



















JULY 1, 2018 - JUNE 30, 2019













CENTRAL MARIN SANITATION AGENCY

CMSA PROPOSED BUDGET FISCAL YEAR 2018-2019: JULY 1, 2018 – JUNE 30, 2019

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PLACEHOLDER FOR BUDGET MESSAGE FROM THE GENERAL MANAGER <aka TRANSMITTAL LETTER>
To be published in the June agenda

PLACEHOLDER FOR:

Section 1. Organization

Section 2. Location and Service Area, Local Demographics and Economy

Section 3. Facilities, Wastewater Treatment Process, Workload and Performance Indicators

Section 4. Strategic Business Plan

Section 5. Financial Reporting and Financial Policies Summary

Section 6. Budget Development: Balanced Budget, Basis of Budgeting, Accounting, Development and Administration

Section 7. FY 2018-19 Budget - Discussion and Analysis

Operating Budget Account Information

FUNDING REQUIREMENTS AND SOURCES SUMMARY

| Funding Requirements | Actual 2016-17 | Fiscal Year 2017-18 | Year-End Projection 2017-18 | Fiscal Year 2018-19 | Amount Increase (Decrease) | Percent Increase (Decrease) |
|-----------------------------------|-------------------|---------------------------|-----------------------------------|---------------------------|----------------------------------|-----------------------------------|
| Operating: (SCHED 2) | | | | | | |
| Salaries and Wages | \$ 5,347,208 | \$ 5,401,800 | \$ 5,102,952 | \$ 5,555,200 | \$ 153,400 | 2.8% |
| Employee Benefits | 2,443,406 | 2,561,100 | 2,469,085 | 2,758,700 | 197,600 | 7.7% |
| Chemicals & Fuels | 1,113,251 | 1,069,500 | 1,025,627 | 1,126,900 | 57,400 | 5.4% |
| Biosolids Management | 353,400 | 387,700 | 379,908 | 400,300 | 12,600 | 3.2% |
| Permit Testing & Monitoring | 110,973 | 179,500 | 165,751 | 148,800 | (30,700) | -17.1% |
| Maintenance & Repairs | 380,240 | 382,500 | 383,565 | 363,500 | (19,000) | -5.0% |
| Utilities | 318,900 | 350,500 | 277,490 | 311,200 | (39,300) | -11.2% |
| Insurance | 210,950 | 261,200 | 229,035 | 250,800 | (10,400) | -4.0% |
| General & Administrative | 697,499 | 868,800 | 604,115 | 879,600 | 10,800 | 1.2% |
| Operating before debt and capital | 10,975,827 | 11,462,600 | 10,637,528 | 11,795,000 | 332,400 | 2.9% |
| Debt Service (SCHED 1) | 4,109,744 | 3,961,906 | 3,961,906 | 3,973,206 | 11,300 | 0.3% |
| Operating before capital | 15,085,571 | 15,424,506 | 14,599,434 | 15,768,206 | 343,700 | 2.2% |
| Capital Improvements | \$ 2,389,382 | \$ 3,817,600 | \$ 2,449,176 | \$ 2,962,200 | (855,400) | -22.4% |
| Total requirements | \$ 17,474,953 | \$ 19,242,106 | \$ 17,048,610 | \$ 18,730,406 | \$ (511,700) | -2.7% |
| Funding Sources (SCHED 1) | Actual 2016-17 | Fiscal Year 2017-18 | Year-End Projection 2017-18 | Fiscal Year 2018-19 | Amount Increase (Decrease) | Percent Increase (Decrease) |
| - | | | | | · · | |
| Service Charges | \$ 9,865,358 | \$ 10,263,165 | \$ 10,263,165 | \$ 10,622,376 | \$ 359,211 | 3.5% |
| Capital Fee | 530,000 | 630,000 | 630,000 | 811,258 | 181,258 | 28.8% |
| Debt Service Charge | 4,960,117 | 4,952,382 | 4,952,382 | 4,966,508 | 14,126 | 0.3% |
| Capacity Charges | 330,079 | 29,300 | 330,000 | 30,091 | 791 | 2.7% |
| Contract Service Revenues | 1,442,550 | 1,228,950 | 920,752 | 1,198,948 | (30,002) | -2.4% |
| Program Revenues | 134,324 | 143,200 | 79,235 | 146,030 | 2,830 | 2.0% |
| Haulers, Permits & Inspections | 302,922 | 226,250 | 231,368 | 221,450 | (4,800) | -2.1% |
| Other Revenues | 26,003 | 20,000 | 28,470 | 20,000 | 402.260 | 0.0% |
| Interest Income | 113,085 | 113,500 | 122,109 | 215,760 | 102,260 | 90.1% |
| Other Financing Sources | - | - | - | - | - | |
| Subtotal funding sources | 17,704,438 | 17,606,747 | 17,557,481 | 18,232,421 | 625,674 | 3.6% |
| Reserve (Increase) Usage | (229,485) | 1,635,359 | (508,871) | 497,985 | (1,137,374) | -69.5% |
| Total funding sources | \$ 17,474,953 | \$ 19,242,106 | \$ 17,048,610 | \$ 18,730,406 | \$ (511,700) | -2.7% |

SCHEDULE OF REVENUES AND OTHER FINANCING SOURCES

| Account # | - | Description | Actual 2016-17 | Fiscal Year 2017-18 | Fiscal Year 2018-19 | I | Amount ncrease Decrease) | Percent Increase (Decrease) |
|-------------|-------|---|-----------------------|-------------------------------|-------------------------------|----|--------------------------------|-----------------------------------|
| | | Service Charges to Members ¹ | | | | | | |
| 4010-000-00 | SRSD | - | \$ 4,231,633 | \$ 4,249,977 | \$ 4,340,303 | \$ | 90,326 | 2.1% |
| 4010-000-00 | RVSD | | 4,762,416 | 5,162,372 | 5,363,238 | | 200,866 | 3.9% |
| 4010-000-00 | SD #2 | | 871,309 | 850,816 | 918,836 | | 68,020 | 8.0% |
| | | Totals | \$ 9,865,358 | \$ 10,263,165 | \$ 10,622,377 | \$ | 359,212 | 3.5% |
| | | Capital Fee to Members ¹ | | | | | | |
| 4010-000-00 | SRSD | <u>Gupitui i de la membera</u> | \$ 227,337 | \$ 260,883 | \$ 331,480 | \$ | 70,597 | 27.1% |
| 4010-000-00 | RVSD | | 255,853 | 316,890 | 409,604 | | 92,714 | 29.3% |
| 4010-000-00 | SD #2 | | 46,810 | 52,227 | 70,174 | | 17,947 | 34.4% |
| | | Totals | \$ 530,000 | \$ 630,000 | \$ 811,258 | \$ | 181,258 | 28.8% |
| | | Debt Service Cost to Members ² | | | | | | |
| 4011-000-00 | SRSD | | \$ 1,852,642 | \$ 1,859,855 | \$ 1,865,160 | \$ | 5,305 | 0.3% |
| | RVSD | | 2,152,400 | 2,131,911 | 2,137,992 | | 6,081 | 0.3% |
| | SD #2 | | 575,641 | 579,510 | 581,163 | | 1,653 | 0.3% |
| | SQSP | | 379,434 | 381,106 | 382,193 | | 1,087 | 0.3% |
| | | Totals | \$ 4,960,117 | \$ 4,952,382 | \$ 4,966,508 | \$ | 14,126 | 0.3% |
| | | Capacity Charges | | | | | | |
| 4020-010-00 | SRSD | | \$ 168,677 | \$ 11,720 | \$ 12,036 | \$ | 316 | 2.7% |
| 4020-020-00 | RVSD | | 52,769 | 11,720 | 12,036 | | 316 | 2.7% |
| 4020-030-00 | SD #2 | | 108,633 | 5,860 | 6,018 | | 158 | 2.7% |
| | | Totals | \$ 330,079 | \$ 29,300 | \$ 30,091 | \$ | 791 | 2.7% |

Note 1: See flow-strength tables in appendix A

Note 2: See EDU allocation table in appendix A

SCHEDULE OF REVENUES AND OTHER FINANCING SOURCES

| Account # | Description | | Actual 2016-17 | | Fiscal Year 2017-18 | | Fiscal Year 2018-19 | - | Amount Increase Decrease) | Percent Increase (Decrease) | Notes |
|--------------|--|----|-------------------|----|---------------------------|----|---------------------------|----|---------------------------------|-----------------------------------|---|
| 710000111111 | | | 2010 17 | | 2017 10 | | 2010 13 | | - corease) | (Decireuse) | |
| | Contract Service Revenues | | | | | | | | | | |
| 4601-000-00 | San Quentin State Prison Wastewater Services | \$ | 813,946 | \$ | 589,690 | \$ | 569,745 | \$ | (19,945) | -3.4% | O&M plus capital * 3.89% (see appendix) |
| 4601-001-00 | San Quentin State Prison Pump Station Maint | | 139,616 | | 108,110 | | 111,570 | | 3,460 | 3.2% | Bay Area CPI Jan-Jan at 3.0% |
| 4602-000-00 | San Quentin Village Wastewater Services | | 68,500 | | 49,950 | | 45,297 | | (4,653) | -9.3% | FY18 budget to Marin County PW |
| 4600-000-00 | SD#2 Pump Stations | | 420,488 | | 403,400 | | 394,536 | | (8,864) | -2.2% | FY18 Corte Madera PS Budget |
| 4031-000-00 | LGVSD - FOG & pollution prevention | | 16,163 | | 16,500 | | 16,500 | | - | 0.0% | Source control service estimate |
| 4033-000-00 | RVSD - FOG | | 13,659 | | 21,500 | | 21,500 | | - | 0.0% | Source control service estimate |
| 4034-000-00 | SRSD - FOG | | 15,519 | | 25,600 | | 25,600 | | - | 0.0% | Source control service estimate |
| 4035-000-00 | TCSD - FOG | | 1,587 | | 2,200 | | 2,200 | | - | 0.0% | Source control service estimate |
| 4036-000-00 | SD #2 - FOG | | 5,558 | | 7,500 | | 7,500 | | - | 0.0% | Source control service estimate |
| 4038-000-00 | Almonte SD - FOG | | 1,270 | | 1,500 | | 1,500 | | - | 0.0% | Source control service estimate |
| 4037-000-00 | Novato SD - Dental Amalgam | | 2,576 | | 3,000 | | 3,000 | | - | 0.0% | Source control service estimate |
| | _ | | | | | | | | | | |
| | Total contract service revenues | \$ | 1,498,882 | \$ | 1,228,950 | \$ | 1,198,948 | \$ | (30,002) | -2.4% | |
| | | | | | | | | | | | - |
| | Program Revenues | | | | | | | | | | |
| 4070-000-00 | Health & Safety Program | \$ | 89,953 | \$ | 91,500 | \$ | 86,600 | \$ | (4,900) | -5.4% | Shared program with Novato Sanitary |
| 4080-001-00 | County-wide Public Education Program | | 44,371 | | 51,700 | | 59,430 | | 7,730 | 15.0% | Multi-agency program budget |
| 4080-002-00 | Outside Safety Training | | - | | - | | - | | - | - | |
| | | | | | | | | | | | _ |
| | Total program revenues | \$ | 134,324 | \$ | 143,200 | \$ | 146,030 | \$ | 2,830 | 2.0% | = |
| | | | | | | | | | | | |
| | Haulers, Permits & Inspection | | | | | | | | | | |
| 4030-000-00 | Permit and Inspection Fees | \$ | 18,246 | \$ | 24,000 | \$ | 24,000 | \$ | - | 0.0% | Permitting of regulated businesses |
| 4050-010-00 | Revenue from Haulers - Septic | | 84,762 | | 70,000 | | 75,000 | | 5,000 | 7.1% | \$83.30 per 1,000 gal plus sampling fee |
| 4050-020-00 | Revenue from Haulers - RV | | 510 | | 250 | | 250 | | - | 0.0% | \$10 per load |
| 4050-030-00 | Revenue from Haulers - FOG | | 94,889 | | 90,000 | | 75,000 | | (15,000) | -16.7% | Tiered pricing per fee ordinance |
| 4050-035-00 | Revenue from Haulers - Liquid Waste | | 506 | | 2,000 | | 4,200 | | 2,200 | 110.0% | Price negotiated per truckload |
| 4050-040-00 | Revenue from Foodwaste Disposal | | 47,675 | | 40,000 | | 43,000 | | 3,000 | 7.5% | Tipping fee from Marin Sanitary Service |
| | | | | _ | | _ | | _ | | | - |
| | Total haulers, permits & inspection | \$ | 246,588 | \$ | 226,250 | \$ | 221,450 | \$ | (4,800) | -2.1% | • |
| | | | | | | | | | | | |
| | Interest Income | | | | | _ | | | | | |
| 4910-002-00 | Interest Income - LAIF | \$ | 110,275 | \$ | 112,000 | \$ | 210,000 | \$ | 98,000 | 87.5% | LAIF yield at 1.5% |
| 4910-011-00 | Investment Interest - CAMP | | 2,810 | | 1,500 | | 5,760 | | 4,260 | 284.0% | CAMP yield at 1.6% |
| | Tatal interest in come | Ś | 113,085 | \$ | 113,500 | \$ | 215 760 | \$ | 102,260 | 90.1% | - |
| | Total interest income | \$ | 113,085 | Ş | 113,500 | Ş | 215,760 | Ş | 102,260 | 90.1% | • |
| | Other Revenues | | | | | | | | | | |
| 4990-000-00 | Other Revenues | Ś | 21 750 | ۲ | 20.000 | | 20,000 | Ļ | | 0.00/ | Missellaneous infraquent items |
| 4990-000-00 | Other non-operating revenue | Ş | 21,758 | \$ | 20,000 | \$ | 20,000 | \$ | - | 0.0% | Miscellaneous infrequent items |
| 4990-011-00 | CAMP non-operating revenue | | - | | - | | - | | - | - | |
| | Total other revenues | \$ | 21,758 | \$ | 20,000 | \$ | 20,000 | \$ | | 0.0% | - |
| | . Star other revenues | 7 | 21,730 | | 20,000 | | 20,000 | | | 0.070 | = |

Summary of Expenditures by Departments and Category

TOTAL

| Operating Expenditures by Department | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget | % Change FY19 Proposed Budget from FY18 Adopted Budget | |
|--|--|---|---|--|---|
| ADMINISTRATION | 4,554,500 | 4,257,915 | 4,714,000 | 3.5% | |
| MAINTENANCE | 2,008,700 | 1,929,078 | 1,918,900 | -4.5% | |
| OPERATIONS | 3,150,600 | 2,902,183 | 3,236,500 | 2.7% | |
| TECHNICAL SERVICES | 1,748,800 | 1,548,352 | 1,925,600 | 10.1% | |
| TOTAL | 11,462,600 | 10,637,528 | 11,795,000 | 2.9% | |
| Operating Expenditures by Category | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget | % Change FY19 Proposed Budget from FY18 Adopted Budget | Proposed % of Budget |
| SALARIES | 5,401,800 | 5,102,952 | 5,555,200 | 2.8% | 47.1% |
| | | | | | |
| BENEFITS | 2,561,100 | 2,469,085 | 2,758,700 | 7.7% | 23.4% |
| | 2,561,100 7,962,900 | | | 7.7% 4.4% | |
| BENEFITS | | 2,469,085 | 2,758,700 | | 23.4% |
| BENEFITS SUB-TOTAL CHEMICALS & FUELS | 7,962,900 1,069,500 | 2,469,085 7,572,037 1,025,627 | 2,758,700 8,313,900 1,126,900 | 4.4% 5.4% | 23.4% 70.49% 9.6% |
| BENEFITS SUB-TOTAL CHEMICALS & FUELS BIOSOLIDS MANAGEMENT | 7,962,900 1,069,500 387,700 | 2,469,085 7,572,037 1,025,627 379,908 | 2,758,700 8,313,900 1,126,900 400,300 | 5.4% 3.2% | 23.4% 70.49% 9.6% 3.4% |
| BENEFITS SUB-TOTAL CHEMICALS & FUELS BIOSOLIDS MANAGEMENT PERMIT TESTING & MONITORING | 7,962,900 1,069,500 387,700 179,500 | 2,469,085 7,572,037 1,025,627 379,908 165,751 | 2,758,700 8,313,900 1,126,900 400,300 148,800 | 4.4% 5.4% 3.2% -17.1% | 23.4% 70.49% 9.6% 3.4% 1.3% |
| BENEFITS SUB-TOTAL CHEMICALS & FUELS BIOSOLIDS MANAGEMENT PERMIT TESTING & MONITORING MAINTENANCE & REPAIRS | 7,962,900 1,069,500 387,700 179,500 382,500 | 2,469,085 7,572,037 1,025,627 379,908 165,751 383,565 | 2,758,700 8,313,900 1,126,900 400,300 148,800 363,500 | 5.4% 3.2% -17.1% -5.0% | 23.4% 70.49% 9.6% 3.4% 1.3% 3.1% |
| BENEFITS SUB-TOTAL CHEMICALS & FUELS BIOSOLIDS MANAGEMENT PERMIT TESTING & MONITORING MAINTENANCE & REPAIRS UTILITIES | 7,962,900 1,069,500 387,700 179,500 382,500 350,500 | 2,469,085 7,572,037 1,025,627 379,908 165,751 383,565 277,490 | 2,758,700 8,313,900 1,126,900 400,300 148,800 363,500 311,200 | 5.4% 3.2% -17.1% -5.0% -11.2% | 23.4% 70.49% 9.6% 3.4% 1.3% 3.1% 2.6% |

| Benefit Expenditures | FY 17-18 Adopted Budget | FY 18-19 Proposed Budget | Change | % Change FY19 Proposed Budget from FY18 Adopted Budget | Benefits as a Percent of Total Revenue |
|--|-------------------------------|--------------------------------|----------|--|--|
| | 1 | | | | \$ 18,730,406 |
| RETIREMENT (CALPERS CLASSIC, PEPRA, UAL) | 1,030,600 | 1,195,000 | 164,400 | 16.0% | 6.38% |
| RETIREMENT - CALPERS CLASSIC | 493,498 | 523,151 | 29,653 | | 2.79% |
| RETIREMENT - CALPERS PEPRA | 55,400 | 74,100 | 18,700 | | 0.40% |
| RETIREMENT - CALPERS UNFUNDED ACCRUED LIABILITY | 481,702 | 597,749 | 116,047 | | 3.19% |
| RETIREMENT - CALPERS SURVIVORS | 2,700 | 2.700 | | 0.0% | 0.01% |
| RETIREMENT - CALPERS SORVIVORS RETIREMENT - SOCIAL SECURITY/MEDICARE | 84,000 | 84,300 | 300 | 0.0% | |
| CALPERS MEDICAL - ACTIVE EMPLOYEES | 908.500 | 983.600 | 75.100 | 8.3% | |
| DENTAL - ACTIVE EMPLOYEES | 117,000 | 123,100 | 6,100 | 5.2% | 0.66% |
| LIFE INSURANCE, AD&D, LTD - ACTIVE EMPLOYEES | 25,100 | 28,700 | 3,600 | 14.3% | 0.15% |
| VISION - ACTIVE EMPLOYEES | 11,600 | 12,500 | 900 | 7.8% | 0.07% |
| MARA - ACTIVE EMPLOYEES | 34,600 | 46,300 | 11,700 | 33.8% | 0.25% |
| CALPERS MEDICAL - RETIRED EMPLOYEES | 198,200 | 204,500 | 6,300 | 3.2% | 1.09% |
| ANNUAL OPEB CONTRIBUTION | 107,400 | 43,100 | (64,300) | -59.9% | 0.23% |
| BENEFIT ADMINISTRATION FEES | 6,400 | 7,900 | 1,500 | 23.4% | |
| TOTAL * | 2,526,100 | 2,731,700 | 205,600 | 8.1% | 14.58% |

11,462,600

10,637,528

11,795,000

2.9%

100.00%

^{*} Benefit line items for administration fees, uniforms and unemployment benefits are excluded from the Benefit Expenditures FY 18-19 table.

Discussion: Comparison between FY 17-18 Adopted to FY 18-19 Proposed Budget

Salaries

- Salary increase of 3% for represented and unrepresented employees in accordance with the 2014
 Memorandum of Understanding and the Compensation and Benefits for Unrepresented Employees.
- 11 Employees eligible to receive step advancement.
- 1 open Health and Safety Manager position budgeted at a higher salary than the previous year, 1 new Laboratory Analyst position and 1 new Assistant Operations Supervisor position.
- Eliminated E/I Assistant Maintenance Supervisor position and replaced with entry level Electrical/Instrumentation Tech I position.
- Compensatory time, vacation and holiday time cash-outs included in the budget.

Benefits

- Employer retirement contributions increased for both Classic (12.212%) and PEPRA (6.842%) employees. The Classic employer rate also includes \$597K for the required unfunded accrued liability (UAL) contribution.
- PEHP (Post-Employment Health Plan) benefits increased with new hire position replacements and the creation of the new Laboratory Analyst position.
- Agency Other Post Employee Benefit (OPEB) annual required contribution is \$50K lower as a result
 of new calculation requirements in the most recent GASB 75 Actuarial Valuation as of January 1,
 2018. GASB 75 replaced GASB 45 which had more complicated calculation requirements.
- CalPERS medical costs are budgeted at the applicable family rate for all employees and are budgeted to increase 4.5% in 2019.

Chemicals

• Increase in chemical procurement costs (ferric chloride, sodium hypochlorite, sodium bisulfate) due to increased unit costs established by the Bay Area Chemical Consortium, and projected increased usage for some chemicals.

Biosolids Management:

- Biosolids management costs expected to increase by a 3.2% San Francisco Bay Area CPI adjustment.
- Hauling costs expected to increase a total of 3.2% using the annual San Francisco Bay Area Consumer Price Index.

Permit Testing and Monitoring:

- 24% decrease for laboratory supplies for several one-time purchases in FY 18 and an allocation adjustment for good laboratory practice requirements.
- County requirements for the monthly inspection of the underground tank overfill containment will
 decrease 59%. The reduction from the previous year is due to removing CUPA costs from this
 account.

• Secondary containment testing for the Agency's two underground fuel tanks takes place every three years and took place in FY 18 and is not budgeted for FY 19. The next test is scheduled for FY 21.

Utilities

- Reduction in natural gas procurement due to increased biogas production from organic waste program expecting 94% uptime running the cogeneration system.
- 28% decrease due to Marin Sanitary Service absorbing the quarterly cleaning costs for the organic waste receiving facility.

Maintenance and Repairs

- Fleet maintenance costs decrease with the expectation less maintenance will be required on newer vehicles and electric carts purchased over the past few years.
- Plant pumps increase 39% to refurbish two TWAS pumps and two septage receiving station pumps.
- Centrifuge maintenance decreases 50% due to the three centrifuge units are not scheduled to be replaced until FY 21.

Insurance

- Property and general liability insurance are estimated to be 5%-11% lower by applying the CSRMA recommended increase to the current year's actual premium.
- Workers compensation insurance decreased due to a reduction in the experience modification
 factor, known as the X-mod factor, from a previous factor of 1.03 to 0.82, for a 20% drop. This is due
 to no lost time accidents over the previous year.

General & Administrative

 This category has increased a nominal 1% and is generally consistent between years with only minor variations. Agency staff negotiated an upgrade to the internet and telephone services for an overall price increase of approximately \$60 per month and a speed increase from 15mbs to 100mbs.

Administration

The Administration Department provides administrative, financial, human resources, and information technology related services for the Agency. The Board of Commissioners appoints the General Manager who is the chief administrative official responsible for the overall operations and management of the Agency.

