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Reserve Studies for Community Associations

“Full” Reserve Study



RMCS D – Administrative Department Rancho Murieta, CA

Report #: 27003-0 ADMIN
For Period Beginning: July 1, 2015
Expires: June 30, 2016

Date Prepared: January 21, 2015



Hello, and welcome to your Reserve Study!

This Report is a valuable budget planning tool, for with it you control the future of your CSD's Administrative Department. It contains all the fundamental information needed to understand your current and future Reserve obligations, the most significant expenditures your CSD's Administration Department will face.

With respect to Reserves, this Report will tell you "where you are", and "where to go from here".

In this Report, you will find...

- 1) A List of What you're Reserving For**
- 2) An Evaluation of your Reserve Fund Size and Strength**
- 3) A Recommended Multi-Year Reserve Funding Plan**

More Questions?

Visit our website at www.ReserveStudy.com or call us at:

877/618-1955



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3- Minute Executive Summary

Name: RMCS D – Admin **Assoc. #: 27003-0**
ADMIN
Location: Rancho Murieta, CA
of Units: 1
Report Period: July 1, 2015 through June 30, 2016

Results as-of 7/1/2015:

| | |
|---|-----------|
| Projected Starting Reserve Balance: | \$38,382 |
| Fully Funded Reserve Balance: | \$320,347 |
| Average Reserve Deficit (Surplus) Per Unit:..... | \$281,965 |
| Percent Funded: | 12.0% |
| Recommended 2015/16 monthly Reserve Contribution: | \$5,500 |

Most Recent Reserve Contribution Rate:..... \$0

Economic Assumptions:

Net Annual “After Tax” Interest Earnings Accruing to Reserves..... 1.00%
Annual Inflation Rate..... 3.00%

- This is a “Full” Reserve Study (original, created “from scratch”).
- The information in this Reserve Study is based on our site inspection on August 4, 2014.
- This Reserve Study was prepared under the supervision of a credentialed Reserve Specialist (RS).
- Because your Reserve Fund is at 12.0% Funded, this means the CSD’s Administrative Department deferred maintenance risk & need for a transfer of funds is currently high.
- Your multi-year Funding Plan is designed to gradually bring you to the 100% level, or “Fully Funded”.
- Based on this starting point, your anticipated future expenses, and your historical Reserve contribution rate, our recommendation is to increase your Reserve contributions.
- No assets appropriate for Reserve designation were excluded.

| # | Component | Useful Life (yrs) | Rem. Useful Life (yrs) | Current Average Cost | Future Average Cost |
|------|-------------------------------------|-------------------|------------------------|----------------------|---------------------|
| 202 | Asphalt - Resurface | 25 | 5 | \$79,200 | \$91,815 |
| 203 | Asphalt - Seal/Repair | 5 | 0 | \$4,500 | \$5,217 |
| 303 | HVAC Condensers - Replace | 25 | 5 | \$24,750 | \$28,692 |
| 323 | Street/Pole Lights - Replace | 40 | 17 | \$11,000 | \$18,181 |
| 509 | Trellis - Replace | 25 | 8 | \$12,500 | \$15,835 |
| 601 | Carpet - Replace | 15 | 5 | \$19,750 | \$22,896 |
| 909 | Bathroom - Refurbish | 25 | 5 | \$7,000 | \$8,115 |
| 913 | Kitchen - Refurbish | 25 | 5 | \$9,000 | \$10,433 |
| 918 | Office Furniture - Replace 50% | 10 | 4 | \$39,000 | \$43,895 |
| 940 | Storage Cabinetry - Refurbish | 22 | 8 | \$11,000 | \$13,934 |
| 1009 | Landscaping & Irrigation- Replenish | 6 | 2 | \$12,500 | \$13,261 |
| 1110 | Interior Surfaces - Repaint | 15 | 5 | \$5,850 | \$6,782 |
| 1115 | Exteriors - Repaint/Repair | 10 | 8 | \$3,100 | \$3,927 |
| 1305 | Tile Roof - Replace Underlayment | 30 | 9 | \$55,000 | \$71,763 |
| 1312 | Gutters/Downspouts - Replace | 30 | 5 | \$4,000 | \$4,637 |
| 1804 | Internet/Wireless Systems - Replace | 4 | 2 | \$12,000 | \$12,731 |
| 1812 | Servers - Replace | 5 | 0 | \$20,000 | \$23,185 |
| 1819 | Fire Alarm System - Replace | 15 | 10 | \$9,500 | \$12,767 |
| 1829 | Video/Sound Systems - Replace 50% | 6 | 5 | \$12,250 | \$14,201 |
| 2400 | Stuffer Machine - Replace | 8 | 4 | \$21,000 | \$23,636 |
| 2401 | BizHub - Replace | 5 | 0 | \$31,100 | \$36,053 |
| 2411 | Admin Software - Replace | 10 | 6 | \$85,000 | \$101,494 |
| 22 | Total Funded Components | | | | |

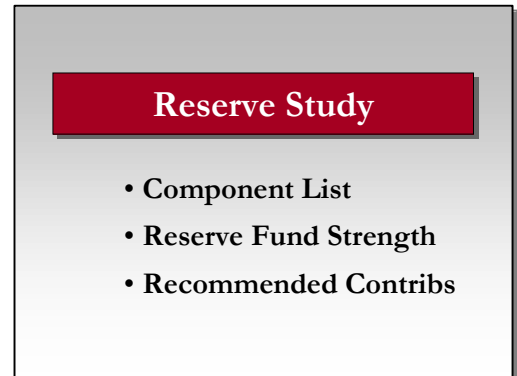
Note 1: **Yellow highlighted** line items are expected to require attention in initial year.

Note 2: a Useful Life of "N/A" means a one-time expense, not expected to repeat.

Introduction

A Reserve Study is the art and science of anticipating, and preparing for, a CSD Administrative Department's major repair and replacement expenses. Partially art, because in this field we are making projections about the future. Partially science, because our work is a process of research and analysis along well defined methodologies.

In this Report you will find the Reserve Component List (what you are reserving for). It contains our estimates for Useful Life, Remaining Useful Life, and the current repair or replacement cost for each major component the Administrative Department is obligated to maintain. Based on that List and your starting balance we computed the Administrative Department's Reserve Fund Strength (measured as "Percent Funded"), and created a recommended multi-year Reserve Funding Plan to offset future Reserve expenses.

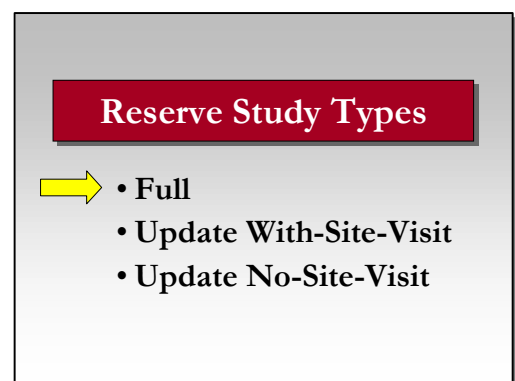


As the physical assets age and deteriorate, it is important to accumulate financial assets to keep the two "in balance". A stable Reserve Funding Plan that offsets the irregular Reserve expenses will ensure that each owner pays their own "fair share" of ongoing deterioration.

Methodology

First we establish what the projected expenses are, then we determine the Administrative Department's financial status and create a Funding Plan. For this "Full" Reserve Study, we started with a review of your Governing Documents, recent Reserve expenditures, an evaluation of how expenditures are handled (ongoing maintenance vs Reserves), and research into any well-established CSD precedents.

We performed an on-site inspection to quantify and evaluate your common areas, creating your Reserve Component List "from scratch".



Which Physical Assets are Covered by Reserves?

There is a national-standard four-part test to determine which expenses should be funded through Reserves. First, it must be an Administrative Department maintenance responsibility. Second, the component must have a limited life. Third, the limited life must be predictable (or it by definition is a “surprise” which cannot be accurately anticipated). Fourth, the component must be above a minimum threshold cost. This limits Reserve Components to major, predictable expenses. Within this framework, it is inappropriate to include “lifetime” components, unpredictable expenses (such as damage due to fire, flood, or earthquake), and expenses more appropriately handled from the Operational Budget or as an insured loss.

How are Useful Life and Remaining Useful Life established?

- 1) Visual Inspection (observed wear and age)
- 2) Association Reserves database of experience
- 3) Client Component History
- 4) Vendor Evaluation and Recommendation

How are Cost Estimates Established?

Financial projections are based on the average of our Best Case and Worst Case estimates, which are established in this order...

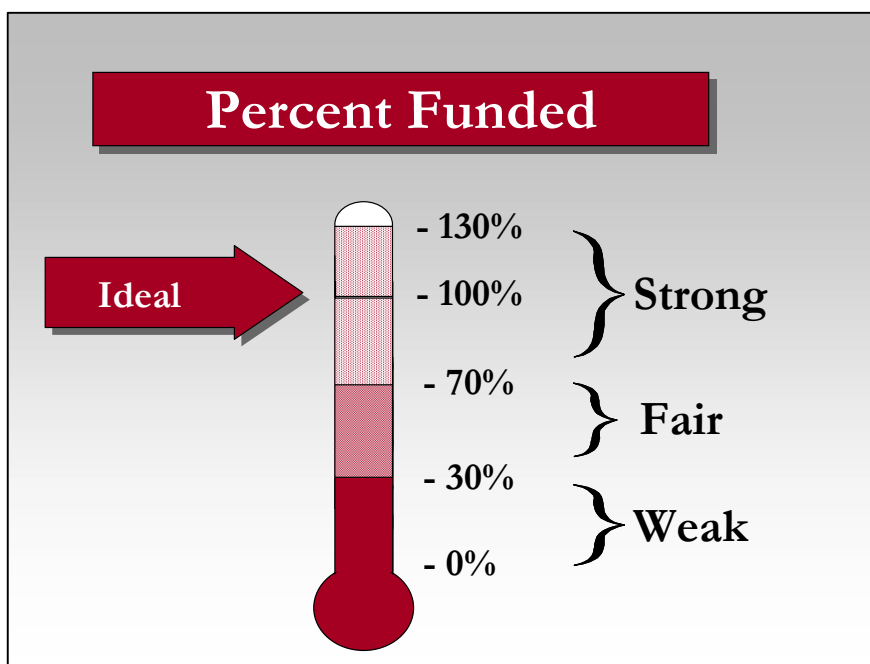
- 1) Client Cost History
- 2) Comparison to Association Reserves database of work done at similar CSDs
- 3) Vendor Recommendations
- 4) Reliable National Industry cost estimating guidebooks

How much Reserves are enough?

Your Reserve cash Balance can measure reserves, but the true measure is whether the funds are adequate. Adequacy is measured in a two-step process:

- 1) Calculate the Administrative Department's Fully Funded Balance (FFB).
- 2) Compare to the Administrative Department Reserve Fund Balance, and express as a percentage.

The FFB grows as assets age and the Reserve needs of the Administrative Department increase, but shrinks when projects are accomplished and the Reserve needs of the Administrative Department decrease. The Fully Funded Balance changes each year, and is a moving but predictable target.



Deferred maintenance and the need for a transfer of funds are common when the Percent Funded is below 30%. While the 100% point is Ideal, a Reserve Fund in the 70% -130% range is considered "strong" because in this range cash flow problems are rare.

Measuring your Reserves by Percent Funded tells how well prepared your Administrative Department is for upcoming Reserve expenses.

How much should we contribute?

There are four Funding Principles that we balance in developing your Reserve Funding Plan. Our first objective is to design a plan that provides you with sufficient cash to perform your Reserve projects on time. A stable contribution rate is desirable because it is a hallmark of a proactive plan.

Reserve contributions that are evenly distributed over the owners, over the years, enable each owner to pay their “fair share” of the Administrative Department’s Reserve expenses (this means we recommend a transfer of funds only when all other options have been exhausted). We develop a plan that is fiscally responsible and “safe” for Board Members to recommend to their CSD.

Funding Principles

- Sufficient Cash
- Stable Contribution Rate
- Evenly Distributed
- Fiscally Responsible

What is our Recommended Funding Goal?

Maintaining the Reserve Fund at a level equal to the physical deterioration that has occurred is called “Full Funding” the Reserves (100% Funded). As each asset ages and becomes “used up”, the Reserve Fund grows proportionally. **This is simple, responsible, and our recommendation.** As stated previously, CSDs in the 100% range rarely experience deferred maintenance or the need for a transfer of funds to Reserves.

Allowing the Reserves to fall close to zero, but not below zero, is called Baseline Funding. In these CSDs, deterioration occurs without matching Reserve contributions. With a low Percent Funded, deferred maintenance or the need for a transfer of funds to Reserves is common.

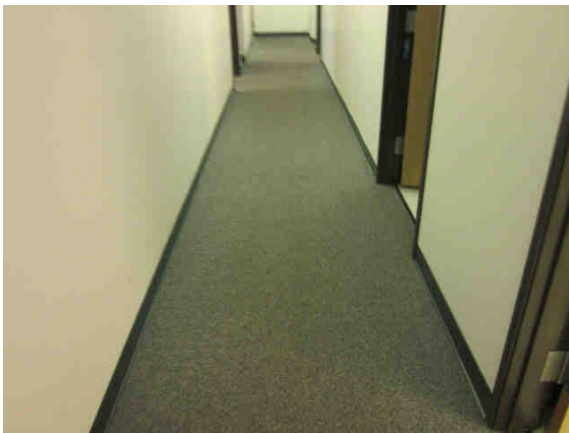
Threshold Funding is the title of all other objectives randomly selected between Baseline Funding and Full Funding.

Funding Goals

- Full Funding
- Threshold Funding
- Baseline Funding

Site Inspection Notes

During our site visit on August 4, 2014, we started with a brief meeting with Paul Siebensohn (Director of Field Operations), and then started the site inspection beginning with the administrative building. We visually inspected all of the administrative areas.



Projected Expenses

The figure below shows the array of the projected future expenses at your CSD’s Administrative Department. All expenses are based on the average of our Best Case and Worst Case projections, inflated appropriately for future years.

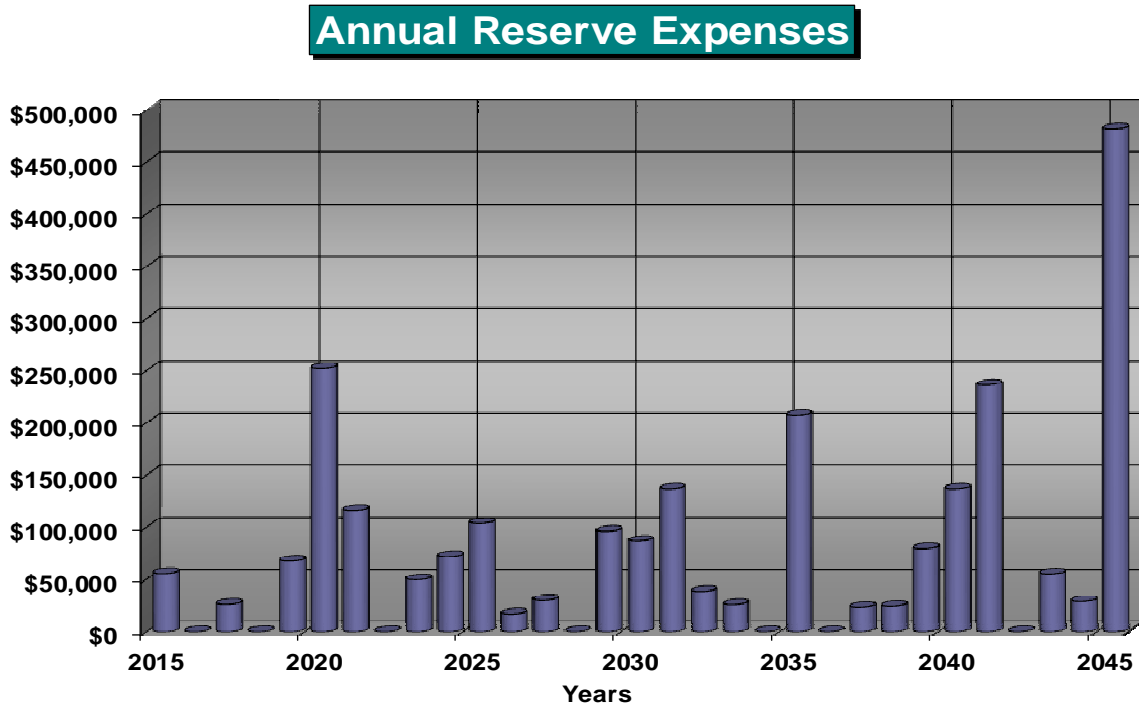


Figure 1

A summary of this information is shown in Table 4, while details of the projects that make up this information are shown in Table 5. Since this is a projection about future events that may or may not take place as anticipated, we feel more certain about “near-term” projects than those many years away. While this Reserve Study is a one-year document, it is based on 30 years’ worth of looking forward into the future.

Reserve Fund Status

The starting point for our financial analysis is your Reserve Fund balance, projected to be \$38,382 as-of the start of your Fiscal Year on July 1, 2015. This is based on your actual balance on 9/30/2014 of \$38,382, no anticipated regular Reserve contributions, and no expenses projected through the end of your Fiscal Year. As of July 1, 2015, your Fully Funded Balance is computed to be \$320,347 (see Table 3). This figure represents the deteriorated value of your Administrative Department components. Comparing your Reserve Balance to your Fully Funded Balance indicates your Reserves are 12% Funded. As indicated earlier in the Executive Summary, this represents a weak status.

Recommended Funding Plan

Based on your current Percent Funded and your projected cash flow requirements, we are recommending Reserve contributions of \$5,500/month this 2015/2016 Fiscal Year. This represents the first year of the 30-year Funding Plan shown below. This same information is shown numerically in both Table 4 and Table 5.

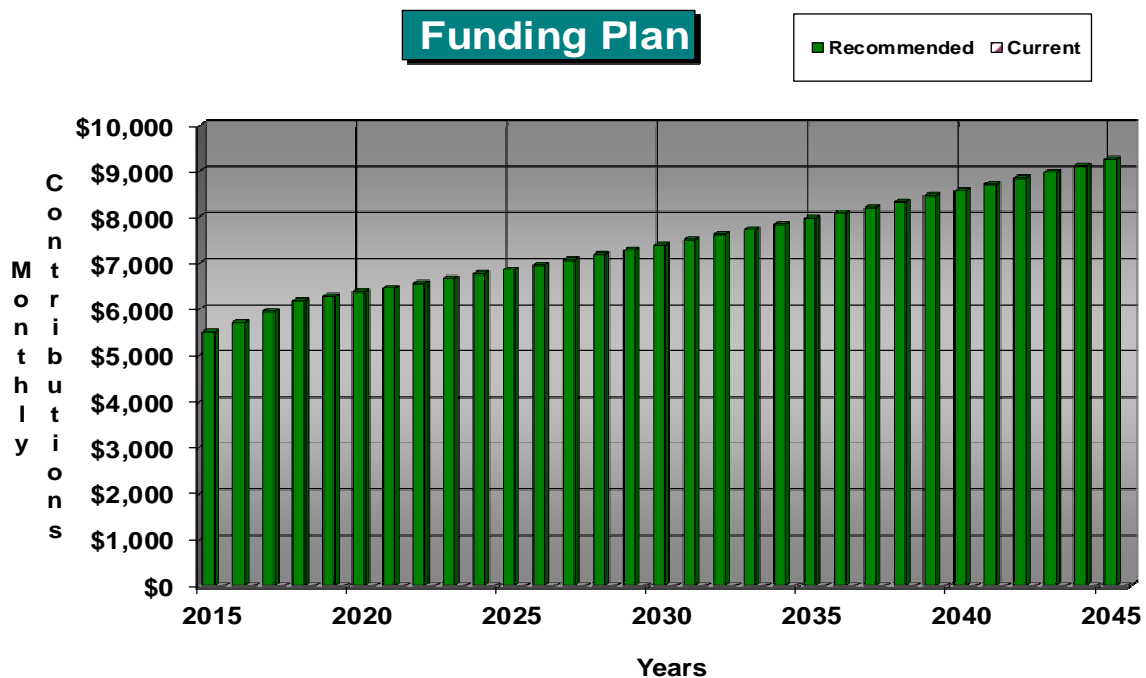


Figure 2

The following chart shows your Reserve balance under our recommended Funding Plan and your current Funding Plan, and your always-changing Fully Funded Balance target.

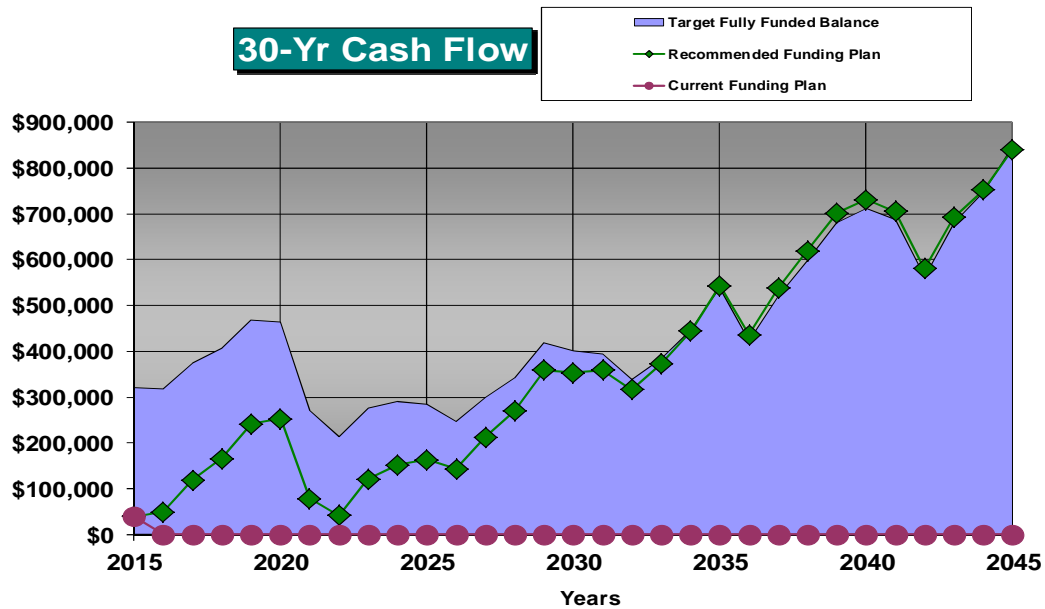


Figure 3

In this figure it is easy to see how your Reserve Fund gradually draws closer to the Fully Funded (100%) level.

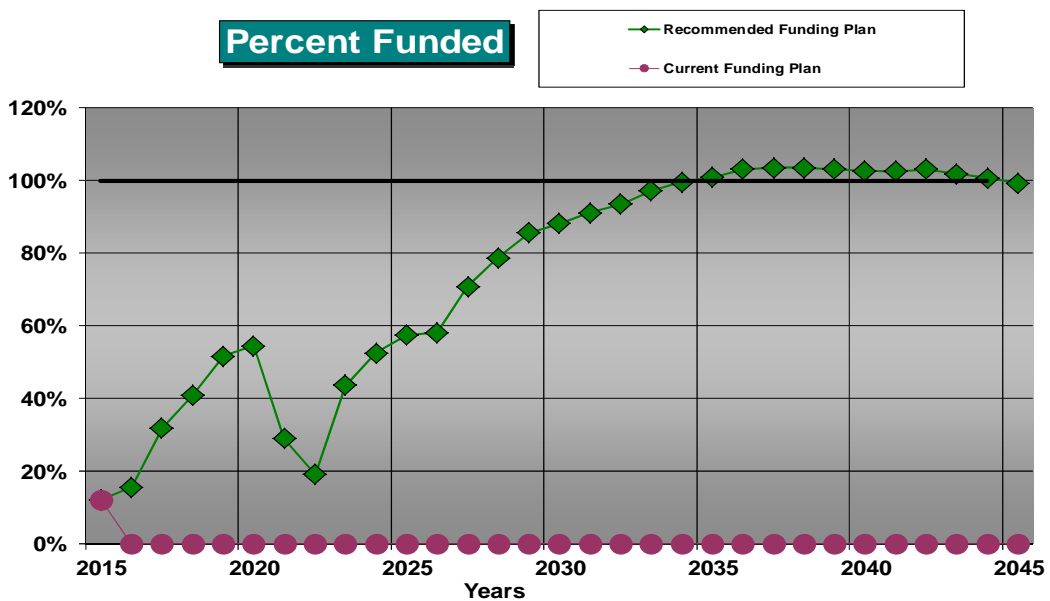


Figure 4

Table Descriptions

The tabular information in this Report is broken down into five tables.

Table 1 summarizes your funded Administrative Department Reserve Components, and is part of the Executive Report summary that appeared earlier in this Report.

Table 2 provides the main component description, life, and cost factors for all components determined to be appropriate for Reserve designation. This table represents the core information from which all other tables are derived.

Table 3 is presented primarily as an accounting summary. The results of the individual line item Fully Funded Balance computations are shown. These individual quantities are summed to arrive at the Fully Funded Balance for the Administrative Department as of the start date of the Report. The figures in the Current Fund Balance column and the Monthly Reserve Contribution column show our distribution throughout the line items. If the Administrative Department is underfunded, Reserve Funds are distributed first to components with a short Remaining Useful Life. If the Administrative Department's Reserve Balance is above 100% Funded, funds are distributed evenly for all components. Contribution rates for each component are a proportionate distribution of the total contribution on the basis of the component's significance to the Administrative Department (current cost divided by useful life). This presentation is not meant to cause clients to redistribute Administrative Department funds, it simply presents one way to evenly distribute the total among all the different line items.

Table 4: This table provides a one-page 30-year summary of the cash flowing into and out of the Administrative Department Reserve Fund, compared to the Fully Funded Balance for each year.

Table 5: This table shows the cash flow detail for the next 30 years. This table makes it possible to see what components are projected to require repair or replacement each year, and the size of those individual expenses.

