entire berm, top road, and pouneven settlement and determine so			\$13,200		
FY26	Design improvements			\$32,000		
FY27	Construction allowance for re-grading raising the berm, including extending extra liner material and rebuilding the berm	g and re-anchoring the	buried	\$1,443,900		
		Projec	ct Total	\$1,489,100		



Effluent Storage Pond

	Facility Roofs Rehabilitation (GL 0230-550-8208)				
Type of Project	Design and Capital Construction	Lead Department	Techni	ical Services	
Project Delivery	Maintenance Contract/Informally Bio	d/Formally Bid			
Description and Justification	Rehabilitate portions of the standing seam metal and built-up roofs as needed, and to perform minor repairs on their supporting structures, if required. The various agency built-up roofs were mostly replaced around 2007 and are not expected to require full replacement until after 2030. Allowances are included below for minor repairs on the built-up and standing seam roofs until their complete replacement.				
Risk Assessment	This is a medium risk project as the fall 2018 roof inspection indicated that the roof systems are generally in good condition, with the exception of the items described above.				
Schedule	Activity Description			Cost	
FY23	Allowance to repair aging portions of and flashing on Biotower Building.	f the Maintenance build	ling	\$50,000	
FY24-25	Annual allowance to patch or repair facility standing seam and \$53 built-up roof areas as needed.			\$53,300	
FY27	Allowance for patch or repair facility standing seam and built-up \$50,000 roof areas as needed.				
FY28	Cost for replacement of the Mainten	ance Building metal roo	of.	\$986,200	
FY29-32	Annual allowance to patch or repair facility built-up roof areas as needed. \$136,200				
	Project Total				



Maintenance Building with standing seam metal roofs

Solid	Solids Handling Building Elevator Control Replacement (GL 0230-550-8209)				
Type of Project	Design and Capital Construction	Lead Department	Technic	cal Services	
Project Delivery	Informally Bid and Formally Bid				
Description and Justification	The 2018 Facility Master Plan condition assessment initially recommended replacing the entire elevator (Master Plan Project 12-5) of the Solids Handling Building (SHB). After further discussions with staff and reviewing inspection reports, it was determined that the mechanical components of the elevator still have several years of remaining life. However, the control system will need to be replaced due to age and issues that have required increased maintenance in recent years.				
Risk Assessment		This is a medium risk project. The control system has required increased maintenance and will potentially not pass an annual inspection in the near future if it is not replaced.			
Schedule	Activity Description			Cost	
FY23	Retain specialized elevator consultar and prepare scope of work for forma elevator companies.			\$50,000	
FY24	Major elevator maintenance to ensu including replacing the SHB elevator completed before centrifuge replace	control system, to be	mit,	\$364,700	
	Project Total \$414,700				



Solids Handling Building Elevator



Elevator Control Panel

	Facility Structures Seismic Study (GL 0230-550-8210)				
Type of Project	Design and Capital Construction	Lead Department	Technic	cal Services	
Project Delivery	Professional Services Agreement				
Description and Justification	The 2018 Facility Master Plan recommends conducting a study to evaluate seismic impacts due to soil settlement (Master Plan Project 99-1). Subsidence of the ground has been observed in multiple locations throughout the facility, including in the immediate areas around process tanks. Because structures were constructed on pile foundations, the settlement has produced gaps under the bottom of the structures. It is possible that the original seismic design was dependent on the tops of the piles being at grade and fully supported. With the tops of the piles currently above grade and exposed, the unsupported pile length may be overstressed during an earthquake resulting in structural damage. Ground settlement may have also affected the stresses on buried piping between process areas.				
Risk Assessment	This is a medium risk project due to the unknown risk posed to facility structures resulting from soil settlement.				
Schedule	Activity Description			Cost	
FY25	Conduct a study to quantify the risk of structural damage due to soil settlement and identify future structural improvement projects, if necessary. \$243,900				
	·	Projec	ct Total	\$243,900	