The Department is responsible for the following functions:

- Provides administrative support to the Board of Commissioners
- Represents the Agency on legal and regulatory matters
- Maintains intergovernmental relations with the four JPA member agencies, local governments in Marin County, and government agencies in the region
- Communicates Agency initiatives to stakeholders and the public
- Develops, implements, and manages the Agency's annual budget
- Manages the Agency's finances and investments
- Provides human resource services to departments and employees
- Ensures the safety of agency employees and assets through insurance protection and risk management programs provided by the California Sanitation Risk Management Authority (CSRMA)
- Provides oversight for the Health & Safety Program
- Maintains the Agency's communication and information technology systems

| Administration Expenditures by Category | FY 16-17 | FY 17-18 | FY 18-19 |
|---|----------------|----------------|-----------------|
| | Adopted Budget | Adopted Budget | Proposed Budget |
| SALARIES | \$1,081,100 | \$1,222,000 | \$1,233,000 |
| BENEFITS | 2,575,700 | 2,561,100 | 2,758,700 |
| SUBTOTAL | \$3,656,800 | \$3,783,100 | \$3,991,700 |
| INSURANCE GENERAL & ADMINISTRATIVE | 275,900 | 261,200 | 250,800 |
| | 551,600 | 510,200 | 471,500 |
| SUBTOTAL | \$ 827,500 | \$ 771,400 | \$ 722,300 |
| TOTAL | \$4,484,300 | \$4,554,500 | \$4,714,000 |

| Authorized Positions | FY 16-17 | FY 17-18 | FY 18-19 |
|-------------------------------------|----------|----------|----------|
| General Manager | 1 | 1 | 1 |
| Administrative Assistant | 1 | 1 | 1 |
| Treatment Plant Manager | 1 | 1 | 1 |
| Administrative Services Manager | 1 | 1 | 1 |
| Financial Analyst | 1 | 1 | 1 |
| Personnel and Accounting Technician | 1 | 1 | 1 |
| Information Systems Analyst* | - | 1 | 1 |
| Health and Safety Manager | - | 1 | 1 |
| Safety Director | 1 | - | - |
| TOTAL | 7 | 8 | 8 |

^{*}Transferred from Technical Services

Line Item Accounts

*Position Code

GM General Manager

ASM Administrative Services Manager

OS Operations Supervisor

ISA Information Systems Analyst

AE Assistant Engineer

AA Administrative Assistant

| ADMINIS | TRATION | | | | | | | | |
|---------------|---------------------------------------|-----|-------------------------------|--|--|--------------------------------|--|---|---|
| Account # | Account Name | *By | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget Change | FY 18-19 Proposed Budget | % Change FY19 Proposed Budget from FY18 Adopted Budget | % Change FY19 Proposed Budget From FY18 Projected Year- End | Budget Account Description |
| SALARIES & E | BENEFITS | | | | | | | | |
| 5010-010-01 | Salaries, Wages & Compensation | ASM | 1,214,500 | 1,183,631 | 9,900 | 1,224,400 | 0.82% | | Salaries for 8 full-time employees and CMSA's 60.25% share of the Health & Safety Manager salary. FY19 increases are for a 3% COLA salary increase, one step adjustment, and leave balance cash-outs. |
| 5010-020-01 | Overtime | GM | 7,500 | 10,764 | 1,100 | 8,600 | 14.67% | | Authorized overtime to complete special activities or assignments, and employee compensatory time leave balance cash-outs. |
| Subtotal Sala | ries & Wages | | 1,222,000 | 1,194,395 | 11,000 | 1,233,000 | 0.90% | 3.23% | |
| 5020-020-01 | Retirement CalPERS - Classic | ASM | 975,200 | 894,179 | 145,700 | 1,120,900 | 14.94% | | Employer contributions for CalPERS 2.7% @ 55 for Classic employee retirement program. The FY 19 employer contribution rate is 12.212% for Classic employees and FY 19 includes a \$598K UAL (unfunded accrued liability) payment. The 8% Employer Paid Member Contribution (EPMC) was eliminated from the FY 18 Budget. |
| 5020-021-01 | Retirement CalPERS- PEPRA | ASM | 55,400 | 54,183 | 18,700 | 74,100 | 33.75% | | Employer contributions for CalPERS 2% @ 62 retirement program for PEPRA employees hired after January 1, 2013. The FY 19 employer PEPRA contribution rate is 6.842%. |
| 5020-022-01 | Retirement CalPERS- Survivors | ASM | 2,700 | 2,700 | - | 2,700 | 0.00% | 0.00% | Annual Survivors Benefit premium. |
| 5020-030-01 | Retirement - SS / Medicare | ASM | 84,000 | 78,949 | 300 | 84,300 | 0.36% | 6.78% | Employer's 1.45% share of Medicare for all employees. |
| 5030-010-01 | Benefits-CalPERS Medical | ASM | 908,500 | 938,035 | 75,100 | 983,600 | 8.27% | | Budget based upon current CalPERS Kaiser family rate effective January through December 2018, and an estimated 4.5% premium increase for January through June 2019. |
| 5030-001-01 | Benefits-Dental | ASM | 117,000 | 107,831 | 6,100 | 123,100 | 5.21% | | Employer paid dental benefits. |
| 5030-003-01 | Benefits-Life Insurance, AD&D, LTD | ASM | 25,100 | 27,541 | 3,600 | 28,700 | 14.34% | | Employer paid life, accidental death & dismemberment, and long-term disability insurances. |
| 5030-004-01 | Benefits-Vision | ASM | 11,600 | 11,783 | 900 | 12,500 | 7.76% | 6.09% | Employer paid vision benefits. |
| 5030-015-01 | Benefits-PEHP | ASM | 34,600 | 33,516 | 11,700 | 46,300 | 33.82% | | PEHP: Post Employment Health Plan. Employer contribution of 1.5% of base salary for 24 employees (FY 18 was 20 employees). Budget increase is a function of salary adjustments, and is offset by the administrative fee being included in the Benefit Administrative Fees account 5050-001-01. |
| 5030-020-01 | Retired Employees Medical Benefits | ASM | 198,200 | 191,823 | 6,300 | 204,500 | 3.18% | | Medical benefits for retired employees at the SF-Bay Area PERS Kaiser single rate. The spouses of four former SRSD employees who transferred to CMSA also receive medical benefits. In FY 18 there is one new and four anticipated retirees. The increase is offset by two additional retirees turning age 65 with a consequent enrollment in the lower cost Medicare supplement plans. |
| 5030-025-01 | Annual OPEB Contribution | ASM | 107,400 | 107,314 | (64,300) | 43,100 | -59.87% | | Prefunding of the Agency's post-employment health benefit obligations for current retirees and employees. The prefunding amount is the annual FY 18 estimated OPEB expense in the Agency's January 1, 2015 GASB actuarial report minus retiree medical premiums. |

Line Item Accounts

*Position Code

GM General Manager

ASM Administrative Services Manager

OS Operations Supervisor

ISA Information Systems Analyst

AE Assistant Engineer

AA Administrative Assistant

| ADIVIIIVID | TRATION | | | | | | | | |
|-----------------------|--|------------|------------------|------------------|----------|------------------|--|---|--|
| | | | | | FY 18-19 | | % Change FY19 Proposed Budget | % Change FY19 Proposed Budget From | |
| | | | FY 17-18 | FY 17-18 | Proposed | FY 18-19 | from FY18 | FY18 | |
| | A | ** | Adopted | Projected Year | Budget | Proposed | Adopted | Projected Year | P. d. of Provide Provi |
| Account # 5050-000-01 | Account Name Unemployment | *By ASM | Budget 10,000 | End Expenditures | Change - | Budget 10,000 | Budget 0.00% | End O 00% A | Budget Account Description n allowance for unemployment benefits paid to State Employment |
| 3030-000-01 | Benefits Claimed | ASIVI | 10,000 | - | - | 10,000 | 0.00% | | revelopment Department (EDD) for claims filed by separated employees. |
| 5050-001-01 | Benefit Adminstration Fees | ASM | 6,400 | 4,671 | 1,500 | 7,900 | 23.44% | | dministrative fees charged for medical, MARA, and NAVIA Flex 125 plans. |
| 5060-000-01 | Uniforms | AE | 25,000 | 16,560 | (8,000) | 17,000 | -32.00% | m | ontracted service to provide uniforms, jackets, fire resistant clothing and niscellaneous related work clothing for staff, and towel and floor mat leaning services. |
| Subtotal Ben | | | 2,561,100 | 2,469,085 | 197,600 | 2,758,700 | 7.72% | | |
| Total Salarie | s & Benefits | | 3,783,100 | 3,663,480 | 208,600 | 3,991,700 | 5.51% | 8.96% | |
| INSURANCE | | | | | | | | | |
| 6800-010-01 | Property Insurance | ASM | 58,400 | 49,921 | (3,400) | 55,000 | -5.82% | N | nnual property insurance coverage from the California Sanitation Risk flanagement Authority (CSRMA) for all Agency buildings and structures. The ecrease is based on FY 18 actual plus 10% per CSRMA's recommendation. |
| 6800-020-01 | General Liability & Auto Insurance | ASM | 48,700 | 41,108 | (5,500) | 43,200 | -11.29% | 0 | SRMA pooled insurance coverage for general, automobile, and error and mission liability premiums. FY 19 decrease is based on FY 18 actual plus a % increase recommended by CRSMA. |
| 6800-030-01 | Pollution Liability Insurance | ASM | 1,100 | 1,843 | | 1,100 | 0.00% | u | SRMA pollution liability insurance for cleanup costs resulting from nderground fuel storage tank system leaks and releases and other pollution aused losses. |
| 6800-040-01 | Employee/ Commissioner's Bonds | ASM | 2,200 | 1,944 | | 2,200 | 0.00% | to | SRMA public official bonds for four Agency employees who are authorized o sign Agency checks, and includes employees who handle agency funds uch as petty cash. |
| 6800-050-01 | Commercial Crime Insurance | ASM | 800 | 625 | - | 800 | 0.00% | in | his insurance covers instances of public employee dishonesty. It is needed to cover all employees not covered under the employee/public fficial bonds. |
| 5040-000-01 | Workers' Compensation Insurance | ASM | 150,000 | 133,593 | (1,500) | 148,500 | -1.00% | 11.16% C | SRMA workers' compensation (WC) insurance for Agency employees. |
| Subtotal Insu | urance | | 261,200 | 229,035 | (10,400) | 250,800 | -3.98% | 9.50% | |
| CENEDAL AD | MINISTRATIVE | | | | | | | | |
| | Meetings/Training | GM | 5,200 | 3,115 | - | 5,200 | 0.00% | p | expenses associated with staff travel, training, and attendance at single-day rofessional meetings and seminars. Includes allowed expenses pursuant to the Agency's travel expense reimbursement policy. |
| 6700-020-01 | Conferences | GM | 25,000 | 14,008 | - | 25,000 | 0.00% | 78.47% E | xpenses associated with staff attendance at multi-day professional onferences, seminars, and training events outlined in the Agency's travel xpense reimbursement policy. |
| 6710-010-01 | Commissioners Meeting Fees & Conferences | GM | 11,600 | 6,100 | (1,600) | 10,000 | -13.79% | \$: | ursuant to Commission compensation policy, CMSA Commissioners received 100 per day of service. There is an allowance for Commissioners onference attendance. |

Line Item Accounts

*Position Code

GM General Manager

ASM Administrative Services Manager

OS Operations Supervisor

ISA Information Systems Analyst

AE Assistant Engineer

AA Administrative Assistant

| ADMINIS | TRATION | | | | | | | | |
|-------------|---|-----|---------------------|----------------------------|--------------------------------|----------------------|--|---|---|
| | | | FY 17-18 Adopted | FY 17-18 Projected Year | FY 18-19 Proposed Budget | FY 18-19 Proposed | % Change FY19 Proposed Budget from FY18 Adopted | % Change FY19 Proposed Budget From FY18 Projected Year | |
| Account # | Account Name | *By | Budget | End Expenditures | Change | Budget | Budget | End | Budget Account Description |
| 6805-000-01 | Professional Affiliation Memberships | ASM | 4,400 | 2,950 | - | 4,400 | 0.00% | 49.15% | Professional memberships, license and registration requirements for department staff. |
| 6805-001-01 | BACWA Membership | GM | 8,000 | 8,040 | 100 | 8,100 | 1.25% | 0.75% | Annual membership dues to the Bay Area Clean Water Agencies (BACWA). BACWA is comprised of 5 members and over 25 associate members, such as CMSA. |
| 6805-011-01 | BACWWE Education Program | GM | 8,000 | 8,000 | - | 8,000 | 0.00% | 0.00% | Agency sponsorship for the Bay Area Consortium for Water & Wastewater Education Program. The consortium is comprised of 20 partnering agencies. |
| 6805-002-01 | NBWA Membership | GM | 6,000 | 8,436 | - | 6,000 | 0.00% | -28.88% | Annual membership dues to the North Bay Watershed Association (NBWA), which is comprised of 16 governmental agencies from the North San Pablo Bay watershed. |
| 6805-003-01 | CASA Membership | GM | 16,000 | 16,068 | 100 | 16,100 | 0.63% | 0.20% | Annual membership dues to the California Association of Sanitation Agencies (CASA). |
| 6805-004-01 | NACWA Membership | GM | 12,500 | 10,400 | (1,500) | 11,000 | -12.00% | 5.77% | Annual membership dues to the National Association of Clean Water Agencies (NACWA). NACWA represents the wastewater industry nationwide on regulatory and legislative issues. |
| 6805-005-01 | Bay Area Biosolids Coalition | GM | 12,500 | 3,250 | (1,500) | 11,000 | -12.00% | 238.46% | Agency membership for SF Bay Area Biosolids-to-Energy coalition, which is comprised of 19 regional wastewater agencies. |
| 6815-000-01 | Office Expenses | AA | 29,500 | 33,769 | 5,500 | 35,000 | 18.64% | 3.65% | Costs associated with the Agency's administrative operations, including office supplies, copier lease, office furniture, office equipment service and repairs, and other related expenses. |
| 6815-001-01 | Safety Supplies | OS | 37,300 | 12,447 | (9,500) | 27,800 | -25.47% | 123.35% | 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. |
| 6815-002-01 | Information Technology Equipment & Software | ISA | 26,400 | 23,382 | 10,800 | 37,200 | 40.91% | 59.10% | Expenses related to Information Technology equipment and software licenses and upgrades. Account 6815-003-05 Software License & Support has been transferred from Technical Services into Administration. |
| 6820-000-01 | Printing & Publications | AA | 3,000 | 992 | (1,000) | 2,000 | -33.33% | 101.64% | Expenses associated with newspaper subscriptions, publication of notices, and copy services at local print shops. |
| 6830-001-01 | General Professional Services | GM | 51,000 | 42,904 | - | 51,000 | 0.00% | 18.87% | Expenses for general governmental and human resource services such as recruitments, background reference checks, and employment law staff training and development. |
| 6830-002-01 | Regulatory Services | GM | 51,000 | 43,000 | (41,000) | 10,000 | -80.39% | -76.74% | Consultation and advice on regulatory compliance and permit issues. |
| 6830-005-01 | Finance & Audit Services | ASM | 25,300 | 25,350 | 2,700 | 28,000 | 10.67% | 10.46% | Expenses for professional services related to the financial operations of the Agency: annual audit of financial statements; annual maintenance fee for financial software license renewal and financial software support; GFOA Award program fees; actuarial, financial and operational analyses. |
| 6830-010-01 | Labor Relations Consulting | GM | 9,400 | 9,384 | 400 | 9,800 | 4.26% | 4.43% | IDEA annual fee for labor relations and negotiations services. Budget adjusted to align with actual anticipated expense. |

Line Item Accounts

*Position Code

GM General Manager

ASM Administrative Services Manager

OS Operations Supervisor

ISA Information Systems Analyst

AE Assistant Engineer

AA Administrative Assistant

| Account # | Account Name | *By | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget Change | FY 18-19 Proposed Budget | % Change FY19 Proposed Budget from FY18 Adopted Budget | % Change FY19 Proposed Budget From FY18 Projected Year- End | Budget Account Description |
|--------------|--|--------|-------------------------------|--|--|--------------------------------|--|---|---|
| 6830-015-01 | Legal Services | GM | 30,000 | 25,793 | - | 30,000 | 0.00% | 16.31% | Expenses for general, employment law, and contruction/contract legal services. |
| 6830-016-01 | Health & Safety Program, CMSA Share | ASM | 36,300 | 19,665 | 1,700 | 38,000 | 4.68% | 93.23% | Program non-salary costs. The remaining 39.75% of the Health & Safety Program non-salary costs. The remaining 39.75% of the Health & Safety Program budget is included in Non-Agency Expenses. The budget also includes CMSA's equally shared cost of the NSD's .25 FTE equivalent Administrative/Risk Services & Safety Officer. |
| 6830-017-01 | Outside Safety Training Services | ASM | 13,100 | 13,886 | (7,500) | 5,600 | -57.25% | -59.67% | Training expenses for required safety programs that include hearing tests, first-aid/CPR, incident command training, traffic control, defensive driving, and many other Cal/OSHA programs that facilitate a safe work environment. Budget increase is for ARC Flash and Qualified Employee Electrical trainings. |
| 6830-025-01 | Employee Assistance Services | AA | 2,000 | 2,250 | 2,500 | 4,500 | 125.00% | 100.00% | Confidential professional counseling benefit provided to employees. The fee is increased annually. |
| 6830-060-01 | Employee Health Maintenance Services | AA | 2,500 | 1,820 | 500 | 3,000 | 20.00% | 64.85% | Expense for workplace safety related physicals, pre-employment exams, and urgent care at Kentfield Medical Clinic. |
| 6840-010-01 | Internet & Telephone Service | ISA | 23,900 | 24,500 | 4,800 | 28,700 | 20.08% | 17.14% | Expenses associated with telephone, internet and email services, including cell phones, portable radios, and data plan expenses for Agency staff. |
| 6855-000-01 | Postage/Shipping | AA | 5,900 | 1,823 | (3,400) | 2,500 | -57.63% | 37.11% | Postage, postage meter rental, and overnight shipping expense. |
| 6859-000-01 | Bank Fees & Analysis Charges | ASM | 2,300 | 1,036 | (800) | 1,500 | -34.78% | 44.74% | Bank fees and investment expenses for California Asset Management Program and Westamerica Bank accounts. Finance charges and late payment fees. |
| 6859-000-10 | Bank Fees - Revenue Bond | ASM | 2,100 | 2,118 | 7 | 2,100 | 0.00% | -0.84% | Bank fees for the Refunding Revenue Bonds Series 2015. |
| 6860-000-01 | Trade Discounts | ASM | - | 916 | | - | 0.00% | -100.00% | Account used to record vendor payment discounts received and taken for paying bills within payment terms. |
| 6890-010-01 | Contingency | GM | 50,000 | | | 50,000 | 0.00% | 0.00% | Funds available for transfer to other operating budget accounts for unplanned and unanticipated activities. Transfers from this account require GM approval. |
| 6990-000-01 | Other Non-Operating Expenses | ASM | | | - | - | 0.00% | 0.00% | No budget. Account used for accounting adjustments such as general ledger account reconciliations, prior year audit adjustments, and expenditures associated with prior year activities such as unexpected bills received for prior fiscal year goods and services as well as service charge refunds. |
| Subtotal Ger | neral & Administrative | | 510,200 | 365,400 | (38,700) | 471,500 | -7.59% | 29.04% | , , , |
| Subtotal (ex | xcluding Salary and Bene | efits) | 771,400 | 594,435 | (49,100) | 722,300 | -6.37% | 21.51% | |
| Total Admin | istration | | 4,554,500 | 4,257,915 | 159,500 | 4,714,000 | 3.50% | 10.71% | |

Maintenance

The Maintenance Department is responsible for maintaining Agency facility assets which include buildings, grounds, vehicles, and treatment plant specific facilities and associated equipment. Certified mechanical technicians and utility workers perform a wide variety of preventative and corrective maintenance and repair work on all Agency assets. The Electrical and Instrumentation group is responsible for maintaining the Agency's process control systems, electrical and instrumentation equipment, and various electro-mechanical systems, and supports maintenance of communication systems, and information technology infrastructure. The department utilizes an enterprise asset management system for scheduling corrective and preventive maintenance, to manage its fixed assets, and to track repairs and maintenance activities with their associated costs.

Under contractual service agreements with the California Department of Corrections (San Quentin), County of Marin, and Sanitary District #2 of Marin, the department maintains collection system assets such as pump stations, force mains, and gravity sewers.

| Maintenance Expenditures by Category | FY 16-17 Adopted Budget | FY 17-18 Adopted Budget | FY 18-19 Proposed Budget |
|--------------------------------------|----------------------------|----------------------------|-----------------------------|
| SALARIES | \$1,482,900 | \$1,609,500 | \$1,534,300 |
| SUBTOTAL | \$1,482,900 | \$1,609,500 | \$1,534,300 |
| LUBRICANTS, PROPANE, OTHER | 6,000 | 6,000 | 6,000 |
| MAINTENANCE & REPAIRS | 376,500 | 376,500 | 357,500 |
| GENERAL & ADMINISTRATIVE | 15,700 | 16,700 | 21,100 |
| SUBTOTAL | \$ 398,200 | \$ 399,200 | \$ 384,600 |
| TOTAL | \$1,881,100 | \$2,008,700 | \$1,918,900 |

| Authorized Positions | FY 16-17 | FY 17-18 | FY 18-19 |
|--|----------|----------|----------|
| Maintenance Supervisor | 1 | 1 | 1 |
| Assistant Maintenance Supervisor | 1 | 1 | 1 |
| Maintenance Lead | 1 | 1 | 1 |
| Maintenance Repair | 1 | 1 | - |
| Mechanical Technician | 4 | 4 | 5 |
| Utility Worker | 3 | 3 | 3 |
| Assistant Maintenance Supervisor-(E/I)** | 1 | 1 | - |
| Electrical/Instrumentation Tech | 2 | 2 | 3 |
| TOTAL | 14 | 14 | 14 |

^{*} The Maintenance Repair position was replaced with an additional Mechanical Technician position

^{**} The Assistant Maintenance Supervisor-(E/I) retired in FY 18 and the position is being replaced by an additional Electrical/Instrumentation Tech

Line Item Accounts

*Position Code

ASM Administrative Services Manager TPM Treatment Plant Manager MS Maintenance Supervisor

EIT Electrical Instrumentation Technician

MAINTENANCE

| Account # | Account Name | *Ву | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget Change | FY 18-19 Proposed Budget | % Change FY19 Proposed Budget from FY18 Adopted Budget | % Change FY19 Proposed Budget From FY18 Projected Year- End | Budget Account Description |
|---------------|-------------------------------------|-----|-------------------------------|--|--|--------------------------------|--|---|--|
| SALARIES & | WAGES | | | | | | | | |
| 5010-010-03 | Salaries, Wages & Compensation | ASM | 1,554,300 | 1,459,254 | (78,000) | 1,476,300 | -5.02% | | Salaries for 14 full-time employees. FY19 includes a 3% COLA salary increase for represented and unrepresented employees, seven step adjustments and leave balance cash-outs. Decrease due to one retirement replaced with entry level position and elimination of the merit program. |
| 5010-103-10 | Transfer to CIP | ASM | (33,300) | (19,324) | - | (33,300) | 0.00% | | Transfer of salary expenses for staff assigned to CIP funded projects (.32 FTE). |
| 5010-020-03 | Overtime | TPM | 33,300 | 33,300 | 1,100 | 34,400 | 3.30% | | Authorized overtime to complete unexpected maintenance activities or assignments that require work after an employee's regularly scheduled shift. Budget increase due to salary adjustments plus anticipated comp-time cashed out. |
| 5010-021-03 | Stand-by Duty | TPM | 55,200 | 55,149 | 1,700 | 56,900 | 3.08% | 3.17% | 24/7 Stand-by duty for qualified maintenance staff to respond to emergency repair work and equipment failures. Pursuant to MOU and personnel policies, employees are paid to remain fit for duty and to respond within 1 hour when called. Sanitary District #2 funds one half of this expense. FY 19 increase is function of salary and step increases. |
| Subtotal Sala | aries & Wages | | 1,609,500 | 1,528,379 | (75,200) | 1,534,300 | -4.67% | | · · |
| MAINTENAN | ICE & REPAIRS (M&R) | | | | | | | | |
| 6400-030-03 | Lubricants, Propane, Other | MS | 6,000 | 6,005 | - | 6,000 | 0.00% | | Lubricants used for facility assets and equipment (cogeneration and stand- by power systems excluded), propane for the forklift, and welding and calibration gases. |
| 6500-000-03 | Utility Supplies | MS | 7,000 | 6,889 | - | 7,000 | 0.00% | 1.61% | Janitorial and general facility maintenance cleaning supplies. |
| 6510-001-03 | Outside Services & Parts | TPM | 30,000 | 29,772 | - | 30,000 | 0.00% | | Service repair costs performed by outside providers for machining, fabrication, vacuum services, specialty repair work, and related parts, equipment, and supplies. |
| 6510-004-03 | Fleet Maintenance | MS | 20,000 | 19,982 | (5,000) | 15,000 | -25.00% | | 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 10 vehicles, two forklifts, a skid steer loader, 15 electric carts, and 7 bicycles. |
| 6510-007-03 | Hazardous Waste Disposal Service | MS | 25,000 | 24,490 | - | 25,000 | 0.00% | 2.08% | Safe disposal of wastes such as oils, greases, oil and air filters, coolants, paints, solvents, light bulbs, batteries, and air purification medias (siloxane, hydrogen sulfide, and activated carbon). |
| 6510-008-03 | Facilities Maintenance | MS | 20,000 | 19,855 | 2,000 | 22,000 | 10.00% | | Planned preventive and corrective repairs to maintain non-process specific facility structures such as roof and gutter systems, doors and door hardware, flooring, and painted surfaces (outside contractors if specialty work is required). This budget also includes funds for facility pest control services. |

Line Item Accounts

*Position Code

ASM Administrative Services Manager TPM Treatment Plant Manager MS Maintenance Supervisor

EIT Electrical Instrumentation Technician

MAINTENANCE

| | | | FY 17-18 Adopted | FY 17-18 Projected Year | FY 18-19 Proposed Budget | FY 18-19 Proposed | - | % Change FY19 Proposed Budget From FY18 Projected Year- | |
|-------------|---|-----|---------------------|----------------------------|--------------------------------|----------------------|---------|--|---|
| Account # | Account Name | *By | Budget | End Expenditures | Change | Budget | Budget | End | Budget Account Description |
| 6510-009-03 | Electrical Equipment | EIT | 23,000 | 22,775 | - | 23,000 | 0.00% | | 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). |
| 6510-010-03 | Plant Pumps | MS | 18,000 | 17,915 | 7,000 | 25,000 | 38.89% | | Allowance for routine consumable parts and equipment such as impellors, gasket material, and volutes. |
| 6510-011-03 | Process Tank Maintenance | MS | 20,000 | 19,980 | - | 20,000 | 0.00% | | Allowance for routine consumable parts and equipment for facility process tanks and the primary heat exchange (excludes heat exchangers utilized by the cogeneration system). |
| 6510-012-03 | Centrifuge Maintenance | MS | 20,000 | 19,957 | (10,000) | 10,000 | -50.00% | | Consumable items for annual preventive and corrective maintenance for three centrifuges and their system components. |
| 6510-013-03 | Process (Filter) Media Replacement | MS | 25,000 | 24,379 | | 25,000 | 0.00% | | Biogas and air purification media for facility equipment. Budget is for the purchase of media for one sulftreat vessel, one siloxane filter, and one activated carbon odor scrubber replacement per year. |
| 6510-014-03 | Organic Waste Receiving Facility | MS | 45,000 | 55,824 | (5,000) | 40,000 | -11.11% | | Allowance for consumable items required for maintaining the Organic Waste Receiving Station. The FY 19 budget assumes performing two complete mixing pump impellor/cutter bar changeouts, purchasing one set of paddle finisher screens, six spare hoses, glycerin, rock trap grinder parts, and other critical spare inventory items. |
| 6510-015-03 | Boilers and Hot-water Systems | MS | 8,000 | 8,217 | | 8,000 | 0.00% | | Consumable items required for maintaining two dual fueled hot water boilers and the 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. |
| 6510-016-03 | Effluent Pump Station | MS | 8,000 | 4,825 | (3,000) | 5,000 | -37.50% | | Allowance for parts and consumable items within the Effluent Pump Station and its above ground diesel tank. Includes pump and engine parts, driveshafts, fuel conveyance, diesel storage tanks, motor controls, and fire protection systems. |
| 6510-020-03 | Cogen/Emergency Generator Maintenance | MS | 50,000 | 49,829 | - | 50,000 | 0.00% | | Routine parts and equipment for scheduled cogeneration system and standby diesel generator maintenance. The budget assumes four 2,000 hour maintenance procedures on the cogeneration system and one annual maintenance procedure on the emergency standby diesel generator. |
| 6520-000-03 | Groundskeeping | MS | 45,000 | 40,480 | (5,000) | 40,000 | -11.11% | | Facility landscaping services and supplies to maintain the Agency's property. Services include fire-defensible space maintenance, weed abatement, and clean-up project work. In FY18, CMSA began participating in the CoM AOWP. This line has been reduced in FY19 as services that normally would be completed by contractors will now be performed by program participants. |
| 6530-000-03 | Small Tools & Equipment | MS | 12,500 | 12,392 | - | 12,500 | 0.00% | | Purchase and repair of hand, power, and pneumatic tools utilized in the day- to-day maintenance of assets and equipment. |

Line Item Accounts

*Position Code

ASM Administrative Services Manager TPM Treatment Plant Manager MS Maintenance Supervisor

EIT Electrical Instrumentation Technician

MAINTENANCE

| Account | | *By | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget Change | FY 18-19 Proposed Budget | Budget | % Change FY19 Proposed Budget From FY18 Projected Year- End | Budget Account Description |
|-------------|--------------------------------------|-------|-------------------------------|--|--|--------------------------------|---------|---|---|
| Subtotal N | Naintenance & Repairs | | 382,500 | 383,565 | (19,000) | 363,500 | -4.97% | -5.23% | |
| GENERAL 8 | & ADMINISTRATIVE | | | | | | | | |
| 6700-010-03 | 3 Meetings/Training | TPM | 4,000 | 3,999 | - | 4,000 | 0.00% | | 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. |
| 6700-020-03 | 3 Conferences | TPM | 8,000 | 9,002 | 4,500 | 12,500 | 56.25% | | Expenses associated with multi-day professional conferences, seminars, and training events outlined in the Agency's travel and expense reimbursement policy. The increase in this line accounts for one person attending WEFTEC 2018, two technicians attending a two-day Nexgen Systems training course, and one technician attending a multi-day Leadership academy. One E/I Technician will also attend specialized classification training this year. |
| 6805-000-03 | Professional Affiliation Memberships | TPM | 4,400 | 4,052 | - | 4,400 | 0.00% | | Professional memberships and annual certification renewal fees for 14 maintenance and electrical / instrumentation technicians. |
| 6830-030-03 | 3 Underground Service Alert (USA) | MS | 300 | 81 | (100) | 200 | -33.33% | | Annual Underground Service Alerts fee to identify utility locations prior to any type of digging or excavation work. |
| Subtotal G | eneral & Administrative | | 16,700 | 17,1 34 | 4,400 | 21,100 | 26.35% | 23.15% | |
| Subtotal | (excluding Salary and Bene | fits) | 399,200 | 400,699 | (14,600) | 384,600 | -3.66% | -4.02% | |
| Total Mair | ntenance | | 2,008,700 | 1,929,078 | (89,800) | 1,918,900 | -4.47% | -0.53% | |

Operations

The Operations Department performs various activities essential to the day-to-day operation and process control of the Agency's National Clean Water Agency (NACWA) recognized Class V regional wastewater treatment facility. The treatment, reuse, and disposal of wastewater is in full compliance with state and federal National Pollutant Discharge Elimination System (NPDES) permit requirements.