Table 2: Reserve Component List Detail**27003-0
ADMIN**

| # | Component | Quantity | Useful Life | Rem. Useful Life | Best Cost | Current Worst Cost |
|------|-------------------------------------|---------------------------|----------------|------------------------|--------------|--------------------------|
| 202 | Asphalt - Resurface | Approx 16,000 GSF | 25 | 5 | \$72,000 | \$86,400 |
| 203 | Asphalt - Seal/Repair | Approx 16,000 GSF | 5 | 0 | \$4,000 | \$5,000 |
| 303 | HVAC Condensers - Replace | (5) York Units | 25 | 5 | \$22,500 | \$27,000 |
| 323 | Street/Pole Lights - Replace | (4) Fixtures, 2 Heads ea. | 40 | 17 | \$10,000 | \$12,000 |
| 509 | Trellis - Replace | Approx 400 GSF | 25 | 8 | \$10,000 | \$15,000 |
| 601 | Carpet - Replace | Approx 270 GSY | 15 | 5 | \$17,600 | \$21,900 |
| 909 | Bathroom - Refurbish | (2) Bathrooms, 200 GSF | 25 | 5 | \$6,000 | \$8,000 |
| 913 | Kitchen - Refurbish | (4) Appliances | 25 | 5 | \$8,000 | \$10,000 |
| 918 | Office Furniture - Replace 50% | (29) Tables, (79) Chairs | 10 | 4 | \$35,000 | \$43,000 |
| 940 | Storage Cabinetry - Refurbish | Various Storage Cabinets | 22 | 8 | \$10,000 | \$12,000 |
| 1009 | Landscaping & Irrigation- Replenish | Approx 1.9 Acres | 6 | 2 | \$10,000 | \$15,000 |
| 1110 | Interior Surfaces - Repaint | Approx 4,750 GSF | 15 | 5 | \$5,300 | \$6,400 |
| 1115 | Exteriors - Repaint/Repair | Approx 2,000 GSF | 10 | 8 | \$2,800 | \$3,400 |
| 1305 | Tile Roof - Replace Underlayment | Approx 6,000 GSF | 30 | 9 | \$50,000 | \$60,000 |
| 1312 | Gutters/Downspouts - Replace | Approx 260 LF | 30 | 5 | \$3,500 | \$4,500 |
| 1804 | Internet/Wireless Systems - Replace | Various Systems and Wires | 4 | 2 | \$11,000 | \$13,000 |
| 1812 | Servers - Replace | (2) Servers | 5 | 0 | \$18,000 | \$22,000 |
| 1819 | Fire Alarm System - Replace | (1) Fire Alarm System | 15 | 10 | \$8,500 | \$10,500 |
| 1829 | Video/Sound Systems - Replace 50% | Video/Audio Systems | 6 | 5 | \$11,000 | \$13,500 |
| 2400 | Stuffer Machine - Replace | (1) Pitney Bowes Machine | 8 | 4 | \$19,000 | \$23,000 |
| 2401 | BizHub - Replace | (1) BizHub Machine | 5 | 0 | \$28,300 | \$33,900 |
| 2411 | Admin Software - Replace | Admin Software | 10 | 6 | \$75,000 | \$95,000 |
| 22 | Total Funded Components | | | | | |

Table 3: Contribution and Fund Breakdown**27003-0
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| # | Component | Useful Life | Rem. Useful Life | Current (Avg) Cost | Fully Funded Balance | Current Fund Balance | Reserve Contributions |
|------|-------------------------------------|----------------|------------------------|-----------------------|----------------------------|----------------------------|--------------------------|
| 202 | Asphalt - Resurface | 25 | 5 | \$79,200 | \$63,360 | \$0.00 | \$396.36 |
| 203 | Asphalt - Seal/Repair | 5 | 0 | \$4,500 | \$4,500 | \$4,500.00 | \$112.60 |
| 303 | HVAC Condensers - Replace | 25 | 5 | \$24,750 | \$19,800 | \$0.00 | \$123.86 |
| 323 | Street/Pole Lights - Replace | 40 | 17 | \$11,000 | \$6,325 | \$0.00 | \$34.41 |
| 509 | Trellis - Replace | 25 | 8 | \$12,500 | \$8,500 | \$0.00 | \$62.56 |
| 601 | Carpet - Replace | 15 | 5 | \$19,750 | \$13,167 | \$0.00 | \$164.73 |
| 909 | Bathroom - Refurbish | 25 | 5 | \$7,000 | \$5,600 | \$0.00 | \$35.03 |
| 913 | Kitchen - Refurbish | 25 | 5 | \$9,000 | \$7,200 | \$0.00 | \$45.04 |
| 918 | Office Furniture - Replace 50% | 10 | 4 | \$39,000 | \$23,400 | \$0.00 | \$487.95 |
| 940 | Storage Cabinetry - Refurbish | 22 | 8 | \$11,000 | \$7,000 | \$0.00 | \$62.56 |
| 1009 | Landscaping & Irrigation- Replenish | 6 | 2 | \$12,500 | \$8,333 | \$0.00 | \$260.66 |
| 1110 | Interior Surfaces - Repaint | 15 | 5 | \$5,850 | \$3,900 | \$0.00 | \$48.79 |
| 1115 | Exteriors - Repaint/Repair | 10 | 8 | \$3,100 | \$620 | \$0.00 | \$38.79 |
| 1305 | Tile Roof - Replace Underlayment | 30 | 9 | \$55,000 | \$38,500 | \$0.00 | \$229.38 |
| 1312 | Gutters/Downspouts - Replace | 30 | 5 | \$4,000 | \$3,333 | \$0.00 | \$16.68 |
| 1804 | Internet/Wireless Systems - Replace | 4 | 2 | \$12,000 | \$6,000 | \$0.00 | \$375.34 |
| 1812 | Servers - Replace | 5 | 0 | \$20,000 | \$20,000 | \$20,000.00 | \$500.46 |
| 1819 | Fire Alarm System - Replace | 15 | 10 | \$9,500 | \$3,167 | \$0.00 | \$79.24 |
| 1829 | Video/Sound Systems - Replace 50% | 6 | 5 | \$12,250 | \$2,042 | \$0.00 | \$255.44 |
| 2400 | Stuffer Machine - Replace | 8 | 4 | \$21,000 | \$10,500 | \$0.00 | \$328.43 |
| 2401 | BizHub - Replace | 5 | 0 | \$31,100 | \$31,100 | \$13,882.00 | \$778.21 |
| 2411 | Admin Software - Replace | 10 | 6 | \$85,000 | \$34,000 | \$0.00 | \$1,063.47 |
| 22 | Total Funded Components | | | | \$320,347 | \$38,382 | \$5,500 |

Table 4: 30-Year Reserve Plan Summary Recommended by Association Reserves

**27003-0
ADMIN**

Fiscal Year Beginning: 07/01/15

| | |
|------------------------|------------------------|
| Interest: 1.00% | Inflation: 3.0% |
|------------------------|------------------------|

| Year | Starting Reserve Balance | Fully Funded Balance | Percent Funded | Rating | % Increase In Annual Reserve Contribs. | Annual Reserve Contribs. | Loans or Transfer Amnts | Interest Income | Projected Reserve Expenses |
|------|--------------------------|----------------------|----------------|--------|--|--------------------------|-------------------------|-----------------|----------------------------|
| 2015 | \$38,382 | \$320,347 | 12.0% | Weak | | \$66,000 | \$0 | \$438 | \$55,600 |
| 2016 | \$49,220 | \$317,968 | 15.5% | Weak | 4.00% | \$68,640 | \$0 | \$839 | \$0 |
| 2017 | \$118,699 | \$374,143 | 31.7% | Fair | 4.00% | \$71,386 | \$0 | \$1,420 | \$25,992 |
| 2018 | \$165,513 | \$406,632 | 40.7% | Fair | 4.00% | \$74,241 | \$0 | \$2,036 | \$0 |
| 2019 | \$241,790 | \$468,308 | 51.6% | Fair | 1.50% | \$75,355 | \$0 | \$2,468 | \$67,531 |
| 2020 | \$252,082 | \$463,762 | 54.4% | Fair | 1.50% | \$76,485 | \$0 | \$1,651 | \$252,026 |
| 2021 | \$78,192 | \$270,578 | 28.9% | Weak | 1.50% | \$77,632 | \$0 | \$594 | \$115,823 |
| 2022 | \$40,594 | \$213,462 | 19.0% | Weak | 1.50% | \$78,797 | \$0 | \$804 | \$0 |
| 2023 | \$120,195 | \$275,553 | 43.6% | Fair | 1.50% | \$79,979 | \$0 | \$1,360 | \$49,531 |
| 2024 | \$152,003 | \$290,160 | 52.4% | Fair | 1.50% | \$81,178 | \$0 | \$1,574 | \$71,763 |
| 2025 | \$162,993 | \$284,028 | 57.4% | Fair | 1.50% | \$82,396 | \$0 | \$1,531 | \$103,616 |
| 2026 | \$143,304 | \$246,675 | 58.1% | Fair | 1.50% | \$83,632 | \$0 | \$1,775 | \$16,957 |
| 2027 | \$211,754 | \$299,285 | 70.8% | Strong | 1.50% | \$84,886 | \$0 | \$2,403 | \$29,941 |
| 2028 | \$269,103 | \$341,981 | 78.7% | Strong | 1.50% | \$86,160 | \$0 | \$3,136 | \$0 |
| 2029 | \$358,398 | \$418,733 | 85.6% | Strong | 1.50% | \$87,452 | \$0 | \$3,557 | \$96,049 |
| 2030 | \$353,358 | \$400,852 | 88.2% | Strong | 1.50% | \$88,764 | \$0 | \$3,561 | \$86,623 |
| 2031 | \$359,060 | \$394,198 | 91.1% | Strong | 1.50% | \$90,095 | \$0 | \$3,375 | \$136,400 |
| 2032 | \$316,130 | \$338,191 | 93.5% | Strong | 1.50% | \$91,447 | \$0 | \$3,442 | \$38,429 |
| 2033 | \$372,590 | \$383,593 | 97.1% | Strong | 1.50% | \$92,819 | \$0 | \$4,080 | \$25,707 |
| 2034 | \$443,782 | \$445,707 | 99.6% | Strong | 1.50% | \$94,211 | \$0 | \$4,931 | \$0 |
| 2035 | \$542,924 | \$538,474 | 100.8% | Strong | 1.50% | \$95,624 | \$0 | \$4,894 | \$207,161 |
| 2036 | \$436,281 | \$423,030 | 103.1% | Strong | 1.50% | \$97,058 | \$0 | \$4,870 | \$0 |
| 2037 | \$538,210 | \$519,953 | 103.5% | Strong | 1.50% | \$98,514 | \$0 | \$5,786 | \$22,993 |
| 2038 | \$619,517 | \$598,626 | 103.5% | Strong | 1.50% | \$99,992 | \$0 | \$6,604 | \$24,176 |
| 2039 | \$701,937 | \$681,044 | 103.1% | Strong | 1.50% | \$101,492 | \$0 | \$7,163 | \$79,279 |
| 2040 | \$731,313 | \$711,860 | 102.7% | Strong | 1.50% | \$103,014 | \$0 | \$7,180 | \$136,305 |
| 2041 | \$705,202 | \$687,625 | 102.6% | Strong | 1.50% | \$104,559 | \$0 | \$6,423 | \$236,147 |
| 2042 | \$580,038 | \$562,670 | 103.1% | Strong | 1.50% | \$106,128 | \$0 | \$6,360 | \$0 |
| 2043 | \$692,525 | \$680,126 | 101.8% | Strong | 1.50% | \$107,720 | \$0 | \$7,221 | \$55,139 |
| 2044 | \$752,327 | \$747,331 | 100.7% | Strong | 1.50% | \$109,335 | \$0 | \$7,962 | \$28,868 |

Table 5: 30-Year Income/Expense Detail (yrs 0 through 4)

**27003-0
ADMIN**

| Fiscal Year | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$38,382 | \$49,220 | \$118,699 | \$165,513 | \$241,790 |
| Annual Reserve Contribution | \$66,000 | \$68,640 | \$71,386 | \$74,241 | \$75,355 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$438 | \$839 | \$1,420 | \$2,036 | \$2,468 |
| Total Income | \$104,820 | \$118,699 | \$191,505 | \$241,790 | \$319,613 |
| # Component | | | | | |
| 202 Asphalt - Resurface | \$0 | \$0 | \$0 | \$0 | \$0 |
| 203 Asphalt - Seal/Repair | \$4,500 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC Condensers - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 323 Street/Pole Lights - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 509 Trellis - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 601 Carpet - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 909 Bathroom - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 913 Kitchen - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 918 Office Furniture - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$43,895 |
| 940 Storage Cabinetry - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1009 Landscaping & Irrigation- Replenish | \$0 | \$0 | \$13,261 | \$0 | \$0 |
| 1110 Interior Surfaces - Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1115 Exteriors - Repaint/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1305 Tile Roof - Replace Underlayment | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1312 Gutters/Downspouts - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1804 Internet/Wireless Systems - Replace | \$0 | \$0 | \$12,731 | \$0 | \$0 |
| 1812 Servers - Replace | \$20,000 | \$0 | \$0 | \$0 | \$0 |
| 1819 Fire Alarm System - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1829 Video/Sound Systems - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2400 Stuffer Machine - Replace | \$0 | \$0 | \$0 | \$0 | \$23,636 |
| 2401 BizHub - Replace | \$31,100 | \$0 | \$0 | \$0 | \$0 |
| 2411 Admin Software - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$55,600 | \$0 | \$25,992 | \$0 | \$67,531 |
| Ending Reserve Balance: | \$49,220 | \$118,699 | \$165,513 | \$241,790 | \$252,082 |

Table 5: 30-Year Income/Expense Detail (yrs 5 through 9)

**27003-0
ADMIN**

| Fiscal Year | 2020 | 2021 | 2022 | 2023 | 2024 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$252,082 | \$78,192 | \$40,594 | \$120,195 | \$152,003 |
| Annual Reserve Contribution | \$76,485 | \$77,632 | \$78,797 | \$79,979 | \$81,178 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$1,651 | \$594 | \$804 | \$1,360 | \$1,574 |
| Total Income | \$330,218 | \$156,418 | \$120,195 | \$201,534 | \$234,756 |
| # Component | | | | | |
| 202 Asphalt - Resurface | \$91,815 | \$0 | \$0 | \$0 | \$0 |
| 203 Asphalt - Seal/Repair | \$5,217 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC Condensers - Replace | \$28,692 | \$0 | \$0 | \$0 | \$0 |
| 323 Street/Pole Lights - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 509 Trellis - Replace | \$0 | \$0 | \$0 | \$15,835 | \$0 |
| 601 Carpet - Replace | \$22,896 | \$0 | \$0 | \$0 | \$0 |
| 909 Bathroom - Refurbish | \$8,115 | \$0 | \$0 | \$0 | \$0 |
| 913 Kitchen - Refurbish | \$10,433 | \$0 | \$0 | \$0 | \$0 |
| 918 Office Furniture - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 940 Storage Cabinetry - Refurbish | \$0 | \$0 | \$0 | \$13,934 | \$0 |
| 1009 Landscaping & Irrigation- Replenish | \$0 | \$0 | \$0 | \$15,835 | \$0 |
| 1110 Interior Surfaces - Repaint | \$6,782 | \$0 | \$0 | \$0 | \$0 |
| 1115 Exteriors - Repaint/Repair | \$0 | \$0 | \$0 | \$3,927 | \$0 |
| 1305 Tile Roof - Replace Underlayment | \$0 | \$0 | \$0 | \$0 | \$71,763 |
| 1312 Gutters/Downspouts - Replace | \$4,637 | \$0 | \$0 | \$0 | \$0 |
| 1804 Internet/Wireless Systems - Replace | \$0 | \$14,329 | \$0 | \$0 | \$0 |
| 1812 Servers - Replace | \$23,185 | \$0 | \$0 | \$0 | \$0 |
| 1819 Fire Alarm System - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1829 Video/Sound Systems - Replace 50% | \$14,201 | \$0 | \$0 | \$0 | \$0 |
| 2400 Stuffer Machine - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2401 BizHub - Replace | \$36,053 | \$0 | \$0 | \$0 | \$0 |
| 2411 Admin Software - Replace | \$0 | \$101,494 | \$0 | \$0 | \$0 |
| Total Expenses | \$252,026 | \$115,823 | \$0 | \$49,531 | \$71,763 |
| Ending Reserve Balance: | \$78,192 | \$40,594 | \$120,195 | \$152,003 | \$162,993 |

Table 5: 30-Year Income/Expense Detail (yrs 10 through 14)

**27003-0
ADMIN**

| Fiscal Year | 2025 | 2026 | 2027 | 2028 | 2029 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$162,993 | \$143,304 | \$211,754 | \$269,103 | \$358,398 |
| Annual Reserve Contribution | \$82,396 | \$83,632 | \$84,886 | \$86,160 | \$87,452 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$1,531 | \$1,775 | \$2,403 | \$3,136 | \$3,557 |
| Total Income | \$246,920 | \$228,711 | \$299,044 | \$358,398 | \$449,408 |
| # Component | | | | | |
| 202 Asphalt - Resurface | \$0 | \$0 | \$0 | \$0 | \$0 |
| 203 Asphalt - Seal/Repair | \$6,048 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC Condensers - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 323 Street/Pole Lights - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 509 Trellis - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 601 Carpet - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 909 Bathroom - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 913 Kitchen - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 918 Office Furniture - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$58,991 |
| 940 Storage Cabinetry - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1009 Landscaping & Irrigation- Replenish | \$0 | \$0 | \$0 | \$0 | \$18,907 |
| 1110 Interior Surfaces - Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1115 Exteriors - Repaint/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1305 Tile Roof - Replace Underlayment | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1312 Gutters/Downspouts - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1804 Internet/Wireless Systems - Replace | \$16,127 | \$0 | \$0 | \$0 | \$18,151 |
| 1812 Servers - Replace | \$26,878 | \$0 | \$0 | \$0 | \$0 |
| 1819 Fire Alarm System - Replace | \$12,767 | \$0 | \$0 | \$0 | \$0 |
| 1829 Video/Sound Systems - Replace 50% | \$0 | \$16,957 | \$0 | \$0 | \$0 |
| 2400 Stuffer Machine - Replace | \$0 | \$0 | \$29,941 | \$0 | \$0 |
| 2401 BizHub - Replace | \$41,796 | \$0 | \$0 | \$0 | \$0 |
| 2411 Admin Software - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$103,616 | \$16,957 | \$29,941 | \$0 | \$96,049 |
| Ending Reserve Balance: | \$143,304 | \$211,754 | \$269,103 | \$358,398 | \$353,358 |

Table 5: 30-Year Income/Expense Detail (yrs 15 through 19)

**27003-0
ADMIN**

| Fiscal Year | 2030 | 2031 | 2032 | 2033 | 2034 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$353,358 | \$359,060 | \$316,130 | \$372,590 | \$443,782 |
| Annual Reserve Contribution | \$88,764 | \$90,095 | \$91,447 | \$92,819 | \$94,211 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$3,561 | \$3,375 | \$3,442 | \$4,080 | \$4,931 |
| Total Income | \$445,683 | \$452,530 | \$411,019 | \$469,489 | \$542,924 |
| # Component | | | | | |
| 202 Asphalt - Resurface | \$0 | \$0 | \$0 | \$0 | \$0 |
| 203 Asphalt - Seal/Repair | \$7,011 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC Condensers - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 323 Street/Pole Lights - Replace | \$0 | \$0 | \$18,181 | \$0 | \$0 |
| 509 Trellis - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 601 Carpet - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 909 Bathroom - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 913 Kitchen - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 918 Office Furniture - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 940 Storage Cabinetry - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1009 Landscaping & Irrigation- Replenish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1110 Interior Surfaces - Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1115 Exteriors - Repaint/Repair | \$0 | \$0 | \$0 | \$5,278 | \$0 |
| 1305 Tile Roof - Replace Underlayment | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1312 Gutters/Downspouts - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1804 Internet/Wireless Systems - Replace | \$0 | \$0 | \$0 | \$20,429 | \$0 |
| 1812 Servers - Replace | \$31,159 | \$0 | \$0 | \$0 | \$0 |
| 1819 Fire Alarm System - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1829 Video/Sound Systems - Replace 50% | \$0 | \$0 | \$20,247 | \$0 | \$0 |
| 2400 Stuffer Machine - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2401 BizHub - Replace | \$48,453 | \$0 | \$0 | \$0 | \$0 |
| 2411 Admin Software - Replace | \$0 | \$136,400 | \$0 | \$0 | \$0 |
| Total Expenses | \$86,623 | \$136,400 | \$38,429 | \$25,707 | \$0 |
| Ending Reserve Balance: | \$359,060 | \$316,130 | \$372,590 | \$443,782 | \$542,924 |

Table 5: 30-Year Income/Expense Detail (yrs 20 through 24)

**27003-0
ADMIN**

| Fiscal Year | 2035 | 2036 | 2037 | 2038 | 2039 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$542,924 | \$436,281 | \$538,210 | \$619,517 | \$701,937 |
| Annual Reserve Contribution | \$95,624 | \$97,058 | \$98,514 | \$99,992 | \$101,492 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$4,894 | \$4,870 | \$5,786 | \$6,604 | \$7,163 |
| Total Income | \$643,442 | \$538,210 | \$642,510 | \$726,113 | \$810,592 |
| # Component | | | | | |
| 202 Asphalt - Resurface | \$0 | \$0 | \$0 | \$0 | \$0 |
| 203 Asphalt - Seal/Repair | \$8,128 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC Condensers - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 323 Street/Pole Lights - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 509 Trellis - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 601 Carpet - Replace | \$35,671 | \$0 | \$0 | \$0 | \$0 |
| 909 Bathroom - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 913 Kitchen - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 918 Office Furniture - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$79,279 |
| 940 Storage Cabinetry - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1009 Landscaping & Irrigation- Replenish | \$22,576 | \$0 | \$0 | \$0 | \$0 |
| 1110 Interior Surfaces - Repaint | \$10,566 | \$0 | \$0 | \$0 | \$0 |
| 1115 Exteriors - Repaint/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1305 Tile Roof - Replace Underlayment | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1312 Gutters/Downspouts - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1804 Internet/Wireless Systems - Replace | \$0 | \$0 | \$22,993 | \$0 | \$0 |
| 1812 Servers - Replace | \$36,122 | \$0 | \$0 | \$0 | \$0 |
| 1819 Fire Alarm System - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1829 Video/Sound Systems - Replace 50% | \$0 | \$0 | \$0 | \$24,176 | \$0 |
| 2400 Stuffer Machine - Replace | \$37,928 | \$0 | \$0 | \$0 | \$0 |
| 2401 BizHub - Replace | \$56,170 | \$0 | \$0 | \$0 | \$0 |
| 2411 Admin Software - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$207,161 | \$0 | \$22,993 | \$24,176 | \$79,279 |
| Ending Reserve Balance: | \$436,281 | \$538,210 | \$619,517 | \$701,937 | \$731,313 |

Table 5: 30-Year Income/Expense Detail (yrs 25 through 29)

**27003-0
ADMIN**

| Fiscal Year | 2040 | 2041 | 2042 | 2043 | 2044 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$731,313 | \$705,202 | \$580,038 | \$692,525 | \$752,327 |
| Annual Reserve Contribution | \$103,014 | \$104,559 | \$106,128 | \$107,720 | \$109,335 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$7,180 | \$6,423 | \$6,360 | \$7,221 | \$7,962 |
| Total Income | \$841,506 | \$816,184 | \$692,525 | \$807,466 | \$869,625 |
| # Component | | | | | |
| 202 Asphalt - Resurface | \$0 | \$0 | \$0 | \$0 | \$0 |
| 203 Asphalt - Seal/Repair | \$9,422 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC Condensers - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 323 Street/Pole Lights - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 509 Trellis - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 601 Carpet - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 909 Bathroom - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 913 Kitchen - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 918 Office Furniture - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 940 Storage Cabinetry - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1009 Landscaping & Irrigation- Replenish | \$0 | \$26,957 | \$0 | \$0 | \$0 |
| 1110 Interior Surfaces - Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1115 Exteriors - Repaint/Repair | \$0 | \$0 | \$0 | \$7,093 | \$0 |
| 1305 Tile Roof - Replace Underlayment | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1312 Gutters/Downspouts - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1804 Internet/Wireless Systems - Replace | \$0 | \$25,879 | \$0 | \$0 | \$0 |
| 1812 Servers - Replace | \$41,876 | \$0 | \$0 | \$0 | \$0 |
| 1819 Fire Alarm System - Replace | \$19,891 | \$0 | \$0 | \$0 | \$0 |
| 1829 Video/Sound Systems - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$28,868 |
| 2400 Stuffer Machine - Replace | \$0 | \$0 | \$0 | \$48,046 | \$0 |
| 2401 BizHub - Replace | \$65,116 | \$0 | \$0 | \$0 | \$0 |
| 2411 Admin Software - Replace | \$0 | \$183,310 | \$0 | \$0 | \$0 |
| Total Expenses | \$136,305 | \$236,147 | \$0 | \$55,139 | \$28,868 |
| Ending Reserve Balance: | \$705,202 | \$580,038 | \$692,525 | \$752,327 | \$840,757 |

Accuracy, Limitations, and Disclosures

Because we have no control over future events, we cannot claim that all the events we anticipate will occur as planned. We expect that inflationary trends will continue and we expect that financial institutions will provide interest earnings on funds on-deposit. We believe that reasonable estimates for these figures are much more accurate than ignoring these economic realities. The things we can control are measurements, which we attempt to establish within 5% accuracy. Your starting Reserve Balance and current Reserve interest earnings are also numbers that can be identified with a high degree of certainty. These figures have been provided to us, and were not confirmed by our independent research. Our projections assume a stable economic environment and lack of natural disasters.

Because both the physical status and financial status of the Administrative Department change each year, this Reserve Study is by nature a “one-year” document. This information can and should be adjusted annually as part of the Reserve Study Update process so that more accurate estimates can be reflected in the Administrative Department Reserve plan. Reality often differs from even the best assumptions due to changing economic factors, and physical factors. Because many years of financial preparation help prepare for large expenses, this Report shows expenses for the next 30 years. We fully expect a number of adjustments will be necessary through the interim years to both the cost and timing of distant expense projections. It is our recommendation and that of the American Institute of Certified Public Accountants (AICPA) that your Reserve Study be updated annually.

Association Reserves – SF, LLC, and its employees have no ownership, management, or other business relationships with the client other than this Reserve Study engagement. Derek Eckert, R.S., company president, is a credentialed Reserve Specialist (#114). All work done by Association Reserves is performed under his Responsible Charge. There are no material issues to our knowledge that have not been disclosed to the client that would cause a distortion of the CSD’s situation.

We have relied upon the client to provide the current (or projected) Administrative Department Reserve Balance, the estimated net-after-tax current rate of interest earnings, and to indicate if those earnings accrue to the Administrative Department Reserve Fund. In addition, we have considered the CSD’s representation of current and historical Administrative Department Reserve projects reliable, and we have considered the representations made by its vendors and suppliers to also be accurate and reliable.

Component quantities indicated in this Report were derived from the prior Reserve Study, unless otherwise noted in our “Site Inspection Notes”. No destructive or intrusive testing was performed, nor should the site inspection be assumed to be anything other than for budgeting purposes.

Association Reserves’ liability in any matter involving this Reserve Study is limited to our Fee for services rendered.

Where any uncertainties exist, we urge the CSD to obtain a legal review and written opinion of the legitimacy of the funding policies, as stipulated or permitted under your Declaration and local statutes. As these are legal questions, we highly recommend use of an experienced attorney specializing in CSD law.

Re-use of reserve study, figures or calculations in any other format absolves ARSF of all responsibility.

Terms and Definitions

| | |
|------------|--|
| BTU | British Thermal Unit (a standard unit of energy) |
| DIA | Diameter |
| GSF | Gross Square Feet (area) |
| GSY | Gross Square Yards (area) |
| HP | Horsepower |
| LF | Linear Feet (length) |

Effective Age: The difference between Useful Life and Remaining Useful Life. Note that this is not necessarily equivalent to the chronological age of the component.

Fully Funded Balance (FFB): The Reserve Balance that is in direct proportion to the fraction of life “used up” of the current Repair or Replacement cost. This benchmark balance represents the value of the deterioration of the Reserve Components. This number is calculated for each component, then summed together for a Administrative Department total.

$$\text{FFB} = (\text{Current Cost} \times \text{Effective Age}) / \text{Useful Life}$$

Inflation: Cost factors are adjusted for inflation at the rate defined in the Executive Summary and compounded annually. These increasing costs can be seen as you follow the recurring cycles of a component on Table 5.

Interest: Interest earnings on Reserve Funds are calculated using the average balance for the year (taking into account income and expenses through the year) and compounded monthly using the rate defined in the Executive Summary. Annual interest earning assumption appears in the Executive Summary, page ii.

Percent Funded: The ratio, at a particular point in time (typically the beginning of the Fiscal Year), of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage.

Remaining Useful Life: The estimated time, in years, that a component can be expected to continue to serve its intended function.

Useful Life: The estimated time, in years, that a component can be expected to serve its intended function.

Photographic Inventory Appendix

Association Reserves -SF, LLC

Component Details

Client: 27003E RMCS D - Admin

Comp # : 202 Asphalt - Resurface

Quantity: Approx 16,000 GSF

Location : Parking lot

Funded? : Yes

History :

Evaluation : We recommend having surface sealed and repaired as directed in component #203; regular cycles of seal coating are recommended for maximum design life. As routine maintenance, keep roadway clean, free of debris and well drained; fill/seal cracks to prevent water from penetrating into the sub-base and accelerating damage. Even with ordinary care and maintenance, plan for eventual large scale resurface at roughly the time frame below. As timing draws nearer, consult with asphalt vendor/consultant for recommendations and complete scope.

Useful Life:
25 years

Remaining Life:
5 years



Best Case: \$72,000

Worst Case: \$86,400

Lower allowance to resurface

Higher allowance to resurface

Cost Source: ARSF Cost Database

Comp # : 203 Asphalt - Seal/Repair

Quantity: Approx 16,000 GSF

Location : Parking lot

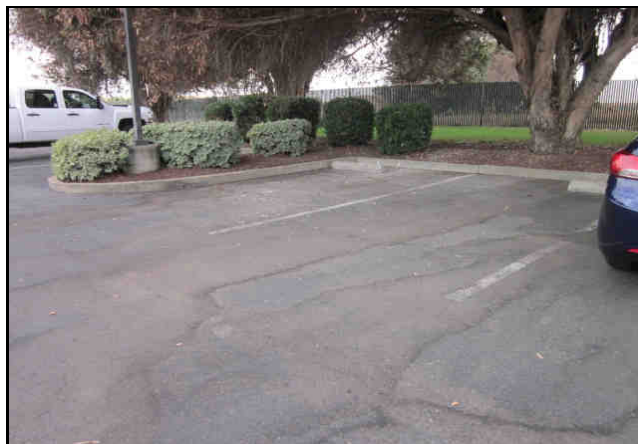
Funded? : Yes

History :

Evaluation : Loss of seal in isolated/most/majority of areas and moderate/normal/severe surface wear. Stress cracks and granule exposure observed. Overall poor condition. Seal asphalt every 4-5 years to protect the integrity and prolong the need for costly resurfacing.