Stair modifications to account for settlement



Exposed bottom of process tank

Electrical Distribution System Rehabilitation (GL 0350-550-8310)					
Type of Project	Design and Capital Construction	Lead Department	Technic	cal Services	
Project Delivery	Professional Services Agreement/Formally Bid				
Description and Justification	The 2018 Facility Master Plan recommends replacing the main electrical switchgear components that distribute power throughout the facility (Master Plan Project 14-1). The existing switchgear electrical components are mostly comprised of equipment from 1985. While most of the equipment is operational, it is increasingly difficult to locate replacements because manufacturers no longer provide full technical support. A detailed switchgear inspection and assessment of the equipment was conducted in FY21 to evaluate the cost, siting impacts, and construction sequencing and timing considerations for full equipment replacement and subsequent switchgear re-inspection in FY23 was recommended. Depending on the results of the Fy23 re-inspection, the Agency will begin subsequent design and construction for replacement of the switchgear. This project also includes allowances to investigate and replace motor control centers (MCCs) located in several treatment process areas when condition assessment findings warrant replacement, as described in the below activity schedule.				
Risk Assessment	This is a high risk project because a failure of the switchgear would result in a significant process disruption, potentially resulting in shutdowns or significant downtime that could result in discharge of untreated effluent.				
Schedule	Activity Description			Cost	
FY23	Conduct condition assessment of he Conduct investigative work in preparametric switchgear replacement design, using a specialty testing firm to investigate equipment functionality, and electric PG&E interconnection related requires switchgear replacement.	ration for the future mage retired annuitant laborated e/verify existing switchgoal consultant to investi	or and ear gate	\$140,000	
FY23	Per the FY21 switchgear inspection r switchgear re-inspection. Construction for the main switchgea		annual	\$200,000	
FY24	Design of headworks MCC replacem	ent.		\$75,000	
FY25	Construction of headworks MCC rep Design of main switchgear replacem FY23 switchgear re-inspection.		ts of	\$521,200	
FY26	Construction of main switchgear rep	lacement		\$2,684,900	
FY27	Plantwide MCC condition assessmen	t.		\$175,000	
FY30	Allowance to refurbish or replace an assessment findings.	MCC based on condition	on	\$259,100	
		Projec	ct Total	\$4,055,200	



Switchgear building and transformer



Switchgear equipment

	Biotower Rotary Distributor Replacement (GL 0230-550-8401)						
Type of Project	Design and Capital Construction	Lead Department	Technica	al Services			
Project Delivery	Formally Bid	Formally Bid					
Description and Justification	The biotowers are the first of two secondary treatment processes, and remove some of the biochemical oxygen demand from the primary effluent before treatment in the aeration tanks. The rotary distributor is the critical moving part, spreading wastewater evenly on the filter media. These critical components operate in a harsh environment with a 25- to 30-year life expectancy. The rotary distributor and top level of filter media in Biotower No. 1 were replaced in 2010. The 2018 Facility Master Plan recommends replacing the rotating mechanism and media in Biotower No. 2 (Master Plan Project 06-2).						
Risk Assessment	This is a medium risk project. The rot corrosion. The upper media bed nee project description and timing has chindings.	ds to be replaced due to	o weather	damage. The			
Schedule	Activity Description			Cost			
FY25	Expert assessment and design assists replacement of the biotower rotary	· ·		\$50,000			
FY26	Replace galvanized-steel distributor spreader nozzles with a motor-opera distributor bearing. Replace or recoawhich the mechanism turns. Replace subject to weather damage.	ted mechanism. Replace t the cast iron turntable	e on	\$1,072,400			
		Projec	ct Total	\$1,122,400			