The department is responsible for the following functions:

- Monitor and adjust treatment processes
- Ensure facilities are operated to achieve and exceed permit compliance
- Monitor local agency pump stations and related assets
- Order treatment chemicals and maintain inventories
- Conduct pilot testing and studies to improve and/or optimize treatment
- Monitor and operate systems to control the generation of wastewater odors
- Track the performance of all treatment and energy generation systems
- Operate an organic waste receiving facility
- Operate a power generation system
- Oversee and operate the Agency's recycled water truck fill facility

| Operations Expenditures by Category | FY 16-17 Adopted Budget | FY 17-18 Adopted Budget | FY 18-19 Proposed Budget |
|-------------------------------------|----------------------------|----------------------------|-----------------------------|
| SALARIES | \$1,577 ,400 | S1,678,600 | S1,734,400 |
| SUBTOTAL | \$1,577 ,400 | S1,678,600 | \$1,734,400 |
| CHEMICALS & FUELS | 1,146,800 | 1,069,500 | 1,126,900 |
| UTILITIES | 372,600 | 350,500 | 311,200 |
| GENERAL & ADMINISTRATIVE | 77,000 | 52,000 | 64,000 |
| SUBTOTAL | \$1,596,400 | S1,472,000 | S1,502,100 |
| TOTAL | \$3,173,800 | S3,150,600 | S3,236,500 |

| Authorized Positions | FY 16-17 | FY 17-18 | FY 18-19 |
|----------------------------------|----------|----------|----------|
| Operations Supervisors | 2 | 2 | 2 |
| Assistant Operations Supervisor* | - | - | 1 |
| Lead Operators | 2 | 2 | 1 |
| Operators (Trainee, I-III) | 9 | 9 | 9 |
| TOTAL | 13 | 13 | 13 |

The Board approved the Assistant Operations Supervisor position in FY 17-18 to allow implementation of the Operations Department's succession plan.

Line Item Accounts

*Position Code

ASM Administrative Services Manager

AOS Assistant Operations Supervisor

OS Operations Supervisor
TPM Treatment Plant Manager

OPERATIONS

| OPERATION | UNS | | | | | | | 0/ Cl- | | |
|---------------|----------------------------------|-----|-------------------------------|--|--|---|--------------------------------|--|--|--|
| Account # | Account Name | *Bv | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget Change | FY 18-19 Proposed Budget (INPUT Annual Budget) | FY 18-19 Proposed Budget | % Change FY19 Proposed Budget from FY18 Adopted Budget | % Change FY19 Proposed Budget From FY18 Projected Year-End | Budget Account Description |
| | | | Duuget | End Expenditures | change | Daugety | Duuget | Duuget | Tear Eria | Budget Account Beschption |
| SALARIES & V | | | | | | | | | | |
| 5010-010-04 | Salaries, Wages & Compensation | ASM | 1,554,300 | 1,442,358 | 59,300 | 1,613,562 | 1,613,600 | 3.82% | r le | Salaries for 13 full-time employees. Includes a COLA increase of 3% for represented and unrepresented employees, two step adjustments, and eave balance cash-outs. Increase due to adding Assistant Operations Supervisor and step adjustments. |
| 5010-104-10 | Transfer to CIP | ASM | (16,700) | - | - | (16,700) | (16,700) | 0.00% | 0.00% T | Transfer of salary expenses for staff assigned to CIP funded projects (.14 -TE). |
| 5010-020-04 | Overtime | OS | 122,200 | 108,470 | 3,800 | 125,900 | 126,000 | 3.11% | a | Authorized overtime to ensure facilities are properly staffed 24 hours/day and to complete specified activities or assignments. Budget increase includes competime taken or cashed-cout converted to overtime. |
| 5010-022-04 | OPS Wet Weather Stand-by Duty | TPM | 18,800 | 1,662 | (7,300) | 11,500 | 11,500 | -38.83% | 592.04% 2 v p | 24/7 Stand-by duty provided by qualified operations staff during the wet weather season (November-April). Pursuant to MOU and personnel policies, employees are paid to remain fit for duty and must respond within thour after being called in for emergency situations. |
| Subtotal Sala | aries & Wages | | 1,678,600 | 1,552,489 | 55,800 | 1,734,262 | 1,734,400 | 3.32% | 11.72% | THOU SILE SELLE COLOR III IS CHICKELO SICALIONS |
| CHEMICALS 8 | Q. ELIEI | | | | | | | | | |
| 6100-010-04 | Ferric Chloride | OS | 65,800 | 87,402 | 15,700 | 81,500 | 81,500 | 23.86% | s d c a | 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. This budget is based upon annual usage over the past four years, which averaged 135 dry tons. Increased expense due to higher ferric chloride unit cost for FY19. |
| 6100-020-04 | Polymer-Cationic | OS | 104,800 | 108,488 | 5,200 | 110,000 | 110,000 | 4.96% | 1.39% F s t ii | 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. The increase in this line is attributed to the actual usage of solymer which has increased to three deliveries per year. |
| 6100-030-04 | Odor Control | OS | 19,000 | 9,435 | (4,000) | 15,000 | 15,000 | -21.05% | v | A chemical agent used to mask odorous compounds produced by some wastewater processes. Odorants are delivered in 55 gallon barrels. The FY15 budget is based on a four year average use of 10 barrels. |
| 6100-040-04 | Calcium Nitrate | OS | 294,900 | 227,119 | (18,900) | 276,000 | 276,000 | -6.41% | 21.52% C ii N | Calcium nitrate salts are the first of a two-phase odor control system used in the collection system upstream of the wastewater treatment plant. Nitrate injection in strategic locations inhibits hydrogen sulfide formation. Use is projected at 120K gallons for FY19. |
| 6100-050-04 | Hydrogen Peroxide | OS | 220,000 | 240,447 | 10,000 | 230,000 | 230,000 | 4.55% | -4.34% F ii b | hydrogen peroxide is the second phase of the odor control system. It is njected into the system interceptors upstream of the headworks. The budget is based on the amount of hydrogen peroxide solution used in the ecent four years and is projected at 105K gallons for FY19. |

Line Item Accounts

*Position Code

ASM Administrative Services Manager

AOS Assistant Operations Supervisor
OS Operations Supervisor

TPM Treatment Plant Manager

OPERATIONS

| OPERATIO | DINO | | | | | | | 0/ Chanca | | |
|--------------------------|----------------------------------|-----------|---------------------|-----------------------------|--------------------------------|--|----------------------|--------------------------------|---|---|
| | Assessed Nove | *n | FY 17-18 Adopted | FY 17-18 Projected Year | FY 18-19 Proposed Budget | FY 18-19 Proposed Budget (INPUT Annual | FY 18-19 Proposed | Budget from FY18 Adopted | % Change FY19 Proposed Budget From FY18 Projected | |
| Account # 6100-060-04 | Account Name Sodium Hypochlorite | *By OS | Budget 168,000 | End Expenditures 161,934 | Change 36,400 | Budget) 204,400 | 204,400 | Budget 21.67% | Year-End | Budget Account Description Sodium hypochlorite is is used for effluent and recycled water disinfection, |
| 6100-060-04 | зовит нуростопе | US | 168,000 | 101,934 | 36,400 | 204,400 | 204,400 | 21.07% | 20.22% | and in three treatment plant odor control scrubbers. The budget is based on the 4-year average use, and the increased expense is due to higher FY19 bid opening unit costs. It should be noted that the price per gallon for hypochlorite has increased 54.6% in past two BACC bid cycles. |
| 6100-070-04 | Sodium Bisulfite | OS | 180,200 | 177,667 | 14,800 | 195,000 | 195,000 | 8.21% | | Sodium bisulfite is used to neutralize the chlorine residual in the effluent prior to its discharge into the San Francisco Bay. The budget is based upon continued increased usage over recent years to ensure the Agency's NPDES permit limits are met. The budget estimate is for 170K gallons during FY19. It should be noted that the price per gallon for bi-sulfite solution has increased 24.0% in past two BACC bid cycles. |
| 6400-020-04 | Gasoline, Diesel, Oil, & Fuel | OS | 16,800 | 13,134 | (1,800) | 15,000 | 15,000 | -10.71% | | Gasoline for vehicles and landscaping equipment, and diesel for emergency diesel fueled generators, and the effluent pump station pumps. This budget accounts for 2,000 gallons of gasoline and 3,000 gallons of diesel. The decrease in price is based on projected 2018-2019 fuel prices. |
| Subtotal Che | micals & Fuel | | 1,069,500 | 1,025,627 | 57,400 | 1,126,900 | 1,126,900 | 5.37% | 9.87% | |
| UTILITIES | | | | | | | | | | |
| 6835-010-04 | Natural Gas | os | 40,000 | 35,027 | (2,700) | 37,224 | 37,300 | -6.75% | | Supplemental fuel for the cogeneration system, and fuel for the boilers when the cogen system is offline. This budget is based on purchasing 6,600 therms per month at an estimated cost of \$0.47/therm delivered. This line also accounts for the expected increase in biogas consumption, cogeneration system power factor adjustment, to comply with local utility requirments in order to export unused power to the electricity grid. Taking into account the above requirement, CMSA expects an overall reduction in purchasing NG from the spot market this fiscal year as the cogeneration system typically operates at approximately 22+ hours a day on Agency produced biogas. |
| 6835-020-04 | Electricity | OS | 204,000 | 186,235 | (9,600) | 194,400 | 194,400 | -4.71% | 4.38% | Electricity to supplement the cogeneration system output and to supply power when the cogenerator is offline for maintenance. The decrease in this budget line is based on 24K Kwh/month, the average amount of electricity purchased in FY18. This line also takes into consideration an anticipated 2.0% increase in the current rate schedule. Assumes 94.0% cogeneration system uptime per month. |
| 6835-030-04 | Water | AOS | 9,000 | 9,530 | 500 | 9,450 | 9,500 | 5.56% | -0.31% | Potable water for CMSA and the San Quentin junction box odor control facility. The Marin Municipal Water District doubled its service charge and implemented a new watershed managment fee in January 2017, and has also announced a series of 5% rate increases over the next several years. |

Line Item Accounts

*Position Code

ASM Administrative Services Manager

AOS Assistant Operations Supervisor

OS Operations Supervisor

TPM Treatment Plant Manager

OPERATIONS

| Account # 6835-040-04 | Account Name Garbage | *By AOS | FY 17-18 Adopted Budget 97,500 | FY 17-18 Projected Year End Expenditures 46,697 | FY 18-19 Proposed Budget Change (27,500) | FY 18-19 Proposed Budget (INPUT Annual Budget) 70,000 | FY 18-19 Proposed Budget 70,000 | % Change FY19 Proposed Budget from FY18 Adopted Budget -28.21% | | Budget Account Description Solid waste disposal for garbage, green waste, recycling, and debris box disposal of headworks screenings, grit, and non-recyclable wastes. Expenses associated with the quarterly cleaning, debris removal, of the OWRF were absorbed by MSS this past calendar year. The adjusted budget line reflects that change and also accounts for a 5.57% rate increase as of January 1, 2018. |
|----------------------------|--|------------|---|--|--|---|--|---|---------|--|
| Subtotal Utili | ties | | 350,500 | 277,490 | (39,300) | 311,074 | 311,200 | -11.21% | 12.15% | |
| GENERAL & A | DMINISTRATIVE | | | | | | | | | |
| 6210-000-04 6215-000-04 | Operations - General Process Control Consumable Supplies | TPM AOS | 6,000 | 5,850 | 10,000 | 6,000 10,000 | 6,000 10,000 | 0.00% 0.00% | 0.00% | Small tools, equipment, parts, and other miscellaneous supplies. Chemical reagents are substances used in a chemical reaction to detect, measure, examine, or produce other substances. CMSA uses chemical reagents to verify and/or determine the concentration of chlorine in treated wastewater. These chemicals are also use to assist in field instrument calibration, determine peroxide concentrations in wastewater, measure pH and measure sulfide levels in biogas. |
| 6700-010-04 | Meetings/Training | TPM | 5,000 | 4,453 | • | 5,000 | 5,000 | 0.00% | | Expenses associated with attendance at single-day professional meetings, seminars, and certification trainings. Includes allowed expenses pursuant to the Agency's expense reimbursement policy. |
| 6700-020-04 | Conferences | TPM | 4,500 | 7,043 | - | 4,500 | 4,500 | 0.00% | -36.11% | Expenses associated with multi-day professional conferences, seminars, and training events outlined in the Agency's travel and expense reimbursement policy. |
| 6805-000-04 | Professional Affiliation Memberships | TPM | 6,500 | 2,217 | (1,500) | 5,000 | 5,000 | -23.08% | | Professional memberships and certification renewal requirements for operators. The budget includes 13 annual membership renewals and 14 treatment plant operator certification renewal fees. |
| 6810-010-04 | BAAQMD Permit | TPM | 20,000 | 16,505 | (1,500) | 18,500 | 18,500 | -7.50% | 12.09% | Bay Area Air Quality Management District (BAAQMD) permit fees for the cogeneration engine, emergency engine, five effluent pump station engines, and fuel dispensers. The decrease in this line reflects the actual fees paid in FY18, but also takes into account proposed fee increases of 15% scheduled to take affect July 1, 2018. |
| 6830-001-04 | Professional Services: Process Control | TPM | 10,000 | 10,508 | 5,000 | 15,000 | 15,000 | 50.00% | 42.74% | Professional wastewater consulting services for evaluation of process control options for reliability, efficiency, and other improvements, and advice on process control issues, training of staff on process analysis, and conducting special studies. The increase in this budget line is for specialized Secondary System (Activated Sludge) Training. Assumes two full training days. |
| Subtotal Gen | eral & Administrative | | 52,000 | 46,577 | 12,000 | 64,000 | 64,000 | 23.08% | 37.41% | |
| Subtotal (ex | cluding Salary and Bene | fits) | 1,472,000 | 1,349,694 | 30,100 | 1,501,974 | 1,502,100 | 2.04% | 11.29% | |
| Total Operati | ions | | 3,150,600 | 2,902,183 | 85,900 | 3,236,236 | 3,236,500 | 2.73% | 11.52% | |

Technical Services

The Technical Services Department provides full engineering support for the Agency and is responsible for all regulatory compliance activities required by the Agency's National Pollutant Discharge Elimination System (NPDES) permit. Technical Services is responsible for the following functions:

- Designs small maintenance and capital projects and oversees the design of larger projects outsourced to engineering consulting firms.
- Manages construction contracts and projects and associated engineering and construction records.
- Assists with operational studies, and energy efficiency and greenhouse gas emission evaluations.
- Negotiates and administers the Agency's service and commodity contracts for employee uniforms, biosolids hauling and reuse, natural gas supply, and procurement of chemicals used in the wastewater and biosolids treatment processes.
- Chairs the Agency's Capital Improvement Planning Committee which develops, implements, and manages the Agency's 10-year Capital Improvement Program (CIP) and prepares the annual CIP budget with 10 year forecast.
- Assists with Underground Service Alert (U.S.A) utility locating services.
- Regulates commercial and industrial disposal of wastewater into the collection and treatment systems.
- Operates an accredited laboratory which performs the majority of routine testing required in the Agency's NPDES permit and oversees specialized outside analytical testing services.
- Provides regulatory enforcement and program administration services under contract with wastewater and other local agencies in Marin County for source control programs; storm water enforcement.
- Leads the Wastewater Treatment Agencies of Marin County Public Education Program.

| Technical Services Expenditures by Category | FY 16-17 Adopted Budget | FY 17-18 Adopted Budget | FY 18-19 Proposed Budget |
|---|----------------------------|----------------------------|-----------------------------|
| SALARIES | \$1,142,200 | \$ 891,700 | \$1,053,500 |
| SUBTOTAL | \$1,142,200 | \$ 891,700 | \$1,053,500 |
| BIOSOLIDS DISPOSAL | 373,920 | 387,700 | 400,300 |
| PERMIT TESTING & MONITORING | 168,800 | 179,500 | 148,800 |
| GENERAL & ADMINISTRATIVE | 356,360 | 289,900 | 823,000 |
| SUBTOTAL | \$ 899,080 | \$ 857,100 | \$ 872,100 |
| TOTAL | \$2,041,280 | \$1,748,800 | \$1,925,600 |

| Authorized Positions | FY 16-17 | FY 17-18 | FY 18-19 |
|--|----------|----------|----------|
| Technical Services Manager | 1 | 1 | 1 |
| Associate Engineer* | - | - | - |
| Assistant Engineer | 2 | 2 | 2 |
| Information Systems Analyst** | 1 | - | - |
| Environmental Services Manager*** | 1 | - | - |
| Laboratory Director*** | - | 1 | 1 |
| Environmental Laboratory Administrator | 1 | 1 | 1 |
| Laboratory Analyst**** | - | - | 1 |
| Environmental Services Analyst (I-II) | 3 | 3 | 3 |
| TOTAL | 9 | 8 | 9 |
| | | | |

^{*} The Associate and Assistant Engineer positions are flexibly staffed and an employee could be promoted to the associate position if the employee meets the job classification requirements.

^{**} Transferred to Administration department.

^{***} The Engineering and Environmental Services departments were reorganized during FY 16-17 into Technical Services. The Laboratory Director position was created to replace the eliminated Environmental Services Manager position.

^{****} To comply with the new environmental laboratory accreditation standards, the Board authorized creating a new Laboratory Analyst position in FY 17-18.

Line Item Accounts

*Position Code

GM General Manager

ASM Administrative Services Manager

TSM Technical Services Manager

LD Lab Director

TECHNICAL SERVICES

| Account # | Account Name | *By | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget Change | FY 18-19 Proposed Budget | % Change FY19 Proposed Budget from FY18 Adopted Budget | % Change FY19 Proposed Budget From FY18 Projected Year- End | Budget Account Description |
|---------------|--|-----|-------------------------------|--|--|--------------------------------|--|---|---|
| SALARY & W | AGES | | | | | | | | |
| 5010-010-05 | Salaries, Wages & Compensation | ASM | 1,010,000 | 862,512 | 168,700 | 1,178,700 | 16.70% | | Salaries for 9 full-time employees and includes a 3% COLA salary increase of for employees, 3 step adjustments, 1 potential promotion, 1 new laboratory analyst, and leave balance cash-outs. FY 18 under budget due to extended medical leave for two employees. |
| 5010-105-10 | Transfer to CIP | GM | (135,200) | (43,360) | - | (135,200) | 0.00% | | Transfer of salary expenses for staff assigned to CIP funded projects (.61 FTE). |
| 5010-020-05 | Overtime | TSM | 9,700 | 7,527 | (2,200) | 7,500 | -22.68% | -0.35% | Authorized overtime to complete special activities or assignments including activities supporting the public education program, and employee compensatory time leave balance cash-outs. |
| 5010-022-02 | Wet Weather Stand- by Duty | TSM | 7,200 | 1,010 | (4,700) | 2,500 | -65.28% | | Stand-by duty is assigned to a laboratory analyst during wet weather events when there is a reasonable potential that a blending event may occur during the weekend. This account balance has been reduced significantly from previous fiscal years because past practice was to authorize stand-by duty for the entire wet weather season. |
| Subtotal Sala | ary & Wages | | 891,700 | 827,689 | 161,800 | 1,053,500 | 18.15% | 27.28% | |
| BIOSOLIDS N | MANAGEMENT | | | | | | | | |
| 6200-010-02 | Biosolid Reuse Fees | TSM | 275,000 | 274,850 | 8,900 | 283,900 | 3.24% | | Biosolids are beneficially reused at Redwood Landfill for alternative daily cover, land application sites in Sonoma and Solano counties for soil augmentation, and at the Lystek facility for further processing into a fertilizer. Each of these facilities charges fees to accept biosolids. |
| 6200-050-02 | Biosolids Hauling | TSM | 112,700 | 105,058 | 3,700 | 116,400 | 3.28% | | Approximately one load per day of biosolids is hauled from CMSA to one of the biosolids reuse sites. |
| Subtotal Bios | solids Management | | 387,700 | 379,908 | 12,600 | 400,300 | 3.25% | 5.37% | |
| PERMIT TEST | ING & MONITORING | | | | | | | | |
| 6300-000-02 | Lab Supplies | LD | 74,700 | 80,890 | (17,700) | 57,000 | -23.69% | | Laboratory and source control program supplies including all chemicals, glassware, reagents, consumables, containers and filters, bioassay. The budget is higher than normal for FY 18 and FY 19 due to one time equipment purchased as new COD chemicals, dishwasher chemicals, disposable sample containers, and other supplies. |
| 6310-030-02 | Biosolids Monitoring: Contract Lab Services | LD | 10,100 | 8,636 | (601) | 9,500 | -5.95% | | Laboratory analysis cost associated with biosolids monthly and semiannual regulatory monitoring requirements. Decreased based upon aligning the budget to actual expenditures. |
| 6320-010-02 | NPDES Permit Sampling & Testing | LD | 65,200 | 64,368 | - | 65,200 | 0.00% | 1.29% | Outsourced laboratory analysis cost associated with NPDES permit compliance orders. Includes monthly, quarterly, semiannual, annual and permit period monitoring requirements. |

Line Item Accounts

*Position Code

GM General Manager

ASM Administrative Services Manager

TSM Technical Services Manager

LD Lab Director

TECHNICAL SERVICES

| Account # | Account Name | *Bv | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget Change | FY 18-19 Proposed Budget | % Change FY19 Proposed Budget from FY18 Adopted Budget | % Change FY19 Proposed Budget From FY18 Projected Year- End | Budget Account Description |
|---------------|---|-----|-------------------------------|--|--|--------------------------------|--|---|--|
| 6320-020-02 | Pretreatment | TSM | 14,300 | 7,705 | - | 14,300 | 0.00% | | Contract for lab analysis of pretreatment samples and monitoring industrial |
| | Sampling | | , | , | | , | | | waste. |
| 6330-010-02 | Underground Tank Testing: Overfill Containment | TSM | 6,900 | 2,833 | (4,100) | 2,800 | -59.42% | | Annual testing and monitoring of underground gasoline and diesel tank over- fill and secondary. The Agency has determined it is more time efficient and cost effective to outsource this regulatory requirement. |
| 6330-020-02 | Underground Tank Testing: Secondary Containment | TSM | 8,300 | 1,320 | (8,300) | - | -100.00% | -100.00% | Testing of underground tank secondary containment every three years as required by state regulation. Testing will be scheduled during FY 218, the last testing occurred in FY 18. |
| Subtotal Peri | mit Testing & Monitoring | | 179,500 | 165,751 | (30,701) | 148,800 | -17.10% | -10.23% | · |
| GENERAL 9. / | ADMINISTRATIVE | | | | | | | | |
| 6510-008-05 | Facilities Maintenance | | | | - (- | | 0.00% | 0.00% | Expenses for service contracts to maintain laboratory equipment including the deionized water system, vacuum pump, and bioassay pH pump control. |
| 6700-010-05 | Meetings/Training | TSM | 4,500 | 4,399 | | 4,500 | 0.00% | | Expenses associated with single-day professional meetings and training seminars. Includes allowed expenses pursuant to the Agency's expense reimbursement policy. |
| 6700-020-05 | Conferences | TSM | 15,800 | 6,214 | - | 15,800 | 0.00% | 154.26% | Expenses associated with multi-day professional conferences, seminars, and training events per the Agency's expense reimbursement policy. |
| 6805-000-05 | Professional Affiliation Memberships | TSM | 4,000 | 3,163 | (300) | 3,700 | -7.50% | | Professional society memberships and registration fees mostly related to Water Environment Association (WEF) and California Water Environment Association (CWEA) memberships. |
| 6810-000-02 | Annual NPDES Permit | TSM | 55,000 | 48,522 | - | 55,000 | 0.00% | | Annual renewal fee for SWRCB administration of the NPDES permit and pre- treatment program fee. The State Water Board has not reported its FY 19 NPDES permit fee structure. |
| 6810-040-02 | ELAP Certification | TSM | 6,700 | 6,996 | 4,300 | 11,000 | 64.18% | | Fees for annual renewal of the laboratory certification, inspections, required testing, certificates, and ELAP operating costs. DMRQA testing, previously expended from other accounts, is now included in this line item as it is a certification requirement. |
| 6810-050-02 | Regional Monitoring Program SFEI | TSM | 30,000 | 27,996 | - | 30,000 | 0.00% | | CMSA's NPDES permit requires participation in the Regional Monitoring Program (RMP) for the San Francisco Bay, which is administered by the San Francisco Estuary Institute. |
| 6810-051-02 | Clean Bay Collaborative Fees | TSM | 25,500 | 24,555 | - | 25,500 | 0.00% | | SF Bay NPDES dischargers are required to perform regional monitoring tests and perform 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. |
| 6810-060-02 | CUPA Fees | TSM | 4,200 | 4,697 | 700 | 4,900 | 16.67% | | Certified Unified Program Agency fees are paid to the County of Marin for the Agency's underground storage tanks and hazardous materials storage. |
| 6810-070-02 | Stormwater Annual | TSM | 1,800 | 1,400 | - | 1,800 | 0.00% | | SWRCB permit for the Agency's industrial site stormwater permit. |

Line Item Accounts

*Position Code

GM General Manager

ASM Administrative Services Manager

TSM Technical Services Manager

LD Lab Director

TECHNICAL SERVICES

| Account # | Account Name | *By | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget Change | FY 18-19 Proposed Budget | % Change FY19 Proposed Budget from FY18 Adopted Budget | % Change FY19 Proposed Budget From FY18 Projected Year- End | Budget Account Description |
|--------------|--|--------|-------------------------------|--|--|--------------------------------|--|---|--|
| 6810-080-02 | BAPPG Membership | TSM | 1,800 | 838 | - | 1,800 | 0.00% | | Bay Area Pollution Prevention Group pollution prevention and pretreatment program sponsorship as required in the Agency's NPDES permit. |
| 6810-090-02 | eNPDES Software | TSM | 1,300 | - | (1,300) | - | -100.00% | | Annual electronic reporting software maintenance fee that includes support and filing updates required by the State Water Board and EPA. |
| 6815-002-02 | Source Control | TSM | 12,000 | 12,000 | 28,000 | 40,000 | 233.33% | | The existing software database used to manage the Agency's Pretreatment and Pollution Prevention Programs will be replaced with a software program that is better suited for source control program management with lower annual maintenance fees and better support. |
| 6821-000-02 | Public Education Program: CMSA portion | GM | 32,500 | 5,103 | 2,500 | 35,000 | 7.69% | | CMSA's share of the Countywide Public Education Program for expenses associated with participating in public outreach events, hosting school programs, and educational materials for the program. |
| 6815-000-05 | Office Expenses | TSM | 500 | 177 | - | 500 | 0.00% | | Office supplies: ink cartridges, paper for large-format printer/plotter, and other miscellaneous office expense. |
| 6815-002-05 | Information Systems | TSM | 700 | - | 1,300 | 2,000 | 185.71% | 0.00% | Allowance for engineering productivity and project management software. |
| 6815-003-05 | Software License & Support | TSM | - | | - | - | 100.00% | | No Budget: Licensing fees for Nexgen (CMMS), Ignition (SCADA), AutoCAD (drafting), and virtual server maintenance software have been moved to Administrative Services. |
| 6820-000-05 | Printing & Publications | TSM | 1,000 | 215 | | 1,000 | 0.00% | | Allowance for printing/shipping/advertising expenses for documents not assigned to specific CIP project contracts and for mailing expenses related to maintaining CMSA's list of prequalified contractors. |
| 6830-001-05 | Professional Svcs - Special Studies | GM | 45,000 | 21,600 | - | 45,000 | 0.00% | | A consultant will continue the gap analysis of the current CMMS system and provide basic asset management training engineering and maintenance staff. An allowance is included for the pilot scale digester testing program. |
| 6830-002-05 | Cathodic Protection | TSM | 7,600 | 7,130 | (2,100) | 5,500 | -27.63% | | 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. Annual costs will vary from year to year due to monitoring frequencies for different facilities. |
| 6830-019-05 | Professional Svcs - Engineering Support | GM | 40,000 | | - | 40,000 | 0.00% | 0.00% | This account is used to fund engineering consultant services including a study to determine the necessary analyzers to automate control of various treatment processes. |
| Subtotal Gen | neral & Administrative | | 289,900 | 175,004 | 33,100 | 323,000 | 11.42% | 84.57% | |
| Subtotal (ex | ccluding Salary and Ben | efits) | 857,100 | 720,663 | 14,999 | 872,100 | 1.75% | 21.01% | |
| Total Engine | ering | | 1,748,800 | 1,548,352 | 176,799 | 1,925,600 | 10.11% | 24.36% | |

Cooperative Agreement Expenses - CMSA Services Provided Under Contract to Other Local Agencies

The Agency provides services under contract to other local agencies for wastewater treatment services, pump station and collection system maintenance, administration of Pollution Prevention or Source Control Programs, and a Dental Amalgam Reduction Program. The Agency also serves as the lead agency to administer the cooperative Health & Safety Program and the County-wide Public Education Program.