Useful Life:
5 years

Remaining Life:
0 years



Best Case: \$4,000

Worst Case: \$5,000

Lower allowance to seal/repair

Higher allowance to seal/repair

Cost Source: ARSF Cost Database

Client: 27003E RMCS D - Admin

Comp # : 303 HVAC Condensers - Replace

Quantity: (5) York Units

Location : Admin building

Funded? : Yes

History :

Evaluation : With proactive service and maintenance, useful life can often be extended - have service vendor evaluate continuously and adjust useful life/remaining useful life as indicated within reserve study updates. As routine maintenance, regular professional inspections and maintenance will help to extend useful life cycles and achieve lowest annualized costs. Treat local repairs as a general operating and maintenance expense. Funding below is for future full replacement.

Useful Life:
25 years

Remaining Life:
5 years



Best Case: \$22,500

Worst Case: \$27,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 315 Computer Equipment - Replace

Quantity: Various Computer Equip.

Location : Admin building

Funded? : No . Replacement is handled as an operating expense.

History :

Evaluation : Replacement is handled as an Operating expense. No Reserve funding necessary at this time.

Useful Life:

Remaining Life:



Best Case:

Worst Case:

Cost Source:

Association Reserves -SF, LLC

Component Details

Client: 27003E RMCS D - Admin

Comp # : 319 Laptops - Replace

Quantity: Various Laptops

Location : Admin building

Funded? : No . Replacement is handled as an operating expense.

History :

Evaluation : Replacement is handled as an Operating expense. No Reserve funding necessary at this time.

Useful Life:

Remaining Life:

Photo Not Available

Best Case:

Worst Case:

Cost Source:

Comp # : 323 Street/Pole Lights - Replace

Quantity: (4) Fixtures, 2 Heads ea.

Location : Parking lot

Funded? : Yes

History :

Evaluation : Lights were inspected during daylight hours but are assumed to be functional. Unless otherwise noted, bulbs are expected to be replaced as needed as an Operating expense. Replacement should be considered at the approximate interval shown below to ensure good function and maintain good appearance in the common areas.

Useful Life:
40 years

Remaining Life:
17 years



Best Case: \$10,000

Worst Case: \$12,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003E RMCS D - Admin

Comp # : 509 Trellis - Replace

Quantity: Approx 400 GSF

Location : Admin building

Funded? : Yes

History :

Evaluation : As routine maintenance, inspect regularly and repair as needed from general Operating funds. Clean and paint/stain along with other larger projects (building exteriors, fencing, etc.) or as general maintenance to preserve the appearance of the material and extend its useful life. With ordinary care and maintenance, plan for replacement at roughly the interval indicated below due to deterioration that will result from constant exposure. Local repairs between large scale replacements can be funded as general maintenance item.

Useful Life:
25 years

Remaining Life:
8 years



Best Case: \$10,000

Worst Case: \$15,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 601 Carpet - Replace

Quantity: Approx 270 GSY

Location : Admin building

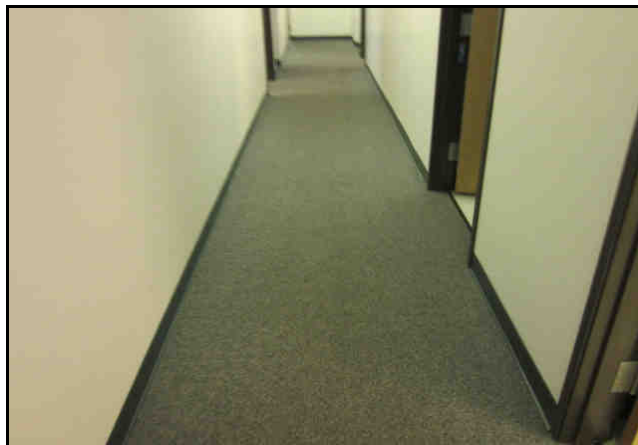
Funded? : Yes

History :

Evaluation : Carpeting was noted to be intact and in generally fair condition. Plan to replace at the time frame below, best timed after repainting (component #1110). Wide variety of type and quality available; a mid-range funding allowance is factored below for planning purposes. As part of ongoing maintenance program, vacuum regularly and professionally clean as needed.

Useful Life:
15 years

Remaining Life:
5 years



Best Case: \$17,600

Worst Case: \$21,900

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003E RMCS D - Admin

Comp # : 909 Bathroom - Refurbish

Quantity: (2) Bathrooms, 200 GSF

Location : Admin building

Funded? : Yes

History :

Evaluation : Useful life is dependent greatly on the level of aesthetics desired by the CSD. This component provides an allowance for general refurbishment of the bathrooms at the interval indicated below.

Useful Life:
25 years

Remaining Life:
5 years



Best Case: \$6,000

Worst Case: \$8,000

Lower allowance to refurbish

Higher allowance to refurbish

Cost Source: ARSF Cost Database

Comp # : 913 Kitchen - Refurbish

Quantity: (4) Appliances

Location : Admin building

Funded? : Yes

History :

Evaluation : (1) Fridge, (1) microwave, (1) dishwasher, and (1) stove/oven. Fair condition. Useful life is dependent greatly on the level of aesthetics desired by the CSD. Cost is dependent on the replacement sections made by the CSD. This component provides funding for general refurbishment and replacement of the appliances.

Useful Life:
25 years

Remaining Life:
5 years



Best Case: \$8,000

Worst Case: \$10,000

Lower allowance to refurbish

Higher allowance to refurbish

Cost Source: ARSF Cost Database

Client: 27003E RMCS D - Admin

Comp # : 918 Office Furniture - Replace 50%

Quantity: (29) Tables, (79) Chairs

Location : Admin building

Funded? : Yes

History :

Evaluation : Office furniture and equipment appear to be in fair condition. Anticipate periodic replacement. Funding for replacement of 50% of the furniture every 10 years.

Useful Life:
10 years

Remaining Life:
4 years



Best Case: \$35,000

Worst Case: \$43,000

Lower allowance to replace 50%

Higher allowance to replace 50%

Cost Source: ARSF Cost Database

Comp # : 940 Storage Cabinetry - Refurbish

Quantity: Various Storage Cabinets

Location : Admin building

Funded? : Yes

History :

Evaluation : Generally functional condition with no damage or other indication that replacement will be needed within the foreseeable future.

Useful Life:
22 years

Remaining Life:
8 years



Best Case: \$10,000

Worst Case: \$12,000

Lower allowance to refurbish

Higher allowance to refurbish

Cost Source: ARSF Cost Database

Client: 27003E RMCS D - Admin

Comp # : 1009 Landscaping & Irrigation- Replenish Quantity: Approx 1.9 Acres

Location : Admin building

Funded? : Yes

History :

Evaluation : Combination of turf, ground cover, shrubs and trees. Selected areas are periodically upgraded and plant material replaced. Cost and timing of replacement can vary greatly, but plan on 6 year interval.

Useful Life:
6 years

Remaining Life:
2 years



Best Case: \$10,000

Worst Case: \$15,000

Lower allowance to replenish

Higher allowance to replenish

Cost Source: ARSF Cost Database

Comp # : 1110 Interior Surfaces - Repaint Quantity: Approx 4,750 GSF

Location : Admin building

Funded? : Yes

History :

Evaluation : Regular cycles of paint are recommended to maintain appearance; best timed prior to carpet replacement (component #601). Keep touchup paint on site for in between cycle projects.

Useful Life:
15 years

Remaining Life:
5 years



Best Case: \$5,300

Worst Case: \$6,400

Lower allowance to repaint

Higher allowance to repaint

Cost Source: ARSF Cost Database

Client: 27003E RMCS D - Admin

Comp # : 1115 Exteriors - Repaint/Repair

Quantity: Approx 2,000 GSF

Location : Admin building

Funded? : Yes

History : Painted in 2013

Evaluation : Overall good to fair condition. Painting recommended every 8-10 years to preserve the surfaces of the stucco and maintain appearance. Future painting should be done in conjunction with other exterior surfaces.

Useful Life:
10 years

Remaining Life:
8 years



Best Case: \$2,800

Worst Case: \$3,400

Lower allowance to repaint/repair

Higher allowance to repaint/repair

Cost Source: ARSF Cost Database

Comp # : 1305 Tile Roof - Replace Underlayment

Quantity: Approx 6,000 GSF

Location : Admin building

Funded? : Yes

History : Original, 1994

Evaluation : No expectation to replace the tiles themselves under normal circumstances. However over an extended period of time the waterproof underlayment will become deteriorated and require replacement. The original tiles are removed, the underlayment replaced and the tiles are relayed. In order to ensure a high quality installation, the client may wish to obtain the services of an independent roofing consultant to work with the client and the roofing contractor providing installation. Fees for these services vary based on the size of the project and detail required by the client, and have not been included in the cost used for this component.

Useful Life:
30 years

Remaining Life:
9 years



Best Case: \$50,000

Worst Case: \$60,000

Lower allowance to replace underlayment

Higher allowance to replace underlayment

Cost Source: ARSF Cost Database

Client: 27003E RMCS D - Admin

Comp # : 1312 Gutters/Downspouts - Replace

Quantity: Approx 260 LF

Location : Perimeter of roof, Admin building

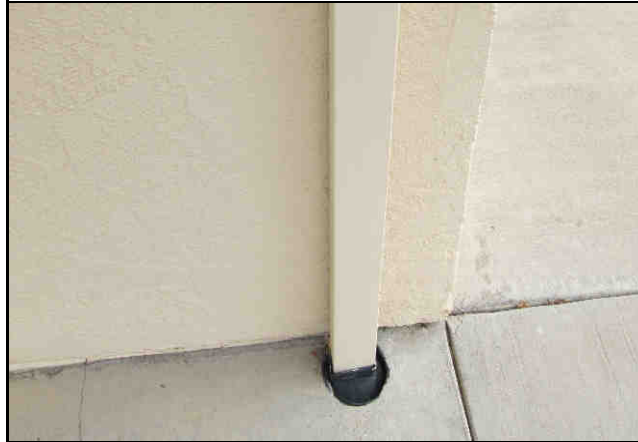
Funded? : Yes

History :

Evaluation : Inspect regularly, keep gutters and downspouts free of debris to ensure water evacuating from rooftops as designed and repair as needed from general operating funds. Best to plan for replacement at the same intervals as roof replacement cost efficiency.

Useful Life:
30 years

Remaining Life:
5 years



Best Case: \$3,500

Worst Case: \$4,500

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 1804 Internet/Wireless Systems - Replace

Quantity: Various Systems and Wires

Location : Admin building

Funded? : Yes

History :

Evaluation : Due to technology, anticipate the need to replace this system every few years.

Useful Life:
4 years

Remaining Life:
2 years



Best Case: \$11,000

Worst Case: \$13,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003E RMCS D - Admin

Comp # : 1812 Servers - Replace

Quantity: (2) Servers

Location : Server room

Funded? : Yes

History : 2007

Evaluation : (2) Servers: (SRV-1) and (NAS-1) Reported that this server needs to be replaced.

Useful Life:
5 years

Remaining Life:
0 years



Best Case: \$18,000

Worst Case: \$22,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 1819 Fire Alarm System - Replace

Quantity: (1) Fire Alarm System

Location : Admin building

Funded? : Yes

History : Inspection in 2011

Evaluation : Panel was not tested for functionality during site inspection. Unless otherwise noted, fire alarm panel is assumed to have been designed and installed properly and adheres to all relevant building codes. Regular testing and inspections should be conducted as an Operating expense. In many cases, manufacturers discontinue support of panel and parts/service availability may therefore be limited as the panel ages. Research and experience suggests planning for replacement at roughly the time frame below. Begin formulation of specifications and obtain estimates in advance of need - replace proactively to ensure safety.

Useful Life:
15 years

Remaining Life:
10 years



Best Case: \$8,500

Worst Case: \$10,500

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003E RMCS D - Admin

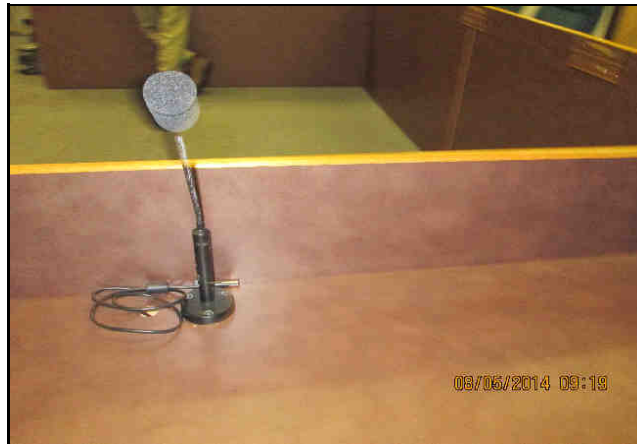
Comp # : 1829 Video/Sound Systems - Replace 50% Quantity: Video/Audio Systems
Location : Admin building
Funded? : Yes

History : New speakers system added in 2014

Evaluation : No expectation to replace the entire system at one time. This component funds to replace 1/2 of the system every few years.

Useful Life:
6 years

Remaining Life:
5 years



Best Case: \$11,000

Worst Case: \$13,500

Lower allowance to replace 50%

Higher allowance to replace 50%

Cost Source: ARSF Cost Database

Comp # : 2400 Stuffer Machine - Replace Quantity: (1) Pitney Bowes Machine
Location : Admin building
Funded? : Yes

History :

Evaluation : Functional, no issues. We recommend replacing the machine at roughly the interval below.

Useful Life:
8 years

Remaining Life:
4 years



Best Case: \$19,000

Worst Case: \$23,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003E RMCS D - Admin

Comp # : 2401 BizHub - Replace

Quantity: (1) BizHub Machine

Location : Admin building

Funded? : Yes

History : 12/2009

Evaluation : (1) BizHub Copier; Functional, no issues. We recommend replacing the machine at roughly the interval below.

Useful Life:
5 years

Remaining Life:
0 years



Best Case: \$28,300

Worst Case: \$33,900

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 2411 Admin Software - Replace

Quantity: Admin Software

Location : Admin building

Funded? : Yes

History :

Evaluation : Accounting and utility billing software. This component provides funding to replace/upgrade admin software at roughly the interval below. Update as future needs dictate.

Useful Life:
10 years

Remaining Life:
6 years

Photo Not Available

Best Case: \$75,000

Worst Case: \$95,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

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Reserve Studies for Community Associations

“Full” Reserve Study



RMCS D – Drainage Department Rancho Murieta, CA

Report #: 27003-0 DRAINAGE
For Period Beginning: July 1, 2015
Expires: June 30, 2016
Date Prepared: January 23, 2015



Hello, and welcome to your Reserve Study!

This Report is a valuable budget planning tool, for with it you control the future of your CSD. It contains all the fundamental information needed to understand your current and future Reserve obligations, the most significant expenditures your CSD's Drainage Department will face.

With respect to Reserves, this Report will tell you "where you are", and "where to go from here".

In this Report, you will find...

- 1) A List of What you're Reserving For**
- 2) An Evaluation of your Reserve Fund Size and Strength**
- 3) A Recommended Multi-Year Reserve Funding Plan**

More Questions?

Visit our website at www.ReserveStudy.com or call us at:

877/618-1955



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3- Minute Executive Summary

Name: RMCS D – Drainage Department **Assoc. #: 27003-0**
DRAINAGE
Location: Rancho Murieta, CA
of Units: 1
Report Period: July 1, 2015 through June 30, 2016

Results as-of 7/1/2015:

| | |
|---|-------------|
| Projected Starting Reserve Balance: | \$55,805 |
| Fully Funded Reserve Balance: | \$1,038,458 |
| Average Reserve Deficit (Surplus) Per Unit:..... | \$982,653 |
| Percent Funded: | 5.4% |
| Recommended 2015/16 monthly Reserve Contribution: | \$10,000 |

Most Recent Reserve Contribution Rate:..... \$0

Economic Assumptions:

Net Annual “After Tax” Interest Earnings Accruing to Reserves..... 1.00%
Annual Inflation Rate..... 3.00%

- This is a “Full” Reserve Study (original, created “from scratch”).
- The information in this Reserve Study is based on our site inspection on August 4, 2014.
- This Reserve Study was prepared under the supervision of a credentialed Reserve Specialist (RS).
- Because your Reserve Fund is at 5.4% Funded, this means the CSD’s Drainage Department deferred maintenance risk & need for a transfer of funds is currently high.
- Your multi-year Funding Plan is designed to gradually bring you to the 100% level, or “Fully Funded”.
- Based on this starting point, your anticipated future expenses, and your historical Reserve contribution rate, our recommendation is to increase your Reserve contributions.
- No assets appropriate for Reserve designation were excluded.

| # | Component | Useful Life (yrs) | Rem. Useful Life (yrs) | Current Average Cost | Future Average Cost |
|------|------------------------------------|-------------------------|------------------------------|----------------------------|---------------------------|
| 312 | Storm water Outfall Struct. Repair | 30 | 7 | \$815,750 | \$1,003,270 |
| 501 | Levees - Repair | 100 | 62 | \$400,000 | \$2,500,161 |
| 1005 | Drain Valve - Replace | 20 | 12 | \$55,000 | \$78,417 |
| 1005 | Equipment - Replace | 10 | 5 | \$16,500 | \$19,128 |
| 1009 | Drainage Culverts - Repair/Replace | 5 | 1 | \$93,500 | \$96,305 |
| 1011 | Main Lift South - Repair/Replace | 20 | 10 | \$125,000 | \$167,990 |
| 1014 | FAA Storm Water - Repair/Replace | 20 | 10 | \$30,000 | \$40,317 |
| 1904 | Basin 5 - Repair | 25 | 15 | \$190,000 | \$296,014 |
| 2113 | CIA Ditch - Maintain | 15 | 10 | \$7,500 | \$10,079 |
| 9 | Total Funded Components | | | | |

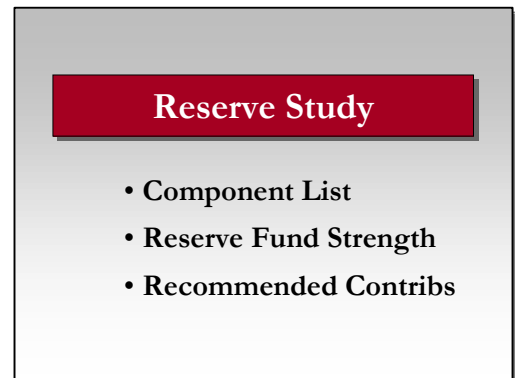
Note 1: Yellow highlighted line items are expected to require attention in initial year.

Note 2: a Useful Life of "N/A" means a one-time expense, not expected to repeat.

Introduction

A Reserve Study is the art and science of anticipating, and preparing for, a CSD's major repair and replacement expenses. Partially art, because in this field we are making projections about the future. Partially science, because our work is a process of research and analysis along well defined methodologies.

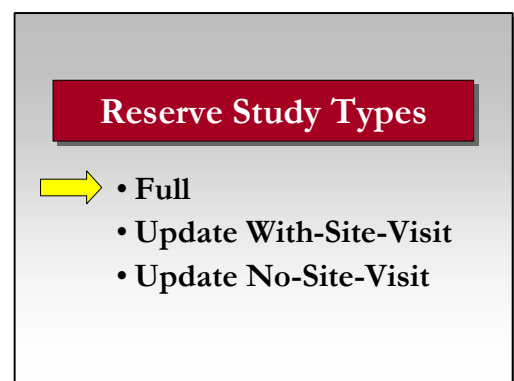
In this Report you will find the Reserve Component List (what you are reserving for). It contains our estimates for Useful Life, Remaining Useful Life, and the current repair or replacement cost for each major component the Drainage Department is obligated to maintain. Based on that List and your starting balance we computed the Drainage Department's Reserve Fund Strength (measured as "Percent Funded"), and created a recommended multi-year Reserve Funding Plan to offset future Reserve expenses.



As the physical assets age and deteriorate, it is important to accumulate financial assets to keep the two "in balance". A stable Reserve Funding Plan that offsets the irregular Reserve expenses will ensure that each owner pays their own "fair share" of ongoing deterioration.

Methodology

First we establish what the projected expenses are, then we determine the Drainage Department's financial status and create a Funding Plan. For this "Full" Reserve Study, we started with a review of your Governing Documents, recent Reserve expenditures, an evaluation of how expenditures are handled (ongoing maintenance vs Reserves), and research into any well-established CSD precedents.



We performed an on-site inspection to quantify and evaluate your common areas, creating your Reserve Component List "from scratch".

Which Physical Assets are Covered by Reserves?

There is a national-standard four-part test to determine which expenses should be funded through Reserves. First, it must be a Drainage Department maintenance responsibility. Second, the component must have a limited life. Third, the limited life must be predictable (or it by definition is a “surprise” which cannot be accurately anticipated). Fourth, the component must be above a minimum threshold cost. This limits Reserve Components to major, predictable expenses. Within this framework, it is inappropriate to include “lifetime” components, unpredictable expenses (such as damage due to fire, flood, or earthquake), and expenses more appropriately handled from the Operational Budget or as an insured loss.

How are Useful Life and Remaining Useful Life established?

- 1) Visual Inspection (observed wear and age)
- 2) Association Reserves database of experience
- 3) Client Component History
- 4) Vendor Evaluation and Recommendation

How are Cost Estimates Established?

Financial projections are based on the average of our Best Case and Worst Case estimates, which are established in this order...

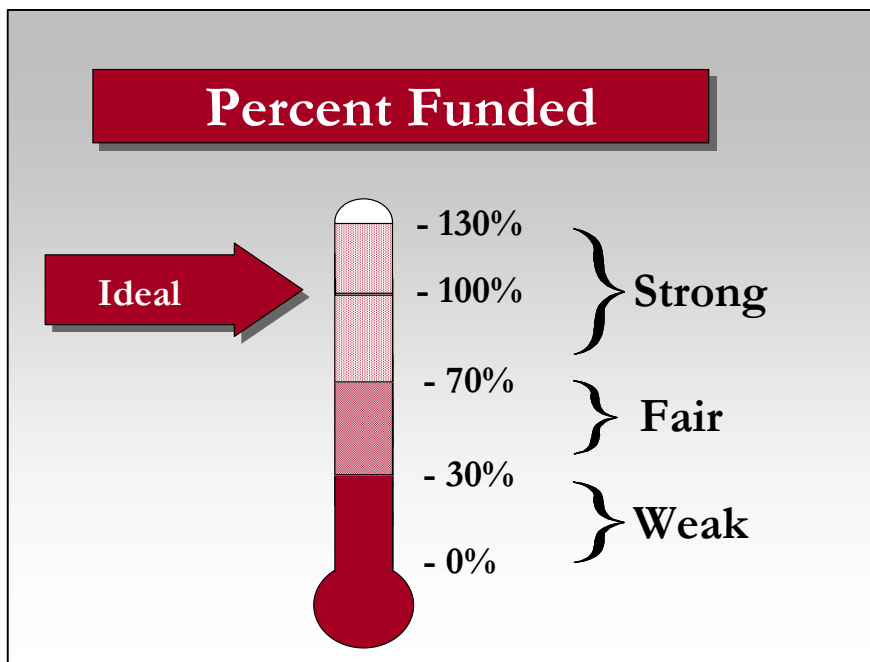
- 1) Client Cost History
- 2) Comparison to Association Reserves database of work done at similar CSDs
- 3) Vendor Recommendations
- 4) Reliable National Industry cost estimating guidebooks

How much Reserves are enough?

Your Reserve cash Balance can measure reserves, but the true measure is whether the funds are adequate. Adequacy is measured in a two-step process:

- 1) Calculate the Drainage Department's Fully Funded Balance (FFB).
- 2) Compare to the Drainage Department Reserve Fund Balance, and express as a percentage.

The FFB grows as assets age and the Reserve needs of the Drainage Department increase, but shrinks when projects are accomplished and the Reserve needs of the Drainage Department decrease. The Fully Funded Balance changes each year, and is a moving but predictable target.



Deferred maintenance and the need for a transfer of funds are common when the Percent Funded is below 30%. While the 100% point is Ideal, a Reserve Fund in the 70% -130% range is considered "strong" because in this range cash flow problems are rare.

Measuring your Reserves by Percent Funded tells how well prepared your Drainage Department is for upcoming Reserve expenses.

How much should we contribute?

There are four Funding Principles that we balance in developing your Reserve Funding Plan. Our first objective is to design a plan that provides you with sufficient cash to perform your Reserve projects on time. A stable contribution rate is desirable because it is a hallmark of a proactive plan.

Reserve contributions that are evenly distributed over the owners, over the years, enable each owner to pay their “fair share” of the CSD’s Reserve expenses (this means we recommend a transfer of funds only when all other options have been exhausted). And finally, we develop a plan that is fiscally responsible and “safe” for Board Members to recommend to their CSD.

Funding Principles

- Sufficient Cash
- Stable Contribution Rate
- Evenly Distributed
- Fiscally Responsible

What is our Recommended Funding Goal?

Maintaining the Reserve Fund at a level equal to the physical deterioration that has occurred is called “Full Funding” the Reserves (100% Funded). As each asset ages and becomes “used up”, the Reserve Fund grows proportionally. **This is simple, responsible, and our recommendation.** As stated previously, CSDs in the 100% range rarely experience deferred maintenance or the need for a transfer of funds.

Allowing the Reserves to fall close to zero, but not below zero, is called Baseline Funding. In these CSD, deterioration occurs without matching Reserve contributions. With a low Percent Funded, deferred maintenance and the needs for a transfer of funds are common.

Threshold Funding is the title of all other objectives randomly selected between Baseline Funding and Full Funding.

Funding Goals

- Full Funding
- Threshold Funding
- Baseline Funding

Site Inspection Notes

During our site visit on August 4, 2014, we started with a brief meeting with Paul Siebensohn (Director of Field Operations), and then started the site inspection beginning with the drainage culverts. We visually inspected the property, and were able to see most drainage department areas.



Projected Expenses

The figure below shows the array of the projected future expenses at your CSD. All expenses are based on the average of our Best Case and Worst Case projections, inflated appropriately for future years.

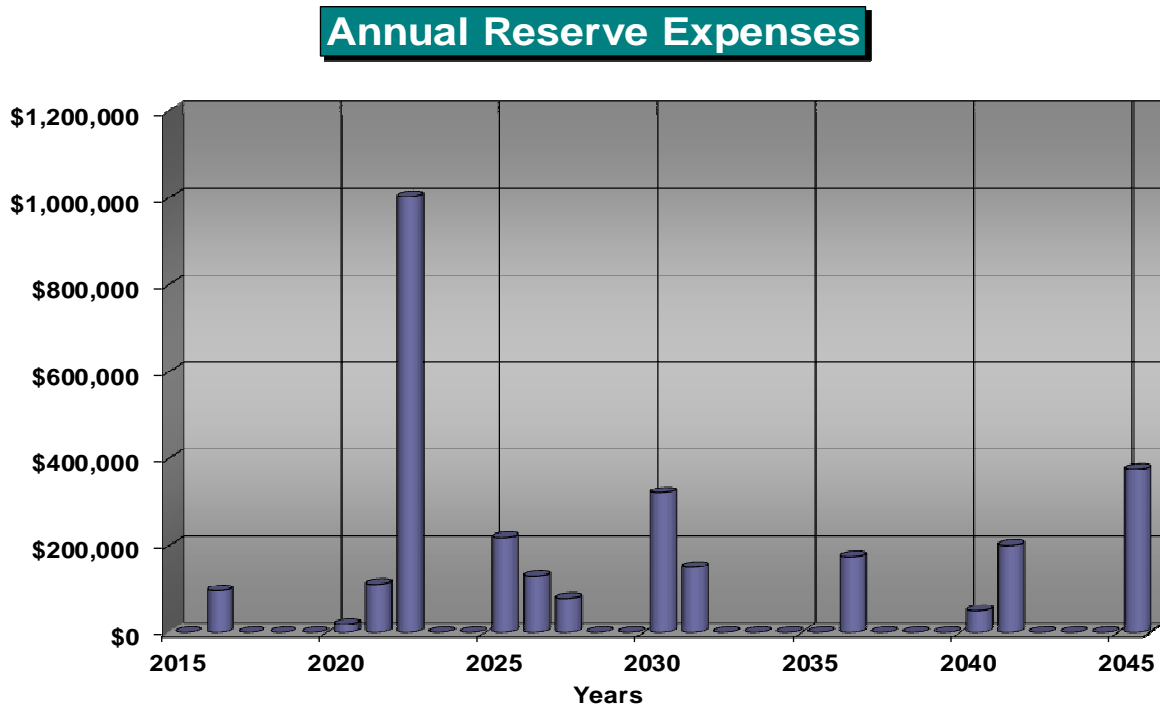


Figure 1

A summary of this information is shown in Table 4, while details of the projects that make up this information are shown in Table 5. Since this is a projection about future events that may or may not take place as anticipated, we feel more certain about “near-term” projects than those many years away. While this Reserve Study is a one-year document, it is based on 30 years’ worth of looking forward into the future.