Original base & turntable, Biotower No. 2



New rotary distributor, Biotower No. 2

Gates Rehabilitation (GL 0350-550-8404)					
Type of Project	Design and Capital Construction	nance			
Project Delivery	Maintenance Project/Informally Bid/	Formally Bid			
Description and Justification	processes. The gates are also used to maintenance. When condition assess with stainless steel gates, which have	There are several large gates that control flow into, through, and between processes. The gates are also used to isolate process tanks for repair or maintenance. When condition assessments warrant, these gates will be replaced with stainless steel gates, which have a longer service life because they have better corrosion resistance and sealing surfaces that can be refurbished.			
Risk Assessment	This is a medium risk project, provided the gates are replaced according to condition assessment findings. However, the risk could be higher if a gate fails in a closed position, which could lead to a process interruption or overflows.				
Schedule	Activity Description			Cost	
FY23	Allowance to replace gates as needed based on condition \$7 assessment, including 4 effluent splitter box gates, and assessments on the 45"/54" junction box knife gates.				
FY24	Replace CCTs 1 through 4 influent ga isolation gates.	tes and CCT 5 and 6 ch	annel	\$495,200	
FY25-26	Allowance to replace gates as neede assessment.	d based on condition		\$191,100	
FY26	Replace headworks influent gates wi	th stainless steel gates.	-	\$325,000	
FY27-32	Allowance to replace gates as needed based on condition assessment, including the following: FY27 - Grit tank gates 1 and 2. FY28 - Grit tank gates 4 and 5. FY29 - CCT gates 9.3/9.1. FY30 - CCT gate 9.2 and install isolation gate between old and new CCTs. FY31 - 4 secondary effluent gates (MOV/automate). FY32 - Allowance to replace gates as needed				
		Proje	ct Total	\$1,757,900	



San Rafael and Ross Valley influent gates

	Headworks Equipment (GL 0350-550-8405)				
Type of Project	Design and Capital Construction	Lead Department	Mainte	nance	
Project Delivery	Maintenance Project/ Formally Bid				
Description and Justification	Equipment in the headworks building is used to collect, transport, dewater, and store screenings and grit from plant influent. Headworks equipment includes screens, hydraulic systems, grit hoppers, grit classifier, grit pumps, and augers and operates in a very corrosive and erosive environment requiring ongoing maintenance and refurbishment or replacement. This account includes two projects recommended in the 2018 Facility Master Plan, the replacement of the hydraulic pumps and control system used to open and close headworks gates (Master Plan Project 04-1), and the replacement of the four original grit classifier systems with new grit classifiers (Master Plan Project 04-2).				
Risk Assessment	This is a low risk project because most of the Headworks equipment has redundant equipment.				
Schedule	Activity Description			Cost	
FY23	Assess various technologies and beging screening system. Retain consultant if needed. Prepare economic evaluat options for Board consideration priodesign and construction in FY23 or land Allowance to replace equipment as reassessment.	for electrical/structural ion with cost recovery r to proceeding with fin ter.	al	\$53,000	
FY24	Allowance to replace equipment as rassessment.	needed based on condit	ion	\$34,100	
FY25-26	Replace four grit classifier systems in piping, and controls.	cluding associated pur	ips,	\$1,324,900	
FY26	Replacement of blowers and diffuser Project 04-3)	rs in aerated grit (Maste	er Plan	\$657,600	
FY27-32	Allowance to replace equipment as rassessment.	needed based on condit	ion	\$256,800	
		Projec	ct Total	\$2,326,400	



Hydraulic control system



Grit classifier

	Odor Control System Improvements (GL 0230-550-8406)					
Type of Project	Design and Capital Construction	Design and Capital Construction Lead Department Technical Services				
Project Delivery	Professional Services Agreement/Fo	ormally Bid				
Description and Justification	Some wastewater treatment processes produce odorous gases. The existing odor control scrubbers serve as one component of the Agency's overall odor control management program. Odor control scrubbers located in the Headworks, Biotower basement, and Solids Handling Building (SHB) are approaching the end of their service lives. A consulting firm prepared a conceptual design report with limited sampling to evaluate the overall scrubber performance and cost estimates to replace each unit with activated carbon media systems. While sampling showed existing scrubbers were not overly efficient, they are capable of removing odors to a level that did not impact the Agency's surrounding neighbors. The 2018 Facilities Master Plan considered the conceptual design report findings and recommends replacing the Headworks and Biotower odor scrubbers (Master Plan Project 06-3). An allowance for this replacement as well as the SHB odor scrubber replacement has been included in the CIP and will be evaluated in future years depending on actual system performance.					
Risk Assessment	This is a low risk project because th issues.	e odor scrubbers are op	perating w	ith minor		
Schedule	Activity Description			Cost		
FY27	Placeholder for removing the Head replace with an activated carbon sc		ıd	\$2,337,000		
FY29	Remove the Biotower basement odor scrubbers and replace with a single activated carbon scrubber. \$2,739,400					
FY30	Allowance to design and construct s	scrubber replacement i	n the	\$1,880,500		
		Proje	ect Total	\$6,956,900		