With the exception of the Health & Safety Program, the budget in this cost center is to track the non-employee compensation portion of the contract expenses incurred on behalf of the contracting agencies. Each contracting agency has agreed to reimburse CMSA the costs of services rendered by CMSA in accordance with the terms of their respective contracts.

The tables below illustrate the relationship between the amount of projected revenues from each contracting agency in FY 18-19 and estimated expenses incurred by CMSA for its services.

| Cooperative Agreement Services | FY 16-17 Adopted Budget | FY 17-18 Adopted Budget | FY 18-19 Proposed Budget |
|--|--|--|---|
| CONTRACT SERVICE REVENUES | | | |
| San Quentin State Prison Wastewater Services | \$ 813,946 | \$ 589,690 | \$ 569,745 |
| San Quentin State Prison Pump Station Maintenance | 105,473 | 108,110 | 111,570 |
| San Quentin Village Wastewater Services | 33,056 | 49,950 | 45,297 |
| SD#2 Pump Stations | 394,063 | 403,400 | 394,536 |
| LGVSD - FOG & Pollution Prevention | 20,000 | 16,500 | 16,500 |
| SD #1 – FOG | 19,000 | 21,500 | 21,500 |
| SRSD – FOG | 23,000 | 25,600 | 25,600 |
| TCSD - FOG | 2,100 | 2,200 | 2,200 |
| SD #2 – FOG | 9,500 | 7,500 | 7,500 |
| Almonte SD – FOG | 3,500 | 1,500 | 1,500 |
| Novato SD - Dental Amalgam | 1,500 | 3,000 | 3,000 |
| SUBTOTAL CONTRACT SERVICE REVENUES | \$1,425,138 | \$1,228,950 | \$1,198,948 |
| Health and Safety Program | 85,000 | 91,500 | 86,600 |
| County-wide Education Program | 43,990 | 51,700 | 59,430 |
| SUBTOTAL PROGRAM REVENUES | \$ 128,990 | \$ 143,200 | \$ 146,030 |
| TOTAL CONTRACT SERVICE REVENUES | \$ 1,554,128 | \$1,372,150 | \$1,344,978 |
| COOPERATIVE AGREEMENT SERVICE EXPENDITURES (EXCLUDING San Quentin State Prison Wastewater Services | | AD CHARGES) | |
| San Quentin State i rison wastewater Services | \$ 816,946 | \$ 589,690 | \$ 569,745 |
| San Quentin State Prison Pump Station Maintenance | \$ 816,946 93,952 | • | 98,747 |
| | | \$ 589,690 | |
| San Quentin State Prison Pump Station Maintenance | 93,952 | \$ 589,690 96,110 | 98,747 |
| San Quentin State Prison Pump Station Maintenance San Quentin Village Wastewater Services | 93,952 28,792 | \$ 589,690 96,110 45,473 356,946 13,525 | 98,747 40,820 348,082 13,525 |
| San Quentin State Prison Pump Station Maintenance San Quentin Village Wastewater Services SD#2 Pump Stations | 93,952 28,792 348,520 | \$ 589,690 96,110 45,473 356,946 | 98,747 40,820 348,082 |
| San Quentin State Prison Pump Station Maintenance San Quentin Village Wastewater Services SD#2 Pump Stations LGVSD - FOG & Pollution Prevention | 93,952 28,792 348,520 16,393 | \$ 589,690 96,110 45,473 356,946 13,525 | 98,747 40,820 348,082 13,525 |
| San Quentin State Prison Pump Station Maintenance San Quentin Village Wastewater Services SD#2 Pump Stations LGVSD - FOG & Pollution Prevention SD #1 - FOG | 93,952 28,792 348,520 16,393 17,273 20,909 1,721 | \$ 589,690 96,110 45,473 356,946 13,525 19,545 23,273 1,803 | 98,747 40,820 348,082 13,525 19,545 23,273 1,803 |
| San Quentin State Prison Pump Station Maintenance San Quentin Village Wastewater Services SD#2 Pump Stations LGVSD - FOG & Pollution Prevention SD #1 - FOG SRSD - FOG TCSD - FOG SD #2 - FOG | 93,952 28,792 348,520 16,393 17,273 20,909 1,721 8,636 | \$ 589,690 96,110 45,473 356,946 13,525 19,545 23,273 1,803 6,818 | 98,747 40,820 348,082 13,525 19,545 23,273 1,803 6,818 |
| San Quentin State Prison Pump Station Maintenance San Quentin Village Wastewater Services SD#2 Pump Stations LGVSD - FOG & Pollution Prevention SD #1 - FOG SRSD - FOG TCSD - FOG | 93,952 28,792 348,520 16,393 17,273 20,909 1,721 8,636 3,182 | \$ 589,690 96,110 45,473 356,946 13,525 19,545 23,273 1,803 6,818 1,364 | 98,747 40,820 348,082 13,525 19,545 23,273 1,803 6,818 1,364 |
| San Quentin State Prison Pump Station Maintenance San Quentin Village Wastewater Services SD#2 Pump Stations LGVSD - FOG & Pollution Prevention SD #1 - FOG SRSD - FOG TCSD - FOG SD #2 - FOG | 93,952 28,792 348,520 16,393 17,273 20,909 1,721 8,636 | \$ 589,690 96,110 45,473 356,946 13,525 19,545 23,273 1,803 6,818 | 98,747 40,820 348,082 13,525 19,545 23,273 1,803 6,818 |
| San Quentin State Prison Pump Station Maintenance San Quentin Village Wastewater Services SD#2 Pump Stations LGVSD - FOG & Pollution Prevention SD #1 - FOG SRSD - FOG TCSD - FOG SD #2 - FOG Almonte SD - FOG | 93,952 28,792 348,520 16,393 17,273 20,909 1,721 8,636 3,182 | \$ 589,690 96,110 45,473 356,946 13,525 19,545 23,273 1,803 6,818 1,364 | 98,747 40,820 348,082 13,525 19,545 23,273 1,803 6,818 1,364 |
| San Quentin State Prison Pump Station Maintenance San Quentin Village Wastewater Services SD#2 Pump Stations LGVSD - FOG & Pollution Prevention SD #1 - FOG SRSD - FOG TCSD - FOG SD #2 - FOG Almonte SD - FOG Novato SD - Dental Amalgam | 93,952 28,792 348,520 16,393 17,273 20,909 1,721 8,636 3,182 1,230 | \$ 589,690 96,110 45,473 356,946 13,525 19,545 23,273 1,803 6,818 1,364 2,459 | 98,747 40,820 348,082 13,525 19,545 23,273 1,803 6,818 1,364 2,459 |
| San Quentin State Prison Pump Station Maintenance San Quentin Village Wastewater Services SD#2 Pump Stations LGVSD - FOG & Pollution Prevention SD #1 - FOG SRSD - FOG TCSD - FOG SD #2 - FOG Almonte SD - FOG Novato SD - Dental Amalgam SUB-TOTAL COOPERATIVE AGREEMENT EXPENDITURES | 93,952 28,792 348,520 16,393 17,273 20,909 1,721 8,636 3,182 1,230 \$1,354,554 | \$ 589,690 96,110 45,473 356,946 13,525 19,545 23,273 1,803 6,818 1,364 2,459 \$1,157,006 | 98,747 40,820 348,082 13,525 19,545 23,273 1,803 6,818 1,364 2,459 |
| San Quentin State Prison Pump Station Maintenance San Quentin Village Wastewater Services SD#2 Pump Stations LGVSD - FOG & Pollution Prevention SD #1 - FOG SRSD - FOG TCSD - FOG SD #2 - FOG Almonte SD - FOG Novato SD - Dental Amalgam SUB-TOTAL COOPERATIVE AGREEMENT EXPENDITURES Health & Safety Program | 93,952 28,792 348,520 16,393 17,273 20,909 1,721 8,636 3,182 1,230 \$1,354,554 82,372 | \$ 589,690 96,110 45,473 356,946 13,525 19,545 23,273 1,803 6,818 1,364 2,459 \$1,157,006 89,271 | 98,747 40,820 348,082 13,525 19,545 23,273 1,803 6,818 1,364 2,459 \$1,126,181 84,200 |

Line Item Accounts

*Position Code

ASM Administrative Services Manager

GM General Manager

HSM Health & Safety Manager

LD Lab Director

MS Maintenance Supervisor TPM Treatment Plant Manager

COOPERATIVE AGREEMENT EXPENSES: CMSA Services Provided Under Contract to Other Local Agencies

| Account # | Account Name | *By | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget Change | FY 18-19 Proposed Budget | % Change FY19 Proposed Budget from FY18 Adopted Budget | % Change FY19 Proposed Budget From FY18 Projected Year- End | Budget Account Description |
|---------------|--|--------|-------------------------------|--|--|--------------------------------|--|---|---|
| ADMINISTRA' | TION - HEALTH & SAFET | Y PROG | RAM | | | | | | |
| 5010-010-06 | Salaries, Wages & Compensation | ASM | 46,600 | 15,254 | 2,300 | 48,900 | 4.94% | | Novato Sanitary Distict's (NSD) share of the Health & Safety Manager position salary is 39.75% and includes car allowance and leave cash-outs. The increase is due to budgeting the mid-salary range. The Agency's share is 60.25% and is allocated to the Administration Budget. |
| 5020-020-06 | CalPERS Retirement | ASM | 10,239 | 2,909 | 1,461 | 11,700 | 14.27% | 302.25% | Employer and employer-paid employee contributions for CalPERS 2.7% @ 55 retirement program. The increase is function of step increase and COLA. |
| 5020-030-06 | SS / Medicare | ASM | 700 | 361 | 100 | 800 | 14.28% | 121.45% | Employer's 1.45% share of Medicare. |
| 5030-010-06 | Employee Health Benefits | ASM | 4,600 | 2,552 | 7,100 | 11,700 | 154.33% | | Employer paid contributions for employee benefits includes insurance coverage for health, dental, vision, life, accident and disability. Budget increase is due to family health benefit coverage (FY 18 was employee only coverage). |
| 5030-015-06 | Employee Benefits- PEHP | ASM | 700 | 399 | | 700 | 0.00% | | PEHP: Is a post employment health plan employer paid contribution totaling 1.5% of base salary and \$180 per year administration fee (formerly .1% of base salary). |
| 5030-020-06 | Retiree Health Benefits | ASM | 2,700 | 1,510 | (100) | 2,600 | -3.70% | 72.16% | Medical benefits for one retired employee and one surviving spouse. |
| 5065-000-06 | Shoes | ASM | 100 | - | (100) | - | -99.58% | 0.00% | Shoes are now included in program expenses account 6830-016-06. |
| 6830-016-06 | Health & Safety Manager Program Expenses | HSM | 8,500 | 2,455 | (300) | 8,200 | -3.53% | | Professional services, materials, supplies and memberships, to administer the Safety Program for two participating agencies. NSD's program share is 39.75% of program costs. CMSA's 60.25% share is budgeted to 6830-016-01. |
| 6830-017-06 | Prof'l Service: Outside Safety | HSM | 11,200 | 650 | (6,600) | 4,600 | -58.93% | | Training expenses for required safety programs that include hearing tests, first-aid/CPR, incident command training, traffic control, defensive driving, and many other Cal/OSHA programs that facilitate a safe work environment. |
| Subtotal Adm | ninistration | | 85,339 | 26,090 | 3,861 | 89,200 | 4.52% | 241.89% | |
| TECHNICAL SI | FRVICES | | | | | | | | |
| | Countywide Public Education Program | GM | 45,000 | 37,214 | 7,000 | 52,000 | 15.56% | | Program expenditures to administer the County Wide Education Program for 5 participating agencies such as promotional materials, booth registration fees, public outreach program costs, sponsorships, supplies and memberships. CMSA's 40.6% share of the program cost is budgeted to Technical Services account 6821-000-02. Increase is due to funding RxSafe Marin and Marin Science and Environmental Leadership programs. |
| Subtotal Tech | nnical Services | | 45,000 | 37,214 | 7,000 | 52,000 | 15.56% | | F 1 |

Line Item Accounts

*Position Code

ASM Administrative Services Manager

GM General Manager

HSM Health & Safety Manager

LD Lab Director

MS Maintenance Supervisor TPM Treatment Plant Manager

COOPERATIVE AGREEMENT EXPENSES: CMSA Services Provided Under Contract to Other Local Agencies

| Account # | Account Name | *By | FY 17-18 Adopted Budget | FY 17-18 Projected Year End Expenditures | FY 18-19 Proposed Budget Change | FY 18-19 Proposed Budget | % Change FY19 Proposed Budget from FY18 Adopted Budget | % Change FY19 Proposed Budget From FY18 Projected Year- End | Budget Account Description |
|---------------|-------------------------------------|-----|-------------------------------|--|--|--------------------------------|--|---|--|
| MAINTENAN | CE | | | | | | | | |
| 6600-000-06 | SD-2 Pump Stations | MS | 117,200 | 99,547 | 3,700 | 120,900 | 3.16% | | SD#2 pump station maintenance costs repair services, parts, supplies, equipment and recommended maintenance and capital expenditures. The decrease is attributable to fewer planned maintenance projects. |
| 6600-001-06 | SQP Pump Station Maintenance | TPM | 44,300 | 44,300 | 65,700 | 110,000 | 148.31% | | SQP pump station maintenance costs include labor, mileage, repair services, parts, supplies, equipment and recommended maintenance and capital expenditures. The increase is due to a contractual CPI price adjustment. |
| 6600-002-06 | SQ Village WW System Maintenance | TPM | 25,700 | 17,554 | (5,400) | 20,300 | -21.01% | | SQV wastewater maintenance costs include labor, mileage, repair services, parts, supplies, equipment and recommended maintenance and capital expenditures. The increase is due to a contractual increase and anticipated higher maintenance costs. |
| Subtotal Mai | ntenance | | 187,200 | 161,401 | 64,000 | 251,200 | 34.19% | | |
| Total Coopera | ative Agreement Expens | es | 317,539 | 224,704 | 74,861 | 392,400 | 23.58% | 74.63% | |

10 Year Capital Improvement Program – Summary of Changes
Capital Improvement Program Budget
Capital Improvement Project Descriptions by Budget Account
Detailed Project Descriptions for Selected Capital Projects

Proposed FY 18-19 Capital Improvement Program – Summary of Changes

| Category | FY 17-18 Adopted Budget | FY 17-18 Projected Actuals | FY 18-19 Proposed Budget | # of Activities |
|---|----------------------------|-------------------------------|-----------------------------|--------------------|
| Facility Improvements | \$ 1,740,600 | \$ 1,084,768 | \$ 532,500 | 6 |
| General Equipment | 584,300 | 488,213 | 429,600 | 7 |
| Liquid Treatment Equipment and Systems | 635,700 | 487,977 | 1,370,900 | 11 |
| Solids Treatment and Energy Generation | 671,800 | 203,000 | 445,000 | 7 |
| Staff Costs | 185,200 | 185,200 | 184,200 | 2.0 FTE |
| Total | \$3,817,600 | \$2,449,176 | \$2,962,200 | 31 |

FY 17-18 Projected Actuals

Projected total spending is expected to be 64% of the adopted budget amount. Of the \$1.37 million in unexpended budgeted funds, most is associated with the Hillside Slope Stabilization project delay caused by the retirement of the FEMA project manager (\$350K), PG&E Interconnection Agreement Modification study reimbursement allowance not needing to be fully utilized (\$425K), and the Facility Paving (\$148K) and Industrial Coating (\$55K) projects being differed to summer projects in FY19.

FY 18-19 Priority Projects

- 1) <u>Industrial Coatings</u> (\$215K): Rehabilitate epoxy coatings in the SBS chemical storage room and SBS and hypochlorite spill vaults. Also in a separate contracts, seal cracks in the underground gallery walls and apply new epoxy paint in chlorine contact tanks 5 & 6.
- 2) <u>PG&E Interconnection Agreement Modifications</u> (\$100K): Complete the PG&E interconnection agreement modification process and install electrical equipment to allow for power export.
- 3) <u>Hillside Slope Stabilization</u> (\$35K): Design and construction of retaining walls to repair the landslides in the hillside adjacent to Andersen Drive. FEMA has approved funding to repair the slope failures, and is currently evaluating the pre-design geotechnical report. The FY19 budget is net of the anticipated FEMA reimbursement.
- 4) <u>Pavement Rehabilitation Project</u> (\$175k): Bid, award, and construction of pavement repair and rehabilitation in the vicinity of the solids handling building, maintenance covered parking area, and new maintenance storage building.

- 5) <u>Gates Rehabilitation</u> (\$436K): Replace the hydraulic system used to open and close primary clarifier gates with an electronic actuator system that will be operated with CMSA's SCADA system.
- 6) <u>Secondary Clarifier Rehabilitation</u> (\$325K): Repair corrosion on mechanical equipment, metal structural components and pipes inside a clarifier, and replace the turntable drive. This is the first year of a four year program to rehabilitate all four secondary clarifiers.
- 7) <u>Process Piping</u> (\$190K): Perform an interior inspection of large diameter buried pipelines in the treatment plant. The project potentially includes internal sealing of some or all of the elastomeric joints and other external pipe repairs, based on inspection results.
- 8) <u>Cogeneration System Maintenance</u> (\$145K): Onsite cogeneration engine upper end rebuild and replacement of turbo chargers and an allowance to survey potential cogeneration technologies for the planned design of a new cogeneration system.

Central Marin Sanitation Agency Capital Improvement Program FY 19 Proposed Budget and 10-Year Forecast

| | | | | Prior | Adopted | Projected | | | | | | 10-year CIP | | | | | | |
|-------------------|---------|---|-------------------|---------------|------------|-----------|-----------------------|---------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|---------|---------------|-----------|
| GL Account | | | Dalissams | EVel | Pudant For | FY 18 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total | Project |
| Number | | | Delivery | FYs' | Budget For | L1 10 | Proposed | | | | | | | | | | | · · |
| | PM* | | Method | Costs | FY 18 | Actuals | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 | FY 27 | FY 28 | FY 19 - FY 28 | Totals |
| Facility Improven | nents | | | - | | | | | | | | | | | | | | |
| 7300-103-10 | TSM | Effluent Storage Pond Rehabilitation | FB | | - | - | - | - | - | 38,700 | 1,225,700 | - | - | - | - | - | 1,264,400 | 1,264,400 |
| 7300-700-10 | TSM | Agency Facilities Master Plan (3) | PSA | | 260,000 | 250,000 | 30,000 | - | - | - | - | - | - | - | - | - | 30,000 | 280,000 |
| 7300-956-00 | TSM | Industrial Coatings & Concrete Rehabilitation | IB/MC | | 65,000 | 10,000 | 215,000 | 194,100 | 99,200 | 21,000 | 147,100 | 24,500 | 25,100 | 25,900 | 140,300 | 27,500 | 919,700 | |
| 7300-987-00 | TSM | Outfall Inspection & Repairs | IB/MC | | 32,200 | 32,000 | 33,000 | 34,000 | 423,200 | 36,100 | 37,200 | 38,300 | 39,500 | 40,700 | 41,900 | 43,200 | 767,100 | |
| 7400-103-10 | TSM | Maintenance Facility Modifications (3) | FB | 161,740 | 800,000 | 701,548 | - | - | - | - | - | | - | - | - | - | - | 863,288 |
| 7400-???-?? | TSM | Facility Improvements | IB | | | | 44,000 | - | - | - | - | 35,000 | - | - | - | 40,300 | 119,300 | |
| 7400-956-00 | TSM | Facility Paving/Site Work | IB/MC | | 148,400 | - | 175,000 | 135,900 | 11,200 | 11,500 | 145,100 | 12,100 | 12,400 | 167,800 | 13,000 | 13,400 | 697,400 | |
| 7400-600-00 | TSM | Hillside Slope Stabilization | FB | | 400,000 | 50,000 | 35,500 | - | - | | - | | - | - | - | - | 35,500 | |
| 7400-960-00 | TSM | Facility Roofs Rehabilitation | MC/IB/FB | | 35,000 | 41,238 | - | 78,100 | 953,600 | - | 9,900 | - / | - | - | - | - | 1,041,600 | 1,082,838 |
| 7400-???-?? | TSM | SHB Elevator Control Replacement | IB | | | - | - | - | - | - | 103,500 | - | - | - | - | - | 103,500 | 103,500 |
| 7400-???-?? | TSM | Facility Structures Seismic Study | PSA | | | - | - | 207,000 | - | - | - | - | - | - | - | - | 207,000 | 207,000 |
| | | Subto | otal - Facility I | mprovements | 1,740,600 | 1,084,786 | 532,500 | 649,100 | 1,487,200 | 107,300 | 1,565,000 | 109,900 | 77,000 | 234,400 | 195,200 | 124,400 | 5,185,500 | <u> </u> |
| General Equipme | | | | | | | | | | | | | | | | | | |
| 7300-672-00 | ISA | Process Control | M/MC | | 37,900 | 20,000 | 30,000 | 31,600 | 48,800 | 34,000 | 34,200 | 35,100 | 51,000 | 36,900 | 37,900 | 39,000 | 378,500 | ' |
| 7300-672-10 | TSM/ISA | Security / Fire Systems | MC | | 13,900 | 13,900 | - | 4,100 | - | 4,300 | - | 4,600 | - | 4,900 | - | 5,200 | 23,100 | ' |
| 7300-683-00 | MS/TSM | Fuel Storage Tanks | IB/MC | | 35,000 | 12,140 | - | - | 116,300 | - | - | - | - | 133,900 | - | - | 250,200 | ' |
| 7410-851-00 | ISA | IT Hardware and Communication Equip | M | | 56,900 | 43,000 | 66,200 | 44,900 | 15,300 | 50,700 | 16,200 | 16,600 | 17,000 | 17,500 | 17,900 | 18,400 | 280,700 | L |
| 7420-701-00 | MS | Agency Vehicle Replacement | IB/PO | | 51,000 | 41,573 | 95,400 | 40,000 | 70,000 | 6,000 | 41,400 | 73,100 | 54,400 | 181,500 | 82,100 | 84,600 | 728,500 | ' |
| 7430-958-00 | LD | Laboratory Equipment | PO | | 166,600 | 166,600 | 85,000 | 90,000 | 62,500 | 40,000 | 120,000 | 45,000 | 46,400 | 47,800 | 49,200 | 50,700 | 636,600 | ' |
| 7450-002-00 | MS | Electrical Equipment | M/IB | | 120,100 | 95,000 | 100,00 <mark>0</mark> | 120,000 | 100,000 | 109,000 | 98,000 | 94,000 | 85,000 | 87,600 | 90,300 | 93,000 | 976,900 | ' |
| 7450-002-10 | MS | Plant Lighting | IB | | 26,000 | 26,000 | 22,00 0 | 14,000 | 15,000 | 16,000 | 10,000 | - | - | - | - | - | 77,000 | ' |
| 7450-102-00 | MS | Process Instrumentation | M | | 51,900 | 45,000 | 31,00 <mark>0</mark> | 40,000 | 25,000 | 25,800 | 26,600 | 27,400 | 28,200 | 29,100 | 30,000 | 30,900 | 294,000 | ' |
| 7450-105-00 | MS | Electrical Distribution System Rehabilitation | PSA/FB | | 25,000 | 25,000 | - | - | 1,204,800 | - | 194,500 | - | 203,800 | - | 216,200 | - | 1,819,300 | 1,844,300 |
| | | Su | btotal - Gene | ral Equipment | 584,300 | 488,213 | 429,600 | 384,600 | 1,657,700 | 285,800 | 540,900 | 295,800 | 485,800 | 539,200 | 523,600 | 321,800 | 5,464,800 | <u> </u> |
| Liquids Treatmen | | nt and Systems | | r | | | | | | | | | | | | | | |
| 7300-685-00 | TSM | Bio-Tower Rotary Distributor Replacement | IB | - | - | - | - | - | - | - | - | 988,000 | - | - | - | - | 988,000 | 988,000 |
| 7300-700-00 | MS | Plant Pumps | MC/M | | 74,800 | 70,000 | 63,30 <mark>0</mark> | 80,000 | 66,100 | 67,600 | 69,100 | 70,700 | 71,500 | 73,900 | 76,100 | 78,400 | 716,700 | |
| 7300-719-00 | MS | Chemical Pumps | M | | 113,000 | 65,000 | 80,600 | 77,600 | 155,200 | 181,000 | 67,000 | 56,400 | 57,200 | 59,200 | 61,600 | 62,800 | 858,600 | |
| 7300-720-00 | MS | Gates Rehabilitation | M/IB | | 35,000 | 32,000 | 436,400 | 77,500 | 79,400 | 81,100 | 83,600 | 437,700 | 85,800 | 88,700 | 92,300 | 95,500 | 1,558,000 | 1,590,000 |
| 7300-727-00 | MS | Headworks Equipment | M | | 50,000 | 65,000 | 27,400 | 28,900 | 32,100 | 30,400 | 361,100 | 32,100 | 255,600 | 1,056,200 | 34,700 | 35,800 | 1,894,300 | 1,959,300 |
| 7300-981-00 | TSM | Odor Control System Improvements (3) | PSA/FB | 112,420 | 28,500 | 2,825 | - | - | - | - | - | 2,003,600 | - | 2,276,800 | 1,546,800 | - | 5,827,200 | 5,942,445 |
| 7300-983-00 | MS | Process Tank Maintenance | M/IB | | 85,000 | 30,000 | 70,000 | 60,000 | 535,800 | 63,600 | 65,500 | 67,500 | 69,500 | 71,600 | 73,800 | 76,000 | 1,153,300 | ' |
| 7400-965-00 | TSM/MS | Primary Clarifiers Rehabilitation | MC/M | | 33,400 | 25,000 | 40,000 | - | - | 347,800 | 358,300 | 369,200 | 760,800 | - | 161,200 | 167,800 | 2,205,100 | 2,230,100 |
| 7300-990-00 | MS | Secondary Clarifiers Rehabilitation | PSA/IB | | - | 33,152 | 325,700 | 331,400 | 401,800 | 227,800 | - | - | - | - | - | - | 1,286,700 | 1,319,852 |
| 7300-???-?? | TSM | RAS/WAS Pump Replacement | TSM | | | -/ | - | - | 389,700 | 779,500 | 779,500 | - | - | - | - | - | 1,948,700 | 1,948,700 |
| 7300-995-00 | | Aeration System Rehabilitation | M/IB | | 20,100 | 20,000 | 20,000 | - | - | - | - | 40,000 | - | - | - | - | 60,000 | |
| 7400-966-00 | | Process Piping Inspection/Repairs/Replacement | PSA | 97 | - | - | 190,000 | - | - | - | - | - | 779,300 | 113,800 | 163,400 | - | 1,246,500 | 1,246,597 |
| 7430-855-00 | MS | Chemical Tanks | M/IB | | 40,000 | 40,000 | 45,000 | 65,100 | 69,400 | 100,000 | 37,200 | 44,400 | 2,600 | 46,600 | 56,100 | 58,100 | 524,500 | <u> </u> |
| 7430-857-00 | MS | Piping, Valves & Operators | M | | 130,900 | 80,000 | 72,500 | 58,300 | 59,600 | 60,900 | 62,200 | 63,600 | 64,400 | 71,100 | 74,000 | 76,600 | 663,200 | |
| 7430-???-?? | TSM | CCT Valve Rehabiliation | TSM | | | | - | - | - | - | - | - | - | - | 335,300 | - | 335,300 | |
| 7450-104-10 | TSM | Influent Flow Meter Improvement | PSA | | 25,000 | 25,000 | - | 207,000 | - | - | - | - | - | - | - | - | 207,000 | |
| | | Subtotal - Liquids Treatmo | ent Equipmen | t and Systems | 635,700 | 487,977 | 1,370,900 | 985,800 | 1,789,100 | 1,939,700 | 1,883,500 | 4,173,200 | 2,146,700 | 3,857,900 | 2,675,300 | 651,000 | 21,473,100 | <u> </u> |