Reserve Fund Status

The starting point for our financial analysis is your Reserve Fund balance, projected to be \$55,805 as-of the start of your Fiscal Year on July 1, 2015. This is based on your actual balance on 9/30/14 of \$55,805, no anticipated regular Reserve contributions, and no expenses projected through the end of your Fiscal Year. As of July 1, 2015, your Fully Funded Balance is computed to be \$1,038,458 (see Table 3). This figure represents the deteriorated value of your Drainage Department components. Comparing your Reserve Balance to your Fully Funded Balance indicates your Reserves are 5% Funded.

Recommended Funding Plan

Based on your current Percent Funded and your projected cash flow requirements, we are recommending Reserve contributions of \$10,000/month this 2015/2016 Fiscal Year. This represents the first year of the 30-year Funding Plan shown below. This same information is shown numerically in both Table 4 and Table 5.

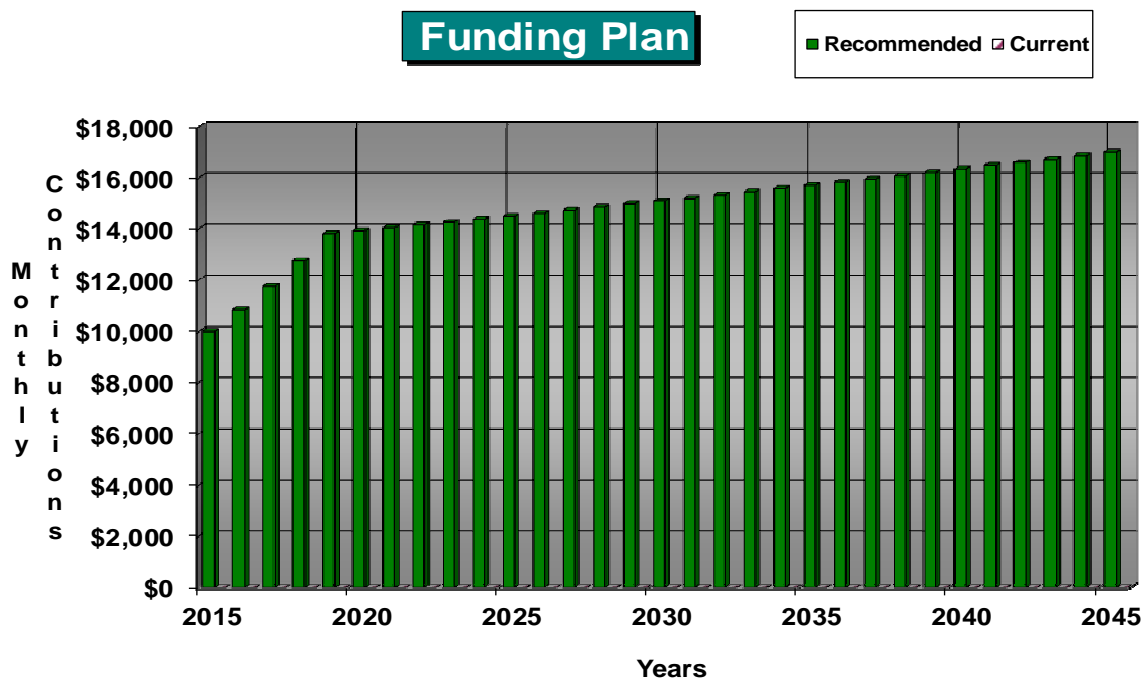


Figure 2

The following chart shows your Reserve balance under our recommended Funding Plan and your current Funding Plan, and your always-changing Fully Funded Balance target.

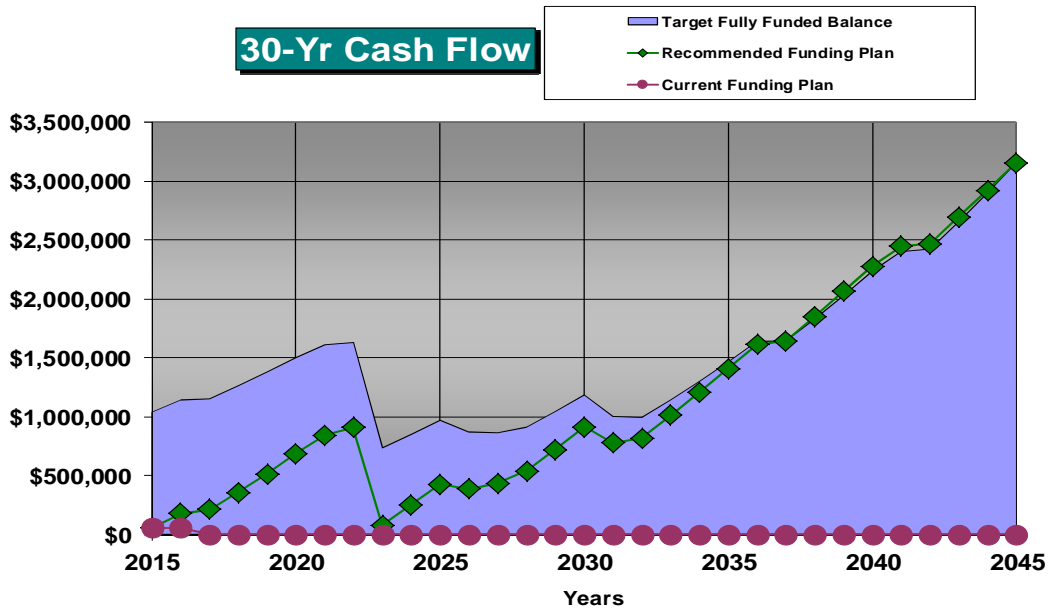


Figure 3

In this figure it is easy to see how your Reserve Fund gradually draws closer to the Fully Funded (100%) level.

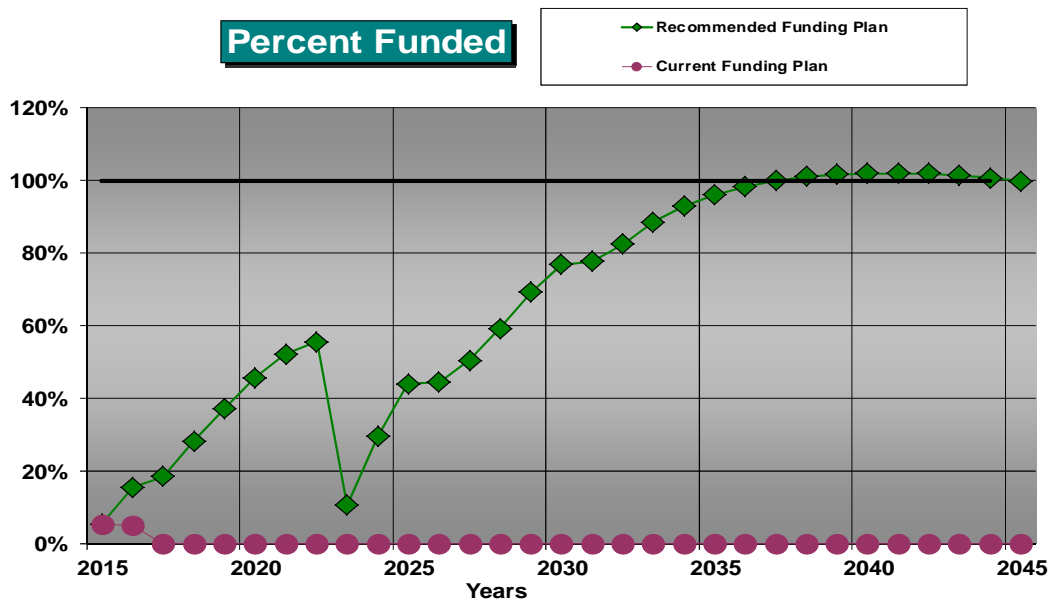


Figure 4

Table Descriptions

The tabular information in this Report is broken down into five tables.

Table 1 summarizes your funded Reserve Components, and is part of the Executive Report summary that appeared earlier in this Report.

Table 2 provides the main component description, life, and cost factors for all components determined to be appropriate for Reserve designation. This table represents the core information from which all other tables are derived.

Table 3 is presented primarily as an accounting summary. The results of the individual line item Fully Funded Balance computations are shown. These individual quantities are summed to arrive at the Fully Funded Balance for the Drainage Department as of the start date of the Report. The figures in the Current Fund Balance column and the Monthly Reserve Contribution column show our distribution throughout the line items. If the Drainage Department is underfunded, Reserve Funds are distributed first to components with a short Remaining Useful Life. If the Drainage Department's Reserve Balance is above 100% Funded, funds are distributed evenly for all components. Contribution rates for each component are a proportionate distribution of the total contribution on the basis of the component's significance to the Drainage Department (current cost divided by useful life). This presentation is not meant to cause clients to redistribute Drainage Department funds, it simply presents one way to evenly distribute the total among all the different line items.

Table 4: This table provides a one-page 30-year summary of the cash flowing into and out of the Drainage Department, compared to the Fully Funded Balance for each year.

Table 5: This table shows the cash flow detail for the next 30 years. This table makes it possible to see what components are projected to require repair or replacement each year, and the size of those individual expenses.

Table 2: Reserve Component List Detail**27003-0
DRAINAGE**

| # | Component | Quantity | Useful Life | Rem. Useful Life | Best Cost | Current Worst Cost |
|------|------------------------------------|--------------------------|----------------|------------------------|--------------|--------------------------|
| 312 | Storm water Outfall Struct. Repair | River Outfall Structure | 30 | 7 | \$741,500 | \$890,000 |
| 501 | Levees - Repair | Approx 12,900 LF, Levees | 100 | 62 | \$300,000 | \$500,000 |
| 1005 | Drain Valve - Replace | (1) 60" Drain Valve | 20 | 12 | \$50,000 | \$60,000 |
| 1005 | Equipment - Replace | Drainage Equipment | 10 | 5 | \$15,000 | \$18,000 |
| 1009 | Drainage Culverts - Repair/Replace | (31) Drainage Culverts | 5 | 1 | \$85,000 | \$102,000 |
| 1011 | Main Lift South - Repair/Replace | Storm water Pump Station | 20 | 10 | \$100,000 | \$150,000 |
| 1014 | FAA Storm Water - Repair/Replace | Storm water Pump Station | 20 | 10 | \$20,000 | \$40,000 |
| 1904 | Basin 5 - Repair | Approx 27,206 GSF, Basin | 25 | 15 | \$50,000 | \$330,000 |
| 2113 | CIA Ditch - Maintain | Approx 13 miles | 15 | 10 | \$5,000 | \$10,000 |
| 9 | Total Funded Components | | | | | |

Table 3: Contribution and Fund Breakdown**27003-0
DRAINAGE**

| # | Component | Useful Life | Rem. Useful Life | Current (Avg) Cost | Fully Funded Balance | Current Fund Balance | Reserve Contributions |
|------|------------------------------------|----------------|------------------------|-----------------------|----------------------------|----------------------------|--------------------------|
| 312 | Storm water Outfall Struct. Repair | 30 | 7 | \$815,750 | \$625,408 | \$0.00 | \$3,876.68 |
| 501 | Levees - Repair | 100 | 62 | \$400,000 | \$152,000 | \$0.00 | \$570.27 |
| 1005 | Drain Valve - Replace | 20 | 12 | \$55,000 | \$22,000 | \$0.00 | \$392.06 |
| 1005 | Equipment - Replace | 10 | 5 | \$16,500 | \$8,250 | \$0.00 | \$235.24 |
| 1009 | Drainage Culverts - Repair/Replace | 5 | 1 | \$93,500 | \$74,800 | \$55,805.00 | \$2,666.03 |
| 1011 | Main Lift South - Repair/Replace | 20 | 10 | \$125,000 | \$62,500 | \$0.00 | \$891.05 |
| 1014 | FAA Storm Water - Repair/Replace | 20 | 10 | \$30,000 | \$15,000 | \$0.00 | \$213.85 |
| 1904 | Basin 5 - Repair | 25 | 15 | \$190,000 | \$76,000 | \$0.00 | \$1,083.52 |
| 2113 | CIA Ditch - Maintain | 15 | 10 | \$7,500 | \$2,500 | \$0.00 | \$71.28 |
| 9 | Total Funded Components | | | | \$1,038,458 | \$55,805 | \$10,000 |

Table 4: 30-Year Reserve Plan Summary Recommended by Association Reserves

27003-0
DRAINAGE

Fiscal Year Beginning: 07/01/15

| | |
|-----------------|-----------------|
| Interest: 1.00% | Inflation: 3.0% |
|-----------------|-----------------|

| Year | Starting Reserve Balance | Fully Funded Balance | Percent Funded | Rating | % Increase In Annual Reserve Contribs. | Annual Reserve Contribs. | Loans or Transfer Amnts | Interest Income | Projected Reserve Expenses |
|------|--------------------------|----------------------|----------------|--------|--|--------------------------|-------------------------|-----------------|----------------------------|
| 2015 | \$55,805 | \$1,038,458 | 5.4% | Weak | | \$120,000 | \$0 | \$1,163 | \$0 |
| 2016 | \$176,968 | \$1,141,858 | 15.5% | Weak | 8.40% | \$130,080 | \$0 | \$1,947 | \$96,305 |
| 2017 | \$212,691 | \$1,151,333 | 18.5% | Weak | 8.40% | \$141,007 | \$0 | \$2,845 | \$0 |
| 2018 | \$356,543 | \$1,262,519 | 28.2% | Weak | 8.40% | \$152,851 | \$0 | \$4,350 | \$0 |
| 2019 | \$513,743 | \$1,379,339 | 37.2% | Fair | 8.40% | \$165,691 | \$0 | \$5,993 | \$0 |
| 2020 | \$685,427 | \$1,502,033 | 45.6% | Fair | 0.80% | \$167,016 | \$0 | \$7,629 | \$19,128 |
| 2021 | \$840,944 | \$1,611,145 | 52.2% | Fair | 0.80% | \$168,352 | \$0 | \$8,733 | \$111,644 |
| 2022 | \$906,386 | \$1,630,751 | 55.6% | Fair | 0.80% | \$169,699 | \$0 | \$4,919 | \$1,003,270 |
| 2023 | \$77,734 | \$735,159 | 10.6% | Weak | 0.80% | \$171,057 | \$0 | \$1,640 | \$0 |
| 2024 | \$250,431 | \$848,733 | 29.5% | Weak | 0.80% | \$172,425 | \$0 | \$3,382 | \$0 |
| 2025 | \$426,238 | \$968,460 | 44.0% | Fair | 0.80% | \$173,805 | \$0 | \$4,058 | \$218,386 |
| 2026 | \$385,715 | \$869,668 | 44.4% | Fair | 0.80% | \$175,195 | \$0 | \$4,105 | \$129,426 |
| 2027 | \$435,589 | \$862,455 | 50.5% | Fair | 0.80% | \$176,597 | \$0 | \$4,869 | \$78,417 |
| 2028 | \$538,638 | \$910,564 | 59.2% | Fair | 0.80% | \$178,009 | \$0 | \$6,305 | \$0 |
| 2029 | \$722,952 | \$1,043,977 | 69.2% | Fair | 0.80% | \$179,434 | \$0 | \$8,164 | \$0 |
| 2030 | \$910,550 | \$1,184,575 | 76.9% | Strong | 0.80% | \$180,869 | \$0 | \$8,440 | \$321,720 |
| 2031 | \$778,139 | \$1,001,297 | 77.7% | Strong | 0.80% | \$182,316 | \$0 | \$7,979 | \$150,040 |
| 2032 | \$818,394 | \$992,728 | 82.4% | Strong | 0.80% | \$183,775 | \$0 | \$9,145 | \$0 |
| 2033 | \$1,011,313 | \$1,141,921 | 88.6% | Strong | 0.80% | \$185,245 | \$0 | \$11,090 | \$0 |
| 2034 | \$1,207,648 | \$1,299,173 | 93.0% | Strong | 0.80% | \$186,727 | \$0 | \$13,070 | \$0 |
| 2035 | \$1,407,444 | \$1,464,831 | 96.1% | Strong | 0.80% | \$188,220 | \$0 | \$15,085 | \$0 |
| 2036 | \$1,610,749 | \$1,639,261 | 98.3% | Strong | 0.80% | \$189,726 | \$0 | \$16,261 | \$173,938 |
| 2037 | \$1,642,799 | \$1,643,681 | 99.9% | Strong | 0.80% | \$191,244 | \$0 | \$17,464 | \$0 |
| 2038 | \$1,851,507 | \$1,831,422 | 101.1% | Strong | 0.80% | \$192,774 | \$0 | \$19,568 | \$0 |
| 2039 | \$2,063,850 | \$2,028,949 | 101.7% | Strong | 0.80% | \$194,316 | \$0 | \$21,709 | \$0 |
| 2040 | \$2,279,875 | \$2,236,678 | 101.9% | Strong | 0.80% | \$195,871 | \$0 | \$23,635 | \$50,251 |
| 2041 | \$2,449,130 | \$2,403,287 | 101.9% | Strong | 0.80% | \$197,438 | \$0 | \$24,583 | \$201,641 |
| 2042 | \$2,469,509 | \$2,423,500 | 101.9% | Strong | 0.80% | \$199,017 | \$0 | \$25,808 | \$0 |
| 2043 | \$2,694,335 | \$2,656,684 | 101.4% | Strong | 0.80% | \$200,609 | \$0 | \$28,075 | \$0 |
| 2044 | \$2,923,019 | \$2,901,678 | 100.7% | Strong | 0.80% | \$202,214 | \$0 | \$30,380 | \$0 |

Table 5: 30-Year Income/Expense Detail (yrs 0 through 4)

**27003-0
DRAINAGE**

| Fiscal Year | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$55,805 | \$176,968 | \$212,691 | \$356,543 | \$513,743 |
| Annual Reserve Contribution | \$120,000 | \$130,080 | \$141,007 | \$152,851 | \$165,691 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$1,163 | \$1,947 | \$2,845 | \$4,350 | \$5,993 |
| Total Income | \$176,968 | \$308,996 | \$356,543 | \$513,743 | \$685,427 |
| # Component | | | | | |
| 312 Storm water Outfall Struct. Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 501 Levees - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Drain Valve - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Equipment - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1009 Drainage Culverts - Repair/Replace | \$0 | \$96,305 | \$0 | \$0 | \$0 |
| 1011 Main Lift South - Repair/Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1014 FAA Storm Water - Repair/Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1904 Basin 5 - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2113 CIA Ditch - Maintain | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$0 | \$96,305 | \$0 | \$0 | \$0 |
| Ending Reserve Balance: | \$176,968 | \$212,691 | \$356,543 | \$513,743 | \$685,427 |

Table 5: 30-Year Income/Expense Detail (yrs 5 through 9)**27003-0
DRAINAGE**

| Fiscal Year | 2020 | 2021 | 2022 | 2023 | 2024 |
|---|------------------|--------------------|--------------------|------------------|------------------|
| Starting Reserve Balance | \$685,427 | \$840,944 | \$906,386 | \$77,734 | \$250,431 |
| Annual Reserve Contribution | \$167,016 | \$168,352 | \$169,699 | \$171,057 | \$172,425 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$7,629 | \$8,733 | \$4,919 | \$1,640 | \$3,382 |
| Total Income | \$860,072 | \$1,018,030 | \$1,081,004 | \$250,431 | \$426,238 |
| # Component | | | | | |
| 312 Storm water Outfall Struct. Repair | \$0 | \$0 | \$1,003,270 | \$0 | \$0 |
| 501 Levees - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Drain Valve - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Equipment - Replace | \$19,128 | \$0 | \$0 | \$0 | \$0 |
| 1009 Drainage Culverts - Repair/Replace | \$0 | \$111,644 | \$0 | \$0 | \$0 |
| 1011 Main Lift South - Repair/Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1014 FAA Storm Water - Repair/Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1904 Basin 5 - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2113 CIA Ditch - Maintain | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$19,128 | \$111,644 | \$1,003,270 | \$0 | \$0 |
| Ending Reserve Balance: | \$840,944 | \$906,386 | \$77,734 | \$250,431 | \$426,238 |

Table 5: 30-Year Income/Expense Detail (yrs 10 through 14)**27003-0
DRAINAGE**

| Fiscal Year | 2025 | 2026 | 2027 | 2028 | 2029 |
|---|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$426,238 | \$385,715 | \$435,589 | \$538,638 | \$722,952 |
| Annual Reserve Contribution | \$173,805 | \$175,195 | \$176,597 | \$178,009 | \$179,434 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$4,058 | \$4,105 | \$4,869 | \$6,305 | \$8,164 |
| Total Income | \$604,101 | \$565,015 | \$617,054 | \$722,952 | \$910,550 |
| # Component | | | | | |
| 312 Storm water Outfall Struct. Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 501 Levees - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Drain Valve - Replace | \$0 | \$0 | \$78,417 | \$0 | \$0 |
| 1005 Equipment - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1009 Drainage Culverts - Repair/Replace | \$0 | \$129,426 | \$0 | \$0 | \$0 |
| 1011 Main Lift South - Repair/Replace | \$167,990 | \$0 | \$0 | \$0 | \$0 |
| 1014 FAA Storm Water - Repair/Replace | \$40,317 | \$0 | \$0 | \$0 | \$0 |
| 1904 Basin 5 - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2113 CIA Ditch - Maintain | \$10,079 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$218,386 | \$129,426 | \$78,417 | \$0 | \$0 |
| Ending Reserve Balance: | \$385,715 | \$435,589 | \$538,638 | \$722,952 | \$910,550 |

Table 5: 30-Year Income/Expense Detail (yrs 15 through 19)

**27003-0
DRAINAGE**

| Fiscal Year | 2030 | 2031 | 2032 | 2033 | 2034 |
|---|--------------------|------------------|--------------------|--------------------|--------------------|
| Starting Reserve Balance | \$910,550 | \$778,139 | \$818,394 | \$1,011,313 | \$1,207,648 |
| Annual Reserve Contribution | \$180,869 | \$182,316 | \$183,775 | \$185,245 | \$186,727 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$8,440 | \$7,979 | \$9,145 | \$11,090 | \$13,070 |
| Total Income | \$1,099,859 | \$968,434 | \$1,011,313 | \$1,207,648 | \$1,407,444 |
| # Component | | | | | |
| 312 Storm water Outfall Struct. Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 501 Levees - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Drain Valve - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Equipment - Replace | \$25,706 | \$0 | \$0 | \$0 | \$0 |
| 1009 Drainage Culverts - Repair/Replace | \$0 | \$150,040 | \$0 | \$0 | \$0 |
| 1011 Main Lift South - Repair/Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1014 FAA Storm Water - Repair/Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1904 Basin 5 - Repair | \$296,014 | \$0 | \$0 | \$0 | \$0 |
| 2113 CIA Ditch - Maintain | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$321,720 | \$150,040 | \$0 | \$0 | \$0 |
| Ending Reserve Balance: | \$778,139 | \$818,394 | \$1,011,313 | \$1,207,648 | \$1,407,444 |

Table 5: 30-Year Income/Expense Detail (yrs 20 through 24)

**27003-0
DRAINAGE**

| Fiscal Year | 2035 | 2036 | 2037 | 2038 | 2039 |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|
| Starting Reserve Balance | \$1,407,444 | \$1,610,749 | \$1,642,799 | \$1,851,507 | \$2,063,850 |
| Annual Reserve Contribution | \$188,220 | \$189,726 | \$191,244 | \$192,774 | \$194,316 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$15,085 | \$16,261 | \$17,464 | \$19,568 | \$21,709 |
| Total Income | \$1,610,749 | \$1,816,737 | \$1,851,507 | \$2,063,850 | \$2,279,875 |
| # Component | | | | | |
| 312 Storm water Outfall Struct. Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 501 Levees - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Drain Valve - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Equipment - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1009 Drainage Culverts - Repair/Replace | \$0 | \$173,938 | \$0 | \$0 | \$0 |
| 1011 Main Lift South - Repair/Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1014 FAA Storm Water - Repair/Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1904 Basin 5 - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2113 CIA Ditch - Maintain | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$0 | \$173,938 | \$0 | \$0 | \$0 |
| Ending Reserve Balance: | \$1,610,749 | \$1,642,799 | \$1,851,507 | \$2,063,850 | \$2,279,875 |

Table 5: 30-Year Income/Expense Detail (yrs 25 through 29)

**27003-0
DRAINAGE**

| Fiscal Year | 2040 | 2041 | 2042 | 2043 | 2044 |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|
| Starting Reserve Balance | \$2,279,875 | \$2,449,130 | \$2,469,509 | \$2,694,335 | \$2,923,019 |
| Annual Reserve Contribution | \$195,871 | \$197,438 | \$199,017 | \$200,609 | \$202,214 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$23,635 | \$24,583 | \$25,808 | \$28,075 | \$30,380 |
| Total Income | \$2,499,381 | \$2,671,151 | \$2,694,335 | \$2,923,019 | \$3,155,614 |
| # Component | | | | | |
| 312 Storm water Outfall Struct. Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 501 Levees - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Drain Valve - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Equipment - Replace | \$34,547 | \$0 | \$0 | \$0 | \$0 |
| 1009 Drainage Culverts - Repair/Replace | \$0 | \$201,641 | \$0 | \$0 | \$0 |
| 1011 Main Lift South - Repair/Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1014 FAA Storm Water - Repair/Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1904 Basin 5 - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2113 CIA Ditch - Maintain | \$15,703 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$50,251 | \$201,641 | \$0 | \$0 | \$0 |
| Ending Reserve Balance: | \$2,449,130 | \$2,469,509 | \$2,694,335 | \$2,923,019 | \$3,155,614 |

Accuracy, Limitations, and Disclosures

Because we have no control over future events, we cannot claim that all the events we anticipate will occur as planned. We expect that inflationary trends will continue and we expect that financial institutions will provide interest earnings on funds on-deposit. We believe that reasonable estimates for these figures are much more accurate than ignoring these economic realities. The things we can control are measurements, which we attempt to establish within 5% accuracy. Your starting Reserve Balance and current Reserve interest earnings are also numbers that can be identified with a high degree of certainty. These figures have been provided to us, and were not confirmed by our independent research. Our projections assume a stable economic environment and lack of natural disasters.

Because both the physical status and financial status of the Drainage Department change each year, this Reserve Study is by nature a “one-year” document. This information can and should be adjusted annually as part of the Reserve Study Update process so that more accurate estimates can be reflected in the Drainage Department Reserve plan. Reality often differs from even the best assumptions due to changing economic factors, and physical factors. Because many years of financial preparation help prepare for large expenses, this Report shows expenses for the next 30 years. We fully expect a number of adjustments will be necessary through the interim years to both the cost and timing of distant expense projections. It is our recommendation and that of the American Institute of Certified Public Accountants (AICPA) that your Reserve Study be updated annually.

Association Reserves – SF, LLC, and its employees have no ownership, management, or other business relationships with the client other than this Reserve Study engagement. Derek Eckert, R.S., company president, is a credentialed Reserve Specialist (#114). All work done by Association Reserves is performed under his Responsible Charge. There are no material issues to our knowledge that have not been disclosed to the client that would cause a distortion of the CSD’s situation.

We have relied upon the client to provide the current (or projected) Drainage Department Reserve Balance, the estimated net-after-tax current rate of interest earnings, and to indicate if those earnings accrue to the Drainage Department Reserve Fund. In addition, we have considered the CSD’s representation of current and historical Drainage Department Reserve projects reliable, and we have considered the representations made by its vendors and suppliers to also be accurate and reliable.

Component quantities indicated in this Report were derived from the prior Reserve Study, unless otherwise noted in our “Site Inspection Notes”. No destructive or intrusive testing was performed, nor should the site inspection be assumed to be anything other than for budgeting purposes.

Association Reserves’ liability in any matter involving this Reserve Study is limited to our Fee for services rendered.

Where any uncertainties exist, we urge the CSD to obtain a legal review and written opinion of the legitimacy of the funding policies, as stipulated or permitted under your Declaration and local statutes. As these are legal questions, we highly recommend use of an experienced attorney specializing in CSD law.