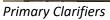
Headworks odor control scrubber



Solids Handling Building odor control scrubber

	Primary Clarifiers Rehabilitation (GL 0350-550-8408)					
Type of Project	Design and Capital Construction	Design and Capital Construction Lead Department Technical Services				
Project Delivery	Maintenance Project/Formally Bid					
Description and Justification	There are seven primary clarifiers in the treatment plant. Five of the clarifiers began operating in 1985 and two were installed during the Wet Weather Improvement Project and began operating in 2010. The mechanical equipment in the five original clarifiers has been upgraded to non-corroding, non-metallic components. However, other metal surfaces in the tanks require periodic industrial coating. Additionally, the mechanical equipment also requires periodic replacement. The 2018 Facilities Master Plan recommends a project to address work noted above plus repairing concrete damage and replacing metal piping with PVC piping (Master Plan Project 05-1). As each primary clarifier is taken down, the north walls, which have been found to be leaking into Gallery A at times, will be prepared and coated with a waterproofing product. Note: Additional allowance for flights/chains/sprockets/wear strips is included under the Process Tank Maintenance account and work may be combined with the work in this account if synergies are found during design.					
Risk Assessment	This is a low risk project because the summer when primary clarifiers can time.	•				
Schedule	Activity Description			Cost		
FY23	Assess concrete on deck, handrails at for multi-year refurbishment. Future on assessment results.		-	\$20,000		
FY24	Repair concrete, waterproof, and recoat the north wall of Clarifier \$401,400 No. 1, replace metal launders with FRP, and replace metal pipes.					
FY25	Repeat elements above for Clarifier I	No. 2.		\$418,200		
FY26	Repeat elements above for Clarifier I	No. 3 and 4.		\$871,300		
FY27	Repeat elements above for Clarifiers	No. 5.		\$453,900		
FY28-29	Allowance for industrial coatings in C	Clarifier No. 6 and 7.		\$363,400		
		Proje	ct Total	\$2,528,200		



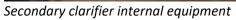




Primary Drive Unit

Secondary Clarifiers Rehabilitation (GL 0350-550-8409)				
Type of Project	Design and Capital Construction	Lead Department	Technic	al Services
Project Delivery	Professional Services Agreement/For	mally Bid		
Description and Justification	There are four secondary clarifiers in the treatment plant. The 2018 Facilities Master Plan recommends a project to repair corrosion on mechanical equipment, metal structural components, and internal pipes, resurface the effluent trough concrete, and retrofit the catwalk with FRP grating (Master Plan Project 08-1). While each clarifier is out of service, the large drive turntables in Clarifiers No. 1, 3, and 4 will be replaced. The turntable drive for Clarifier No. 2 was replaced in 2011.			
Risk Assessment	This is a high risk project because failure of a secondary clarifier could lead to treatment plant process disruptions and possible discharge of effluent that does not meet NPDES treatment limits.			
Schedule	Activity Description Cost			
FY23	Complete Secondary Clarifier No. 4 and No. 1 construction and prepurchase of center column for Secondary Clarifier No. 2. Recoat primary scum and tank drain piping and effluent launders in Primary Clarifiers 6 and 7, and Aeration Tank RAS piping. Recoat piping and replace expansion joints in corner sumps No. 1 and 4 in RAS basement.		\$1,508,900	
FY24	Complete Clarifier No. 2 construction	1.		\$600,700
	Project Total \$2,109,6			\$2,109,600