Central Marin Sanitation Agency Capital Improvement Program FY 19 Proposed Budget and 10-Year Forecast

| | | | | Prior | Adopted | Projected | | | | | | 10-year CIP | | | | | | |
|----------------------|-----------|---|---------------|-----------------|------------|-----------|---------------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|---------------|-----------|
| GL Account Number | | | Delivery | FYs' | Budget For | FY 18 | 1 Proposed | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total | Project |
| | PM* | | Method | Costs | FY 18 | Actuals | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 | FY 27 | FY 28 | FY 19 - FY 28 | Totals |
| Solids Treatment | and Energ | y Generation Equipment and Systems | | | | | | | | | | | | | | | | |
| 7300-678-00 | TSM | Emergency Generator Assessment & Improvement | PSA/FB | | - | - | - | - | - | - | - | - | 80,300 | 499,700 | 1,499,200 | - | 2,079,200 | |
| 7300-691-00 | TSM | Digester Inspection, Cleaning & Cover Replacement | FB | | - | - | - | - | - | 886,500 | 906,200 | - | - | - | - | - | 1,792,700 | i |
| 7300-715-00 | TSM/MS | Centrifuge Maintenance | PSA/FB | 3,139 | - | - | 40,000 | - | 500,000 | 2,703,000 | - | - | - | - | - | - | 3,243,000 | 3,246,139 |
| 7300-722-00 | MS | Cogeneration Maintenance (3) | M/IB/FB | | 86,300 | 50,000 | 145,000 | 449,600 | 2,011,000 | 1,694,700 | 64,900 | 66,300 | 68,000 | 77,300 | 80,400 | 83,200 | 4,740,400 | |
| 7300-724-00 | MS | Hot Water Systems | M/PSA | | 34,000 | 32,000 | 14,900 | 15,200 | 15,500 | 15,800 | 16,100 | 16,500 | 17,400 | 17,400 | 18,100 | 18,700 | 165,600 | |
| 7300-???-?? | TSM | Digester Mixing Pump Study | PSA | | | - | | 100,000 | - | - | - | - | - | - | - | - | 100,000 | İ |
| 7300-725-00 | MS | Boilers and Gas Processing Equipment | IB | | - | - | 74,500 | - | - | - | - | - | 538,600 | - | - | - | 613,100 | İ |
| 7300-977-00 | MS | Sludge Recirculating Pump Grinders | M | | 18,000 | 18,000 | 18,900 | 19,400 | 19,800 | 20,300 | 20,700 | 21,100 | 21,400 | 22,100 | 23,100 | 23,900 | 210,700 | |
| 7300-978-00 | MS | Biosolids Hoppers Maintenance | M | | 8,500 | 3,000 | - | 9,300 | - | 9,600 | - | 10,000 | - | 10,900 | - | 11,600 | 51,400 | |
| 7300-???-?? | MS | Organic Waste Receiving Facility Equipment | | | | - | 51,700 | 54,500 | 55,900 | 57,400 | 58,900 | 60,400 | 62,100 | 63,600 | 65,400 | 67,700 | 597,600 | |
| 7300-660-00 | TSM | PG&E Interconnection Agreement Modification | PSA/IB | | 525,000 | 100,000 | 100,000 | - | - | - | - | - | - | - | - | - | 100,000 | |
| 7300-661-00 | TSM | FOG/F2E Vault Relining | M/MC | | - | - | - | = | - | - | - | - | - | - | - | - | - | |
| | | Subtotal - Solids Treatment and Energy Generat | ion Equipment | t and Systems | 671,800 | 203,000 | 445,000 | 648,000 | 2,602,200 | 5,387,300 | 1,066,800 | 174,300 | 787,800 | 691,000 | 1,686,200 | 205,100 | 13,693,700 | |
| | | | CMSA Staff Co | sts for CIP (2) | 185,200 | 185,200 | 185,200 | 190,800 | 196,600 | 202,600 | 208,700 | 215,000 | 221,600 | 228,300 | 235,200 | 242,300 | 2,126,300 | |
| (Continued on ne | xt page) | | Ann | ual CIP Totals | 3,817,600 | 2,449,176 | 2,963,200 | 2,858,300 | 7,732,800 | 7,922,700 | 5,264,900 | 4,968,200 | 3,718,900 | 5,550,800 | 5,315,500 | 1,544,600 | 47,943,400 | |

978000 -0.714690768

0.642

(1,368,424)

* PM indicates the project manager for the account.

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

(2) CMSA Staffing costs (compensation and benefits) for identified CIP projects.

(3) CIP Projects in FY 17 that will have staff time charged to the CIP.

| | Delivery Methods | | | | | | |
|-----|-------------------------------------|--|--|--|--|--|--|
| M | Maintenance project, self performed | | | | | | |
| MC | Maintenance Contract | | | | | | |
| PO | Purchase Order, equipment only | | | | | | |
| PSA | Professional Services Agreement | | | | | | |
| IB | Informally Bid | | | | | | |
| FB | Formally Bid | | | | | | |

| Projected Annual Escalation Rate: | 3.03% (| 3.03% (rolling 5-year average of ENR San Francisco Construction Cost Index (CCI) annual changes 12/2013-07/2017). | | | | | | | | |
|-----------------------------------|---------|---|--------|--------|--------|--------|--------|--------|--------|--|
| Escalation Factors | 1.0303 | 1.0616 | 1.0938 | 1.1269 | 1.1611 | 1.1963 | 1.2326 | 1.2700 | 1.3085 | |

2016 to 2017 CCI % Change 3.49% 1.0349

| | | Facility Improvements |
|-------------------|---|--|
| ACCOUNT NUMBER | ACCOUNT / PROJECT TITLE | ACCOUNT / PROJECT DESCRIPTION |
| 7300-103-10 | Effluent Storage Pond Rehabilitation | See Full Page Description |
| 7300-700-10 | Agency Facilities Master Plan | This project will be completed in FY 19 and several projects have been added to this 10-Year Projection based on the condition assessment task. |
| 7300-956-00 | Industrial Coatings & Concrete Rehabilitation | Scheduled industrial coating rehabilitation program for process structures and 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. |
| | | FY 19 – Complete construction projects to seal cracks in the gallery system with epoxy injection (Master Plan Project 00-4) and to repair failing epoxy coating the Sodium Bisulfite (SBS) Room and SBS and hypochlorite drain vaults. Apply new epoxy paint on the chlorine contact tanks 5 & 6 piping and repair the concrete cold joints. FY 20 - Replace headworks structural metal (skylights, pipe supports, etc.) and apply new epoxy coating on the new metal and the grit tank handrails. FY 21 - Repair wear coating on the Headworks deck and install wear coating on CCTs 1-4. FY 22 - Allowance for industrial coatings as needed. |
| | | FY 23 – Repair the saw cut floor area in the digester basement (Master Plan Project 13-2) |
| | | FY 24-26 – Allowance for industrial coating as needed. |
| | | FY 27 – Repair cracked concrete in the ferric storage room and recoat the floor (Master Plan Project 04-5) |
| | | FY 28 – Allowance for industrial coating as needed. |

| | | Facility Improvements |
|-------------------|---------------------------------|---|
| ACCOUNT NUMBER | ACCOUNT / PROJECT TITLE | ACCOUNT / PROJECT DESCRIPTION |
| 7300-987-00 | Outfall Inspection & Repairs | Ongoing 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. |
| | | FY 19 - Inspect the diffuser section of the outfall, and includes an allowance to replace up to 5 broken diffusers if found during the inspection. FY 20 - Routine inspection and riser extension or replacement (assumed 5 total), as needed. FY 21 - 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 FY 14 to FY 20. Cost estimate based on escalating the \$300,000 costs from FY 09. FY 22 - FY 28 - Routine inspection and riser extension or replacement (assumed 5 per year), as needed. |
| | Facility Improvements | This new account is for various building improvements that are not incorporated into other capital projects. FY 19 — Relocate the operations control room and create new work spaces in the Administration Building, install roll-up doors on the new annex building, and install new secondary containment system for the hazardous materials storage. FY 24 - Allowance for building improvements FY 28 — Allowance for building improvements |
| 7400-956-00 | Facility Paving/Site Work | This account is for minor paving repairs and associated site work on internal facility roads, walkways, parking lots, and other pavement, and for re-grading, cleaning, and replacing gravel in drainage ditches. |
| | | FY 19 - Complete construction of a major plant paving project around the solids handling building, maintenance building canopy, and the new annex building concrete approach pad. |
| | | FY 20 - Allowance for a major plant slurry seal and striping project (plant road from gate to FOG/F2E station). |
| | | FY 23 - Allowance for a major plant paving project (employee parking area). |
| | | FY 26 - Allowance for a major plant paving project (plant road from primary clarifiers to solids handling building). |
| 7400-600-00 | Hillside Slope Stabilization | Several significant landslides occurred on the hillside adjacent to Andersen Drive this past winter. These slope failures will require geotechnical design to recommend the appropriate construction measures required to stabilize the hillside. The budget allowance is based on a previous geotechnical report for a similar, but smaller, slope failure that occurred several years ago. CMSA submitted a request for FEMA funding to repair the slope failures and received approval of our Request for Public Assistance. FEMA funds are limited to 75% of the total eligible costs for the permanent repairs. Cal OES will also provide funding for up to 18.75% of the total cost, leaving CMSA's share at 6.25%. While the total estimated budget to construct the hillside improvements is \$568,000, only CMSA's share is in the budget. |

| | Facility Improvements | | | | | | | | |
|-------------|-----------------------|-------------------------------|--|--|--|--|--|--|--|
| ACCOUNT | ACCOUNT / | ACCOUNT / PROJECT DESCRIPTION | | | | | | | |
| NUMBER | PROJECT TITLE | | | | | | | | |
| 7400-960-00 | Facility Roofs | See Full Page Description | | | | | | | |
| | Rehabilitation | | | | | | | | |
| 7400-???-?? | SHB Elevator | See Full Page Description | | | | | | | |
| | Control | | | | | | | | |
| | Replacement | | | | | | | | |
| 7400-???-?? | Facility Structures | See Full Page Description | | | | | | | |
| | Seismic Study | | | | | | | | |

| | | General Equipment |
|-------------------|----------------------------|---|
| ACCOUNT NUMBER | ACCOUNT / PROJECT TITLE | ACCOUNT / PROJECT DESCRIPTION |
| 7300-672-00 | Process Control | Allowances for ongoing 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. |
| | | FY 19 - 20 - Routine PLC and HMI hardware replacement. Identify and purchase critical spares. |
| | | FY 21 - Routine PLC and HMI hardware replacement. Identify and purchase critical spares. Battery replacement at hilltop repeater |
| | | FY 22 - Routine PLC and HMI hardware replacement and replace SCADA workstations. Identify and purchase critical spares. |
| | | FY 23 - 24 - Routine PLC and HMI hardware replacement. Identify and purchase critical spares. |
| | | FY 25 - SCADA system software review and potential upgrades. |
| | | FY 26 – 28 - Routine PLC and HMI hardware replacement. |
| 7300-672-10 | Security / Fire Systems | This is for projects related to the Agency's physical security and fire protections systems, and includes a biannual allowance to purchase replacement equipment as needed. |
| 7300-683-00 | Fuel Storage Tanks | Allowance to replace the existing underground fuel storage tanks with an 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 | ACCOUNT / | ACCOUNT / PROJECT DESCRIPTION |
| NUMBER | PROJECT TITLE | |
| 7410-851-00 | IT Hardware and Communication Equip | Routine repair and regular replacement of Information Technology hardware and software, such as office computers, printers, scanners, and digital telephone equipment and its supporting servers, and voice radio equipment used by Agency staff. |
| | | FY 19 – Allowance for equipment listed above and upgrade 21 business computers hardware, purchase 4 new desktops, 5 laptops, and upgrade software on remaining 18 business workstations. |
| | | FY 20 Allowance for equipment listed above and upgrade/replacement of plant fiber runs FY 21 - Allowance for equipment listed above. |
| | | FY 22 - Allowance for equipment listed above and replacement of the data servers on which all Agency business and SCADA virtual servers run. |
| | | FY 23 – 28 - Allowance for equipment listed above. |
| 7420-701-00 | 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. |
| | | FY 19 - Replace daily round pump station truck, Toyota Highlander and two electric carts. FY 20 - Replace one carpool vehicle and one electric cart. |
| | | FY 21 - Replace one carpool vehicle, one forklift and one electric cart. |
| | | FY 22 - Replace tires on all-terrain forklift, and environmental services tri-cycle. |
| | | FY 23 - Replace F150 environmental services truck |
| | | FY 24 - Replace skid steer loader and replace batteries for administration Prius. |
| | | FY 25 - Replace Ford E250 van. |
| | | FY 26 - Replace F450 flatbed with a mechanic's truck, and one electric cart. |
| | | FY 27 - Replace a maintenance vehicle and one electric cart. |
| 7430-958-00 | Laboratory Equipment | This account includes allowances for scheduled replacement of laboratory equipment such as autoclaves, pumps, collection/sampler systems, washers, incubators, bioassay system, etc. |
| | | FY 19 - Replace BOD incubator, centrifuge, sample refrigerator, primary and secondary process samplers and an automated BOD testing system. |
| | | FY 20 – Replace and potentially relocate the bioassay system to the final effluent vault or end residual room, and replace temperature monitors. |
| | | FY 21 - Replace ammonia distillation system, chlorine titrators, biotower sampler, and microscope. |
| | | FY 22 - Replace the SD2 vault sampler and microbiological incubators. |
| | | FY 23 - Purchase a FIA-IC system to measure ammonia, nutrients, and other constituents. |
| | | FY 24 – 28 Allowance to replace equipment as need or purchase new equipment. |

| General Equipment | | | | | | | |
|----------------------------|---|--|--|--|--|--|--|
| ACCOUNT / | ACCOUNT / PROJECT DESCRIPTION | | | | | | |
| PROJECT TITLE | | | | | | | |
| Electrical Equipment | This account includes allowances for planned maintenance, upgrading, and replacement of Agency electrical components: individual motor controls and equipment panels, electric sluice gate operators, variable frequency drives, and electrical equipment to support process equipment. | | | | | | |
| | FY 19 - Replace two valve actuators on the SBS tank piping system. FY 20 - Replace five valve actuators on the hypochlorite tank piping system FY 21 - Purchase a spare actuator for the 66-inch effluent valve. FY 22 - Replace Control Room uninterruptible power source and purchase a spare actuator for the 72-inch gate. FY 23 - Purchase a spare actuator for the 84-inch gate. FY 24 - Purchase spare actuators for 4-inch to 8-inch valves. FY 25 -28 - Allowance for replacement of equipment as determined by condition assessment. | | | | | | |
| Plant Lighting | This account includes allowances to 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. | | | | | | |
| | FY 19 - Replace HPS lighting in Galleries C, L, and M, the headworks, solids handling building, and the digester pump mixing room. FY 20 - Replace HPS lighting in the grit loading bay, solids loading bay, and the secondary clarifier and effluent pump station wall packs. FY 21 - Replace HPS lighting in the bollards around the administration building and on light poles by the above ground diesel storage tank, 66-inch valve vault, OWRF, and sulfatreat vessels. FY 22 - Replace HPS lighting on the primary clarifiers 6 & 7, chlorine contact tanks 5 & 6 and polymer station. FY 23 - Allowance to replace any remaining HPS lighting. | | | | | | |
| Process Instrumentation | This account includes allowances for ongoing repair, replacement or upgrading of 4 to 6 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. FY 19 – Allowance for above equipment, plus replace two pressure transmitters on chlorine contact tanks 5 and 6. Purchase a spare laser level for the digester covers. FY 20 – Allowance for above equipment, plus replace portable gas monitors and install a new radar level measurement system in the OWRF. FY 21-28 – Allowance for above equipment. | | | | | | |
| | PROJECT TITLE Electrical Equipment Plant Lighting Process | | | | | | |

| | General Equipment | | | | | | | | | |
|-------------|---------------------|-------------------------------|--|--|--|--|--|--|--|--|
| ACCOUNT | ACCOUNT / | ACCOUNT / PROJECT DESCRIPTION | | | | | | | | |
| NUMBER | PROJECT TITLE | | | | | | | | | |
| 7450-105-00 | Electrical | See Full Page Description | | | | | | | | |
| | Distribution System | | | | | | | | | |
| | Rehabilitation | | | | | | | | | |

| | | Liquid Treatment Processes and Equipment |
|-------------------|--|---|
| ACCOUNT NUMBER | ACCOUNT / PROJECT TITLE | ACCOUNT / PROJECT DESCRIPTION |
| 7300-685-00 | Bio-Tower Rotary Distributor Replacement | See Full Page Description |
| 7300-700-00 | Plant Pumps | Scheduled replacement of centrifugal, positive displacement and chopper pumps. These pumps transport primary sludge, waste activated sludge, contact tank scum, and other liquids throughout the Agency facilities. This account includes the digester mixing pumps. |
| | | FY 19 - Replace two digester basement chopper pumps, four primary sludge pumps, and trays. FY 20 - Replace three carrier water pumps FY 21 - Refurbish one biotower pump. Replace two primary scum pumps and two plant sump pumps. FY 22 - Refurbish three recycled water pumps and one scum pump. Replace one headworks sample pump and two sump pumps. FY 23 - Replace two sump pumps and two secondary scum pumps. Allowance to replace additional pumps identified by condition assessments. FY 24 - Refurbish two digester mix pumps. Allowance to replace additional pumps identified by condition assessments. FY 25 -28 - Allowance to replace pumps identified by condition assessments. |

| | Liquid Treatment Processes and Equipment | | | | |
|-------------------|--|---|--|--|--|
| ACCOUNT NUMBER | , | | | | |
| 7300-719-00 | Chemical Pumps | This account includes an allowance for 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. | | | |
| | | FY 19 - Above allowances plus, replace one sodium bisulfite metering pump, one solids handling polymer activation unit, and one chemical induction mixer. FY 20 - Replace eight nitrate solution metering pumps, and replace one chemical induction mixer. FY 21 - Replace five disinfection (chlorine solution) metering pumps and one chemical induction mixer. FY 22 - Replace five sodium bisulfite metering pumps, two chemical transfer pumps, and one chemical induction mixer. FY 23 - Refurbish one polymer feed pump and one chemical induction mixer. Replace two headworks ferric chloride metering pumps. FY 24 -28 - Above allowances to replace chemical pumps based on condition assessment. | | | |
| 7300-720-00 | Gates Rehabilitation | See Full Page Description | | | |
| 7300-727-00 | Headworks Equipment | See Full Page Description | | | |
| 7300-981-00 | Odor Control System Improvements | See Full Page Description | | | |
| 7300-983-00 | 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. | | | |
| | | FY 19 Allowance for above equipment, plus install safe access gates onto four secondary clarifiers, two chlorine contact tanks, six headworks locations and four in Primary Clarifiers #6 & #7. FY 20 - Allowance for above equipment, plus refurbish or repair reclaimed water piping which supports tank wash down equipment. FY 21 - Replace original blowers and associated diffusers in the aerated grit tanks (Master Plan Project 04-3) FY 22 - Allowance for above equipment, plus perform a condition assessment siloxane media vessels, hydrogen sulfide media vessels, and appurtenances. FY 23 - 28 - General tank related replacement of equipment as determined by condition assessment. | | | |
| 7400-965-00 | Primary Clarifiers Rehabilitation | See Full Page Description | | | |

| Liquid Treatment Processes and Equipment | | | | | |
|--|--|---|--|--|--|
| ACCOUNT NUMBER | ACCOUNT / PROJECT TITLE | ACCOUNT / PROJECT DESCRIPTION | | | |
| 7300-990-00 | Secondary Clarifiers Rehabilitation | See Full Page Description | | | |
| 7300-???-?? | RAS/WAS Pump Replacement | See Full Page Description | | | |
| 7300-995-00 | Aeration System Rehabilitation | This new account includes replacement and rehabilitation of aeration system equipment. FY 19 - Replace aeration channel air diffusers FY 24 - Replace aeration diffuser membranes in all four tanks. | | | |
| 7400-966-00 | Critical Buried Pipe Inspection / Repairs | See Full Page Description | | | |
| 7430-855-00 Chemical Tanks | | Replacement of chemical storage tanks used throughout the treatment plant and in the collection system as they approach their service life. Tanks include 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. | | | |
| | | FY 19 - Replace the Greenbrae nitrate tank. FY 20 - Replace one sodium hypochlorite tank and the West Railroad nitrate tank. FY 21 - Replace one sodium hypochlorite tank and the Paradise nitrate tank. FY 22 - Replace the North Francisco nitrate tank and assess the headworks bulk ferric chloride storage tanks. FY 23 -24 - Allowance for an unspecified tank replacement. FY 24 - Replace a sodium bisulfite tank. FY 25 - Perform an assessment on the effluent pump station's convault diesel storage tank. FY 26 - 28 - Allowance for an unspecified tank replacement. | | | |
| 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 ongoing condition assessments are completed. | | | |
| | | FY 19 - Replace fourteen 6-inch and four 4-inch expansion joints in Agency gallery B system small diameter process piping. FY 20 —Replace six 4-inch Gallery A and nine 6-inch in Gallery C FY 21 — Fire protection pipeline and valve system replacement in selected location in the Galleries FY 22 - Replace valves associated with Digester #1. FY 23 - Replace valves associated with Digester #2. FY 24 - Replace the hot water pipe system into the Administration Building FY 25 - 28 — Allowance for repairs as determined by future condition assessments. | | | |

| | Liquid Treatment Processes and Equipment | | | | |
|-------------------|--|--|--|--|--|
| ACCOUNT NUMBER | | | | | |
| 7430-???-?? | CCT Valve Rehabilitation | the telescoping valves in the Chlorine Contact Tanks (CCT) 1 thru 4 are used to remove debris floating on the water urface. There is also a motor operated bar screen that removes debris from effluent that is diverted for recycled water sage. | | | |
| | | FY 27 - The 2018 Facilities Master Plan recommends replacing the telescoping valves in Chlorine Contact Tanks (CCT) 1 thru 4. An option that will be explored is to replace the telescoping valves with rotating pipe skimmers with motorized actuators. This project also includes replacing the recycled water screen. | | | |
| 7450-104-10 | Influent Flow Meter Improvement | Both the 45" San Rafael Interceptor and the 54" Ross Valley Interceptor were fitted with insertion magnetic-type meters in FY 11. Having both the original ultrasonic meters plus the magnetic meters can improve their accuracy in measuring large flow variations. | | | |
| | | FY 12 - Allowance to install new flow meter technology pending the results of the flow meter technology survey. | | | |

| | Solids Treatment And Energy Generation Processes and Equipment | | | | |
|-------------------|--|--|--|--|--|
| ACCOUNT NUMBER | | | | | |
| 7300-678-00 | Emergency Generator Assessment & Improvement | The emergency generator provides power to Agency Facilities when utility power is not available and the cogeneration system is 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 relative old, it has had minimal usage and is maintained per manufacturer's recommendations. | | | |
| | | FY 25 - A consultant will conduct an assessment of the generator for condition, air emissions and reliability. The budget includes an allowance for a preliminary design report that will include an estimate the cost to rehabilitate or replace the equipment. FY 26 - 27 - Allowance to fund design and installation of a replacement emergency generator based on findings of the assessment and preliminary design report. | | | |