Re-use of reserve study, figures or calculations in any other format absolves ARSF of all responsibility.

Terms and Definitions

| | |
|------------|--|
| BTU | British Thermal Unit (a standard unit of energy) |
| DIA | Diameter |
| GSF | Gross Square Feet (area) |
| GSY | Gross Square Yards (area) |
| HP | Horsepower |
| LF | Linear Feet (length) |

Effective Age: The difference between Useful Life and Remaining Useful Life. Note that this is not necessarily equivalent to the chronological age of the component.

Fully Funded Balance (FFB): The Reserve Balance that is in direct proportion to the fraction of life “used up” of the current Repair or Replacement cost. This benchmark balance represents the value of the deterioration of the Reserve Components. This number is calculated for each component, then summed together for an CSD total.

$$\text{FFB} = (\text{Current Cost} \times \text{Effective Age}) / \text{Useful Life}$$

Inflation: Cost factors are adjusted for inflation at the rate defined in the Executive Summary and compounded annually. These increasing costs can be seen as you follow the recurring cycles of a component on Table 5.

Interest: Interest earnings on Reserve Funds are calculated using the average balance for the year (taking into account income and expenses through the year) and compounded monthly using the rate defined in the Executive Summary. Annual interest earning assumption appears in the Executive Summary, page ii.

Percent Funded: The ratio, at a particular point in time (typically the beginning of the Fiscal Year), of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage.

Remaining Useful Life: The estimated time, in years, that a Drainage Department component can be expected to continue to serve its intended function.

Useful Life: The estimated time, in years, that a Drainage Department component can be expected to serve its intended function.

Photographic Inventory Appendix

Client: 27003C RMCS D - Drainage

Comp # : 312 Storm water Outfall Struct. Repair

Quantity: River Outfall Structure

Location : Adjacent to Main Lift South

Funded? : Yes

History : Minor repairs in 2014

Evaluation : Storm water Outfall Structure is located near Main Lift South on the golf course. Storm water pumps out to here from the Drainage Pumping Station at Main Lift South, then from here into the drainage ditch. No leaking, cracking or rusting noted. This component provides funding to repair the pumping station at roughly the interval below. Update timing and cost as future needs dictate.

Useful Life:
30 years

Remaining Life:
7 years



Best Case: \$741,500

Worst Case: \$890,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Comp # : 501 Levees - Repair

Quantity: Approx 12,900 LF, Levees

Location : Commercial Area, Michigan Bar, and WWT Facility Levees

Funded? : Yes

History : Accredited in 2011

Evaluation : Commercial Area Levee: Approx 6,527LF; Michigan Bar Levee: Approx 2,840LF; WWT Facility Levees: Approx 3,533LF. We don't anticipate the need for complete replacement. This component provides funding for repairs as needed.

Useful Life:
100 years

Remaining Life:
62 years



Best Case: \$300,000

Worst Case: \$500,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Client: 27003C RMCS D - Drainage

Comp # : 1005 Drain Valve - Replace

Quantity: (1) 60" Drain Valve

Location : Murieta Parkway by airport

Funded? : Yes

History :

Evaluation : No issues with valve reported. In protected location and regularly serviced/maintained.

Useful Life:
20 years

Remaining Life:
12 years



Best Case: \$50,000

Worst Case: \$60,000

Lower allowance for replacement

Higher allowance for replacement

Cost Source: ARSF Cost Database

Comp # : 1005 Equipment - Replace

Quantity: Drainage Equipment

Location : Drainage

Funded? : Yes

History :

Evaluation : The CSD has various equipment associated with drainage. This component provides funding to replace equipment as needed at roughly the interval below. Update timing and allowance as future needs dictate.

Useful Life:
10 years

Remaining Life:
5 years



Best Case: \$15,000

Worst Case: \$18,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003C RMCS D - Drainage

Comp # : 1009 Drainage Culverts - Repair/Replace

Quantity: (31) Drainage Culverts

Location : Throughout District

Funded? : Yes

History :

Evaluation : The CSD has performed repairs on an as-needed basis in previous years. This component provides funding to repair drainage culverts as needed at roughly the interval below. Update timing and allowance and future projects dictate.

Useful Life:
5 years

Remaining Life:
1 years



Best Case: \$85,000

Worst Case: \$102,000

Lower allowance to repair/replace

Higher allowance to repair/replace

Cost Source: ARSF Cost Database

Comp # : 1011 Main Lift South - Repair/Replace

Quantity: Storm water Pump Station

Location : On Golf Course, South side of River Near Reynosa Dr

Funded? : Yes

History :

Evaluation : (5) 150HP Storm water pumps. No expectation to replace completely. This component provides funding to repair the storm water component and replace the pumps at the Main Lift Station as needed at roughly the interval listed below.

Useful Life:
20 years

Remaining Life:
10 years



Best Case: \$100,000

Worst Case: \$150,000

Lower allowance to repair/replace

Higher allowance to repair/replace

Cost Source: ARSF Cost Database

Client: 27003C RMCS D - Drainage

Comp # : 1014 FAA Storm Water - Repair/Replace

Quantity: Storm water Pump Station

Location : Cantova Way Near Baseball Diamond

Funded? : Yes

History :

Evaluation : The FAA Lift Station is a dual-function facility. It pumps storm water runoff from the Cantova Way Business Park area over the levee into the local farm diversion ditch. Equipment includes; (3) 30HP storm water pumps; a 3/4 horsepower submersible sump pump; and (3) flap valves. This component provides funding to repair/replace the storm water components at roughly the interval listed below.

Useful Life:
20 years

Remaining Life:
10 years



Best Case: \$20,000

Worst Case: \$40,000

Lower allowance to repair/replace

Higher allowance to repair/replace

Cost Source: ARSF Cost Database

Comp # : 1904 Basin 5 - Repair

Quantity: Approx 27,206 GSF, Basin

Location : Reynosa Drive at Respeto Court

Funded? : Yes

History :

Evaluation : Storm drain run-off flows here. Overflow and piping to Main Lift South. HOA maintains the fountains. This component provides funding for larger repairs that extend beyond the maintenance scope of the HOA.

Useful Life:
25 years

Remaining Life:
15 years



Best Case: \$50,000

Worst Case: \$330,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003C RMCS D - Drainage

Comp # : 2113 CIA Ditch - Maintain

Quantity: Approx 13 miles

Location : Granlees Lift Station

Funded? : Yes

History : Extensively cleaned in 2011

Evaluation : RMCS D diverts water from the Cosumnes River into the CIA Ditch (Cosumnes Irrigation Association). The CIA Ditch is 2/3 owned by the Anderson Ranch, 1/3 by RMCS D. RMCS D performs the maintenance and bills the CIA for their share.

Useful Life:

15 years

Remaining Life:

10 years



Best Case: \$5,000

Worst Case: \$10,000

Lower allowance to maintain

Higher allowance to maintain

Cost Source: ARSF Cost Database

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Reserve Studies for Community Associations

“Full” Reserve Study



RMCS D – Sewer Department Rancho Murieta, CA

Report #: 27003-0 SEWER
For Period Beginning: July 1, 2015
Expires: June 30, 2016

Date Prepared: January 28, 2015



Hello, and welcome to your Reserve Study!

This Report is a valuable budget planning tool, for with it you control the future of your CSD. It contains all the fundamental information needed to understand your current and future Reserve obligations, the most significant expenditures your CSD's Sewer Department will face.

With respect to Reserves, this Report will tell you "where you are", and "where to go from here".

In this Report, you will find...

- 1) A List of What you're Reserving For**
- 2) An Evaluation of your Reserve Fund Size and Strength**
- 3) A Recommended Multi-Year Reserve Funding Plan**

More Questions?

Visit our website at www.ReserveStudy.com or call us at:

877/618-1955



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3- Minute Executive Summary

Name: RMCS D – Sewer Department **Assoc. #: 27003-0**
SEWER
Location: Rancho Murieta, CA
of Units: 1
Report Period: July 1, 2015 through June 30, 2016

Results as-of 7/1/2015:

| | |
|--|--------------------|
| Projected Starting Reserve Balance: | \$2,630,712 |
| Fully Funded Reserve Balance: | \$8,138,970 |
| Average Reserve Deficit (Surplus) Per Unit: | \$5,508,258 |
| Percent Funded: | 32.3% |
| Recommended 2015/16 monthly Reserve Contribution: | \$47,450 |
| Most Recent Reserve Contribution Rate: | \$15,000 |

Economic Assumptions:

Net Annual “After Tax” Interest Earnings Accruing to Reserves..... 1.00%
Annual Inflation Rate..... 3.00%

- This is a “Full” Reserve Study (original, created “from scratch”).
- The information in this Reserve Study is based on our site inspection on August 4, 2014.
- This Reserve Study was prepared under the supervision of a credentialed Reserve Specialist (RS).
- Because your Reserve Fund is at 32.3% Funded, this means the CSD’s Sewer Department deferred maintenance risk & need for a transfer of funds is currently high.
- Your multi-year Funding Plan is designed to gradually bring you to the 100% level, or “Fully Funded”.
- Based on this starting point, your anticipated future expenses, and your historical Reserve contribution rate, our recommendation is to increase your Reserve contributions.
- No assets appropriate for Reserve designation were excluded.

Table 1: Executive Summary

27003-0
SEWER

| # | Component | Useful Life (yrs) | Rem. Useful Life (yrs) | Current Average Cost | Future Average Cost |
|---------------------------------------|-------------------------------------|-------------------|------------------------|----------------------|---------------------|
| Sewer | | | | | |
| 336 | Mechanical Equipment - Replace | 8 | 5 | \$35,000 | \$40,575 |
| 1031 | Groundwater Well - Repair | 40 | 20 | \$46,650 | \$84,255 |
| 1860 | 1994 Ford Dump Truck - Replace | 25 | 4 | \$44,000 | \$49,522 |
| 1861 | 2001 Ford F250 - Replace | 15 | 1 | \$35,000 | \$36,050 |
| 1863 | 2003 Ford F150 - Replace | 18 | 5 | \$27,000 | \$31,300 |
| 1864 | 2008 Ford F350 - Replace 50% | 15 | 8 | \$22,500 | \$28,502 |
| 1865 | 2010 Ford Ranger - Replace 50% | 15 | 10 | \$13,750 | \$18,479 |
| 1902 | Pipeline (Airport) - Replace 25% | 30 | 0 | \$47,950 | \$116,387 |
| 1902 | Pipeline (Alameda) - Replace 25% | 30 | 0 | \$51,350 | \$124,640 |
| 1902 | Pipeline (MH Park) - Replace | 45 | 0 | \$770,600 | \$2,914,098 |
| 1902 | Pipelines (N. Unit 1) - Replace 25% | 30 | 0 | \$263,000 | \$638,370 |
| 1902 | Pipelines (N. Units 2-4) - Repl 25% | 30 | 0 | \$945,300 | \$2,294,491 |
| 1902 | Pipelines (RM South) - Replace 25% | 30 | 6 | \$349,350 | \$417,142 |
| 1902 | Pipelines (South 7&8) - Replace 25% | 30 | 15 | \$89,050 | \$138,737 |
| 1902 | Pipelines (South Newest) - Repl 25% | 30 | 18 | \$150,700 | \$256,557 |
| 1902 | Pipelines (Unit 6) - Repl 25% | 30 | 2 | \$137,675 | \$146,059 |
| 1907 | Sewer Jetting Unit - Replace | 20 | 10 | \$48,000 | \$64,508 |
| Waste Water Treatment Facility | | | | | |
| 203 | Asphalt - Seal/Repair | 10 | 5 | \$132,500 | \$153,604 |
| 302 | Generators - Replace | 50 | 25 | \$635,000 | \$1,329,549 |
| 312 | Pumping Stations - Repair | 8 | 4 | \$350,000 | \$393,928 |
| 313 | Tertiary Effluent - Replace | 15 | 5 | \$25,000 | \$28,982 |
| 336 | Air Compressors - Replace | 10 | 5 | \$35,900 | \$41,618 |
| 337 | Solar Pond Circulator - Replace | 10 | 2 | \$56,000 | \$59,410 |
| 521 | Fencing - Replace/Repair | 25 | 10 | \$98,000 | \$131,704 |
| 941 | Storage Buildings - Refurbish | 30 | 10 | \$265,000 | \$356,138 |
| 1005 | Filtration Valves - Replace | 30 | 20 | \$82,350 | \$148,733 |
| 1011 | WW Treatment Facility - Rehab | 40 | 15 | \$3,400,000 | \$5,297,089 |
| 1015 | Chemical Storage Room - Repair | 30 | 10 | \$17,600 | \$23,653 |
| 1015 | Chlorine Contact Tank - Repair | 40 | 15 | \$25,000 | \$38,949 |
| 1015 | Hydro Tank - Replace | 30 | 26 | \$17,500 | \$37,740 |
| 1030 | Equip & Devices - Partial Replace | 10 | 5 | \$98,500 | \$114,188 |
| 1105 | Exterior Surfaces - Repaint | 15 | 11 | \$29,700 | \$41,112 |
| 1113 | Tertiary Stations - Repair/Repaint | 15 | 11 | \$350,000 | \$484,482 |
| 1206 | Filters - Replace 33% | 6 | 4 | \$450,000 | \$506,479 |
| 1703 | WWT Holding Ponds - Repair | 30 | 10 | \$55,000 | \$73,915 |
| 1712 | Floating Aerators - Replace | 10 | 5 | \$132,000 | \$153,024 |
| 1810 | Automated Gate - Replace | 5 | 3 | \$9,500 | \$10,381 |
| 1864 | Fuel Tank - Replace | 30 | 25 | \$42,500 | \$88,986 |
| 1904 | EQ Basin - Repair | 30 | 15 | \$170,000 | \$264,854 |
| 1912 | Chem. Storage Tanks - Reline/Repair | 30 | 15 | \$160,000 | \$249,275 |
| 2710 | Aerator Brush Device - Repl 50% | 20 | 4 | \$67,500 | \$75,972 |
| 2711 | Aerator Pumps - Repl 50% | 6 | 2 | \$13,500 | \$14,322 |
| 2712 | Aerator Control Systems - Repl 50% | 10 | 5 | \$9,900 | \$11,477 |
| Lift Stations | | | | | |

| # | Component | Useful Life (yrs) | Rem. Useful Life (yrs) | Current Average Cost | Future Average Cost |
|----|-------------------------------------|-------------------------|------------------------------|----------------------------|---------------------------|
| 1 | Main Lift N - Major Reconstruction | 30 | 29 | \$1,000,000 | \$2,356,566 |
| 2 | Main Lift N - Minor Reconstruction | 15 | 14 | \$200,000 | \$302,518 |
| 3 | Cantova - Major Reconstruction | 30 | 2 | \$142,500 | \$151,178 |
| 4 | Cantova - Minor Reconstruction | 15 | 2 | \$57,500 | \$61,002 |
| 5 | FAA - Major Reconstruction | 30 | 4 | \$55,000 | \$61,903 |
| 6 | FAA - Minor Reconstruction | 15 | 4 | \$30,000 | \$33,765 |
| 7 | 6B - Major Reconstruction | 30 | 8 | \$154,500 | \$195,716 |
| 8 | 6B - Minor Reconstruction | 15 | 8 | \$45,000 | \$57,005 |
| 9 | 6A - Major Reconstruction | 30 | 8 | \$132,500 | \$167,847 |
| 10 | 6A - Minor Reconstruction | 15 | 8 | \$45,000 | \$57,005 |
| 11 | 3B - Major Reconstruction | 30 | 11 | \$132,500 | \$183,411 |
| 12 | 3B - Minor Reconstruction | 15 | 11 | \$45,000 | \$62,291 |
| 13 | Alameda - Major Reconstruction | 30 | 5 | \$60,000 | \$69,556 |
| 14 | Alameda - Minor Reconstruction | 15 | 5 | \$15,000 | \$17,389 |
| 15 | Starter Shack- Major Reconstruction | 30 | 3 | \$60,000 | \$65,564 |
| 16 | Starter Shack- Minor Reconstruction | 15 | 3 | \$15,000 | \$16,391 |
| 17 | Main Lift S - Major Reconstruction | 30 | 4 | \$600,000 | \$675,305 |
| 18 | Main Lift S - Minor Reconstruction | 15 | 4 | \$170,000 | \$191,336 |
| 19 | Crest - Major Reconstruction | 30 | 17 | \$300,000 | \$495,854 |
| 20 | Crest - Minor Reconstruction | 15 | 2 | \$45,000 | \$47,741 |
| 21 | Greens - Major Reconstruction | 30 | 16 | \$100,000 | \$160,471 |
| 22 | Greens - Minor Reconstruction | 15 | 1 | \$35,000 | \$36,050 |
| 23 | Minor Lift Stations - Repair | 15 | 5 | \$21,000 | \$24,345 |
| 66 | Total Funded Components | | | | |

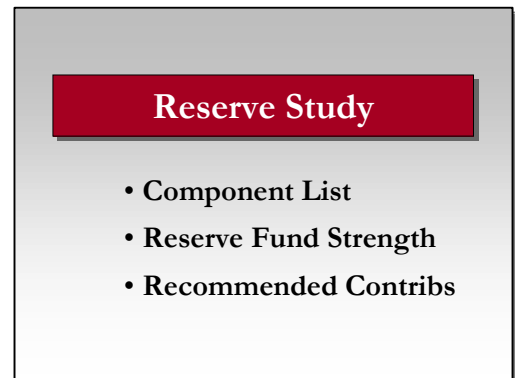
Note 1: Yellow highlighted line items are expected to require attention in initial year.

Note 2: a Useful Life of "N/A" means a one-time expense, not expected to repeat.

Introduction

A Reserve Study is the art and science of anticipating, and preparing for, a CSD's major repair and replacement expenses. Partially art, because in this field we are making projections about the future. Partially science, because our work is a process of research and analysis along well defined methodologies.

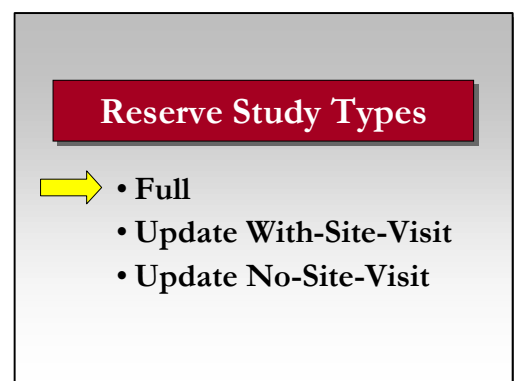
In this Report you will find the Reserve Component List (what you are reserving for). It contains our estimates for Useful Life, Remaining Useful Life, and the current repair or replacement cost for each major component the Sewer Department is obligated to maintain. Based on that List and your starting balance we computed the Sewer Department's Reserve Fund Strength (measured as "Percent Funded"), and created a recommended multi-year Reserve Funding Plan to offset future Reserve expenses.



As the physical assets age and deteriorate, it is important to accumulate financial assets to keep the two "in balance". A stable Reserve Funding Plan that offsets the irregular Reserve expenses will ensure that each owner pays their own "fair share" of ongoing deterioration.

Methodology

First we establish what the projected expenses are, then we determine the Sewer Department's financial status and create a Funding Plan. For this "Full" Reserve Study, we started with a review of your Governing Documents, recent Reserve expenditures, an evaluation of how expenditures are handled (ongoing maintenance vs Reserves), and research into any well-established CSD precedents. We performed an on-site inspection to quantify and evaluate your common areas, creating your Reserve Component List "from scratch".



Which Physical Assets are Covered by Reserves?

There is a national-standard four-part test to determine which expenses should be funded through Reserves. First, it must be a Sewer Department maintenance responsibility. Second, the component must have a limited life. Third, the limited life must be predictable (or it by definition is a “surprise” which cannot be accurately anticipated). Fourth, the component must be above a minimum threshold cost. This limits Reserve Components to major, predictable expenses. Within this framework, it is inappropriate to include “lifetime” components, unpredictable expenses (such as damage due to fire, flood, or earthquake), and expenses more appropriately handled from the Operational Budget or as an insured loss.

How are Useful Life and Remaining Useful Life established?

- 1) Visual Inspection (observed wear and age)
- 2) Association Reserves database of experience
- 3) Client Component History
- 4) Vendor Evaluation and Recommendation

How are Cost Estimates Established?

Financial projections are based on the average of our Best Case and Worst Case estimates, which are established in this order...

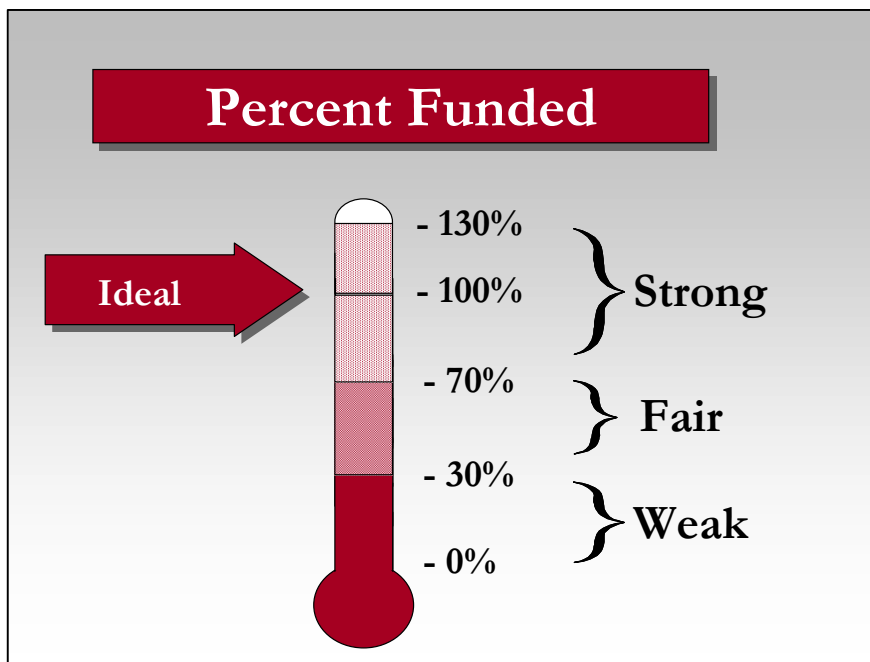
- 1) Client Cost History
- 2) Comparison to Association Reserves database of work done at similar CSDs
- 3) Vendor Recommendations
- 4) Reliable National Industry cost estimating guidebooks

How much Reserves are enough?

Your Reserve cash Balance can measure reserves, but the true measure is whether the funds are adequate. Adequacy is measured in a two-step process:

- 1) Calculate the Sewer Department's Fully Funded Balance (FFB).
- 2) Compare to the Sewer Department Reserve Fund Balance, and express as a percentage.

The FFB grows as assets age and the Reserve needs of the Sewer Department increase, but shrinks when projects are accomplished and the Reserve needs of the Sewer Department decrease. The Fully Funded Balance changes each year, and is a moving but predictable target.



Deferred maintenance & the need for a transfer of funds are common when the Percent Funded is below 30%. While the 100% point is Ideal, a Reserve Fund in the 70% -130% range is considered "strong" because in this range cash flow problems are rare.

Measuring your Reserves by Percent Funded tells how well prepared your Sewer Department is for upcoming Reserve expenses.

How much should we contribute?

There are four Funding Principles that we balance in developing your Reserve Funding Plan. Our first objective is to design a plan that provides you with sufficient cash to perform your Reserve projects on time. A stable contribution rate is desirable because it is a hallmark of a proactive plan.

Reserve contributions that are evenly distributed over the owners, over the years, enable each owner to pay their “fair share” of the Sewer Department’s Reserve expenses (this means we recommend a transfer of funds only when all other options have been exhausted). And finally, we develop a plan that is fiscally responsible and “safe” for Board Members to recommend to their CSD.

Funding Principles

- Sufficient Cash
- Stable Contribution Rate
- Evenly Distributed
- Fiscally Responsible

What is our Recommended Funding Goal?

Maintaining the Reserve Fund at a level equal to the physical deterioration that has occurred is called “Full Funding” the Reserves (100% Funded). As each asset ages and becomes “used up”, the Reserve Fund grows proportionally. **This is simple, responsible, and our recommendation.** As stated previously, CSDs in the 100% range rarely experience the need for a transfer of funds or deferred maintenance.

Allowing the Reserves to fall close to zero, but not below zero, is called Baseline Funding. In these CSDs, deterioration occurs without matching Reserve contributions. With a low Percent Funded, the need for a transfer of funds and deferred maintenance are common.

Threshold Funding is the title of all other objectives randomly selected between Baseline Funding and Full Funding.

Funding Goals

- Full Funding
- Threshold Funding
- Baseline Funding

Site Inspection Notes

During our site visit on August 4, 2014, we started with a brief meeting with Paul Siebensohn (Director of Field Operations), and then started the site inspection beginning with the waste water treatment facility. We visually inspected the entire plant, and were able to see most Lift Stations. We were not able to inspect the underground/underwater equipment.



Projected Expenses

The figure below shows the array of the projected future expenses at your CSD’s Sewer Department. All expenses are based on the average of our Best Case and Worst Case projections, inflated appropriately for future years.

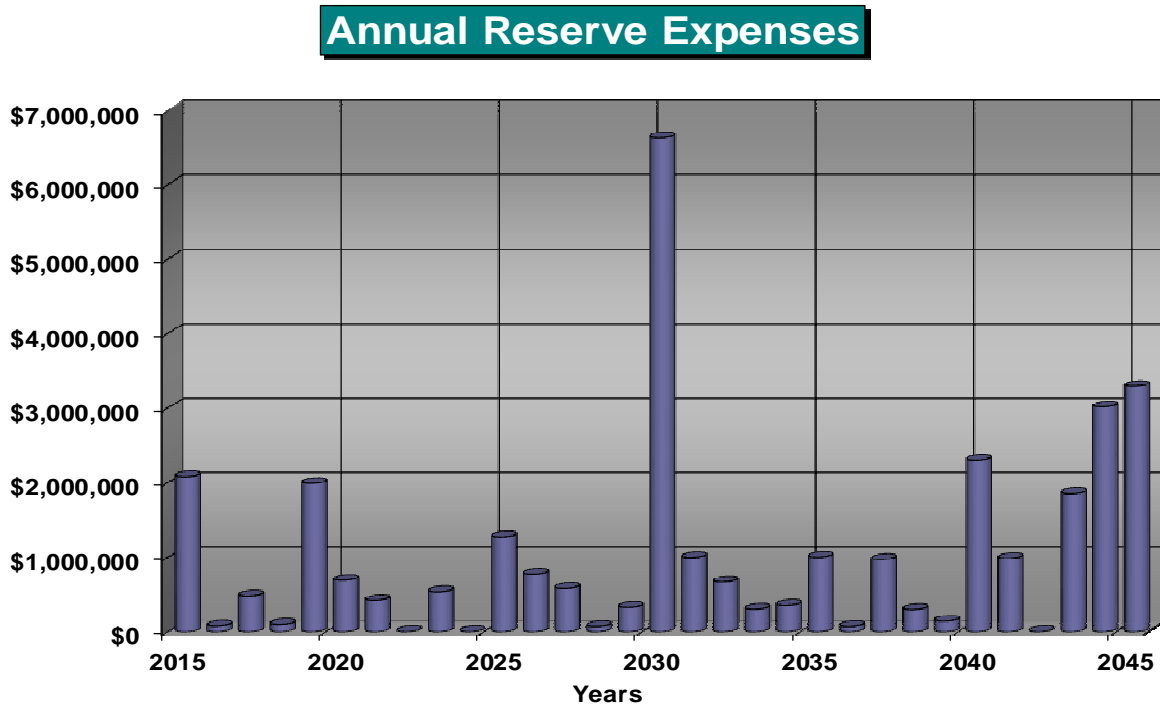


Figure 1

A summary of this information is shown in Table 4, while details of the projects that make up this information are shown in Table 5. Since this is a projection about future events that may or may not take place as anticipated, we feel more certain about “near-term” projects than those many years away. While this Reserve Study is a one-year document, it is based on 30 years’ worth of looking forward into the future.

Reserve Fund Status

The starting point for our financial analysis is your Sewer Department Reserve Fund balance, projected to be \$2,630,712 as-of the start of your Fiscal Year on July 1, 2015. This is based on your actual balance on 9/30/14 of \$2,495,712 and anticipated Reserve contributions totaling \$135,000 and no expenses projected through the end of your Fiscal Year. As of July 1, 2015, your Fully Funded Balance is computed to be \$8,138,970 (see Table 3). This figure represents the deteriorated value of your Sewer Department components. Comparing your Reserve Balance to your Fully Funded Balance indicates your Reserves are 32% Funded.