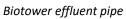




Secondary clarifier in operation

Process Piping Inspection/Repairs/Replacement (GL 0230-550-8412)				
Type of Project	Design and Capital Construction	Lead Department	Technica	al Services
Project Delivery	Professional Services Agreement/ In	formally Bid		
Description and Justification	The San Rafael and Ross Valley Interceptors are large diameter buried force mains and are the only pipelines that convey wastewater from the satellite collection agency service areas to CMSA. There are also several large diameter pipelines within the facility that transfer water between treatment processes, including the Primary Effluent and the RAS pipelines. Recommended projects from the 2018 Facilities Master Plan and 2020 process pipeline inspection and condition assessment and are described in the below activity schedule.			
Risk Assessment	This is a medium risk project because the condition of the pipelines and flexible joints is unknown. However, the pipelines have not leaked or shown signs of corrosion.			
Schedule	Activity Description		1	Cost
FY23	Complete remaining pipeline inspection. \$5		\$50,230	
FY23	Assess damage and corrosion and recommend repairs on the 48" \$25,00 influent pipe in the South Francisco Junction Vault and perform repairs.		\$25,000	
FY24	External expansion joint condition a primary effluent and 24-inch RAS lin		ch	\$100,000
FY26	Replace chemical lines located along contained PVC pipe and explore opposition chemical piping to the bottom of the	ortunities to relocate	le	\$120,900
FY27	Allowance to inspect the San Rafael	and Ross Valley Interce	otors.	\$175,300
FY31	10-year inspection of process pipelin	nes		\$125,100
		Projec	t Total	\$596,530



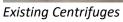




Primary Effluent pipe manifold

Centrifuge Maintenance (GL 0350-550-8503)				
Type of Project	Design and Capital Construction Lead Department Technical Services			al Services
Project Delivery	Professional Services Agreement/Fo	rmally Bid		
Description and Justification	The Agency dewaters digested sludge with three centrifuges that rotate at high speeds to remove water and produce biosolids. The high-speed rotation and corrosive operating environment necessitate a significant amount of routine maintenance for optimum performance. A manufacturer performed condition assessment of the three centrifuges in 2016 found they were all in relatively good condition. The 2018 Facilities Master Plan recommends replacing the existing centrifuges with new centrifuges that have larger capacity to handle the potential increase in biosolids related to increased delivery of organic waste. However, the timing of those increased biosolids loads is still uncertain and may take many years to materialize (if ever). The biosolids hoppers underneath the centrifuges have corrosion and operators are unable to switch between hoppers, resulting in unforeseen hopper overflows at times and imperfect truck filling. Options for the biosolids hoppers will be evaluated while the entire centrifuge system replacement is being evaluated.			
Risk Assessment	This is a medium risk project because the centrifuges would be over 25 years old before being fully replaced, however with proper maintenance the existing centrifuges are expected to operate and meet the Agency's needs. Project timing will be revisited with each annual CIP update based on the latest centrifuge system performance and condition.			
Schedule	Activity Description			Cost
FY23	Complete repairs to corrosion found	on biosolids hoppers.		\$50,000
FY23	Begin design of centrifuge replacem	ent.		\$534,500
FY24	Construct the centrifuge replacemen	nt.		\$2,933,700
		Proje	ct Total	\$3,518,200







Biosolids Hoppers

Waukesha Cogeneration Maintenance (GL 0350-550-8504)				
Type of Project	Larger Maintenance Activities	Lead Department	Mainte	nance
Project Delivery	Maintenance Project/Informally Bid/Formally Bid			
Description and Justification	The cogeneration system runs continuously, utilizing biogas and natural gas to generate most of the Agency's electrical power and to supply the Agency's hot water needs. This account includes allowances for purchasing critical spare parts and to perform larger maintenance activities for the existing Waukesha engine and generator. Larger maintenance activities include on-site upper- and lower-end rebuilds involving the cylinder heads and liners, valves, and pistons; or off-site overhaul work that includes a complete disassembly and reassembly with machining to restore the engine and generator to original factory specifications. The design and construction of a new Jenbacher cogeneration engine is scheduled for completion in FY22. After the new Jenbacher engine is operational, the existing Waukesha engine will rotate into a backup position and run-hour based routine maintenance cost decrease accordingly.			
Risk Assessment	This is a high risk project because the existing engine has experience catastrophic failure and CMSA will be incurring significant costs to purchase power from PG&E.			
Schedule	Activity Description			Cost
FY23-32	Allowances for routine maintenance cogeneration facilities, assuming the limited run-hours while in the backul cogeneration engine is operational.	existing engine will see	•	\$124,100
		Projec	t Total	\$124,100