| | Solids Treatment And Energy Generation Processes and Equipment | | | |
|-------------------|--|---|--|--|
| ACCOUNT NUMBER | ACCOUNT / PROJECT TITLE | ACCOUNT / PROJECT DESCRIPTION | | |
| 7300-691-00 | Digester Inspection, Cleaning and Cover Replacement | This account includes allowance for periodic cleaning and inspection of each anaerobic digester every 10 years based on conservative estimates of their membrane covers' service life. Agency staff will drain the tanks to allow a contractor to remove material that has accumulated inside of the tanks. A specialty contractor will replace the membrane covers after the cleaning is complete and then staff will return each digester to service. | | |
| | | FY 22 - Allowance to clean and inspect the interior of Digester No. 1 and replace its dual membrane cover. FY 23 - Allowance to clean and inspect the interior of Digester No. 2 and replace its dual membrane cover. | | |
| 7300-715-00 | Centrifuge Maintenance | See Full Page Description | | |
| 7300-722-00 | Cogeneration Maintenance | See Full Page Description | | |
| 7300-724-00 | Hot Water Systems | Repairs and replacement of hot water system pumps, valves, flex fittings, and piping as needed to maintain the system that supplies hot water to the digesters, other Agency facilities, and the administration building. FY 19 - Replace hot water pipe system insulation. FY 20 – 28 – Allowance for system repairs as needed. | | |
| 7300-???-?? | Digester Mixing Pump Study | Conduct a study to investigate the cause of the digester mixing pump vibration, any potential relationship to cracks in the pump room walls, and the need for an additional support system for the suction and discharge pipes. | | |
| 7300-725-00 | Boilers and Gas Processing | Scheduled inspection, repair and/or replacement of boiler tubes that are used to heat water for the Agency's hot water systems when the cogeneration engine is offline. FY 19 - Allowance for major maintenance of boilers and gas compression system. FY 25 - Replacement of two existing boilers, upgraded to meet future Bay Area Air Quality Management District | | |
| 7300-977-00 | Sludge Recirculating Pump Grinders | requirements An annual allowance for replacement of two sludge grinders' high-wear cutter cassettes. | | |
| 7300-978-00 | 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. FY 19 -28- Allowance for minor maintenance of mechanical equipment every other year. | | |

| | Solids Treatment And Energy Generation Processes and Equipment | | | | |
|--|--|--|--|--|--|
| ACCOUNT NUMBER | ACCOUNT / PROJECT TITLE | ACCOUNT / PROJECT DESCRIPTION | | | |
| 7300-???-?? | Organic Waste Receiving Facility Equipment | New account for repairs and replacement of pumps, valves, monitors, and other equipment in the Organic Waste Receiving Facility (OWRF). Due to the high solids content and low pH of the organic slurry, equipment in the OWRF requires frequent repairs and/or replacement. The annual allowance is based on the cost of equipment typically consumed in a year. | | | |
| 7300-660-00 PG&E Interconnection Agreement | | The PG&E offsite and CMSA onsite improvements were completed in FY 18. However, it is possible that additional testing may be required in FY 19 to finalize the Interconnection Agreement (IA) terms. The budget includes an allowance for unexpected expenses related to completing the IA. | | | |
| | Modification | CMSA submitted a State Revolving Fund (SRF) Green Project Reserve grant application with a Plan of Study that includes consultant tasks to define operational limits for biogas and power generation, OWRF expansion, IA modification, CEQA/NEPA environmental review, air quality permitting, financial funding review and project management activities. The total estimated cost for the Plan of Study is \$666,859, of which \$500,000 is available for reimbursement. Because CMSA will only be reimbursed for expenses incurred, an allowance of \$100,000 has been included in this account to cover costs while waiting for reimbursement. | | | |
| Number for CIP Projects CIP projects, as listed below. Costs for FY 18 are based on a (FTE's). Costs for future years are based on a one FTE allow | | Capitalization of compensation and benefits for CMSA staff time to manage design of, contracting for, and construction of CIP projects, as listed below. Costs for FY 18 are based on actual estimated staff time, totaling 2 Full Time Equivalencies (FTE's). Costs for future years are based on a one FTE allowance, and will be modified for each current fiscal year in that year's CIP budget. The projects identified for staff cost capitalization in FY 18 are: | | | |
| | | 7300-720-10 Gates Rehabilitation 7300-990-00 Secondary Clarifiers Rehabilitation 7400-966-00 Process Piping Inspection/Repairs/Replacement 7300-715-00 Centrifuge Maintenance 7300-660-00 PG&E Interconnection Agreement Modification | | | |

| Effluent Storage Pond Rehabilitation (GL 7300-103-10) | | | | |
|---|---|------------------------|----------------------|--|
| Type of Project | Design and Capital Construction | Lead Department | Engineering | |
| Project Delivery | Formally bid construction | | | |
| 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 in FY 22 and potential renovation of berms and bottom in FY 23. | | | |
| Elements | FY 22 - Survey entire berm, top road, and pond bottom for excessive or uneven settlement; FY 23 - Based on survey results, allowance for re-grading the pond bottom and / or raising the berm, including extending and re-anchoring the buried extra liner material and rebuilding the service road on top of the berm. | | | |
| 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. | | | |
| | Projected Expendi | tures FY 19 - 28 | | |
| | | | FY 22 \$38,700 | |
| | | | FY 23 1,225,700 | |
| | | FY 19 – 28 | Total \$1,264,000 | |
| | Implementatio | on Schedule | · | |
| Schedule | Activity Descri | ption | Cost | |
| FY 22 | Allowance to survey and design improvements to berm, road, and/or pond bottom. 38,700 | | | |
| FY 23 | Allowance to raise pond berm and ext | tend and re-anchor cov | er. 1,264,000 | |
| | Project Total \$1,354,454 | | | |

Project Photo



Effluent Storage Pond

| Agency Facilities Master Plan (GL 7300-700-10) | | | | |
|--|--|---|--|--|
| Type of Project | Planning Study | Lead Department | Engineering | |
| Project Delivery | Request for Proposals | | | |
| Description and Justification | This Master Plan will include sev projects. A traditional master pl Because there is limited potentia will focus on the condition of the potential regulatory changes, re- | an primarily considers al for growth in the Age e Agency's aging faciliti | the impacts related to growth. ency's service area, this study es, impacts associated with | |

| | operational improvements, and climate change. The Master Plan recommendations | | | |
|-----------------|---|------------------------|--|--|
| | will be presented to the Board and selected activities and projects will be incorporated | | | |
| | into the FY 19 10-Year CIP and Revenue Program. | | | |
| Elements | - Recommendations for if and when aging infrastructure sho | • | | |
| | or retrofitted with a newer technology that reduces electric | cal consumption or GHG | | |
| | emissions. | | | |
| | - Agency specific options for additional biogas use including | energy generation, | | |
| | natural gas pipeline injection, and a vehicle fueling station | | | |
| | - Evaluation of potential regulatory changes including nutrie | | | |
| | - Evaluation of biosolids management practices and identific | ation of future | | |
| | alternatives | | | |
| | - Potential facility and/or equipment improvements to addre | | | |
| | - Identify feasible locations and sizes for solar power facilitie | | | |
| | - A calibrated treatment plant model that can be used to sim | _ | | |
| | operational strategy and for training of new operations sta | | | |
| Risk Assessment | The Agency should regularly conduct master planning activities | • | | |
| | associated with infrastructure management, regulatory changes, and capacity | | | |
| | restrictions. Because there are no immediate drivers to alter the facility, this project is | | | |
| | considered low risk. | | | |
| | Projected Expenditures FY 19 - 28 | | | |
| | FY 19 | \$40,000 | | |
| | FY 19 – 28 Tota | \$40,000 | | |
| | Implementation Schedule | | | |
| Schedule | Activity Description | Cost | | |
| FY 17 | Develop and issue an RFP to select a consultant and begin | \$230,000 | | |
| | preparation of the Master Plan. | | | |
| FY 18 | Continue working on the Master Plan. 260,000 | | | |
| FY 19 | FY 19 Complete the Master Plan. 40,00 | | | |
| | Project Tota | \$530,000 | | |

Project Photos:



Agency Facilities



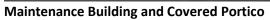
Organic Waste Receiving Facility



Effluent Pumps

Project Photos







Area to be enclosed for additional storage

| Facility Roofs Rehabilitation (GL 7400-960-00) | | | | | |
|--|---|------------------|-------|-------------|--|
| Type of Project | Design and Capital Construction Lead Department Engineering | | | | |
| Project Delivery | Formally bid | | | | |
| Description and Justification Elements | In FY 2015, the Agency had a roofing expert survey all its building roofs. The assessment indicated that the original standing seam metal roofs are in good condition. Therefore, planned replacement of the roofs has been postponed. This item contains allowances to rehabilitate the standing seam metal roofs on the Administration, Maintenance, Aeration and Secondary Clarifier control buildings and the Maintenance Annex, and to perform minor repairs on their supporting structures, if required. FY 18 - (Completed)Replace gutters on the aeration system and secondary clarifier control buildings; FY 20 - Prepare construction documents to bid and perform a contract for roof system replacement, structural repairs, and/or seismic upgrades; FY 21 - Construct upgrades to the structures; | | | | |
| D'. I | FY 23 - Construct roof repairs on the | | | | |
| Risk Assessment | This is a medium risk project. A recent roof inspection indicated that the roof system for the Administration building is in good condition but that it will require rehabilitation in the future. | | | | |
| | Projected Expendit | tures FY 19 – 28 | | | |
| | | | FY 20 | 78,100 | |
| | | | FY 21 | 953,600 | |
| | | | FY 23 | 9,900 | |
| | | FY 19 – 28 | Total | \$1,041,600 | |
| | Implementation | on Schedule | | | |
| Schedule | Activity Description | | Cost | | |
| FY 18 | Gutter replacement for the aeration system and secondary 35,000 | | | | |
| (Completed) | clarifier control buildings | | | | |
| FY 20 | Prepare construction documents for necessary upgrades 75,500 | | | | |
| FY 21 | Planned construction for roof replacement and structural / 921,400 seismic upgrades or repairs. | | | | |
| FY 23 | Roof repairs recommended in Mast | er Plan Project | | 9,900 | |
| | Project Total \$1,041,800 | | | | |

Project Photo



Maintenance Building with standing seam metal roofs.

| | Solids Handling Building Elevator Control Replacement (GL 7400-???-??) | | | | | |
|-------------------------------|--|------------------|--------------|--|--|--|
| Type of Project | Design and Capital Construction | Lead Department | Engineering | | | |
| Project Delivery | Formally bid | | | | | |
| Description and Justification | The 2018 Facility Master Plan condition assessment initially recommended replacing the entire elevator (Master Plan Project 12-5). 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. | | | | | |
| Elements | FY 23 - Replace the Solids Handling Building elevator control system in the system. | | | | | |
| Risk | This is a medium risk project. The control system has required increased maintenance and | | | | | |
| Assessment | will potentially not pass an annual inspection in the near future if it is not replaced. | | | | | |
| | Projected Expendit | cures FY 19 – 28 | | | | |
| | | F | Y 23 103,500 | | | |
| | FY 19 – 28 Total \$103,500 | | | | | |
| | Implementation Schedule | | | | | |
| Schedule | Activity Description | | Cost | | | |
| FY 23 | Replace elevator control system | | 103,500 | | | |
| | Project Total \$103,500 | | | | | |

| Facility Structures Seismic Study (GL 7400-???-??) | | | | | | | |
|--|--|-------------------------|--------------------------------|-----|--|--|--|
| Type of Project | Design and Capital Construction | Lead Department | Engineering | | | | |
| Project Delivery | Formally bid | | | | | | |
| 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 round 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. | | | | | | |
| Elements | FY 20 – Conduct a study to quantify the risk of structural damage due to soil settlement and identify future structural improvement projects, if necessary. | | | | | | |
| Risk Assessment | This is a medium risk project due to the from soil settlement. | ne unknown risk posed t | o facility structures resultin | ng | | | |
| | Projected Expenditures FY 19 – 28 | | | | | | |
| | | F | Y 20 207,0 | 000 | | | |
| | | FY 19 – 28 1 | Total \$207,0 | 000 | | | |
| Implementation Schedule | | | | | | | |
| Schedule | Activity Description | | Cost | | | | |
| FY 20 | Conduct seismic study | | 207,0 | | | | |
| | | Project 1 | Fotal \$207,0 | 000 | | | |

| Electrical Distribution System Rehabilitation (GL 7450-105-00) | | | | | |
|---|---|-----------------|--------|-------------|--|
| Type of Project | Design and Capital Construction | Lead Department | Engine | eering | |
| Project Delivery | 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 that was installed when the facility was constructed in 1985. While most of the equipment continues to operate, it is difficult to locate functional replacement equipment because manufacturers no longer provide technical support. This project also includes allowances in later years to replace motor control centers (MCCs) located in several treatment process areas when condition assessment findings warrant replacement. FY 21 – Replace electrical equipment and the HVAC system in the existing switchgear | | | | |
| Risk Assessment | building. FY 23 – Allowance to refurbish or replace a MCC based on condition assessment findings. FY 25 – Allowance to refurbish or replace a MCC based on condition assessment findings. FY 27 – Allowance to refurbish or replace a MCC based on condition assessment findings. 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. Projected Expenditures FY 19 – 28 | | | | | |
| | · · · | | FY 21 | 1,204,800 | |
| | | | FY 23 | 194,500 | |
| | | | FY 25 | 203,800 | |
| | | | FY 27 | 216,200 | |
| | | FY 19 – 28 | Total | \$1,819,300 | |
| Implementation Schedule | | | | | |
| Schedule | Activity Description | | | Cost | |
| FY 20 | Replace switchgear | | | 1,204,800 | |
| FY 21 | Replace a MCC | | | 194,500 | |
| FY 23 | Replace a MCC | | | 203,800 | |
| FY 25 | Replace a MCC | | | 216,200 | |
| | | Project | Total | \$1,819,300 | |

| Biotower Rotary Distributor Replacement (GL 7300-685-00) | | | | | | |
|--|--|-----------------|-----------------|--|--|--|
| Type of Project | Design and Capital Construction | Lead Department | Engineering | | | |
| Project Delivery | Informally bid | | | | | |
| Description and Justification | The biotowers are the first of two secondary treatment processes, and remove some of the biochemical oxygen demand (BOD) 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 and they have about 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 | | | | | |
| Elements Risk Assessment | Project 06-2). Replace galvanized-steel distributor mechanism and plastic spreader nozzles with a motor —operated mechanism; Replace distributor bearing; Replace or recoat the cast iron turntable on which the mechanism turns; and Replace the top tier of media that is subject to weather damage. This is a medium risk project. The rotary distributer is operating but has significant corrosion. The upper media bed needs to be replaced due to weather damage. The | | | | | |
| | project description and timing may change based on the Facilities Master Plan findings. | | | | | |
| Projected Expenditures FY 19 – 28 | | | | | | |
| | | | FY 24 \$988,000 | | | |
| | | FY 19 – 28 | Total \$988,000 | | | |
| | Implementation Schedule | | | | | |
| Schedule | Activity Description | | Cost | | | |
| FY19 | Media, rotary distributor and bearing replacement \$988,000 | | | | | |
| | | Project ' | Total \$988,000 | | | |

Project Photos:



Original base & turntable, Biotower No. 2



New rotary distributor, Biotower No. 2

| Gates Rehabilitation (GL 7300-720-00) | | | | | | | | |
|--|---|-------------------------|-------------------|--|--|--|--|--|
| Type of Project | Design and Capital Construction | Lead Department | Engineering | | | | | |
| Project Delivery | Formally bid | | | | | | | |
| There are several large gates that control flow into, though, 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 due to being more corrosion resistant and having sealing surfaces that can be refurbished. This account includes two projects recommended in the 2018 Facility Master Plan. The first project replaces the hydraulic system used to open and close primary clarifier gates with an electronic actuator system that will be operated in SCADA (Master Plan Project 04-1). The second project is the replacement of the three influent gates of Chlorine Contact Tanks (CCT) 1 thru 4 (Master Plan Project 09-1). | | | | | | | | |
| Risk Assessment | FY 19 – Replace primary clarifier gates hydraulic actuator system with an electric system. FY 20 – Replace Ross Valley and San Rafael influent gates in the headworks building and other gates as needed. FY 21 - 23 – Allowance to replace gates as needed based on condition assessment. FY 24 – Replace CCT 1 thru 4 influent gates. FY 25 – 28 – Allowance to replace gates as needed based on condition assessment. This is a medium risk project provided the gates are replaced according to condition assessment findings. The most risk is if a gate fails in a position that it is not normally in | | | | | | | |
| | which could lead to a process interrup | | , | | | | | |
| | Projected Expendit | tures FY 19 – 28 | | | | | | |
| | | i i | Y 19 436,400 | | | | | |
| | | | -Y 20 77,500 | | | | | |
| | | FY 21-23 (T | otal) 244,100 | | | | | |
| | | | Y 24 437,700 | | | | | |
| | | FY 25 – 28 (T | otal) 362,300 | | | | | |
| | | FY 19 – 28 ⁻ | Total \$1,558,000 | | | | | |
| | Implementation | on Schedule | | | | | | |
| Schedule | Activity Description | | Cost | | | | | |
| FY 19 | Replace primary clarifier hydraulic s | system | 436,400 | | | | | |
| FY 20 | FY 20 Replace San Rafael and Ross Valley influent gates 77,5 | | | | | | | |
| FY 21-23 | FY 21-23 General allowance for gate replacement 244,100 | | | | | | | |
| FY 24 | Replace CCT 1 thru 4 influent gates | | 437,700 | | | | | |
| FY 25-28 | General allowance for gate replacer | ment | 362,300 | | | | | |
| | • | Project ⁻ | Total \$1,558,000 | | | | | |

| Headworks Equipment (GL 7300-727-00) | | | | | | | | |
|---|---|--------------------------|-----------------------------|--|--|--|--|--|
| Type of Project | Design and Capital Construction | Lead Department | Engineering | | | | | |
| Project Delivery | Formally bid | | | | | | | |
| Description and ustification 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. This equipment operates in a very corrosive and erosive environment and requires ongoing maintenance and refurbishment or replacement. This account includes two projects recommended in the 2018 Facility Master Plan. The first project replaces the hydraulic pumps and control system used to open and close headworks gates (Master Plan Project 04-1). The second project is the replacement of the four original grit classifier systems with new grit classifiers (Master Plan Project 04-2). | | | | | | | | |
| Elements | Y 19 - 22 – Allowance to replace equipment as needed based on condition assessment. Y 23 – Remove the hydraulic control system and install a new hydraulic unit with associated pumps and controls. Y 24 – Allowance to replace equipment as needed based on condition assessment. Y 25 - 26 – Replace four grit classifiers systems including associated pumps, piping and controls. Y 27 – 28 – Allowance to replace equipment as needed based on condition assessment. | | | | | | | |
| Risk | This is a low risk project because most | | • | | | | | |
| Assessment | equipment that allows the plant to op for maintenance. | perate with one piece of | equipment is out of service | | | | | |
| | Projected Expendit | tures FY 19 – 28 | | | | | | |
| | | FY 19 – 22 (1 | Total) 118,800 | | | | | |
| | | | FY 23 361,100 | | | | | |
| | | | FY 24 32,100 | | | | | |
| | | FY 25 - 26 (1 | Total) 1,311,800 | | | | | |
| | | FY 27 – 28 (1 | | | | | | |
| | | FY 19 – 28 | Total \$1,894,300 | | | | | |
| | Implementatio | on Schedule | T - | | | | | |
| Schedule | Activity Description | | Cost | | | | | |
| FY 19 – 22 (Total) | | eplacement | 118,800 | | | | | |
| FY 23 | Replace hydraulic control system 361,100 | | | | | | | |
| FY 24 | General allowance for equipment re | eplacement | 32,100 | | | | | |
| FY 25 - 26 (Total) | (Total) Replace grit classifier units 1 thru 4 1,311,800 | | | | | | | |
| 5) (2 7 | 7 – 28 (Total) General allowance for equipment replacement 70,500 | | | | | | | |
| FY 27 – 28 (Total) | General allowance for equipment re | еріасетіені | 70,300 | | | | | |

| Odor Control System Improvements (GL 7300-981-00) | | | | | | | | |
|---|--|--------------------|-------------|------------------|--|--|--|--|
| Type of Project | Design and Capital Construction | Lead Department | Enginee | ring | | | | |
| Project Delivery | Formally bid | | | | | | | |
| Description and Justification | Some wastewater treatment processes produce odorous and/or corrosive gasses. 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 life. 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 our surrounding neighbors The 2018 Facilities Master Plan considered the conceptual design report findings and recommends replacing the Headworks and Biotower odor scrubbers. An allowance has been added to replace the odor scrubber in the SHB if performance significantly degrades. | | | | | | | |
| Elements | FY 24 – Remove the Headworks odor scrubber replacement with an activated carbon scrubber FYI 26 - Remove the Biotower basement odor scrubbers replacement with a single activated carbon scrubber FY 27 – Allowance to design and construct scrubber replacement in the SHB. | | | | | | | |
| Risk Assessment | This is a low risk project because the Projected Expendi | | erating wit | th minor issues. | | | | |
| | Projected Expendi | tures F1 19 - 20 | FY 24 | 2,003,600 | | | | |
| | | | FY 26 | 2,276,800 | | | | |
| | | | FY 27 | 1,546,800 | | | | |
| | | FY 19 – 28 | 3 Total | \$5,827,200 | | | | |
| | Implementation | on Schedule | | | | | | |
| Schedule | Activity Description | | (| Cost | | | | |
| FY 24 | Design and construct Headworks so | rubber replacement | | 2,003,600 | | | | |
| FY 26 | Design and construct Biotower scrubber replacement 2,276,800 | | | | | | | |
| FY 27 | Design and construct SHB scrubber | replacement | | 1,546,800 | | | | |
| | | Project | t Total | \$5,827,200 | | | | |

Project Photos:



Odor control scrubbers, with air handlers, two views.

| Primary Clarifiers Rehabilitation (GL 7400-965-00) | | | | | | | | |
|--|---|---|------------------|--|--|--|--|--|
| Type of Project | Design and Capital Construction | Lead Department E | ingineering | | | | | |
| Project Delivery | Formally bid | 1 | | | | | | |
| Description and Justification | There are seven primary clarifiers in the treatment plant. Five of the clarifiers were installed during the original plant construction and two were installed during the Wet Weather Improvement Project. 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 Plans recommends a project to address work noted above plus repairing concrete damage and replacing metal piping with PVC pipe (Master Plan Project 05-1). | | | | | | | |
| Elements | FY 19 – Replace primary drive units for Primary Clarifiers No. 1 thru 5. FY 22 – Recoat Clarifier No. 1 interior concrete, repair concrete, replace scum skimmer drive and motor, replace metal launders with FRP, and replace metal pipes. FY 23 – Repeat elements above for Clarifier No. 2. FY 24 – Repeat elements above for Clarifiers No. 3. FY 25 – Repeat elements above for Clarifiers No. 4 and 5. FY 27 – 28 – Allowance for industrial coatings in Clarifier No. 6 and 7. | | | | | | | |
| Risk Assessment | | This is a low risk project because the planned work will be conducted in the summer when primary clarifiers can be out of service for extended periods of time. | | | | | | |
| | Projected Expendit | cures FY 19 – 28 | | | | | | |
| | | FY | 19 40,000 | | | | | |
| | | FY | 22 347,800 | | | | | |
| | | | 23 358,300 | | | | | |
| | | | 24 369,200 | | | | | |
| | | | 25 760,800 | | | | | |
| | | FY 27 – 28 (Tot | , | | | | | |
| | | FY 19 – 28 To | stal \$2,205,100 | | | | | |
| Calcada Ia | Implementatio | n Schedule | 0 | | | | | |
| Schedule | Activity Description | | Cost | | | | | |
| FY 19 | Replace primary drive units | | 40,000 | | | | | |
| FY 22 | Primary Clarifier No. 1 coating and 6 | · · | 347,800 | | | | | |
| FY 23 | , | | | | | | | |
| | FY 24 Primary Clarifier No. 3 coating and equipment 369,20 | | | | | | | |
| FY 25 | Primary Clarifiers No. 4 and 5 coating | <u> </u> | 760,800 | | | | | |
| FY 27 – 28 (Total) | Primary Clarifiers No. 6 and 7 coating | | 329,000 | | | | | |
| | | Project To | stal \$2,205,100 | | | | | |

| | Secondary Clarifiers Rehabilitation (GL 7300-990-00) | | | | | | | | |
|----------------------------------|--|---|-------|-------------|--|--|--|--|--|
| Type of Project | Design and Capital Construction | Lead Department | Engin | eering | | | | | |
| Project Delivery | Formally bid | | | | | | | | |
| Description and Justification | There are four secondary clarifiers in the treatment plant. The 2018 Facilities Master Plans recommends a project for each clarifier to repair corrosion on mechanical equipment, metal structural components and pipes inside the clarifier, resurfacing the effluent trough concrete, retrofitting the catwalk with FRP grating and repairing corrosion on piping in the sumps in the pump room (Master Plan Project 08-1). While each clarifier is out of service, the large drive turntables in Clarifiers 1, 3, and 4 will be replaced. The turntable drive for Clarifier No. 2 was replaced in 2011. | | | | | | | | |
| Elements | FY 20 – Refurbish Clarifier No. 4 as no FY 21 – Refurbish Clarifier No. 1 as no | FY 19 – Refurbish Clarifier No. 3 as noted above and replace the turntable drive. FY 20 – Refurbish Clarifier No. 4 as noted above and replace the turntable drive. FY 21 – Refurbish Clarifier No. 1 as noted above and replace the turntable drive. FY 22 – Refurbish Clarifier No. 2 as noted above. | | | | | | | |
| 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 | | | | | | | |
| | Projected Expendit | tures FY 19 – 28 | | | | | | | |
| | | | FY 19 | 325,700 | | | | | |
| | | | FY 20 | 331,400 | | | | | |
| | | | FY 21 | 401,800 | | | | | |
| | | | FY 22 | 227,800 | | | | | |
| | | FY 19 – 28 | Total | \$1,286,700 | | | | | |
| | Implementation | on Schedule | | | | | | | |
| Schedule | Activity Description | | | Cost | | | | | |
| FY 19 | Secondary Clarifier No. 3 refurbishn | | | 325,700 | | | | | |
| FY 20 | Secondary Clarifier No. 4 refurbishn | | | 331,400 | | | | | |
| FY 21 | Secondary Clarifier No. 1 refurbishn | | 9 | 401,800 | | | | | |
| FY 22 | Secondary Clarifier No. 2 refurbishn | | | 227,800 | | | | | |
| | | Project ' | Total | \$1,286,700 | | | | | |

| RAS/WAS Pump Replacement (GL 7300-???-??) | | | | | | | | |
|---|--|------------------|-------------------|--|--|--|--|--|
| Type of Project | Design and Capital Construction | Lead Department | Engineering | | | | | |
| Project Delivery | Formally bid | • | | | | | | |
| Description and Justification | The 2018 Facilities Master Plans recommends a project to replace the Return Activated Sludge (RAS) and Waste Activated Sludge (WAS) pump systems (Master Plan Project 08-2). These pumping systems are an integral part of the activated sludge treatment process and are mostly original equipment. While the systems are currently operating without major issues, many of the pumps have moderate corrosion and leaks. This project will replace the pump systems and install valving as needed to provide increased ability to isolate pumps for maintenance in the future. The design phase will investigate if it is possible to utilize RAS pump only with diversion valves to split WAS and RAS. | | | | | | | |
| Elements | FY 21 – Determine if WAS pumps can be eliminated and prepare design documents FY 22 -23 – Construction of pump system improvements. | | | | | | | |
| Risk Assessment | This is a high risk project because fails treatment plant process disruptions a NPDES treatment limits. | | <u> </u> | | | | | |
| | Projected Expendi | tures FY 19 – 28 | | | | | | |
| | | | FY 21 389,700 | | | | | |
| | | FY 22 – 23 (7 | Total) 1,559,000 | | | | | |
| | | FY 19 – 28 | Total \$1,948,700 | | | | | |
| | Implementation | on Schedule | | | | | | |
| Schedule | Activity Description | | Cost | | | | | |
| FY 21 | Project design phase | | 389,700 | | | | | |
| FY 22-23 (Total) | Construct RAS & WAS pump system | n improvements | 1,559,000 | | | | | |
| | | Project | Total \$1,948,700 | | | | | |

| Process Piping Inspection/Repairs/Replacement (GL 7400-966-00) | | | | | | | | | | |
|--|---|-----------------|--------|-------------|--|--|--|--|--|--|
| Type of Project | Inspection and Capital Construction | Lead Department | Engine | ering | | | | | | |
| Project Delivery | Inspection – Request for Proposals; Repairs - 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 the treatment plant. Within the treatment plant there are several large diameter pipelines that transfer water between treatment process including the Primary Effluent pipeline and the Return Activated Sludge pipelines. The treatment plant pipelines contain elastomeric joints that are nearing the end of their service lives. Inspecting these critical buried pipe flex joints may require diver inspection or robotic inspection technology because the pipelines are difficult to keep dewatered. The 2018 Facilities Master Plan recommends two repair pipe repair projects in the galleries. The first project addresses corrosion on the 54-inch effluent pipe in Gallery L and the second project addresses repairs to chemical containment lines that are routed throughout the gallery system. | | | | | | | | | |
| Risk Assessment | FY 19 - Interior inspection of the pipelines, elastomeric joints, and selected sumps, with possible uncovering of the exterior of some buried joints throughout the Agency Facility. Includes possible internal sealing of some or all of the elastomeric joints and external pipe repairs, based on inspection results. FY 25 – Repair corrosion on the 54-inch storage pond discharge pipe by installing a plug or bypass. FY 26 – Replace chemical lines located along gallery walls with double contained PVC pipe and explore opportunities to relocate chemical piping to the bottom of the pipe rack. FY 27 – Allowance to inspect the San Rafael and Ross Valley Interceptors. 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. | | | | | | | | | |
| | Projected Expendit | turos EV 10 20 | | | | | | | | |
| | r Tojected Experium | | FY 19 | 190,000 | | | | | | |
| | | | FY 25 | 799,300 | | | | | | |
| | | | FY 26 | 113,800 | | | | | | |
| | | | FY 27 | 163,400 | | | | | | |
| | | FY 19 – 28 | Total | \$1,266,500 | | | | | | |
| | Implementatio | n Schedule | | | | | | | | |
| Schedule | Activity Description Cost | | | | | | | | | |
| FY 19 | FY 19 Inspect buried pipelines 190,000 | | | | | | | | | |
| FY 25 | Repair 54-inch storage pond pipe 799,300 | | | | | | | | | |
| FY 26 | Replace and relocate gallery chemic | | | 113,800 | | | | | | |
| FY 27 | Inspect the San Rafael and Ross Vall | · | | 163,400 | | | | | | |
| | Project Total \$1,266,500 | | | | | | | | | |