Recommended Funding Plan

Based on your current Percent Funded and your projected cash flow requirements, we are recommending Reserve contributions of \$47,450/month this 2015/2016 Fiscal Year. This represents the first year of the 30-year Funding Plan shown below. This same information is shown numerically in both Table 4 and Table 5.

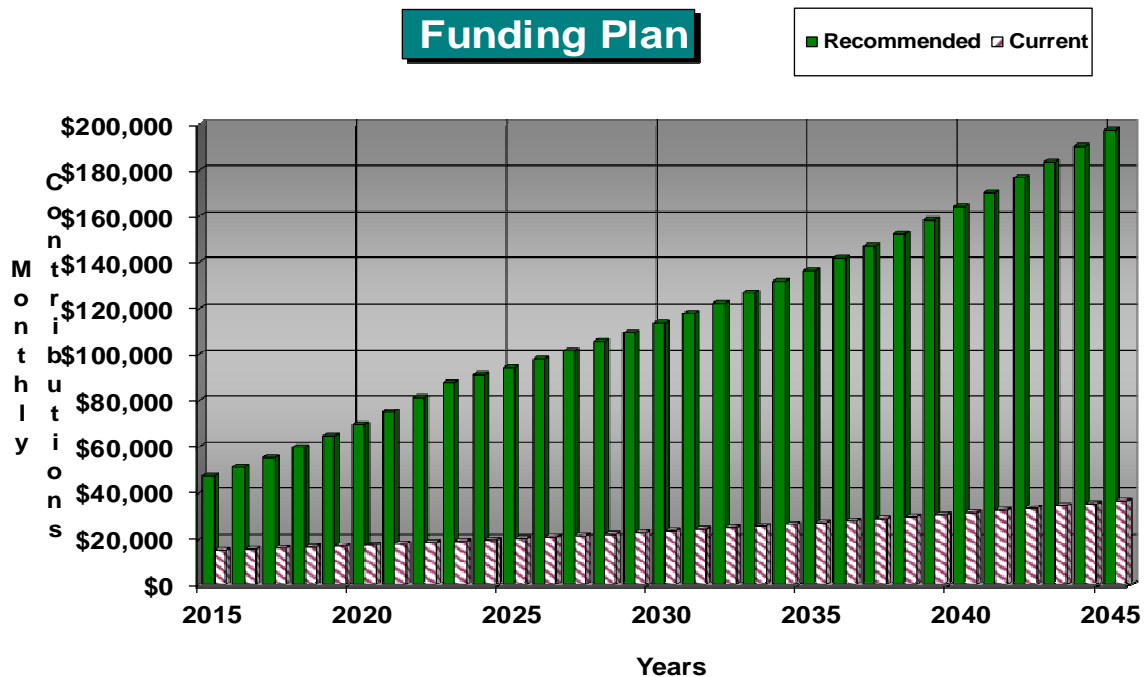


Figure 2

The following chart shows your Reserve balance under our recommended Funding Plan and your current Funding Plan, and your always-changing Fully Funded Balance target.

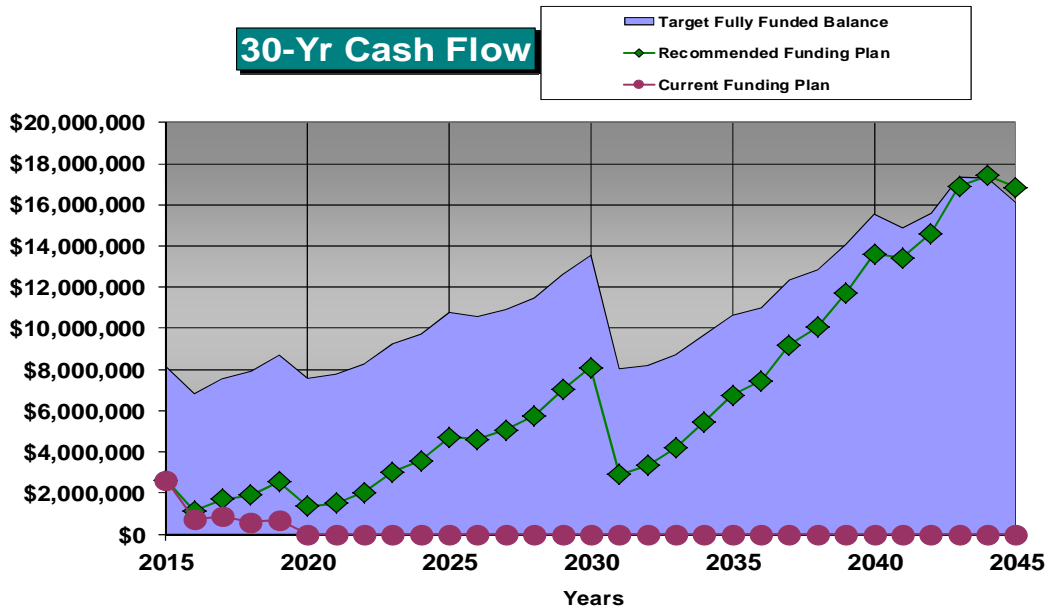


Figure 3

In this figure it is easy to see how your Reserve Fund gradually draws closer to the Fully Funded (100%) level.

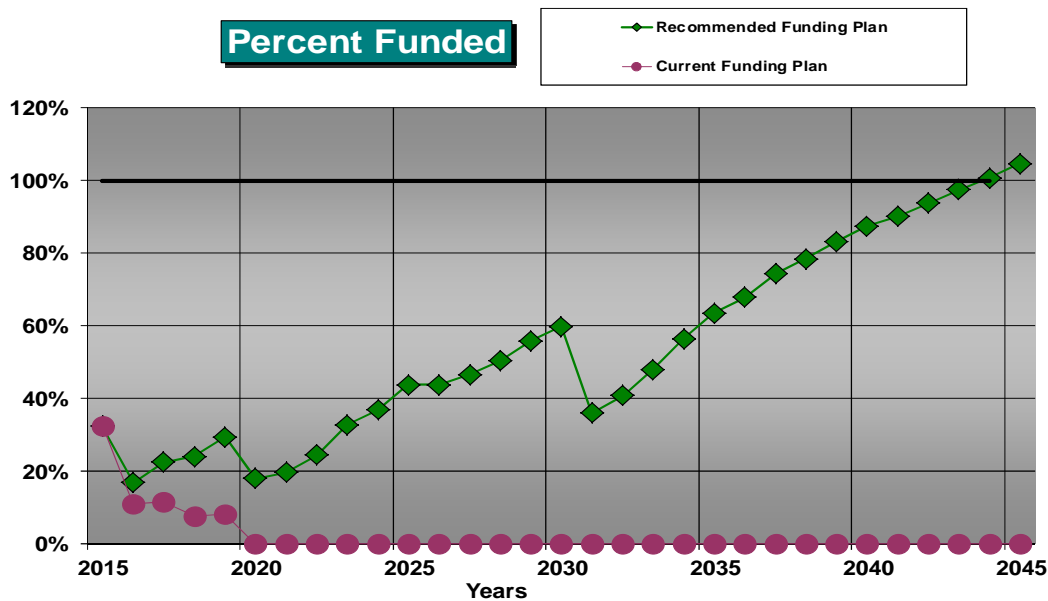


Figure 4

Table Descriptions

The tabular information in this Report is broken down into five tables.

Table 1 summarizes your funded Reserve Components, and is part of the Executive Report summary that appeared earlier in this Report.

Table 2 provides the main component description, life, and cost factors for all components determined to be appropriate for Reserve designation. This table represents the core information from which all other tables are derived.

Table 3 is presented primarily as an accounting summary. The results of the individual line item Fully Funded Balance computations are shown. These individual quantities are summed to arrive at the Fully Funded Balance for the Sewer Department as of the start date of the Report. The figures in the Current Fund Balance column and the Monthly Reserve Contribution column show our distribution throughout the line items. If the Sewer Department is underfunded, Reserve Funds are distributed first to components with a short Remaining Useful Life. If the Sewer Department's Reserve Balance is above 100% Funded, funds are distributed evenly for all components. Contribution rates for each component are a proportionate distribution of the total contribution on the basis of the component's significance to the Sewer Department (current cost divided by useful life). This presentation is not meant to cause clients to redistribute Sewer Department funds, it simply presents one way to evenly distribute the total among all the different line items.

Table 4: This table provides a one-page 30-year summary of the cash flowing into and out of the Sewer Department, compared to the Fully Funded Balance for each year.

Table 5: This table shows the cash flow detail for the next 30 years. This table makes it possible to see what components are projected to require repair or replacement each year, and the size of those individual expenses.

Table 2: Reserve Component List Detail

**27003-0
SEWER**

| # | Component | Quantity | Useful Life | Rem. Useful Life | Best Cost | Current Worst Cost |
|---------------------------------------|-------------------------------------|------------------------------|-------------|------------------|-------------|--------------------|
| Sewer | | | | | | |
| 336 | Mechanical Equipment - Replace | Various Equipment | 8 | 5 | \$30,000 | \$40,000 |
| 1031 | Groundwater Well - Repair | (5) Groundwater Wells | 40 | 20 | \$42,400 | \$50,900 |
| 1860 | 1994 Ford Dump Truck - Replace | (1) Ford F250, V#1665 | 25 | 4 | \$40,000 | \$48,000 |
| 1861 | 2001 Ford F250 - Replace | (1) Ford F250, V#8523 | 15 | 1 | \$32,000 | \$38,000 |
| 1863 | 2003 Ford F150 - Replace | (1) Ford F150, V#1750 | 18 | 5 | \$25,000 | \$29,000 |
| 1864 | 2008 Ford F350 - Replace 50% | (1) Ford F350, V#0663 | 15 | 8 | \$20,000 | \$25,000 |
| 1865 | 2010 Ford Ranger - Replace 50% | (1) Ford Ranger, V#8210 | 15 | 10 | \$12,500 | \$15,000 |
| 1902 | Pipeline (Airport) - Replace 25% | Approx 3,500 LF X 25% | 30 | 0 | \$43,400 | \$52,500 |
| 1902 | Pipeline (Alameda) - Replace 25% | Approx 3,750 LF X 25% | 30 | 0 | \$46,500 | \$56,200 |
| 1902 | Pipeline (MH Park) - Replace | Approx 11,250 LF | 45 | 0 | \$697,500 | \$843,700 |
| 1902 | Pipelines (N. Unit 1) - Replace 25% | Approx 19,200 LF X 25% | 30 | 0 | \$238,000 | \$288,000 |
| 1902 | Pipelines (N. Units 2-4) - Repl 25% | Approx 69,000 LF X 25% | 30 | 0 | \$855,600 | \$1,035,000 |
| 1902 | Pipelines (RM South) - Replace 25% | Approx 25,500 LF X 25% | 30 | 6 | \$316,200 | \$382,500 |
| 1902 | Pipelines (South 7&8) - Replace 25% | Approx 6,500 LF X 25% | 30 | 15 | \$80,600 | \$97,500 |
| 1902 | Pipelines (South Newest) - Repl 25% | Approx 11,000 LF X 25% | 30 | 18 | \$136,400 | \$165,000 |
| 1902 | Pipelines (Unit 6) - Repl 25% | Approx 10,100 LF X 25% | 30 | 2 | \$125,150 | \$150,200 |
| 1907 | Sewer Jetting Unit - Replace | Sewer Jetting Equipment | 20 | 10 | \$43,000 | \$53,000 |
| Waste Water Treatment Facility | | | | | | |
| 203 | Asphalt - Seal/Repair | Approx 246,650 GSF | 10 | 5 | \$120,000 | \$145,000 |
| 302 | Generators - Replace | Generators | 50 | 25 | \$550,000 | \$720,000 |
| 312 | Pumping Stations - Repair | (3) Pump Stations | 8 | 4 | \$300,000 | \$400,000 |
| 313 | Tertiary Effluent - Replace | Filtered Tert. Effluent | 15 | 5 | \$20,000 | \$30,000 |
| 336 | Air Compressors - Replace | (4) Air Compressors | 10 | 5 | \$29,900 | \$41,900 |
| 337 | Solar Pond Circulator - Replace | (1) Solar Pond Circulator | 10 | 2 | \$51,000 | \$61,000 |
| 521 | Fencing - Replace/Repair | Approx 4,900 LF | 25 | 10 | \$88,200 | \$107,800 |
| 941 | Storage Buildings - Refurbish | Approx 7,730 GSF | 30 | 10 | \$240,000 | \$290,000 |
| 1005 | Filtration Valves - Replace | (3) Filtration Valves | 30 | 20 | \$74,900 | \$89,800 |
| 1011 | WW Treatment Facility - Rehab | WW Treatment Facility | 40 | 15 | \$2,800,000 | \$4,000,000 |
| 1015 | Chemical Storage Room - Repair | (1) Chem. Storage Room | 30 | 10 | \$16,000 | \$19,200 |
| 1015 | Chlorine Contact Tank - Repair | (1) Tank | 40 | 15 | \$20,000 | \$30,000 |
| 1015 | Hydro Tank - Replace | (1) Saturation Vessel | 30 | 26 | \$15,000 | \$20,000 |
| 1030 | Equip & Devices - Partial Replace | Reading Devices/Equipment | 10 | 5 | \$72,000 | \$125,000 |
| 1105 | Exterior Surfaces - Repaint | Approx 2,000 GSF | 15 | 11 | \$27,000 | \$32,400 |
| 1113 | Tertiary Stations - Repair/Repaint | (2) Tertiary Treatment St | 15 | 11 | \$300,000 | \$400,000 |
| 1206 | Filters - Replace 33% | (6) Filters | 6 | 4 | \$400,000 | \$500,000 |
| 1703 | WWT Holding Ponds - Repair | Approx 1,567,120 GSF | 30 | 10 | \$50,000 | \$60,000 |
| 1712 | Floating Aerators - Replace | (10) Floating Aerators | 10 | 5 | \$120,000 | \$144,000 |
| 1810 | Automated Gate - Replace | (1) Automated Gate | 5 | 3 | \$8,500 | \$10,500 |
| 1864 | Fuel Tank - Replace | Fuel Tank | 30 | 25 | \$35,000 | \$50,000 |
| 1904 | EQ Basin - Repair | Approx 48,000 GSF | 30 | 15 | \$150,000 | \$190,000 |
| 1912 | Chem. Storage Tanks - Reline/Repair | (3) Storage Containers | 30 | 15 | \$120,000 | \$200,000 |
| 2710 | Aerator Brush Device - Repl 50% | (5) Aerated Brush | 20 | 4 | \$60,000 | \$75,000 |
| 2711 | Aerator Pumps - Repl 50% | (4) Pumps, 10hp | 6 | 2 | \$12,500 | \$14,500 |
| 2712 | Aerator Control Systems - Repl 50% | (2) Aerator Controls | 10 | 5 | \$9,000 | \$10,800 |
| Lift Stations | | | | | | |
| 1 | Main Lift N - Major Reconstruction | (1) Sewer Lift Station | 30 | 29 | \$550,000 | \$1,450,000 |
| 2 | Main Lift N - Minor Reconstruction | (1) Sewer Lift Station | 15 | 14 | \$150,000 | \$250,000 |
| 3 | Cantova - Major Reconstruction | (1) Sewer Lift Station | 30 | 2 | \$120,000 | \$165,000 |
| 4 | Cantova - Minor Reconstruction | (1) Sewer Lift Station | 15 | 2 | \$40,000 | \$75,000 |
| 5 | FAA - Major Reconstruction | (1) Sewer Lift Station | 30 | 4 | \$40,000 | \$70,000 |
| 6 | FAA - Minor Reconstruction | (1) Sewer/Stormwater Lift | 15 | 4 | \$25,000 | \$35,000 |
| 7 | 6B - Major Reconstruction | (1) Sewer Lift Station | 30 | 8 | \$120,000 | \$189,000 |
| 8 | 6B - Minor Reconstruction | (1) Sewer Lift Station | 15 | 8 | \$40,000 | \$50,000 |
| 9 | 6A - Major Reconstruction | (1) Sewer Lift Station | 30 | 8 | \$120,000 | \$145,000 |
| 10 | 6A - Minor Reconstruction | (1) Sewer Lift Station | 15 | 8 | \$40,000 | \$50,000 |
| 11 | 3B - Major Reconstruction | (1) Sewer Lift Station | 30 | 11 | \$120,000 | \$145,000 |
| 12 | 3B - Minor Reconstruction | (1) Sewer Lift Station | 15 | 11 | \$40,000 | \$50,000 |
| 13 | Alameda - Major Reconstruction | (1) Sewer Lift Station | 30 | 5 | \$50,000 | \$70,000 |
| 14 | Alameda - Minor Reconstruction | (1) Sewer Lift Station | 15 | 5 | \$10,000 | \$20,000 |
| 15 | Starter Shack- Major Reconstruction | (1) Sewer Lift Station | 30 | 3 | \$50,000 | \$70,000 |

Table 2: Reserve Component List Detail

**27003-0
SEWER**

| # | Component | Quantity | Useful Life | Rem. Useful Life | Best Cost | Current Worst Cost |
|----|-------------------------------------|---------------------------|----------------|------------------------|--------------|--------------------------|
| 16 | Starter Shack- Minor Reconstruction | (1) Sewer Lift Station | 15 | 3 | \$10,000 | \$20,000 |
| 17 | Main Lift S - Major Reconstruction | (1) Sewer/Stormwater Lift | 30 | 4 | \$450,000 | \$750,000 |
| 18 | Main Lift S - Minor Reconstruction | (1) Sewer/Stormwater Lift | 15 | 4 | \$150,000 | \$190,000 |
| 19 | Crest - Major Reconstruction | (1) Sewer Lift Station | 30 | 17 | \$250,000 | \$350,000 |
| 20 | Crest - Minor Reconstruction | (1) Sewer Lift Station | 15 | 2 | \$40,000 | \$50,000 |
| 21 | Greens - Major Reconstruction | (1) Sewer Lift Station | 30 | 16 | \$90,000 | \$110,000 |
| 22 | Greens - Minor Reconstruction | (1) Sewer Lift Station | 15 | 1 | \$30,000 | \$40,000 |
| 23 | Minor Lift Stations - Repair | (2) Sewage Lift Stations | 15 | 5 | \$12,000 | \$30,000 |
| 66 | Total Funded Components | | | | | |

Table 3: Contribution and Fund Breakdown

**27003-0
SEWER**

| # | Component | Useful Life | Rem. Useful Life | Current (Avg) Cost | Fully Funded Balance | Current Fund Balance | Reserve Contributions |
|---------------------------------------|-------------------------------------|-------------|------------------|--------------------|----------------------|----------------------|-----------------------|
| Sewer | | | | | | | |
| 336 | Mechanical Equipment - Replace | 8 | 5 | \$35,000 | \$13,125 | \$0.00 | \$364.63 |
| 1031 | Groundwater Well - Repair | 40 | 20 | \$46,650 | \$23,325 | \$0.00 | \$97.20 |
| 1860 | 1994 Ford Dump Truck - Replace | 25 | 4 | \$44,000 | \$36,960 | \$0.00 | \$146.68 |
| 1861 | 2001 Ford F250 - Replace | 15 | 1 | \$35,000 | \$32,667 | \$32,666.67 | \$194.47 |
| 1863 | 2003 Ford F150 - Replace | 18 | 5 | \$27,000 | \$19,500 | \$0.00 | \$125.01 |
| 1864 | 2008 Ford F350 - Replace 50% | 15 | 8 | \$22,500 | \$10,500 | \$0.00 | \$125.01 |
| 1865 | 2010 Ford Ranger - Replace 50% | 15 | 10 | \$13,750 | \$4,583 | \$0.00 | \$76.40 |
| 1902 | Pipeline (Airport) - Replace 25% | 30 | 0 | \$47,950 | \$47,950 | \$47,950.00 | \$133.21 |
| 1902 | Pipeline (Alameda) - Replace 25% | 30 | 0 | \$51,350 | \$51,350 | \$51,350.00 | \$142.66 |
| 1902 | Pipeline (MH Park) - Replace | 45 | 0 | \$770,600 | \$770,600 | \$770,600.00 | \$1,427.20 |
| 1902 | Pipelines (N. Unit 1) - Replace 25% | 30 | 0 | \$263,000 | \$263,000 | \$263,000.00 | \$730.64 |
| 1902 | Pipelines (N. Units 2-4) - Repl 25% | 30 | 0 | \$945,300 | \$945,300 | \$945,300.00 | \$2,626.14 |
| 1902 | Pipelines (RM South) - Replace 25% | 30 | 6 | \$349,350 | \$279,480 | \$0.00 | \$970.53 |
| 1902 | Pipelines (South 7&8) - Replace 25% | 30 | 15 | \$89,050 | \$44,525 | \$0.00 | \$247.39 |
| 1902 | Pipelines (South Newest) - Repl 25% | 30 | 18 | \$150,700 | \$60,280 | \$0.00 | \$418.66 |
| 1902 | Pipelines (Unit 6) - Repl 25% | 30 | 2 | \$137,675 | \$128,497 | \$128,496.67 | \$382.48 |
| 1907 | Sewer Jetting Unit - Replace | 20 | 10 | \$48,000 | \$24,000 | \$0.00 | \$200.02 |
| Waste Water Treatment Facility | | | | | | | |
| 203 | Asphalt - Seal/Repair | 10 | 5 | \$132,500 | \$66,250 | \$0.00 | \$1,104.30 |
| 302 | Generators - Replace | 50 | 25 | \$635,000 | \$317,500 | \$0.00 | \$1,058.46 |
| 312 | Pumping Stations - Repair | 8 | 4 | \$350,000 | \$175,000 | \$0.00 | \$3,646.26 |
| 313 | Tertiary Effluent - Replace | 15 | 5 | \$25,000 | \$16,667 | \$0.00 | \$138.91 |
| 336 | Air Compressors - Replace | 10 | 5 | \$35,900 | \$17,950 | \$0.00 | \$299.20 |
| 337 | Solar Pond Circulator - Replace | 10 | 2 | \$56,000 | \$44,800 | \$44,800.00 | \$466.72 |
| 521 | Fencing - Replace/Repair | 25 | 10 | \$98,000 | \$58,800 | \$0.00 | \$326.70 |
| 941 | Storage Buildings - Refurbish | 30 | 10 | \$265,000 | \$176,667 | \$0.00 | \$736.20 |
| 1005 | Filtration Valves - Replace | 30 | 20 | \$82,350 | \$27,450 | \$0.00 | \$228.78 |
| 1011 | WW Treatment Facility - Rehab | 40 | 15 | \$3,400,000 | \$2,125,000 | \$0.00 | \$7,084.16 |
| 1015 | Chemical Storage Room - Repair | 30 | 10 | \$17,600 | \$11,733 | \$0.00 | \$48.89 |
| 1015 | Chlorine Contact Tank - Repair | 40 | 15 | \$25,000 | \$15,625 | \$0.00 | \$52.09 |
| 1015 | Hydro Tank - Replace | 30 | 26 | \$17,500 | \$2,333 | \$0.00 | \$48.62 |
| 1030 | Equip & Devices - Partial Replace | 10 | 5 | \$98,500 | \$49,250 | \$0.00 | \$820.93 |
| 1105 | Exterior Surfaces - Repaint | 15 | 11 | \$29,700 | \$7,920 | \$0.00 | \$165.02 |
| 1113 | Tertiary Stations - Repair/Repaint | 15 | 11 | \$350,000 | \$93,333 | \$0.00 | \$1,944.67 |
| 1206 | Filters - Replace 33% | 6 | 4 | \$450,000 | \$150,000 | \$13,248.67 | \$6,250.73 |
| 1703 | WWT Holding Ponds - Repair | 30 | 10 | \$55,000 | \$36,667 | \$0.00 | \$152.80 |
| 1712 | Floating Aerators - Replace | 10 | 5 | \$132,000 | \$66,000 | \$0.00 | \$1,100.13 |
| 1810 | Automated Gate - Replace | 5 | 3 | \$9,500 | \$3,800 | \$3,800.00 | \$158.35 |
| 1864 | Fuel Tank - Replace | 30 | 25 | \$42,500 | \$7,083 | \$0.00 | \$118.07 |
| 1904 | EQ Basin - Repair | 30 | 15 | \$170,000 | \$85,000 | \$0.00 | \$472.28 |
| 1912 | Chem. Storage Tanks - Reline/Repair | 30 | 15 | \$160,000 | \$80,000 | \$0.00 | \$444.50 |
| 2710 | Aerator Brush Device - Repl 50% | 20 | 4 | \$67,500 | \$54,000 | \$0.00 | \$281.28 |
| 2711 | Aerator Pumps - Repl 50% | 6 | 2 | \$13,500 | \$9,000 | \$9,000.00 | \$187.52 |
| 2712 | Aerator Control Systems - Repl 50% | 10 | 5 | \$9,900 | \$4,950 | \$0.00 | \$82.51 |
| Lift Stations | | | | | | | |
| 1 | Main Lift N - Major Reconstruction | 30 | 29 | \$1,000,000 | \$33,333 | \$0.00 | \$2,778.10 |
| 2 | Main Lift N - Minor Reconstruction | 15 | 14 | \$200,000 | \$13,333 | \$0.00 | \$1,111.24 |
| 3 | Cantova - Major Reconstruction | 30 | 2 | \$142,500 | \$133,000 | \$133,000.00 | \$395.88 |
| 4 | Cantova - Minor Reconstruction | 15 | 2 | \$57,500 | \$49,833 | \$49,833.33 | \$319.48 |
| 5 | FAA - Major Reconstruction | 30 | 4 | \$55,000 | \$47,667 | \$0.00 | \$152.80 |
| 6 | FAA - Minor Reconstruction | 15 | 4 | \$30,000 | \$22,000 | \$0.00 | \$166.69 |
| 7 | 6B - Major Reconstruction | 30 | 8 | \$154,500 | \$113,300 | \$0.00 | \$429.22 |
| 8 | 6B - Minor Reconstruction | 15 | 8 | \$45,000 | \$21,000 | \$0.00 | \$250.03 |
| 9 | 6A - Major Reconstruction | 30 | 8 | \$132,500 | \$97,167 | \$0.00 | \$368.10 |
| 10 | 6A - Minor Reconstruction | 15 | 8 | \$45,000 | \$21,000 | \$0.00 | \$250.03 |
| 11 | 3B - Major Reconstruction | 30 | 11 | \$132,500 | \$83,917 | \$0.00 | \$368.10 |
| 12 | 3B - Minor Reconstruction | 15 | 11 | \$45,000 | \$12,000 | \$0.00 | \$250.03 |
| 13 | Alameda - Major Reconstruction | 30 | 5 | \$60,000 | \$50,000 | \$0.00 | \$166.69 |
| 14 | Alameda - Minor Reconstruction | 15 | 5 | \$15,000 | \$10,000 | \$0.00 | \$83.34 |
| 15 | Starter Shack- Major Reconstruction | 30 | 3 | \$60,000 | \$54,000 | \$54,000.00 | \$166.69 |
| 16 | Starter Shack- Minor Reconstruction | 15 | 3 | \$15,000 | \$12,000 | \$12,000.00 | \$83.34 |
| 17 | Main Lift S - Major Reconstruction | 30 | 4 | \$600,000 | \$520,000 | \$0.00 | \$1,666.86 |

Table 3: Contribution and Fund Breakdown**27003-0
SEWER**

| # | Component | Useful Life | Rem. Useful Life | Current (Avg) Cost | Fully Funded Balance | Current Fund Balance | Reserve Contributions |
|----|------------------------------------|----------------|------------------------|-----------------------|----------------------------|----------------------------|--------------------------|
| 18 | Main Lift S - Minor Reconstruction | 15 | 4 | \$170,000 | \$124,667 | \$0.00 | \$944.56 |
| 19 | Crest - Major Reconstruction | 30 | 17 | \$300,000 | \$130,000 | \$0.00 | \$833.43 |
| 20 | Crest - Minor Reconstruction | 15 | 2 | \$45,000 | \$39,000 | \$39,000.00 | \$250.03 |
| 21 | Greens - Major Reconstruction | 30 | 16 | \$100,000 | \$46,667 | \$0.00 | \$277.81 |
| 22 | Greens - Minor Reconstruction | 15 | 1 | \$35,000 | \$32,667 | \$32,666.67 | \$194.47 |
| 23 | Minor Lift Stations - Repair | 15 | 5 | \$21,000 | \$14,000 | \$0.00 | \$116.68 |
| 66 | Total Funded Components | | | | \$8,138,970 | \$2,630,712 | \$47,450 |