Jenbacher Cogeneration Maintenance (GL 0350-550-8513)				
Type of Project	Larger Maintenance Activities	Lead Department	Mainte	nance
Project Delivery	Maintenance Project/Informally Bid/	Formally Bid		
Description and Justification	The cogeneration system runs continuously, utilizing biogas and natural gas to generate most of the Agency's electrical power and to supply the Agency's hot water needs. In FY22 CMSA executed a Long-Term-Service-Agreement (LTSA) with Western Energy Systems to complete the majority of the required services for the Jenbacher engine and generator for a 10-year period, including minor and major overhauls per the timetable below. Select cogeneration engine system maintenance services, such as the 3,333 hour Jenbacher engine service interval or the replacement of the SCR catalyst bricks, will be completed by CMSA staff and associated parts and suppliers are budgeted in a separate operating account.			
Risk Assessment	This is a medium project because the Jenbacher engine was newly installed in FY22 and CMSA entered into a Long-Term-Service Agreement with an entity specialized in maintaining Jenbacher engines.			
Schedule	Activity Description Cost			
FY23-32	Annual allowance for contracted 10-yr LTSA including third-party \$685,600 parts and labor.			\$685,600
FY26&FY30	Allowance for routine replacement of Selective Catalytic Reducer \$120,60 and Oxidation Catalyst internal materials.			
FY27	Minor overhaul at 40,000 operating hours per the terms of the LTSA. \$203,600			
FY32	Major overhaul at 80,000 operating l LTSA.	nours per the terms of t	the	\$423,800
		Projec	ct Total	\$1,433,600

New Cogeneration System (GL 0230-550-8505)				
Type of Project	Design and Capital Construction	Lead Department	Technic	cal Services
Project Delivery	Formally Bid			
Description and Justification	The construction of the new cogeneration system began in FY21 and was substantially completed in FY22. Due to unforeseen delays in the PG&E interconnection process a small amount of project work, including payment of the project retention for the installation contractor will occur in FY23. This schedule coincides with the expansion of the OWRF program and the Agency's ability to sell excess power through a new PG&E Interconnection Agreement and power sale agreement with Marin Clean Energy. The existing cogeneration engine will remain available as a backup unit.			
Risk Assessment	This is a low risk project because the existing engine can remain in service for an extended period of time if properly maintained. However, the Agency would lose the opportunity to generate additional revenue from a more efficient system.			
Schedule	Activity Description			Cost
FY23	Complete installation of remaining p cogeneration system including paym the installation contractor.		n for	\$350,000
		Projec	ct Total	\$350,000



New cogeneration system

Nutrient Removal (0230-550-8417)			
Type of Project	Planning and Design	Lead Department	Technical Services
Project Delivery	To Be Determined		
Description and Justification	The 2019 Bay Area Watershed Permit includes a proposed nitrogen discharge cap for CMSA beginning in 2024 which is approximately 15 to 20 percent above CMSA's typical 2018 nitrogen discharge levels. Depending on CMSA's service area growth and future increases of the organic waste program, CMSA may be close to or above its nitrogen cap by 2024. Significant uncertainty exists at this time about the exact nature of the Regional Water Board's enforcement of the nitrogen caps in 2024, and specifically if, when, and how it would be enforced. Therefore, there is a non-trivial probability that CMSA would not be impacted at all by this cap until 2029 or even much later permit cycles. However, in the event that it becomes evident that CMSA is impacted by a load cap, staff would propose to study and plan for potential compliance pathways in a thoughtful and systematic manner as soon as more specific information about potential compliance timelines is known. There are several promising process-related optimization measures that may facilitate CMSA comfortably meeting compliance at potentially relatively low cost. Due to the uncertain nature of this subject, funds for the planning, design and construction of nutrient removal facilities at CMSA are not included in the CIP at this time. However, CMSA staff will be closely monitoring nutrient related permitting developments on a regular basis. If indications arise that CMSA may be impacted by nutrient load targets, staff will work with the Board to update the CIP accordingly.		
Risk Assessment	This is a low risk project because there is still adequate time to prepare for potential future compliance targets if they materialize.		
Schedule	Activity Description		Cost
	None included at this time.		\$0
		Project	Total \$ 0