Biotower effluent pipe

Primary Effluent pipe manifold

| Centrifuge Maintenance (GL 7300-964-10) | | | | | | | | | |
|---|---|--|---------------------------|--|--|--|--|--|--|
| Type of Project | Design and Capital Construction | Lead Department | Engineering | | | | | | |
| Project Delivery | Informally and formally bid | | | | | | | | |
| Description and | The Agency dewaters digested sludge | • . | | | | | | | |
| Justification | | 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 a condition assessment of the centrifuges in 2016 and found the centrifuges were in relatively good condition. The 2018 | | | | | | | | |
| | Facilities Master Plan recommends re | _ | , • | | | | | | |
| | that have larger capacity to handle th | | | | | | | | |
| | delivery of organic waste. | • | | | | | | | |
| Elements | FY 19 - Allowance to refurbish one ce | FY 19 - Allowance to refurbish one centrifuge ; | | | | | | | |
| | FY 21 – Begin design of centrifuge rep | | | | | | | | |
| | FY 22 - Construct the centrifuge repla | cement. | | | | | | | |
| Risk Assessment | This is a low risk project because the | evisting centrifuges wit | h nroner maintenance are | | | | | | |
| Misk Assessment | expected to operate and meet the Ag | | in proper maintenance are | | | | | | |
| | Projected Expend | | | | | | | | |
| | | | FY 19 40,000 | | | | | | |
| | | | FY 21 500,000 | | | | | | |
| | | | FY 22 2,703,000 | | | | | | |
| | | FY 18 – 2 | 27 Total \$3,243,000 | | | | | | |
| | Implementati | on Schedule | | | | | | | |
| Schedule | Activity Description | | Cost | | | | | | |
| FY 19 | Allowance for refurbishment of or | ne centrifuge | 40,000 | | | | | | |
| FY 21 | Design centrifuge replacement | | 500,000 | | | | | | |
| FY 22 | Construct centrifuge replacement | | 2,703,000 | | | | | | |
| | | Proje | ct Total \$3,243,000 | | | | | | |

Project Photos:



Existing Centrifuges



Biosolids Hoppers

| Cogeneration Maintenance (GL 7300-722-00) | | | | | | | |
|---|--|-----------------------------|--|--|--|--|--|
| Type of Project | Design and Capital Construction Lead Department En | ngineering | | | | | |
| Project Delivery | 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 engine and generator. Larger maintenance activities include onsite, 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. Although the engine and generator life can be extended with proper periodic major overhauls, cogeneration technologies are continuing to improve and become more efficient. The design and replacement of the cogeneration technology is planned to begin in FY 19 and end in FY 22. 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 after the new cogeneration system is installed. | | | | | | |
| Elements | FY 19 - Onsite engine upper end rebuild and replace turbo chargers, plus allowance for cogeneration technology survey. FY 20 - Design of replacement cogeneration technology. Because current engine will be kept as a reliable backup system, conduct major offsite overhaul for engine, five year generator preventive maintenance, and replace turbo chargers. FY 21 - Procurement and begin installation of a replacement cogeneration technology. FY 22 - Completion of the installation of a replacement cogeneration technology. FY 23 - 28 - Allowances for major maintenance of the cogeneration facility This is a low risk project because the existing engine can remain in service for an extended | | | | | | |
| Assessment | period of time if properly maintained. However, the Agency wou generate additional revenue from a more efficient system. | uld lose the opportunity to | | | | | |
| | Projected Expenditures FY 19 – 28 | | | | | | |
| | FY 1 | 181,600 | | | | | |
| | FY 2 | | | | | | |
| | FY 2 | | | | | | |
| | FY 2 | 22 1,694,700 | | | | | |
| | FY 23 – 28 (Tota | al) 440,100 | | | | | |
| | FY 19 – 28 Total | al \$4,702,000 | | | | | |
| | Implementation Schedule | | | | | | |
| Schedule | Activity Description | Cost | | | | | |
| FY 19 | Existing engine upper end rebuild and technology survey | 181,600 | | | | | |
| FY 20 | Existing engine offsite overhaul and new system design | 374,600 | | | | | |
| FY 21 | Procure and begin installation of the new system | 2,011,000 | | | | | |
| FY 22 | Complete installation of the new system | 1,694,700 | | | | | |
| FY 23 – 28 (Total) | Allowance for major maintenance | 440,100 | | | | | |
| | Project Tot | al \$4,702,000 | | | | | |

Ten-Year Financial Forecast

CENTRAL MARIN SANITATION AGENCY 10-YEAR FINANCIAL FORECAST

| | | | | | Revenue Program Period | | | Service Charges / Cap Fee at Last Authorized | | | | |
|------|--|---------|---------------|---------------|------------------------|---------------|----------------|--|-------------------|----------------|---------------|---------------|
| | | | Adopted | Proposed | | | 10-Year CIP Pi | rogram - Base Yeai | Plus 9 Additional | Forecast Years | | |
| Line | | | Budget | Budget | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 |
| No. | Description | Assump | FY 17-18 | FY 18-19 | FY 19-20 | FY 20-21 | FY 21-22 | FY 22-23 | FY 23-24 | FY 24-25 | FY 25-26 | FY 26-27 |
| | PRELIMINARY ASSUMPTIONS EDU CMSA | 47,724 | | | | | | | | | | |
| | Funding Requirements: | | | | | | | | | | | |
| а | Salaries and wages | 3.0% | \$ 5,401,800 | \$ 5,555,200 | \$ 5,721,856 | \$ 5,893,512 | \$ 6,070,317 | \$ 6,252,427 | \$ 6,439,999 | \$ 6,633,199 | \$ 6,832,195 | \$ 7,037,161 |
| b | Retirement - CalPERS normal cost (Note 2) | Various | 549,528 | 597,251 | 603,224 | 615,288 | 627,594 | 640,146 | 652,949 | 666,007 | 679,328 | 692,914 |
| С | Retirement - CalPERS UAL (Note 2) | Various | 481,072 | 597,749 | 627,636 | 706,091 | 829,657 | 1,016,330 | 1,295,820 | 1,749,358 | 1,749,358 | 1,749,358 |
| d | All other employee benefits | 2.0% | 1,530,500 | 1,563,700 | 1,594,952 | 1,626,805 | 1,659,359 | 1,692,514 | 1,726,371 | 1,760,928 | 1,796,187 | 1,832,146 |
| е | Chemicals and fuels | 1.5% | 1,069,500 | 1,126,900 | 1,143,822 | 1,160,952 | 1,178,392 | 1,196,041 | 1,214,001 | 1,232,169 | 1,250,648 | 1,269,438 |
| f | Biosolids management | 1.5% | 387,700 | 400,300 | 406,303 | 412,406 | 418,611 | 424,918 | 431,326 | 437,836 | 444,447 | 451,161 |
| g | Permit testing and monitoring | 1.0% | 179,500 | 148,800 | 150,275 | 151,747 | 153,215 | 154,780 | 156,342 | 157,901 | 159,456 | 161,007 |
| h | Maintenance and repairs - net of contract maint | 1.5% | 382,500 | 363,500 | 368,931 | 374,454 | 380,072 | 385,784 | 391,591 | 397,493 | 403,487 | 409,577 |
| i | Utilities | 1.0% | 350,500 | 311,200 | 314,272 | 317,440 | 320,603 | 323,762 | 327,017 | 330,267 | 333,613 | 336,954 |
| j | Insurance premiums | 2.5% | 261,200 | 250,800 | 257,077 | 263,545 | 270,101 | 276,846 | 283,779 | 290,901 | 298,211 | 305,708 |
| k | General and administrative (operating) | 2.0% | 868,800 | 879,600 | 897,168 | 915,133 | 933,396 | 952,056 | 971,113 | 990,567 | 1,010,419 | 1,030,667 |
| 1 | Operating before debt and capital | | 11,462,600 | 11,795,000 | 12,085,514 | 12,437,373 | 12,841,317 | 13,315,604 | 13,890,308 | 14,646,626 | 14,957,348 | 15,276,091 |
| m | Debt service actual plus estimated | | 3,961,906 | 3,973,206 | 3,967,331 | 4,603,006 | 4,612,006 | 4,611,706 | 5,306,381 | 5,308,506 | 5,303,381 | 5,352,756 |
| n | Operating before capital | | 15,424,506 | 15,768,206 | 16,052,845 | 17,040,379 | 17,453,323 | 17,927,310 | 19,196,689 | 19,955,132 | 20,260,729 | 20,628,847 |
| 0 | Capital program | | 3,817,600 | 2,962,200 | 2,857,300 | 7,731,700 | 7,921,600 | 5,263,800 | 4,967,100 | 3,717,700 | 5,549,500 | 5,314,200 |
| р | Total funding requirements | | \$ 19,242,106 | \$ 18,730,406 | \$ 18,910,145 | \$ 24,772,079 | \$ 25,374,923 | \$ 23,191,110 | \$ 24,163,789 | \$ 23,672,832 | \$ 25,810,229 | \$ 25,943,047 |
| | Funding Sources: (Note 3) | | | 3.5% | 3.5% | 3.5% | 3.5% | 3.5% | 0.0% | 0.0% | 0.0% | 0.0% |
| q | Unrestricted - Regional sewer service charges | 0.0% | \$ 10,263,165 | \$ 10,622,376 | \$ 10,994,159 | \$ 11,378,954 | \$ 11,777,218 | \$ 12,189,421 | \$ 12,189,421 | \$ 12,189,421 | \$ 12,189,421 | \$ 12,189,421 |
| r | Unrestricted - Capital fee (Note 4) | 0.0% | 630,000 | 811,259 | 1,020,824 | 435,529 | 640,904 | 865,486 | 0 | 0 | 0 | 0 |
| S | Unrestricted - All other revenues | 3.0% | 1,731,900 | 1,802,188 | 1,856,254 | 1,911,941 | 1,969,299 | 2,028,378 | 2,086,373 | 2,146,307 | 2,217,103 | 2,221,897 |
| t | Restricted capital - Debt service charge (Note 5) | | 3,961,906 | 3,973,206 | 3,967,331 | 4,603,006 | 4,612,006 | 4,611,706 | 5,306,381 | 5,308,506 | 5,303,381 | 5,352,756 |
| u | Restricted capital - Debt service coverage | | 990,477 | 993,301 | 991,833 | 1,150,752 | 1,153,002 | 1,152,927 | 1,326,595 | 1,327,127 | 1,325,845 | 1,338,189 |
| V | Restricted capital - Capacity charges | 2.7% | 29,300 | 30,091 | 30,904 | 31,738 | 32,595 | 33,475 | 34,379 | 35,307 | 36,260 | 37,239 |
| w | Subtotal funding sources before reserve (increase) usage | | 17,606,748 | 18,232,421 | 18,861,304 | 19,511,921 | 20,185,025 | 20,881,393 | 20,943,148 | 21,006,668 | 21,072,010 | 21,139,502 |
| х | Reserve (Increase) Usage (Note 6) | | 1,635,359 | 497,985 | 48,842 | 5,260,158 | 5,189,899 | 2,309,717 | 3,220,641 | 2,666,164 | 4,738,219 | 4,803,545 |
| У | Total funding sources | | \$ 19,242,106 | \$ 18,730,406 | \$ 18,910,145 | \$ 24,772,079 | \$ 25,374,923 | \$ 23,191,110 | \$ 24,163,789 | \$ 23,672,832 | \$ 25,810,229 | \$ 25,943,047 |
| Z | Control total | | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |

NOTES ON FORECAST:

- 1. The purpose of the above section (Preliminary Assumptions) is to assign assumption values for expenditures and revenues except regional sewer charges to establish a 10-year pro-forma forecast
- 2. Annual increases per CalPERS Circular Letter 200-004-17 dated January 19, 2017
- 3. Funding from JPA agencies increases 3.5% per 5-year revenue plan
- 4. Capital fee becomes zero (0) in outer years beyond revenue program period
- 5. Assume new debt issue for \$9M in FY20 and \$10M in FY23
- 6. Use of reserves through FY20 for capital and debt proceeds for capital thereafter
- 7. The above forecast is in the form of a balanced budget and is NOT FUNDING. FUNDING IS SHOWN BELOW IN SECTIONS I, II, and III
- 8. Beginning reserve balances for Section III are per the Treasurer's Report
- 9. Transfer operating surpluses to unrestricted capital reserve as necessary to maintain Board established 25% unrestricted operating reserve
- 10. Transfer unrestricted capital reserves to fully fund CIP Section II until depleted for forecast purposes
- 11. Capacity charges, the debt service coverage fee, the capital fee, and unrestricted capital reserve usage fund the capital program
- 12. Unrestricted operating reserve beginning balance contains amount per treasurer's report plus \$100,000 insurance reserve plus \$250,000 contingency reserve

Indicates reserve usage.

Brackets:

Indicates reserve increases.

CENTRAL MARIN SANITATION AGENCY 10-YEAR FINANCIAL FORECAST

| | | | | | Rev | venue Program Pe | eriod | | Serv | vice Charges / Cap | Fee at Last Autho | rized |
|-------------|---|--------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | Adopted | Proposed | | | 10-Year CIP P | rogram - Base Yea | Plus 9 Additional | Forecast Years | | |
| Line No. | Description | Assump | Budget FY 17-18 | Budget FY 18-19 | Year 1 FY 19-20 | Year 2 FY 20-21 | Year 3 FY 21-22 | Year 4 FY 22-23 | Year 5 FY 23-24 | Year 6 FY 24-25 | Year 7 FY 25-26 | Year 8 FY 26-27 |
| 140. | · | Assump | 1117-10 | 1110-13 | 11 13-20 | 1120-21 | 1121-22 | 1122-23 | 1125-24 | 1124-23 | 1123-20 | 1120-27 |
| | FUNDING FOR PROGRAMS - DETAIL | | | | | | | | | | | |
| | OPERATING PROGRAM | | | | | | | | | | | |
| 1 | Total operating costs before debt and capital | | \$ 11,462,600 | \$ 11,795,000 | \$ 12,085,514 | \$ 12,437,373 | \$ 12,841,317 | \$ 13,315,604 | \$ 13,890,308 | \$ 14,646,626 | \$ 14,957,348 | \$ 15,276,091 |
| 2 | Service charges and other revenues | | 11,995,065 | 12,424,564 | 12,850,413 | 13,290,896 | 13,746,517 | 14,217,799 | 14,275,793 | 14,335,728 | 14,406,524 | 14,411,318 |
| 3 | Total operating surplus (shortfall) | | \$ 532,465 | \$ 629,564 | \$ 764,898 | \$ 853,523 | \$ 905,200 | \$ 902,195 | \$ 385,485 | \$ (310,898) | \$ (550,824) | \$ (864,774) |
| | CAPITAL IMPROVEMENT PROGRAM | | | | | | | | | | | |
| 4 | Total Annual CIP to Fund (10-Year CIP) | | \$ 3,817,600 | \$ 2,962,200 | \$ 2,857,300 | \$ 7,731,700 | \$ 7,921,600 | \$ 5,263,800 | \$ 4,967,100 | \$ 3,717,700 | \$ 5,549,500 | \$ 5,314,200 |
| 5 | Restricted - other financing sources (e.g., bonds, loans, grants) | | \$ - | \$ - | \$ 812,271 | \$ 6,272,600 | \$ 1,915,129 | \$ 3,211,837 | \$ 3,782,651 | \$ 2,361,312 | \$ 644,200 | \$ - |
| 6 | Restricted - Capacity charges | | 29,300 | 30,091 | 30,904 | 31,738 | 32,595 | 33,475 | 34,379 | 35,307 | 36,260 | 37,239 |
| 7 | Restricted - Debt Service Coverage (i.e., covenant req) | | 992,024 | 990,477 | 993,301 | 991,833 | 1,150,752 | 1,153,002 | 1,152,927 | 1,326,595 | 1,327,127 | 1,325,845 |
| 8 | Unrestricted - Capital Fee | | 630,000 | 811,259 | 1,020,824 | 435,529 | 640,904 | 865,486 | 0 | 0 | 0 | 0 |
| 9 | Unrestricted - General Cap Rsv (Inc) Draw (step 2) | | 2,166,277 | 1,130,373 | - | - | 4,182,220 | · - | - | - | 3,541,019 | 1,026,178 |
| 10 | Total Available Funding | | \$ 3,817,601 | \$ 2,962,200 | \$ 2,857,300 | \$ 7,731,700 | \$ 7,921,600 | \$ 5,263,800 | \$ 4,969,957 | \$ 3,723,214 | \$ 5,548,607 | \$ 2,389,263 |
| 11 | Control Total / (Unfunded Capital) \$ (2,917,459) | | \$ 1 | \$ (0) | \$ (0) | \$ (0) | | \$ 0 | \$ 2,857 | \$ 5,514 | \$ (893) | \$ (2,924,937) |
| | | | | | | | | | | | | |
| | RESERVE RECONCILIATION | | | | | | | | | | | |
| 12 | Restricted capital reserve balance - beg (Treas Report) | | \$ 992,024 | \$ 990,477 | \$ 993,301 | \$ 9,179,562 | \$ 3,065,881 | \$ 1,153,002 | \$ 7,941,090 | \$ 4,332,107 | \$ 1,971,327 | \$ 1,325,845 |
| 13 | Other financing sources balance - beg | | - | - | - | 8,187,729 | 1,915,129 | - | 6,788,163 | 3,005,512 | 644,200 | - |
| 14 | New debt issuance proceeds | | - | - | 9,000,000 | - | - | 10,000,000 | - | - | - | - |
| 15 | Project requisition draws (neg number) (use 1st, then reserve) | | | | (812,271) | (6,272,600) | (1,915,129) | (3,211,837) | (3,782,651) | (2,361,312) | (644,200) | |
| 16 | Other financing sources balance - end | | | | 8,187,729 | 1,915,129 | - | 6,788,163 | 3,005,512 | 644,200 | | |
| 17 | Capacity charges revenue | | 29,300 | 30,091 | 30,904 | 31,738 | 32,595 | 33,475 | 34,379 | 35,307 | 36,260 | 37,239 |
| 18 | Capacity charges usage for capital | | (29,300) | (30,091) | (30,904) | (31,738) | (32,595) | (33,475) | (34,379) | (35,307) | (36,260) | (37,239) |
| 19 | Debt coverage collection - current year | | 990,477 | 993,301 | 991,833 | 1,150,752 | 1,153,002 | 1,152,927 | 1,326,595 | 1,327,127 | 1,325,845 | 1,338,189 |
| 20 | Debt coverage usage - prior year | | (992,024) | (990,477) | (993,301) | (991,833) | (1,150,752) | | (1,152,927) | (1,326,595) | (1,327,127) | (1,325,845) |
| 21 | Net change | | (1,547) | 2,825 | 8,186,261 | (6,113,681) | (1,912,879) | 6,788,088 | (3,608,983) | (2,360,780) | (645,482) | 12,344 |
| 22 | Restricted capital reserve balance - end | | \$ 990,477 | \$ 993,301 | \$ 9,179,562 | \$ 3,065,881 | \$ 1,153,002 | \$ 7,941,090 | \$ 4,332,107 | \$ 1,971,327 | \$ 1,325,845 | \$ 1,338,189 |
| | Unrestricted capital reserve balance - beg (Treas Report) | | \$ 7,798,013 | \$ 6,042,995 | \$ 5,459,086 | \$ 6,151,355 | \$ 6,916,914 | \$ 3,538,908 | \$ 4,322,531 | \$ 4,567,197 | \$ 4,567,197 | \$ 1,026,178 |
| 23 | Capital fee revenue | | 630,000 | 811,259 | 1,020,824 | 435,529 | 640,904 | 865,486 | 0 | 0 | 0 | 0 |
| 24 | Unrestricted operating reserve transfer-in (step 1) | | 411,259 | 546,464 | 692,269 | 765,559 | 804,214 | 783,623 | 244,666 | - | - | - |
| 25 | Capital fee usage to fund CIP | | (630,000) | (811,259) | (1,020,824) | (435,529) | | | (0) | (0) | | (0) |
| 26 | Unrestricted capital reserve draw (enter CIP control total) (step 2) | | (2,166,277) | (1,130,373) | | | (4,182,220) | | | | (3,541,019) | (1,026,178) |
| 27 | Net change | | (1,755,018) | (583,909) | 692,269 | 765,559 | (3,378,006) | | 244,666 | | (3,541,019) | (1,026,178) |
| 28 | Unrestricted capital reserve balance - end | | \$ 6,042,995 | \$ 5,459,086 | \$ 6,151,355 | \$ 6,916,914 | \$ 3,538,908 | \$ 4,322,531 | \$ 4,567,197 | \$ 4,567,197 | \$ 1,026,178 | <u> </u> |
| | Unrestricted operating reserve balance - beg (Treas Report) (Note 12 | 2) | \$ 2,744,444 | \$ 2,865,650 | \$ 2,948,750 | \$ 3,021,379 | \$ 3,109,343 | \$ 3,210,329 | \$ 3,328,901 | \$ 3,469,720 | \$ 3,158,822 | \$ 2,607,998 |
| 29 | Service charges and other revenues | | 11,995,065 | 12,424,564 | 12,850,413 | 13,290,896 | 13,746,517 | 14,217,799 | 14,275,793 | 14,335,728 | 14,406,524 | 14,411,318 |
| 30 | Operating expenses | | (11,462,600) | (11,795,000) | (12,085,514) | (12,437,373) | | | (13,890,308) | (14,646,626) | (14,957,348) | (15,276,091) |
| 31 | Unrestricted operating reserve transfer-out (excess or draw) (step 1) | | (411,259) | (546,464) | (692,269) | (765,559) | (804,214) | (783,623) | (244,666) | | <u> </u> | |
| 32 | Net change | | 121,206 | 83,100 | 72,629 | 87,964 | 100,986 | 118,572 | 140,819 | (310,898) | | (864,774) |
| 33 | Unrestricted operating reserve balance - end | | \$ 2,865,650 | \$ 2,948,750 | \$ 3,021,379 | \$ 3,109,343 | \$ 3,210,329 | \$ 3,328,901 | \$ 3,469,720 | \$ 3,158,822 | | \$ 1,743,224 |
| 34 | (25% of operating costs before debt and capital) | | 25% | 25% | 25% | 25% | 25% | 25% | 25% | 22% | 17% | 11% |
| 35 | Net change | | (1,635,359) | (497,985) | 8,951,159 | (5,260,158) | | | (3,223,498) | (2,671,678) | | (1,878,608) |
| 36 | Reserve balance total - beg | | \$ 11,534,481 | \$ 9,899,122 | \$ 9,401,137 | \$ 18,352,296 | \$ 13,092,138 | \$ 7,902,239 | \$ 15,592,522 | \$ 12,369,024 | \$ 9,697,346 | \$ 4,960,021 |
| 37 | Reserve balance total - end | | \$ 9,899,122 | \$ 9,401,137 | \$ 18,352,296 | \$ 13,092,138 | \$ 7,902,239 | \$ 15,592,522 | \$ 12,369,024 | \$ 9,697,346 | \$ 4,960,021 | \$ 3,081,413 |

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PLACEHOLDER FOR:

Section 10. Debt Obligations
Section 11. Key Terms and Financial Glossary with Acronym Listing

Appendix

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|--|----|
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Preliminary Budget for the Fiscal Year 2018-19