Table 4: 30-Year Reserve Plan Summary Recommended by Association Reserves

27003-0 SEWER

Fiscal Year Beginning: 07/01/15

| | |
|-----------------|-----------------|
| Interest: 1.00% | Inflation: 3.0% |
|-----------------|-----------------|

| Year | Starting Reserve Balance | Fully Funded Balance | Percent Funded | Rating | % Increase In Annual Reserve Contribs. | Annual Reserve Contribs. | Loans or Trnsfer Amnts | Interest Income | Projected Reserve Expenses |
|------|--------------------------|----------------------|----------------|--------|--|--------------------------|------------------------|-----------------|----------------------------|
| 2015 | \$2,630,712 | \$8,138,970 | 32.3% | Fair | | \$569,400 | \$0 | \$18,849 | \$2,078,200 |
| 2016 | \$1,140,761 | \$6,829,006 | 16.7% | Weak | 8.00% | \$614,952 | \$0 | \$14,187 | \$72,100 |
| 2017 | \$1,697,800 | \$7,563,619 | 22.4% | Weak | 8.00% | \$664,148 | \$0 | \$17,982 | \$479,712 |
| 2018 | \$1,900,218 | \$7,918,550 | 24.0% | Weak | 8.00% | \$717,280 | \$0 | \$22,229 | \$92,335 |
| 2019 | \$2,547,391 | \$8,701,790 | 29.3% | Weak | 8.00% | \$774,662 | \$0 | \$19,495 | \$1,988,211 |
| 2020 | \$1,353,338 | \$7,574,999 | 17.9% | Weak | 8.00% | \$836,635 | \$0 | \$14,352 | \$686,058 |
| 2021 | \$1,518,267 | \$7,775,423 | 19.5% | Weak | 8.00% | \$903,566 | \$0 | \$17,696 | \$417,142 |
| 2022 | \$2,022,387 | \$8,279,237 | 24.4% | Weak | 8.00% | \$975,852 | \$0 | \$25,219 | \$0 |
| 2023 | \$3,023,457 | \$9,248,828 | 32.7% | Fair | 8.00% | \$1,053,920 | \$0 | \$32,979 | \$535,210 |
| 2024 | \$3,575,145 | \$9,717,877 | 36.8% | Fair | 3.75% | \$1,093,442 | \$0 | \$41,408 | \$0 |
| 2025 | \$4,709,995 | \$10,774,550 | 43.7% | Fair | 3.75% | \$1,134,446 | \$0 | \$46,620 | \$1,273,159 |
| 2026 | \$4,617,901 | \$10,574,523 | 43.7% | Fair | 3.75% | \$1,176,987 | \$0 | \$48,429 | \$771,295 |
| 2027 | \$5,072,022 | \$10,909,057 | 46.5% | Fair | 3.75% | \$1,221,124 | \$0 | \$54,179 | \$578,859 |
| 2028 | \$5,768,467 | \$11,476,189 | 50.3% | Fair | 3.75% | \$1,266,917 | \$0 | \$63,985 | \$65,350 |
| 2029 | \$7,034,019 | \$12,614,332 | 55.8% | Fair | 3.75% | \$1,314,426 | \$0 | \$75,644 | \$322,938 |
| 2030 | \$8,101,151 | \$13,547,139 | 59.8% | Fair | 3.75% | \$1,363,717 | \$0 | \$54,952 | \$6,625,802 |
| 2031 | \$2,894,019 | \$8,042,590 | 36.0% | Fair | 3.75% | \$1,414,856 | \$0 | \$31,183 | \$994,918 |
| 2032 | \$3,345,140 | \$8,200,123 | 40.8% | Fair | 3.75% | \$1,467,913 | \$0 | \$37,637 | \$665,271 |
| 2033 | \$4,185,419 | \$8,730,149 | 47.9% | Fair | 3.75% | \$1,522,960 | \$0 | \$48,198 | \$298,266 |
| 2034 | \$5,458,311 | \$9,683,169 | 56.4% | Fair | 3.75% | \$1,580,071 | \$0 | \$61,009 | \$350,701 |
| 2035 | \$6,748,690 | \$10,640,720 | 63.4% | Fair | 3.75% | \$1,639,324 | \$0 | \$71,010 | \$999,683 |
| 2036 | \$7,459,341 | \$10,989,396 | 67.9% | Fair | 3.75% | \$1,700,799 | \$0 | \$83,152 | \$65,110 |
| 2037 | \$9,178,182 | \$12,342,916 | 74.4% | Strong | 3.75% | \$1,764,578 | \$0 | \$96,197 | \$969,548 |
| 2038 | \$10,069,409 | \$12,838,197 | 78.4% | Strong | 3.75% | \$1,830,750 | \$0 | \$108,876 | \$294,064 |
| 2039 | \$11,714,971 | \$14,077,794 | 83.2% | Strong | 3.75% | \$1,899,403 | \$0 | \$126,540 | \$137,214 |
| 2040 | \$13,603,700 | \$15,550,855 | 87.5% | Strong | 3.75% | \$1,970,631 | \$0 | \$134,991 | \$2,303,260 |
| 2041 | \$13,406,062 | \$14,872,841 | 90.1% | Strong | 3.75% | \$2,044,530 | \$0 | \$140,010 | \$982,759 |
| 2042 | \$14,607,843 | \$15,571,439 | 93.8% | Strong | 3.75% | \$2,121,199 | \$0 | \$157,405 | \$0 |
| 2043 | \$16,886,447 | \$17,341,175 | 97.4% | Strong | 3.75% | \$2,200,744 | \$0 | \$171,392 | \$1,852,077 |
| 2044 | \$17,406,506 | \$17,295,441 | 100.6% | Strong | 3.75% | \$2,283,272 | \$0 | \$171,194 | \$3,014,047 |

Table 5: 30-Year Income/Expense Detail (yrs 0 through 4)

**27003-0
SEWER**

| Fiscal Year | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Starting Reserve Balance | \$2,630,712 | \$1,140,761 | \$1,697,800 | \$1,900,218 | \$2,547,391 |
| Annual Reserve Contribution | \$569,400 | \$614,952 | \$664,148 | \$717,280 | \$774,662 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$18,849 | \$14,187 | \$17,982 | \$22,229 | \$19,495 |
| Total Income | \$3,218,961 | \$1,769,900 | \$2,379,931 | \$2,639,727 | \$3,341,549 |
| # Component | | | | | |
| Sewer | | | | | |
| 336 Mechanical Equipment - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1031 Groundwater Well - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1860 1994 Ford Dump Truck - Replace | \$0 | \$0 | \$0 | \$0 | \$49,522 |
| 1861 2001 Ford F250 - Replace | \$0 | \$36,050 | \$0 | \$0 | \$0 |
| 1863 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$47,950 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$51,350 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$770,600 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$263,000 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$945,300 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$146,059 | \$0 | \$0 |
| 1907 Sewer Jetting Unit - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Waste Water Treatment Facility | | | | | |
| 203 Asphalt - Seal/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 312 Pumping Stations - Repair | \$0 | \$0 | \$0 | \$0 | \$393,928 |
| 313 Tertiary Effluent - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 336 Air Compressors - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 337 Solar Pond Circulator - Replace | \$0 | \$0 | \$59,410 | \$0 | \$0 |
| 521 Fencing - Replace/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 941 Storage Buildings - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Filtration Valves - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1011 WW Treatment Facility - Rehab | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chemical Storage Room - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chlorine Contact Tank - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Hydro Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1030 Equip & Devices - Partial Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1105 Exterior Surfaces - Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1113 Tertiary Stations - Repair/Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1206 Filters - Replace 33% | \$0 | \$0 | \$0 | \$0 | \$506,479 |
| 1703 WWT Holding Ponds - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1712 Floating Aerators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1810 Automated Gate - Replace | \$0 | \$0 | \$0 | \$10,381 | \$0 |

Table 5: 30-Year Income/Expense Detail (yrs 0 through 4)

**27003-0
SEWER**

| Fiscal Year | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1864 Fuel Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1904 EQ Basin - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1912 Chem. Storage Tanks - Reline/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2710 Aerator Brush Device - Repl 50% | \$0 | \$0 | \$0 | \$0 | \$75,972 |
| 2711 Aerator Pumps - Repl 50% | \$0 | \$0 | \$14,322 | \$0 | \$0 |
| 2712 Aerator Control Systems - Repl 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| Lift Stations | | | | | |
| 1 Main Lift N - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2 Main Lift N - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 3 Cantova - Major Reconstruction | \$0 | \$0 | \$151,178 | \$0 | \$0 |
| 4 Cantova - Minor Reconstruction | \$0 | \$0 | \$61,002 | \$0 | \$0 |
| 5 FAA - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$61,903 |
| 6 FAA - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$33,765 |
| 7 6B - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 8 6B - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 9 6A - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 10 6A - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 11 3B - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 12 3B - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 13 Alameda - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 14 Alameda - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 15 Starter Shack- Major Reconstruction | \$0 | \$0 | \$0 | \$65,564 | \$0 |
| 16 Starter Shack- Minor Reconstruction | \$0 | \$0 | \$0 | \$16,391 | \$0 |
| 17 Main Lift S - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$675,305 |
| 18 Main Lift S - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$191,336 |
| 19 Crest - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 20 Crest - Minor Reconstruction | \$0 | \$0 | \$47,741 | \$0 | \$0 |
| 21 Greens - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 22 Greens - Minor Reconstruction | \$0 | \$36,050 | \$0 | \$0 | \$0 |
| 23 Minor Lift Stations - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$2,078,200 | \$72,100 | \$479,712 | \$92,335 | \$1,988,211 |
| Ending Reserve Balance: | \$1,140,761 | \$1,697,800 | \$1,900,218 | \$2,547,391 | \$1,353,338 |

Table 5: 30-Year Income/Expense Detail (yrs 5 through 9)

**27003-0
SEWER**

| Fiscal Year | 2020 | 2021 | 2022 | 2023 | 2024 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Starting Reserve Balance | \$1,353,338 | \$1,518,267 | \$2,022,387 | \$3,023,457 | \$3,575,145 |
| Annual Reserve Contribution | \$836,635 | \$903,566 | \$975,852 | \$1,053,920 | \$1,093,442 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$14,352 | \$17,696 | \$25,219 | \$32,979 | \$41,408 |
| Total Income | \$2,204,325 | \$2,439,529 | \$3,023,457 | \$4,110,355 | \$4,709,995 |
| # Component | | | | | |
| Sewer | | | | | |
| 336 Mechanical Equipment - Replace | \$40,575 | \$0 | \$0 | \$0 | \$0 |
| 1031 Groundwater Well - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1860 1994 Ford Dump Truck - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 2001 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2003 Ford F150 - Replace | \$31,300 | \$0 | \$0 | \$0 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$28,502 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$417,142 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1907 Sewer Jetting Unit - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Waste Water Treatment Facility | | | | | |
| 203 Asphalt - Seal/Repair | \$153,604 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 312 Pumping Stations - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 313 Tertiary Effluent - Replace | \$28,982 | \$0 | \$0 | \$0 | \$0 |
| 336 Air Compressors - Replace | \$41,618 | \$0 | \$0 | \$0 | \$0 |
| 337 Solar Pond Circulator - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 521 Fencing - Replace/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 941 Storage Buildings - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Filtration Valves - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1011 WW Treatment Facility - Rehab | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chemical Storage Room - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chlorine Contact Tank - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Hydro Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1030 Equip & Devices - Partial Replace | \$114,188 | \$0 | \$0 | \$0 | \$0 |
| 1105 Exterior Surfaces - Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1113 Tertiary Stations - Repair/Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1206 Filters - Replace 33% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1703 WWT Holding Ponds - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1712 Floating Aerators - Replace | \$153,024 | \$0 | \$0 | \$0 | \$0 |
| 1810 Automated Gate - Replace | \$0 | \$0 | \$0 | \$12,034 | \$0 |

Table 5: 30-Year Income/Expense Detail (yrs 5 through 9)

| Fiscal Year | 2020 | 2021 | 2022 | 2023 | 2024 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1864 Fuel Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1904 EQ Basin - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1912 Chem. Storage Tanks - Reline/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2710 Aerator Brush Device - Repl 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2711 Aerator Pumps - Repl 50% | \$0 | \$0 | \$0 | \$17,101 | \$0 |
| 2712 Aerator Control Systems - Repl 50% | \$11,477 | \$0 | \$0 | \$0 | \$0 |
| Lift Stations | | | | | |
| 1 Main Lift N - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2 Main Lift N - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 3 Cantova - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4 Cantova - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 5 FAA - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 6 FAA - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 7 6B - Major Reconstruction | \$0 | \$0 | \$0 | \$195,716 | \$0 |
| 8 6B - Minor Reconstruction | \$0 | \$0 | \$0 | \$57,005 | \$0 |
| 9 6A - Major Reconstruction | \$0 | \$0 | \$0 | \$167,847 | \$0 |
| 10 6A - Minor Reconstruction | \$0 | \$0 | \$0 | \$57,005 | \$0 |
| 11 3B - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 12 3B - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 13 Alameda - Major Reconstruction | \$69,556 | \$0 | \$0 | \$0 | \$0 |
| 14 Alameda - Minor Reconstruction | \$17,389 | \$0 | \$0 | \$0 | \$0 |
| 15 Starter Shack- Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 16 Starter Shack- Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 17 Main Lift S - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 18 Main Lift S - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 19 Crest - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 20 Crest - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 21 Greens - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 22 Greens - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 23 Minor Lift Stations - Repair | \$24,345 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$686,058 | \$417,142 | \$0 | \$535,210 | \$0 |
| Ending Reserve Balance: | \$1,518,267 | \$2,022,387 | \$3,023,457 | \$3,575,145 | \$4,709,995 |

Table 5: 30-Year Income/Expense Detail (yrs 10 through 14)

**27003-0
SEWER**

| Fiscal Year | 2025 | 2026 | 2027 | 2028 | 2029 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Starting Reserve Balance | \$4,709,995 | \$4,617,901 | \$5,072,022 | \$5,768,467 | \$7,034,019 |
| Annual Reserve Contribution | \$1,134,446 | \$1,176,987 | \$1,221,124 | \$1,266,917 | \$1,314,426 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$46,620 | \$48,429 | \$54,179 | \$63,985 | \$75,644 |
| Total Income | \$5,891,060 | \$5,843,317 | \$6,347,326 | \$7,099,369 | \$8,424,089 |
| # Component | | | | | |
| Sewer | | | | | |
| 336 Mechanical Equipment - Replace | \$0 | \$0 | \$0 | \$51,399 | \$0 |
| 1031 Groundwater Well - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1860 1994 Ford Dump Truck - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 2001 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$18,479 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1907 Sewer Jetting Unit - Replace | \$64,508 | \$0 | \$0 | \$0 | \$0 |
| Waste Water Treatment Facility | | | | | |
| 203 Asphalt - Seal/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 312 Pumping Stations - Repair | \$0 | \$0 | \$499,016 | \$0 | \$0 |
| 313 Tertiary Effluent - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 336 Air Compressors - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 337 Solar Pond Circulator - Replace | \$0 | \$0 | \$79,843 | \$0 | \$0 |
| 521 Fencing - Replace/Repair | \$131,704 | \$0 | \$0 | \$0 | \$0 |
| 941 Storage Buildings - Refurbish | \$356,138 | \$0 | \$0 | \$0 | \$0 |
| 1005 Filtration Valves - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1011 WW Treatment Facility - Rehab | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chemical Storage Room - Repair | \$23,653 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chlorine Contact Tank - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Hydro Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1030 Equip & Devices - Partial Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1105 Exterior Surfaces - Repaint | \$0 | \$41,112 | \$0 | \$0 | \$0 |
| 1113 Tertiary Stations - Repair/Repaint | \$0 | \$484,482 | \$0 | \$0 | \$0 |
| 1206 Filters - Replace 33% | \$604,762 | \$0 | \$0 | \$0 | \$0 |
| 1703 WWT Holding Ponds - Repair | \$73,915 | \$0 | \$0 | \$0 | \$0 |
| 1712 Floating Aerators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1810 Automated Gate - Replace | \$0 | \$0 | \$0 | \$13,951 | \$0 |

Table 5: 30-Year Income/Expense Detail (yrs 10 through 14)

**27003-0
SEWER**

| Fiscal Year | | 2025 | 2026 | 2027 | 2028 | 2029 |
|-------------------------|-------------------------------------|-------------|-------------|-------------|-------------|-------------|
| 1864 | Fuel Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1904 | EQ Basin - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1912 | Chem. Storage Tanks - Reline/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2710 | Aerator Brush Device - Repl 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2711 | Aerator Pumps - Repl 50% | \$0 | \$0 | \$0 | \$0 | \$20,420 |
| 2712 | Aerator Control Systems - Repl 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| Lift Stations | | | | | | |
| 1 | Main Lift N - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2 | Main Lift N - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$302,518 |
| 3 | Cantova - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4 | Cantova - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 5 | FAA - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 6 | FAA - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 7 | 6B - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 8 | 6B - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 9 | 6A - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 10 | 6A - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 11 | 3B - Major Reconstruction | \$0 | \$183,411 | \$0 | \$0 | \$0 |
| 12 | 3B - Minor Reconstruction | \$0 | \$62,291 | \$0 | \$0 | \$0 |
| 13 | Alameda - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 14 | Alameda - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 15 | Starter Shack- Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 16 | Starter Shack- Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 17 | Main Lift S - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 18 | Main Lift S - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 19 | Crest - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 20 | Crest - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 21 | Greens - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 22 | Greens - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 23 | Minor Lift Stations - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | | \$1,273,159 | \$771,295 | \$578,859 | \$65,350 | \$322,938 |
| Ending Reserve Balance: | | \$4,617,901 | \$5,072,022 | \$5,768,467 | \$7,034,019 | \$8,101,151 |

Table 5: 30-Year Income/Expense Detail (yrs 15 through 19)

**27003-0
SEWER**

| Fiscal Year | 2030 | 2031 | 2032 | 2033 | 2034 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Starting Reserve Balance | \$8,101,151 | \$2,894,019 | \$3,345,140 | \$4,185,419 | \$5,458,311 |
| Annual Reserve Contribution | \$1,363,717 | \$1,414,856 | \$1,467,913 | \$1,522,960 | \$1,580,071 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$54,952 | \$31,183 | \$37,637 | \$48,198 | \$61,009 |
| Total Income | \$9,519,821 | \$4,340,058 | \$4,850,690 | \$5,756,577 | \$7,099,391 |
| # Component | | | | | |
| Sewer | | | | | |
| 336 Mechanical Equipment - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1031 Groundwater Well - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1860 1994 Ford Dump Truck - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 2001 Ford F250 - Replace | \$0 | \$56,165 | \$0 | \$0 | \$0 |
| 1863 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$138,737 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$256,557 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1907 Sewer Jetting Unit - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Waste Water Treatment Facility | | | | | |
| 203 Asphalt - Seal/Repair | \$206,431 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 312 Pumping Stations - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 313 Tertiary Effluent - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 336 Air Compressors - Replace | \$55,931 | \$0 | \$0 | \$0 | \$0 |
| 337 Solar Pond Circulator - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 521 Fencing - Replace/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 941 Storage Buildings - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Filtration Valves - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1011 WW Treatment Facility - Rehab | \$5,297,089 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chemical Storage Room - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chlorine Contact Tank - Repair | \$38,949 | \$0 | \$0 | \$0 | \$0 |
| 1015 Hydro Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1030 Equip & Devices - Partial Replace | \$153,460 | \$0 | \$0 | \$0 | \$0 |
| 1105 Exterior Surfaces - Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1113 Tertiary Stations - Repair/Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1206 Filters - Replace 33% | \$0 | \$722,118 | \$0 | \$0 | \$0 |
| 1703 WWT Holding Ponds - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1712 Floating Aerators - Replace | \$205,652 | \$0 | \$0 | \$0 | \$0 |
| 1810 Automated Gate - Replace | \$0 | \$0 | \$0 | \$16,173 | \$0 |

Table 5: 30-Year Income/Expense Detail (yrs 15 through 19)

| Fiscal Year | 2030 | 2031 | 2032 | 2033 | 2034 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1864 Fuel Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1904 EQ Basin - Repair | \$264,854 | \$0 | \$0 | \$0 | \$0 |
| 1912 Chem. Storage Tanks - Reline/Repair | \$249,275 | \$0 | \$0 | \$0 | \$0 |
| 2710 Aerator Brush Device - Repl 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2711 Aerator Pumps - Repl 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2712 Aerator Control Systems - Repl 50% | \$15,424 | \$0 | \$0 | \$0 | \$0 |
| Lift Stations | | | | | |
| 1 Main Lift N - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2 Main Lift N - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 3 Cantova - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4 Cantova - Minor Reconstruction | \$0 | \$0 | \$95,039 | \$0 | \$0 |
| 5 FAA - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 6 FAA - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$52,605 |
| 7 6B - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 8 6B - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 9 6A - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 10 6A - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 11 3B - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 12 3B - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 13 Alameda - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 14 Alameda - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 15 Starter Shack- Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 16 Starter Shack- Minor Reconstruction | \$0 | \$0 | \$0 | \$25,536 | \$0 |
| 17 Main Lift S - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 18 Main Lift S - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$298,096 |
| 19 Crest - Major Reconstruction | \$0 | \$0 | \$495,854 | \$0 | \$0 |
| 20 Crest - Minor Reconstruction | \$0 | \$0 | \$74,378 | \$0 | \$0 |
| 21 Greens - Major Reconstruction | \$0 | \$160,471 | \$0 | \$0 | \$0 |
| 22 Greens - Minor Reconstruction | \$0 | \$56,165 | \$0 | \$0 | \$0 |
| 23 Minor Lift Stations - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$6,625,802 | \$994,918 | \$665,271 | \$298,266 | \$350,701 |
| Ending Reserve Balance: | \$2,894,019 | \$3,345,140 | \$4,185,419 | \$5,458,311 | \$6,748,690 |

Table 5: 30-Year Income/Expense Detail (yrs 20 through 24)

**27003-0
SEWER**

| Fiscal Year | 2035 | 2036 | 2037 | 2038 | 2039 |
|--|--------------------|--------------------|---------------------|---------------------|---------------------|
| Starting Reserve Balance | \$6,748,690 | \$7,459,341 | \$9,178,182 | \$10,069,409 | \$11,714,971 |
| Annual Reserve Contribution | \$1,639,324 | \$1,700,799 | \$1,764,578 | \$1,830,750 | \$1,899,403 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$71,010 | \$83,152 | \$96,197 | \$108,876 | \$126,540 |
| Total Income | \$8,459,024 | \$9,243,292 | \$11,038,958 | \$12,009,035 | \$13,740,914 |
| # Component | | | | | |
| Sewer | | | | | |
| 336 Mechanical Equipment - Replace | \$0 | \$65,110 | \$0 | \$0 | \$0 |
| 1031 Groundwater Well - Repair | \$84,255 | \$0 | \$0 | \$0 | \$0 |
| 1860 1994 Ford Dump Truck - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 2001 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$53,287 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$44,406 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1907 Sewer Jetting Unit - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Waste Water Treatment Facility | | | | | |
| 203 Asphalt - Seal/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 312 Pumping Stations - Repair | \$632,139 | \$0 | \$0 | \$0 | \$0 |
| 313 Tertiary Effluent - Replace | \$45,153 | \$0 | \$0 | \$0 | \$0 |
| 336 Air Compressors - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 337 Solar Pond Circulator - Replace | \$0 | \$0 | \$107,302 | \$0 | \$0 |
| 521 Fencing - Replace/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 941 Storage Buildings - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Filtration Valves - Replace | \$148,733 | \$0 | \$0 | \$0 | \$0 |
| 1011 WW Treatment Facility - Rehab | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chemical Storage Room - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chlorine Contact Tank - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Hydro Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1030 Equip & Devices - Partial Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1105 Exterior Surfaces - Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1113 Tertiary Stations - Repair/Repaint | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1206 Filters - Replace 33% | \$0 | \$0 | \$862,247 | \$0 | \$0 |
| 1703 WWT Holding Ponds - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1712 Floating Aerators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1810 Automated Gate - Replace | \$0 | \$0 | \$0 | \$18,749 | \$0 |

Table 5: 30-Year Income/Expense Detail (yrs 20 through 24)

**27003-0
SEWER**

| Fiscal Year | 2035 | 2036 | 2037 | 2038 | 2039 |
|--|--------------------|--------------------|---------------------|---------------------|---------------------|
| 1864 Fuel Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1904 EQ Basin - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1912 Chem. Storage Tanks - Reline/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2710 Aerator Brush Device - Repl 50% | \$0 | \$0 | \$0 | \$0 | \$137,214 |
| 2711 Aerator Pumps - Repl 50% | \$24,383 | \$0 | \$0 | \$0 | \$0 |
| 2712 Aerator Control Systems - Repl 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| Lift Stations | | | | | |
| 1 Main Lift N - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2 Main Lift N - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 3 Cantova - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4 Cantova - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 5 FAA - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 6 FAA - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 7 6B - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 8 6B - Minor Reconstruction | \$0 | \$0 | \$0 | \$88,811 | \$0 |
| 9 6A - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 10 6A - Minor Reconstruction | \$0 | \$0 | \$0 | \$88,811 | \$0 |
| 11 3B - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 12 3B - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 13 Alameda - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 14 Alameda - Minor Reconstruction | \$27,092 | \$0 | \$0 | \$0 | \$0 |
| 15 Starter Shack- Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 16 Starter Shack- Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 17 Main Lift S - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 18 Main Lift S - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 19 Crest - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 20 Crest - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 21 Greens - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 22 Greens - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 23 Minor Lift Stations - Repair | \$37,928 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$999,683 | \$65,110 | \$969,548 | \$294,064 | \$137,214 |
| Ending Reserve Balance: | \$7,459,341 | \$9,178,182 | \$10,069,409 | \$11,714,971 | \$13,603,700 |

Table 5: 30-Year Income/Expense Detail (yrs 25 through 29)

**27003-0
SEWER**

| Fiscal Year | 2040 | 2041 | 2042 | 2043 | 2044 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| Starting Reserve Balance | \$13,603,700 | \$13,406,062 | \$14,607,843 | \$16,886,447 | \$17,406,506 |
| Annual Reserve Contribution | \$1,970,631 | \$2,044,530 | \$2,121,199 | \$2,200,744 | \$2,283,272 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$134,991 | \$140,010 | \$157,405 | \$171,392 | \$171,194 |
| Total Income | \$15,709,322 | \$15,590,602 | \$16,886,447 | \$19,258,583 | \$19,860,973 |
| # Component | | | | | |
| Sewer | | | | | |
| 336 Mechanical Equipment - Replace | \$0 | \$0 | \$0 | \$0 | \$82,480 |
| 1031 Groundwater Well - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1860 1994 Ford Dump Truck - Replace | \$0 | \$0 | \$0 | \$0 | \$103,689 |
| 1861 2001 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$28,789 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1907 Sewer Jetting Unit - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Waste Water Treatment Facility | | | | | |
| 203 Asphalt - Seal/Repair | \$277,426 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace | \$1,329,549 | \$0 | \$0 | \$0 | \$0 |
| 312 Pumping Stations - Repair | \$0 | \$0 | \$0 | \$800,775 | \$0 |
| 313 Tertiary Effluent - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 336 Air Compressors - Replace | \$75,167 | \$0 | \$0 | \$0 | \$0 |
| 337 Solar Pond Circulator - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 521 Fencing - Replace/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 941 Storage Buildings - Refurbish | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1005 Filtration Valves - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1011 WW Treatment Facility - Rehab | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chemical Storage Room - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Chlorine Contact Tank - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Hydro Tank - Replace | \$0 | \$37,740 | \$0 | \$0 | \$0 |
| 1030 Equip & Devices - Partial Replace | \$206,237 | \$0 | \$0 | \$0 | \$0 |
| 1105 Exterior Surfaces - Repaint | \$0 | \$64,051 | \$0 | \$0 | \$0 |
| 1113 Tertiary Stations - Repair/Repaint | \$0 | \$754,807 | \$0 | \$0 | \$0 |
| 1206 Filters - Replace 33% | \$0 | \$0 | \$0 | \$1,029,567 | \$0 |
| 1703 WWT Holding Ponds - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1712 Floating Aerators - Replace | \$276,379 | \$0 | \$0 | \$0 | \$0 |
| 1810 Automated Gate - Replace | \$0 | \$0 | \$0 | \$21,735 | \$0 |

Table 5: 30-Year Income/Expense Detail (yrs 25 through 29)

**27003-0
SEWER**

| Fiscal Year | 2040 | 2041 | 2042 | 2043 | 2044 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| 1864 Fuel Tank - Replace | \$88,986 | \$0 | \$0 | \$0 | \$0 |
| 1904 EQ Basin - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1912 Chem. Storage Tanks - Reline/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2710 Aerator Brush Device - Repl 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2711 Aerator Pumps - Repl 50% | \$0 | \$29,114 | \$0 | \$0 | \$0 |
| 2712 Aerator Control Systems - Repl 50% | \$20,728 | \$0 | \$0 | \$0 | \$0 |
| Lift Stations | | | | | |
| 1 Main Lift N - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$2,356,566 |
| 2 Main Lift N - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$471,313 |
| 3 Cantova - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 4 Cantova - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 5 FAA - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 6 FAA - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 7 6B - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 8 6B - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 9 6A - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 10 6A - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 11 3B - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 12 3B - Minor Reconstruction | \$0 | \$97,047 | \$0 | \$0 | \$0 |
| 13 Alameda - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 14 Alameda - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 15 Starter Shack- Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 16 Starter Shack- Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 17 Main Lift S - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 18 Main Lift S - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 19 Crest - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 20 Crest - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 21 Greens - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 22 Greens - Minor Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 23 Minor Lift Stations - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$2,303,260 | \$982,759 | \$0 | \$1,852,077 | \$3,014,047 |
| Ending Reserve Balance: | \$13,406,062 | \$14,607,843 | \$16,886,447 | \$17,406,506 | \$16,846,925 |

Accuracy, Limitations, and Disclosures

Because we have no control over future events, we cannot claim that all the events we anticipate will occur as planned. We expect that inflationary trends will continue and we expect that financial institutions will provide interest earnings on funds on-deposit. We believe that reasonable estimates for these figures are much more accurate than ignoring these economic realities. The things we can control are measurements, which we attempt to establish within 5% accuracy. Your starting Reserve Balance and current Reserve interest earnings are also numbers that can be identified with a high degree of certainty. These figures have been provided to us, and were not confirmed by our independent research. Our projections assume a stable economic environment and lack of natural disasters.