SCHEDULE OF REVENUE ALLOCATION TABLES

| Description | Fiscal Year 2017-18 | Fiscal Year 2018-19 | - 1 | Amount ncrease Decrease) | Percent Increase (Decrease) |
|--|---------------------------|----------------------------|-----|--------------------------------|-----------------------------------|
| Flow-Strength Allocation Table (for service charges and capital fee) | iM Flow iM Strength | 6M Flow 6M Strength | | | |
| SRSD | 41.41% | 40.86% | | | |
| RVSD SD #2 | 50.30% 8.29% | 50.49% 8.65% | | | |
| Totals | 100.00% | 100.00% | | | |
| , occio | 100.0070 | 100.0070 | | | |
| Allocation of Service Charges to Members | \$ 10,263,166 | \$ 10,622,376 | \$ | 359,210 | 3.5% |
| SRSD | 4,249,977 | 4,340,303 | | 90,326 | 2.1% |
| RVSD SD #2 | 5,162,372 850,816 | 5,363,238 918,836 | | 200,866 68,020 | 3.9% 8.0% |
| JU π2 | 830,810 | 918,830 | | 08,020 | 8.070 |
| Totals | \$ 10,263,165 | \$ 10,622,377 | \$ | 359,212 | 3.5% |
| Allocation of Capital Fee to Members | \$ 630,000 | \$ 811,258 | \$ | 181,258 | 28.8% |
| SRSD | 260,883 | 331,480 | | 70,597 | 27.1% |
| RVSD | 316,890 | 409,604 | | 92,714 | 29.3% |
| SD #2 | 52,227 | 70,174 | | 17,947 | 34.4% |
| Totals | \$ 630,000 | \$ 811,258 | | 181,258 | 28.8% |
| Debt Service Cost - Refunding Revenue Bonds Series 2015 | | | | | |
| Service charges-debt service principal | \$ 2,250,000 | \$ 2,330,000 | \$ | 80,000 | 3.6% |
| Service charges-debt service interest | 1,711,906 | 1,643,206 | | (68,700) | -4.0% |
| Subtotal debt service | 3,961,906 | 3,973,206 | | 11,300 | 0.3% |
| Service charges-debt service coverage | 990,477 | 993,302 | | 2,825 | 0.3% |
| Total debt service cost | \$ 4,952,383 | \$ 4,966,508 | \$ | 14,125 | 0.3% |
| EDU Count (for debt service allocation) | | | | | |
| SRSD (Effective FY 2017-18 fixed at 19,545) | 19,545 | 19,545 | | - | 0.0% |
| RVSD (Effective FY 2017-18 fixed at 22,404) | 22,404 | 22,404 | | - | 0.0% |
| SD #2 (Effective FY 2017-18 fixed at 6,090) | 6,090 | 6,090 | | - | 0.0% |
| SQSP (Effective FY 2017-18 fixed at 4,005) | 4,005 | 4,005 | | - | 0.0% |
| Total EDU's | 52,044 | 52,044 | | - | 0.0% |
| Allocation of Debt Service Costs to Members | | | | | |
| SRSD | \$ 1,859,855 | \$ 1,865,160 | \$ | 5,305 | 0.3% |
| RVSD | 2,131,911 | 2,137,992 | | 6,081 | 0.3% |
| SD #2 SQSP | 579,510 381 106 | 581,163 382 103 | | 1,653 1,087 | 0.3% 0.3% |
| ocor | 381,106 | 382,193 | | 1,087 | 0.5% |
| Totals | \$ 4,952,383 | \$ 4,966,508 | \$ | 14,125 | 0.3% |
| | 15,845,549 | 16,400,142 | \$ | 554,593 | 3.5% |

Proposed Budget for the Fiscal Year 2018-19

FY 2018-19 Initial Allocation of Service Charges using Flow and Strength (without SQSP)

I. Allocation of treatment costs by Flow and Strength

| Total Distribution | 100.0% |
|--|--------|
| C. Total Suspended Solids mass (TSS, Strength) | 24.7% |
| B. Biological Oxygen Demand mass (BOD, Strength) | 24.7% |
| A. Flow volume | 50.6% |

A. Annual (April to March) Flows volume into CMSA in million gallons

| | SRSD | RVSD | SD #2 | Plant Influent Flow |
|---------------------------------|----------|----------|----------|------------------------|
| April 1, 2015 to March 31, 2016 | 1,435.31 | 1,912.90 | 422.01 | 3,770.22 |
| April 1, 2016 to March 31, 2017 | 1,844.03 | 2,597.79 | 472.68 | 4,914.50 |
| April 1, 2017 to March 31, 2018 | 1,411.51 | 1,913.07 | 357.66 | 3,682.24 |
| Total 48 month Flow | 4,690.85 | 6,423.76 | 1,252.35 | 12,366.96 |
| % of Flow | 37.93% | 51.94% | 10.13% | 100.0% |

B. Annual (April to March) Mass of Biological Oxygen Demand (BOD) in pounds

| | | | | Total CMSA Plant Influent |
|---------------------------------|------------|------------|-----------|---------------------------|
| | SRSD | RVSD | SD #2 | BOD |
| April 1, 2015 to March 31, 2016 | 3,892,566 | 4,358,760 | 592,658 | 8,843,984 |
| April 1, 2016 to March 31, 2017 | 4,293,860 | 4,450,865 | 674,224 | 9,418,949 |
| April 1, 2017 to March 31, 2018 | 3,603,210 | 4,142,759 | 578,870 | 8,324,839 |
| Total 48 month BOD | 11,789,636 | 12,952,384 | 1,845,752 | 26,587,772 |
| % of Total BOD | 44.34% | 48.72% | 6.94% | 100.0% |

C. Annual (April to March) Mass of Total Suspended Solids (TSS) in pounds

| | 0000 | DVOD | OD #0 | Total CMSA Plant Influent |
|---------------------------------|------------|------------|-----------|---------------------------|
| | SRSD | RVSD | SD #2 | TSS |
| April 1, 2015 to March 31, 2016 | 5,569,476 | 6,827,531 | 934,372 | 13,331,379 |
| April 1, 2016 to March 31, 2017 | 5,543,868 | 5,629,170 | 905,498 | 12,078,536 |
| April 1, 2017 to March 31, 2018 | 4,656,989 | 5,435,656 | 814,651 | 10,907,296 |
| Total 48 month TSS | 15,770,333 | 17,892,357 | 2,654,521 | 36,317,211 |
| % of Total TSS | 43.42% | 49.27% | 7.31% | 100.0% |

II. Allocation of Sewer Service Charges to JPA Members

This is determined by multiplying the allocation of treatment costs by volume and and strength (Section I) by each member's share of the flow (Section A), BOD (B) and TSS (C)

| | SRSD | RVSD | SD #2 | Total Allocation |
|-------------------|--------|--------|-------|------------------|
| FY 2018-19 Budget | 40.86% | 50.49% | 8.65% | 100.00% |

Proposed Budget for the Fiscal Year 2018-19

FY 2018-19 Initial Allocation of Service Charges using Flow and Strength (without SQSP)

I. Allocation of treatment costs by Flow and Strength

| Total Distribution | 100.0% |
|--|--------|
| C. Total Suspended Solids mass (TSS, Strength) | 24.7% |
| B. Biological Oxygen Demand mass (BOD, Strength) | 24.7% |
| A. Flow volume | 50.6% |

A. Annual (April to March) Flows volume into CMSA in million gallons

| | SRSD | SD #1 | SD #2 | Plant Influent Flow |
|---------------------------------|----------|----------|----------|------------------------|
| April 1, 2015 to March 31, 2016 | 1,435.31 | 1,912.90 | 422.01 | 3,770.22 |
| April 1, 2016 to March 31, 2017 | 1,844.03 | 2,597.79 | 472.68 | 4,914.50 |
| April 1, 2017 to March 31, 2018 | 1,411.51 | 1,913.07 | 357.66 | 3,682.24 |
| Total 48 month Flow | 4,690.85 | 6,423.76 | 1,252.35 | 12,366.96 |
| % of Flow | 37.93% | 51.94% | 10.13% | 100.0% |

B. Annual (April to March) Mass of Biological Oxygen Demand (BOD) in pounds

| | | | | Total CMSA Plant Influent |
|---------------------------------|------------|------------|-----------|---------------------------|
| | SRSD | SD #1 | SD #2 | BOD |
| April 1, 2015 to March 31, 2016 | 3,892,566 | 4,358,760 | 592,658 | 8,843,984 |
| April 1, 2016 to March 31, 2017 | 4,293,860 | 4,450,865 | 674,224 | 9,418,949 |
| April 1, 2017 to March 31, 2018 | 3,603,210 | 4,142,759 | 578,870 | 8,324,839 |
| Total 48 month BOD | 11,789,636 | 12,952,384 | 1,845,752 | 26,587,772 |
| % of Total BOD | 44.34% | 48.72% | 6.94% | 100.0% |

C. Annual (April to March) Mass of Total Suspended Solids (TSS) in pounds

| | | | | Total CMSA Plant Influent |
|---------------------------------|------------|------------|-----------|---------------------------|
| | SRSD | SD #1 | SD #2 | TSS |
| April 1, 2015 to March 31, 2016 | 5,569,476 | 6,827,531 | 934,372 | 13,331,379 |
| April 1, 2016 to March 31, 2017 | 5,543,868 | 5,629,170 | 905,498 | 12,078,536 |
| April 1, 2017 to March 31, 2018 | 4,656,989 | 5,435,656 | 814,651 | 10,907,296 |
| Total 48 month TSS | 15,770,333 | 17,892,357 | 2,654,521 | 36,317,211 |
| % of Total TSS | 43.42% | 49.27% | 7.31% | 100.0% |

II. Allocation of Sewer Service Charges to JPA Members

This is determined by multiplying the allocation of treatment costs by volume and and strength (Section I) by each member's share of the flow (Section A), BOD (B) and TSS (C)

| | SRSD | SD #1 | SD #2 | Total Allocation |
|-------------------|--------|--------|-------|------------------|
| FY 2018-19 Budget | 40.86% | 50.49% | 8.65% | 100.00% |

Proposed Budget for the Fiscal Year 2018-19

FY 2018-19 Initial Allocation of Service Charges using Flow and Strength (with SQSP)

I. Allocation of treatment costs by Flow and Strength

| A. Flow volume | 50.6% |
|--|--------|
| B. Biological Oxygen Demand mass (BOD, Strength) | 24.7% |
| C. Total Suspended Solids mass (TSS, Strength) | 24.7% |
| Total Distribution | 100.0% |

A. Annual (April to March) Flows volume into CMSA in million gallons

| | SRSD | RVSD | SD #2 | SQSP | Total CMSA Plant Influent Flow |
|---------------------------------|----------|----------|----------|--------|--------------------------------|
| April 1, 2015 to March 31, 2016 | 1,435.31 | 1,912.90 | 422.01 | 129.48 | 3,899.70 |
| April 1, 2016 to March 31, 2017 | 1,844.03 | 2,597.79 | 472.68 | 136.90 | 5,051.40 |
| April 1, 2017 to March 31, 2018 | 1,411.51 | 1,913.07 | 357.66 | 166.12 | 3,848.36 |
| Total 48 month Flow | 4,690.85 | 6,423.76 | 1,252.35 | 432.50 | 12,799.46 |
| % of Flow | 36.65% | 50.19% | 9.78% | 3.38% | 100.0% |

B. Annual (April to March) Mass of Biological Oxygen Demand (BOD) in pounds

| | SRSD | RVSD | SD #2 | SQSP | Total CMSA Plant Influent BOD |
|---------------------------------|------------|------------|-----------|-----------|-------------------------------|
| April 1, 2015 to March 31, 2016 | 3,892,566 | 4,358,760 | 592,658 | 306,804 | 9,150,787 |
| April 1, 2016 to March 31, 2017 | 4,293,860 | 4,450,865 | 674,224 | 355,347 | 9,774,296 |
| April 1, 2017 to March 31, 2018 | 3,603,210 | 4,142,759 | 578,870 | 403,835 | 8,728,674 |
| Total 48 month BOD | 11,789,636 | 12,952,384 | 1,845,752 | 1,065,986 | 27,653,757 |
| % of Total BOD | 42.63% | 46.84% | 6.67% | 3.85% | 100.0% |

C. Annual (April to March) Mass of Total Suspended Solids (TSS) in pounds

| | SRSD | RVSD | SD #2 | SQSP | Total CMSA Plant Influent TSS |
|---------------------------------|------------|------------|-----------|-----------|-------------------------------------|
| April 1, 2015 to March 31, 2016 | 5,569,476 | 6,827,531 | 934,372 | 398,325 | 13,729,703 |
| April 1, 2016 to March 31, 2017 | 5,543,868 | 5,629,170 | 905,498 | 457,495 | 12,536,031 |
| April 1, 2017 to March 31, 2018 | 4,656,989 | 5,435,656 | 814,651 | 486,679 | 11,393,975 |
| Total 48 month TSS | 15,770,333 | 17,892,357 | 2,654,521 | 1,342,499 | 37,659,709 |
| % of Total TSS | 41.88% | 47.51% | 7.05% | 3.56% | 100.0% |

II. Allocation of Sewer Service Charges to JPA Members

This is determined by multiplying the allocation of treatment costs by volume and and strength (Section I) by each member's share of the flow (Section A), BOD (B) and TSS (C)

| EV 2018-19 Rudget | SRSD | RVSD | SD #2 | SQSP | Total Allocation |
|-------------------|--------|--------|-------|-------|-------------------------|
| FY 2018-19 Budget | 39.42% | 48.70% | 8.34% | 3.54% | 100.00% |

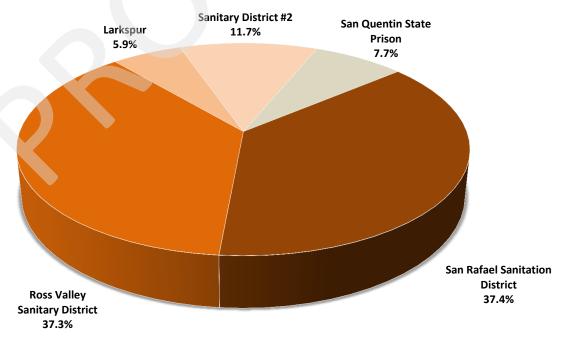
Member Agencies and San Quentin Prison Equivalent Dwelling Units (EDU's)

| | | San Rafael Sanitation District | | Ross Valley Sanitary Distr | | San Quentin State Prison | Sanitary District #2 | Total EDU | | % |
|--------|-------------|--------------------------------------|--------|-------------------------------|----------|--------------------------------|-------------------------|-----------|---------|--------|
| Status | Fiscal Year | (SRSD) | Total | (RVSD | Larkspur | (SQSP) | (SD #2) | Count | Change | Change |
| Actual | 2008-09 | 19,685 | 30,347 | 19,295 | 3,116 | 7,936 | 6,196 | 56,228 | (30) | -0.1% |
| Actual | 2009-10 | 19,575 | 30,288 | 19,709 | 3,050 | 7,529 | 6,078 | 55,941 | (287) | -0.5% |
| Actual | 2010-11 | 19,401 | 29,491 | 19,261 | 3,021 | 7,209 | 5,975 | 54,867 | (1,074) | -1.9% |
| Actual | 2011-12 | 19,409 | 25,161 | 18,835 | 3,079 | 3,247 | 5,955 | 50,525 | (4,342) | -7.9% |
| Actual | 2012-13 | 19,482 | 22,508 | 19,511 | 2,997 | 4,005 | 6,116 | 52,111 | 1,586 | 3.1% |
| Actual | 2013-14 | 19,703 | 22,447 | 19,498 | 2,949 | 4,005 | 6,006 | 52,161 | 50 | 0.1% |
| Actual | 2014-15 | 19,643 | 22,648 | 19,666 | 2,982 | 4,005 | 6,216 | 52,512 | 351 | 0.7% |
| Actual | 2015-16 | 19,555 | 22,719 | 19,700 | 3,019 | 4,005 | 6,076 | 52,355 | (157) | -0.3% |
| Actual | 2016-17 | 19,332 | 22,337 | 19,298 | 3,039 | 4,005 | 6,055 | 51,729 | (626) | -1.2% |
| Actual | 2017-18 | 19,565 | 22,508 | 19,448 | 3,060 | 4,005 | 6,008 | 52,086 | 357 | 0.7% |
| | | | | | | | | | | |

The EDU table above shows actual reported EDUs for each fiscal year. The total EDU count is used to establish the annual EDU rate which is used to establish the annual waste facilities use charge each July 1st. (see Ordinance No. 2016-1 Section 6). Effective FY 18, member EDU counts had been fixed for debt service allocation purposes.

| | SRSD | | SD#1 | Larkspur | SD#2 | SQP | TOTAL |
|------------|--------|---|--------|----------|-------|-------|--------|
| FY 19 | 19,565 | : | 19,448 | 3,060 | 6,008 | 4,005 | 52,086 |
| % of Total | 37.6% | | 37.3% | 5.9% | 11.5% | 7.7% | 100.0% |

EDU's by Member Agencies and San Quentin Prison as a Percentage of Total EDU's for FY 19



39.75% 60.25%

| TABLE 1 - HEALTH & SAFETY CORE PROGRAM | Adopted FY 17 | Adopted FY 18 | Projected FY 18 | Proposed FY 19 | NSD Share | CMSA Share | Comments |
|--|------------------|------------------|--------------------|-------------------|----------------|----------------|--|
| F 1 F | | | | | | | |
| <u>Fixed Expenses</u> Salary - Health & Safety Manager (1 FTE) | 137,105 | 111,839 | 73,747 | 118,000 | 46,910 | 71,090 | 3% Increase effective 07/01/17. Step C. CMSA 60.25% & NSD 39.75%. |
| Car Allowance - Health & Safety Manager (1 FTE) | 4,800 | 4,800 | 3,785 | 4,800 | 1,908 | 2,892 | \$400/month |
| Benefits - CalPERS Retirement | 61,392 | 24,574 | 19,376 | 29,400 | 11,688 | 17,712 | CMSA 60.25% & NSD 39.75%. Classic CalPERS status. |
| Benefits - SS/Medicare | 01,552 | 1,681 | 1,325 | 1,800 | 716 | 1,084 | Citist tooles in a rose some classic call end status. |
| Benefits - Health | | 11,040 | 8,704 | 29,200 | 11,608 | 17,592 | |
| Benefits - PEHP | | 1,680 | 1,325 | 1,700 | 676 | 1,024 | |
| Benefits - Retiree Health (2) | 5,888 | 6,481 | 5,110 | 6,400 | 2,544 | 3,856 | 62,100 |
| Total Salaries & Benefits | 209,185 | 162,095 | 113,372 | 191,300 | 76,050 | 115,250 | |
| Variable Expenses | | | | | | | |
| Professional Services | 6,000 | 6,000 | _ | 6,000 | 2,385 | 3,615 | Contract services to assist in completing program development. |
| Publications | 1,300 | 1,300 | 341 | 1,600 | 636 | 964 | Mancomm, CalOSHA Reporter, ANSI/NFPA standards |
| Memberships | 750 | 750 | 542 | 750 | 298 | 452 | NSC, CWEA, American Society Safety Engineers |
| Office Supplies | 450 | 450 | - | 450 | 179 | 271 | NSC, CWEA, American Society Safety Engineers |
| | 200 | | _ | | 80 | 120 | |
| Safety Shoes | | 200 | | 200 | | | Turking Country DVD |
| Training Materials Computer Software/Supply | 2,000 3,600 | 2,000 3,600 | 697 3,395 | 2,000 4,000 | 795 | 1,205 2,410 | Training Supplies, DVDs |
| Seminars/Conferences | 3,000 | 6,200 | 3,395 | 5,500 | 1,590 2,186 | 3,314 | Keller On-Line, MSDS Online CASA Conference. (KT) CWEA Classes, Fall Protection Training, Forklift |
| Seminars/Conferences | - | 6,200 | - | 5,500 | 2,180 | 3,314 | Training and Workers Compensation training . |
| Subtotal Variable Expenses | 14,300 | 20,500 | 4,975 | 20,500 | 8,150 | 12,350 | |
| Total Health & Safety Program Expenses | 223,485 | 182,595 | 118,347 | 211,800 | 84,199 | 127,601 | |
| Testing/Training Expenses 6830-017-01 & 06 | | | | | | | |
| Testing and Training-CMSA | 15,616 | 13,100 | 13,886 | 5,560 | - | 5,560 | Scheduled Hearing tests, Incident Command, Underground Utility Locator |
| | | | | | | | (6830-017-01) |
| Testing and Training-NSD | 10,096 | 11,200 | 4,600 | 4,560 | 4,560 | - | (6830-017-06) |
| Subtotal Testing and Training | 25,712 | 24,300 | 18,486 | 10,120 | 4,560 | 5,560 | |
| Total Program Expenses | 249,197 | 206,895 | 136,833 | 221,920 | 88,759 | 133,161 | |
| | 40.000/ | 44.670/ | | 20.75% | | | NCD Allessalies |
| | 40.00% 60.00% | 41.67% 58.33% | | 39.75% 60.25% | | | NSD Allocation CMSA Allocation |
| | 60.00% | 58.33% | | 60.25% | | | CMSA Allocation |
| Salary - ASRS&SO (.25 FTE) | | 35,842 | 35,842 | 38,800 | 19,400 | 19,400 | .25 FTE cost shared equally (NSD not budgeted) |
| Benefits - ARS&SO (FY18: .25 FTE) | | 11,593 | 11,593 | 12,400 | 6,200 | 6,200 | .25 FTE cost shared equally (NSD not budgeted) |
| Car Allowance - ARS&SO Salary (.25 FTE) | | 1,200 | | _ | - | - | NSD's ARS&SO does not receive car allowance |
| Total Salaries & Benefits - ARS&SO | | 48,635 | | 51,200 | 25,600 | 25,600 | Administrative, Risk Services & Safety Officer (ARS&SO) |
| | | | | | ., | ., | |
| | | | | | 00.000 | N/A | FY 19 Budget (rounded) |
| | | | | | 86,600 | N/A 38,000 | 4070-000-00 Health & Safety Revenue Budget (Excludes ARS&SO) 6830-016-01 Health & Safety Program, CMSA Share |
| | | | | | 4,600 | 5,600 | 6830-017-06 (NSD) & 01 (CMSA) Outside Safety Training Services |
| | | | | - | 91,200 | 43,600 | SUBTOTAL |
| | | | | | (2,400) | 43,000 | less 5% Admin Fee |
| | | | | | 400 | | Cooperative Agreement Expenses department adjustments |
| | | | | | 89,200 | | TOTAL FY 19 Budget Health & Safety Program |
| | | | | | | | • • • |

FY 19 Distribution of Health & Safety Program Expenses to Participating Districts - Adopted Budget

Method of Distribution: Each District has an equal share 50% of the total expense.

The remaining 50% of the program cost is distributed by the number of authorized positions for each District.

Total Cost Core Program 211,800 Excludes .25 FTE Safety Director (costs shared equally) & 5% Admin Fee

50% of Total Expense \$ 105,900

| Agency | Distribution on 50% of Program Cost | Number of Authorized Positions* | Percentage of Total Number of Employees | Distribution on remaining 50% of Program Cost | Total Annual Payment | Total Percentage |
|--------|---|---------------------------------------|---|---|-------------------------|---------------------|
| | | | | | | |
| CMSA* | 52,950 | 43 | 70.5% | 74,651 | 127,601 | 60.25% |
| NSD* | 52,950 | 18 | 29.5% | 31,249 | 84,199 | 39.75% |
| Total | 105,900 | 61 | 100.0% | 105,900 | 211,800 | 100.00% |
| | | | Particina | ting Districts Total | 84 199 | 39 75% |

^{*}Authorized positions excludes CMSA Health & Safety Manager and NSD Administrative, Risk Services & Safety Officer positions

Public Education Committee Annual Budget FY 2018-2019

| Program Costs | 2 | Fiscal Year 016-17 | Fiscal Year 017-18 | kpenses YTD 017-18 | Fiscal Year 2018-19 | |
|---|----|--------------------------|--------------------------|--------------------------|---------------------------|--------|
| Event Enrollment (Booth costs and event support) | \$ | 15,000 | \$ 15,000 | \$ 1,860 | \$ | 7,000 |
| Juggler Show (20 shows per year annual cost) | | 10,000 | 10,000 | 10,000 | | 10,000 |
| RxSafe Marin | | 14,000 | - | 14,000 | | 14,000 |
| Fast Forward/Kidspeak Publication (110,000 copies) | | 4,000 | 4,000 | 4,000 | | 4,000 |
| Logo Development (for Marin County Fair 2018) | | 3,000 | 3,000 | 200 | | 3,000 |
| Awards (6 plaques - purchase plaques local and state) | | 1,000 | 1,000 | 800 | | - |
| Meeting Expenses (copies, demo promo/brochure items) | | 500 | 500 | 100 | | 500 |
| Educational Video reproduction/updating | | | 10,000 | - | | 18,000 |
| Booth Set Up Supplies (numerous events throughout year) | | 2,000 | 2,000 | 254 | | 1,000 |
| Brochures (printing/updates/ development) | | 1,200 | 1,200 | - | | 3,000 |
| MCSTOPPP Calendar Support | | 3,000 | | - | | |
| Promontional Items (FY 18-19) | | 24,000 | 24,000 | 6,000 | | 24,000 |
| STRAW - Students and Teachers Restoring A Watershed | | 4,000 | | | | |
| Marin Science and Environmental Leadership Prgm at Terra Linda HS | | | | | | 2,500 |
| Contingency | | 5,000 | 5,000 | | | - |
| Totals | \$ | 86,700 | \$ 75,700 | \$ 37,214 | \$ | 87,000 |

| Drogram | Cost Al | location | to Dan | ticinating | Members |
|-----------|---------|----------|--------|-------------|-----------|
| PIUSIAIII | COSL AL | iocation | LU Pai | שווואטווווצ | Melliners |

| Program Cost Allocation to Participating Members | | | | | | | Member Revenue to CMSA | | | | | | | | |
|--|---------|----------------------------|--------|---------|--------|---------|------------------------|---|----------------------------------|---------|--------|---------|--------|---------|--------|
| | Percent | Annual Total Program Costs | | | | | | | (Cost Plus 15% Program Mngt Fee) | | | | | | |
| Agency | Share | 2 | 016-17 | 2017-18 | | 2018-19 | | | | 2016-17 | | 2017-18 | | 2018-19 | |
| CMSA | 40.6% | \$ | 35,200 | \$ | 30,734 | \$ | 35,322 | | | | | | | | |
| LGVSD | 13.2% | | 11,444 | | 9,992 | | 11,484 | | | \$ | 13,161 | \$ | 11,491 | \$ | 13,207 |
| NSD | 24.8% | | 21,502 | | 18,774 | | 21,576 | | | | 24,727 | | 21,590 | | 24,812 |
| SASM | 11.6% | | 10,057 | | 8,781 | | 10,092 | | | | 11,566 | | 10,098 | | 11,606 |
| SMCSD | 6.8% | | 5,896 | | 5,148 | | 5,916 | | | | 6,780 | | 5,920 | | 6,803 |
| SD5 | 3.0% | | 2,601 | | 2,271 | | 2,610 | - | | | 2,991 | | 2,612 | | 3,002 |
| Totals | 100.0% | \$ | 86,700 | \$ | 75,700 | \$ | 87,000 | | | \$ | 59,225 | \$ | 51,711 | \$ | 59,430 |

Notes:

Event Enrollment - committee decreased amount needed due to several events being discontinued (Salmon Festival, BAEER

Educational Video reproduction/updating - committee increased the amount needed after discussions with a video production company, Green Planet Films, who quoted \$16,000. The committee thought an added \$2,000 for possible change orders might be prudent.

Booth Set Up Supplies (numerous events throughout year) - committee lowered this amount needed after reviewing the amount historically spent on this line item.

Brochures (printing/updates/development) - committee would like to develop brochures which are bi-lingual, deliver a clear message of what to flush and a brochure directed toward Senior Citizens. Julie Hoover and Liz Falejczyk are the committee leads on this project.

MCSTOPPP Calendar Support - MCSTOPP is no longer publishing an annual county wide calendar. If this organization starts up again, the committee will discuss funding.

STRAW - this program was only funded in FY16-17.

MSEL - Student Outreach Research Projects - LGVSD currently works with MSEL students and suggested this would be a great addition to the Public Education Program. This year the student project researched the effects of microbeads from beauty products, on the environment and the difficulty removing them from wastewater. The students made alternative beauty products using natural ingredients and have printed up the recipes for people to make at home. They will be presenting their project at the Downtown San Rafael Farmer's Market, Thursday, April 26th and San Rafael, Civic Center Farmer's Market, Sunday, April 29th in hopes to bring attention to this problem. The requested \$2,500 would be seed money to assist the MSEL program at Terra Linda HighSchool.