Because both the physical status and financial status of the Sewer Department change each year, this Reserve Study is by nature a “one-year” document. This information can and should be adjusted annually as part of the Reserve Study Update process so that more accurate estimates can be reflected in the Sewer Department Reserve plan. Reality often differs from even the best assumptions due to changing economic factors, and physical factors. Because many years of financial preparation help prepare for large expenses, this Report shows expenses for the next 30 years. We fully expect a number of adjustments will be necessary through the interim years to both the cost and timing of distant expense projections. It is our recommendation and that of the American Institute of Certified Public Accountants (AICPA) that your Reserve Study be updated annually.

Association Reserves – SF, LLC, and its employees have no ownership, management, or other business relationships with the client other than this Reserve Study engagement. Derek Eckert, R.S., company president, is a credentialed Reserve Specialist (#114). All work done by Association Reserves is performed under his Responsible Charge. There are no material issues to our knowledge that have not been disclosed to the client that would cause a distortion of the CSD’s situation.

We have relied upon the client to provide the current (or projected) Sewer Department Reserve Balance, the estimated net-after-tax current rate of interest earnings, and to indicate if those earnings accrue to the Sewer Department Reserve Fund. In addition, we have considered the CSD’s representation of current and historical Sewer Department Reserve projects reliable, and we have considered the representations made by its vendors and suppliers to also be accurate and reliable.

Component quantities indicated in this Report were derived from the prior Reserve Study, unless otherwise noted in our “Site Inspection Notes”. No destructive or intrusive testing was performed, nor should the site inspection be assumed to be anything other than for budgeting purposes.

Association Reserves’ liability in any matter involving this Reserve Study is limited to our Fee for services rendered.

Where any uncertainties exist, we urge the CSD to obtain a legal review and written opinion of the legitimacy of the funding policies, as stipulated or permitted under your Declaration and local statutes. As these are legal questions, we highly recommend use of an experienced attorney specializing in CSD law.

Re-use of reserve study, figures or calculations in any other format absolves ARSF of all responsibility.

Terms and Definitions

| | |
|------------|--|
| BTU | British Thermal Unit (a standard unit of energy) |
| DIA | Diameter |
| GSF | Gross Square Feet (area) |
| GSY | Gross Square Yards (area) |
| HP | Horsepower |
| LF | Linear Feet (length) |

Effective Age: The difference between Useful Life and Remaining Useful Life. Note that this is not necessarily equivalent to the chronological age of the component.

Fully Funded Balance (FFB): The Reserve Balance that is in direct proportion to the fraction of life “used up” of the current Repair or Replacement cost. This benchmark balance represents the value of the deterioration of the Reserve Components. This number is calculated for each component, then summed together for an CSD total.

$$\text{FFB} = (\text{Current Cost} \times \text{Effective Age}) / \text{Useful Life}$$

Inflation: Cost factors are adjusted for inflation at the rate defined in the Executive Summary and compounded annually. These increasing costs can be seen as you follow the recurring cycles of a component on Table 5.

Interest: Interest earnings on Reserve Funds are calculated using the average balance for the year (taking into account income and expenses through the year) and compounded monthly using the rate defined in the Executive Summary. Annual interest earning assumption appears in the Executive Summary, page ii.

Percent Funded: The ratio, at a particular point in time (typically the beginning of the Fiscal Year), of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage.

Remaining Useful Life: The estimated time, in years, that a Sewer Department component can be expected to continue to serve its intended function.

Useful Life: The estimated time, in years, that a Sewer Department component can be expected to serve its intended function.

Photographic Inventory Appendix

Client: 27003B RMCS D - Sewer

Comp # : 213 Sewer/Streets - Repair Quantity: Extensive GSF

Location : Throughout District

Funded? : No . Handled out of Operating budget. No Reserve funding necessary.

History :

Evaluation : When the sewer lines underground require replacement or repairs, many time it require the CSD to dig up the streets. It is their requirement to replace/repair the streets after they are done. Handled out of Operating budget. No Reserve funding necessary.

Useful Life:

Remaining Life:



Best Case:

Worst Case:

Cost Source:

Comp # : 336 Mechanical Equipment - Replace Quantity: Various Equipment

Location : Sewer

Funded? : Yes

History :

Evaluation : No expectation replace all at one time. This component provides funding to replace equipment as needed at roughly the interval listed below.

Useful Life:
8 years

Remaining Life:
5 years



Best Case: \$30,000

Worst Case: \$40,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003B RMCS D - Sewer

Comp # : 1000 Van Vleck Sprayfield - Repair

Quantity: Extensive Sprayfield

Location : Van Vleck Sprayfield

Funded? : No . It is too difficult for us to predict the remaining useful life.

History :

Evaluation : We assume this will be a one time project and therefore does not require reserve funding. Update funding as future needs dictate.

Useful Life:

Remaining Life:



Best Case:

Worst Case:

Cost Source:

Comp # : 1031 Groundwater Well - Repair

Quantity: (5) Groundwater Wells

Location : Around WWT Facility

Funded? : Yes

History :

Evaluation : Unable to inspect at the time of the site visit. No issues reported. Testing is performed regularly to ensure that there is no seepage. This component provides funding for repairs at roughly the interval below. Update as future needs dictate.

Useful Life:
40 years

Remaining Life:
20 years



Best Case: \$42,400

Worst Case: \$50,900

Lower allowance to replace/repair

Higher allowance to replace/repair

Cost Source: Client Asset List

Client: 27003B RMCS D - Sewer

Comp # : 1860 1994 Ford Dump Truck - Replace Quantity: (1) Ford F250, V#1665

Location : Sewer

Funded? : Yes

History :

Evaluation : 1994 Ford F250 Dump Truck. Current mileage: 36,447. In fair condition. Lots of rust noted on the interior and exterior of car. Does not seem to be used frequently due to condition and low-mileage. We recommend running the engine on the vehicles periodically to keep in working order.

Useful Life:
25 years

Remaining Life:
4 years



Best Case: \$40,000

Worst Case: \$48,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Comp # : 1861 2001 Ford F250 - Replace Quantity: (1) Ford F250, V#8523

Location : Sewer

Funded? : Yes

History :

Evaluation : 2001 Ford F250 V#8523. Current mileage: 92,362. In fair condition. Dents are noted on the bed of the truck along with rust. Some areas of paint chipping can be seen.

Useful Life:
15 years

Remaining Life:
1 years



Best Case: \$32,000

Worst Case: \$38,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Client: 27003B RMCS D - Sewer

Comp # : 1862 2002 Ford F550 - Replace

Quantity: (1) Ford F550, V#7090

Location : Sewer

Funded? : No . The CSD is planning to sell this vehicle as surplus. No Reserve funding needed.

History :

Evaluation : 2002 Ford F550. In fair to poor condition. The CSD is planning to sell this vehicle as surplus. No Reserve funding needed.

Useful Life:

Remaining Life:



Best Case:

Worst Case:

Cost Source:

Comp # : 1863 2003 Ford F150 - Replace

Quantity: (1) Ford F150, V#1750

Location : Sewer

Funded? : Yes

History :

Evaluation : 2003 Ford F150 STD Cab. Current mileage: 70,240. In good condition. One of the back tires seems to be a little low. We recommend a routine maintenance like tire pressure and break checks to maximize useful life of the vehicle. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
18 years

Remaining Life:
5 years



Best Case: \$25,000

Worst Case: \$29,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Client: 27003B RMCS D - Sewer

Comp # : 1864 2008 Ford F350 - Replace 50%

Quantity: (1) Ford F350, V#0663

Location : Sewer

Funded? : Yes

History :

Evaluation : 2008 Ford F350 STD Cab. Diesel. Current mileage: 47,387. In good condition. 50% of this vehicle is funded out of Sewer and 50% out of Water. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
15 years

Remaining Life:
8 years



Best Case: \$20,000

Worst Case: \$25,000

Lower allowance to replace 50%

Higher allowance to replace 50%

Cost Source: Current MSRP

Comp # : 1865 2010 Ford Ranger - Replace 50%

Quantity: (1) Ford Ranger, V#8210

Location : Sewer

Funded? : Yes

History :

Evaluation : 2010 Ford Ranger. Current mileage: 12,946. 50% of this vehicle is funded out of Sewer and 50% out of Water. In good condition. No signs of dents or scratches. Ford no longer makes the Ranger, so replacement cost is for a comparable size vehicle. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
15 years

Remaining Life:
10 years



Best Case: \$12,500

Worst Case: \$15,000

Lower allowance to replace 50%

Higher allowance to replace 50%

Cost Source: Current MSRP

Association Reserves -SF, LLC

Component Details

Client: 27003B RMCS D - Sewer

Comp # : 1902 Pipeline (Airport) - Replace 25%

Quantity: Approx 3,500 LF X 25%

Location : Airport

Funded? : Yes

History : Installed approx 1982.

Evaluation : This component provides funding to replace the sewer pipeline running to the Airport. Update timing and cost as needed.

Useful Life:
30 years

Remaining Life:
0 years

Photo Not Available

Best Case: \$43,400

Worst Case: \$52,500

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Comp # : 1902 Pipeline (Alameda) - Replace 25%

Quantity: Approx 3,750 LF X 25%

Location : Alameda

Funded? : Yes

History : Installed approx 1974

Evaluation : This component provides funding to replace the Alameda Drive sewer pipeline. Update timing and cost as needed.

Useful Life:
30 years

Remaining Life:
0 years

Photo Not Available

Best Case: \$46,500

Worst Case: \$56,200

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003B RMCS D - Sewer

Comp # : 1902 Pipeline (MH Park) - Replace

Quantity: Approx 11,250 LF

Location : Commercial - Mobile Home Park

Funded? : Yes

History : Original, Installed 1970.

Evaluation : Sewer pipes running to the Mobile Home Park are clay. Pipeline is in need of replacement in the near future. The CSD is deciding whether or not to repair/partially replace or abandon in place and install a completely new pipeline. This component provides funding to the replace the sewer lines running to Mobile Home Park at roughly the interval below. Update funding as future needs dictate.

Useful Life:

45 years

Remaining Life:

0 years

Photo Not Available

Best Case: \$697,500

Worst Case: \$843,700

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 1902 Pipelines (N. Unit 1) - Replace 25%

Quantity: Approx 19,200 LF X 25%

Location : Units 1-4 of RMCS D

Funded? : Yes

History : Installed 1974.

Evaluation : This component provides funding to replace the sewer pipeline running to Unit No. 1. Update timing and cost as needed.

Useful Life:

30 years

Remaining Life:

0 years

Photo Not Available

Best Case: \$238,000

Worst Case: \$288,000

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003B RMCS D - Sewer

Comp # : 1902 Pipelines (N. Units 2-4) - Repl 25%

Quantity: Approx 69,000 LF X 25%

Location : North Side Units 1-4 of RMCS D

Funded? : Yes

History : Installed between 1979-1982.

Evaluation : This component provides funding to replace the sewer pipeline running to Units 2-4. Update timing and cost as needed.

Useful Life:
30 years

Remaining Life:
0 years

Photo Not Available

Best Case: \$855,600

Worst Case: \$1,035,000

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Comp # : 1902 Pipelines (RM South) - Replace 25%

Quantity: Approx 25,500 LF X 25%

Location : Rancho Murieta South

Funded? : Yes

History : Installed between 1990-1992.

Evaluation : This component provides funding to replace the sewer pipeline running to Rancho Murieta South Units; 1A/B, 2A/B, 3, 4, 5, 6. Update timing and cost as needed.

Useful Life:
30 years

Remaining Life:
6 years

Photo Not Available

Best Case: \$316,200

Worst Case: \$382,500

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003B RMCS D - Sewer

Comp # : 1902 Pipelines (South 7&8) - Replace 25% Quantity: Approx 6,500 LF X 25%

Location : Rancho Murieta South - Units 7 & 8

Funded? : Yes

History : Installed between 1999-2001.

Evaluation : This component provides funding to replace the sewer pipeline running to Rancho Murieta South Units 7 & 8.
Update timing and cost as needed.

Useful Life:
30 years

Remaining Life:
15 years

Photo Not Available

Best Case: \$80,600

Worst Case: \$97,500

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Comp # : 1902 Pipelines (South Newest) - Repl 25% Quantity: Approx 11,000 LF X 25%

Location : Rancho Murieta South - Unit 9 , Crest & Greens

Funded? : Yes

History : Installed between 2002-2004.

Evaluation : This component provides funding to replace the sewer pipeline running to Rancho Murieta South; Unit 9 , Crest & Greens. Update timing and cost as needed.

Useful Life:
30 years

Remaining Life:
18 years

Photo Not Available

Best Case: \$136,400

Worst Case: \$165,000

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003B RMCS D - Sewer

Comp # : 1902 Pipelines (Unit 6) - Repl 25%

Quantity: Approx 10,100 LF X 25%

Location : Rancho Murieta North - Unit 6

Funded? : Yes

History :

Evaluation : This component provides funding to replace the water pipeline running to Rancho Murieta North, Unit 6. 5,600' of 14", 5,650' of 8", and 550' of 6" of class 150 C900 pipe. Update timing and cost as needed.

Useful Life:

30 years

Remaining Life:

2 years

Photo Not Available

Best Case: \$125,150

Worst Case: \$150,200

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Comp # : 1907 Sewer Jetting Unit - Replace

Quantity: Sewer Jetting Equipment

Location : Sewer

Funded? : Yes

History :

Evaluation : This component provides funding to replace the sewer jetting unit at roughly the interval below. Update timing and cost as future needs dictate.

Useful Life:

20 years

Remaining Life:

10 years

Photo Not Available

Best Case: \$43,000

Worst Case: \$53,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Client Asset List

Client: 27003B2 RMCS D - WWT Facility

Comp # : 203 Asphalt - Seal/Repair

Quantity: Approx 246,650 GSF

Location : WWT Facility

Funded? : Yes

History :

Evaluation : We recommend having surface sealed and repaired regularly for maximum design life. Even with ordinary care and maintenance, plan for eventual large scale resurface at roughly the time frame below.

Useful Life:
10 years

Remaining Life:
5 years



Best Case: \$120,000

Worst Case: \$145,000

Lower allowance to seal/repair

Higher allowance to seal/repair

Cost Source: ARSF Cost Database

Comp # : 302 Generators - Replace

Quantity: Generators

Location : WWT Facility

Funded? : Yes

History :

Evaluation : In good condition. No issues reported at the time of site visit. Provide regularly inspection and maintenance. We recommend setting aside funding for replacement at roughly the interval below. Update timing and cost as future needs dictate.

Useful Life:
50 years

Remaining Life:
25 years



Best Case: \$550,000

Worst Case: \$720,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003B2 RMCS D - WWT Facility

Comp # : 312 Pumping Stations - Repair

Quantity: (3) Pump Stations

Location : WWT Facility

Funded? : Yes

History :

Evaluation : There are (3) Pump stations, (9) pumps, located at the WWT Facility; Tertiary Pump Station, Backwash Pumps, Reclaimed Water Pumps, This component provides funding for periodic repairs to pumps and controls as needed at roughly the interval below.

Useful Life:
8 years

Remaining Life:
4 years



Best Case: \$300,000

Worst Case: \$400,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Comp # : 313 Tertiary Effluent - Replace

Quantity: Filtered Tert. Effluent

Location : Effluent Into EQ Basin

Funded? : Yes

History :

Evaluation : Filtered Tertiary Effluent into Equalization Basin. Effluent appeared to be in good condition and functional during our site inspection. This component provides funding for replacement at roughly the interval below. Update as future needs dictate.

Useful Life:
15 years

Remaining Life:
5 years



Best Case: \$20,000

Worst Case: \$30,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003B2 RMCS D - WWT Facility

Comp # : 336 Air Compressors - Replace

Quantity: (4) Air Compressors

Location : Throughout District

Funded? : Yes

History :

Evaluation : No issues reported. This component provides funding to replace air compressors at roughly the interval below.
Update timing and cost as future needs dictate.

Useful Life:
10 years

Remaining Life:
5 years



Best Case: \$29,900

Worst Case: \$41,900

Lower allowance to replace

Higher allowance to replace

Cost Source: Client Asset List

Comp # : 337 Solar Pond Circulator - Replace

Quantity: (1) Solar Pond Circulator

Location : WWT Facility - Pond 4

Funded? : Yes

History :

Evaluation : Unable to inspect closely. Assume functional. Due to technology, we recommend replacement of the pond circulators at roughly the interval below. Update as future needs dictate.

Useful Life:
10 years

Remaining Life:
2 years



Best Case: \$51,000

Worst Case: \$61,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Client Cost History

Client: 27003B2 RMCS D - WWT Facility

Comp # : 521 Fencing - Replace/Repair

Quantity: Approx 4,900 LF

Location : Perimeter of WWT Facility

Funded? : Yes

History :

Evaluation : Fencing surrounds the WWT Facility with (1) vehicle entrance gate operated by a barcode reader system. Fencing is in good condition with no major damage or gaps noted. Plan for repairs/ partial replacement at roughly the interval below.

Useful Life:
25 years

Remaining Life:
10 years



Best Case: \$88,200

Worst Case: \$107,800

Lower allowance to replace/repair

Higher allowance to replace/repair

Cost Source: ARSF Cost Database

Comp # : 941 Storage Buildings - Refurbish

Quantity: Approx 7,730 GSF

Location : WWT Facility

Funded? : Yes

History :

Evaluation : (2) Storage buildings in the WWT Facility. One enclosed storage building and one open-air storage shed structure. No expectation to replace either building completely. This component provides funding for general refurbishment at roughly the interval below.

Useful Life:
30 years

Remaining Life:
10 years



Best Case: \$240,000

Worst Case: \$290,000

Lower allowance to refurbish

Higher allowance to refurbish

Cost Source: ARSF Cost Database

Client: 27003B2 RMCS D - WWT Facility

Comp # : 1005 Filtration Valves - Replace

Quantity: (3) Filtration Valves

Location : WWT Facility

Funded? : Yes

History :

Evaluation : No problems reported at the time of site visit. This component provides funding to replace the valves at roughly the interval below. Update timing and funding as future needs dictate.

Useful Life:
30 years

Remaining Life:
20 years

Photo Not Available

Best Case: \$74,900
Lower allowance to replace

Worst Case: \$89,800
Higher allowance to replace

Cost Source: Client Cost History

Comp # : 1011 WW Treatment Facility - Rehab

Quantity: WW Treatment Facility

Location : WWT Facility

Funded? : Yes

History :

Evaluation : WWT Facility main building & equipment is in good condition. No expectation to replace. This component provides funding for periodic upgrades, repairs and improvements to the building, technology & equipment located at the WWT Facility.

Useful Life:
40 years

Remaining Life:
15 years



Best Case: \$2,800,000
Lower allowance to rehab

Worst Case: \$4,000,000
Higher allowance to rehab

Cost Source: ARSF Cost Database

Client: 27003B2 RMCS D - WWT Facility

Comp # : 1015 Chemical Storage Room - Repair

Quantity: (1) Chem. Storage Room

Location : WWT Facility

Funded? : Yes

History :

Evaluation : Chemical storage facility holds various tanks, containers and equipment for the chemicals used for treatment at the Waste Water Treatment Facility. The storage room is good condition. All materials are secured in the locked facility. This component provides funding to repair the room and chemical connections as needed.

Useful Life:
30 years

Remaining Life:
10 years



Best Case: \$16,000

Worst Case: \$19,200

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Comp # : 1015 Chlorine Contact Tank - Repair

Quantity: (1) Tank

Location : WWT Facility

Funded? : Yes

History :

Evaluation : No expectation to replace completely. This component provides funding for periodic repairs as needed due to prolonged, direct exposure to chemicals. Update timing and cost as future needs dictate.

Useful Life:
40 years

Remaining Life:
15 years



Best Case: \$20,000

Worst Case: \$30,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Client: 27003B2 RMCS D - WWT Facility

Comp # : 1015 Hydro Tank - Replace

Quantity: (1) Saturation Vessel

Location : WWT Facility

Funded? : Yes

History : Replaced in 2011.

Evaluation : Air saturation tank was replaced in 2011 due to corrosion. This component provides funding to replace the tank at roughly the interval below. Update funding and timing as future needs dictate.

Useful Life:
30 years

Remaining Life:
26 years



Best Case: \$15,000

Worst Case: \$20,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 1030 Equip & Devices - Partial Replace

Quantity: Reading Devices/Equipment

Location : WWT Facility

Funded? : Yes

History :

Evaluation : The Waste Water Treatment Facility office requires numerous reading devices, equipment, meters, recorders, etc. Association with operating the Facility. This component provides general funding to replace the necessary equipment at roughly the interval below. Update timing and funding as future needs dictate.

Useful Life:
10 years

Remaining Life:
5 years



Best Case: \$72,000

Worst Case: \$125,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003B2 RMCS D - WWT Facility

Comp # : 1105 Exterior Surfaces - Repaint

Quantity: Approx 2,000 GSF

Location : WWT Facility

Funded? : Yes

History : Repainted in 2011.

Evaluation : No significant chipping or peeling. The exterior surfaces are in fair condition at this time. We recommend repainting every 12-15 years to maintain the appearance of the facility and to protect exterior surfaces.

Useful Life:
15 years

Remaining Life:
11 years



Best Case: \$27,000
Lower allowance to paint

Worst Case: \$32,400
Higher allowance to paint

Cost Source: ARSF Cost Database

Comp # : 1113 Tertiary Stations - Repair/Repaint

Quantity: (2) Tertiary Treatment St

Location : WWT Facility

Funded? : Yes

History : Repaired and painted in 2011.

Evaluation : This component includes repairs as well as repainting & coating the stations. Stations are in good condition. No corrosion or damage noted. Plan to repair and repaint/recoat at roughly the interval listed below. Update as future needs dictate.

Useful Life:
15 years

Remaining Life:
11 years



Best Case: \$300,000
Lower allowance to repair/repaint

Worst Case: \$400,000
Higher allowance to repair/repaint

Cost Source: ARSF Cost Database

Client: 27003B2 RMCS D - WWT Facility

Comp # : 1206 Filters - Replace 33% Quantity: (6) Filters
 Location : (3) Filters Per Station - (2) Stations at WWT Facility
 Funded? : Yes

History :

Evaluation : This component provides funding to replace (2) of (6) filters every 6 years. Update funding and timing as future needs dictate.

Useful Life:
6 years

Remaining Life:
4 years



Best Case: \$400,000

Worst Case: \$500,000

Lower allowance to replace 2 filters

Higher allowance to replace 2 filters

Cost Source: ARSF Cost Database

Comp # : 1703 WWT Holding Ponds - Repair Quantity: Approx 1,567,120 GSF
 Location : WWT Facility
 Funded? : Yes

History :

Evaluation : (4) Ponds, (2) Reservoirs. Approx 364,765 GSF - Ponds. EQ Basin is funded separately in Comp #1904. Approx 1,202,355 GSF of Reservoir. A series of (5) ponds treats wastewater daily. Wastewater is moved from one pond to the next in order of treatment. Treated wastewater is then stored in (2) reservoirs until needed for reclamation use by RMCC during summer months. No expectation for replacement. This component provides funding for periodic repairs for the ponds as needed.

Useful Life:
30 years

Remaining Life:
10 years



Best Case: \$50,000

Worst Case: \$60,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Client: 27003B2 RMCS D - WWT Facility

Comp # : 1712 Floating Aerators - Replace Quantity: (10) Floating Aerators
Location : WWT Facility - (3) Pond 1, (1) Pond 2, (2) Each in Ponds 3, 4 & 5
Funded? : Yes

History :

Evaluation : Unable to closely inspect the pond evaporators at the time of site visit. Assume functional. This component provides funding for replacement at roughly the interval below. Update timing and cost as future needs dictate.

Useful Life:
10 years

Remaining Life:
5 years



Best Case: \$120,000
Lower allowance to replace

Worst Case: \$144,000
Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 1810 Automated Gate - Replace Quantity: (1) Automated Gate
Location : WWT Facility Entrance Gate
Funded? : Yes

History :

Evaluation : Technology like barcode reading equipment has a relatively short useful life (depending on the application and level of use) due to advancements in technology. Plan to replace/upgrade the existing equipment at the approximate interval shown here to ensure proper function and uninterrupted service. Keep track of any partial replacements and include cost history during future Reserve Study updates.

Useful Life:
5 years

Remaining Life:
3 years



Best Case: \$8,500
Lower allowance to replace

Worst Case: \$10,500
Higher allowance to replace

Cost Source: Client Asset List

Client: 27003B2 RMCS D - WWT Facility

Comp # : 1864 Fuel Tank - Replace

Quantity: Fuel Tank

Location : WWT Facility

Funded? : Yes

History :

Evaluation : No problems reported at the time of site visit. Appears to be in good condition with no rusting or leaking noted. This component provides funding for disposal and replacement of the fuel tank at roughly the interval listed below. Update timing and cost as future needs dictate.

Useful Life:
30 years

Remaining Life:
25 years



Best Case: \$35,000

Worst Case: \$50,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 1904 EQ Basin - Repair

Quantity: Approx 48,000 GSF

Location : WWT Facility

Funded? : Yes

History :

Evaluation : No leaks or cracking noted. Basin appears to be in good condition. This component provides funding to repair the EQ Basin structure and tubing as needed at roughly the interval below. Update timing and cost as future needs dictate.

Useful Life:
30 years

Remaining Life:
15 years



Best Case: \$150,000

Worst Case: \$190,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Client: 27003B2 RMCS D - WWT Facility

Comp # : 1912 Chem. Storage Tanks - Reline/Repair Quantity: (3) Storage Containers

Location : WWT Facility

Funded? : Yes

History :

Evaluation : No leaks or major issues noted. No expectation to fully replace the storage bunkers. This component provides funding to reline and/or repair at roughly the interval below. Update timing and cost as future needs dictate.

Useful Life:
30 years

Remaining Life:
15 years



Best Case: \$120,000

Worst Case: \$200,000

Lower allowance to reline/repair

Higher allowance to reline/repair

Cost Source: ARSF Cost Database

Comp # : 2710 Aerator Brush Device - Repl 50% Quantity: (5) Aerated Brush

Location : WWT Facility - (2) Pond 1, (2) Pond 2, and (1) Pond 3

Funded? : Yes

History :

Evaluation : Some aerator brushes appear to be in better/new condition than others. Some show signs of significant build-up. Reported that at least one was replaced in recent years. For budgeting purposes we have anticipated the need to replace 2-3 of the 5 every 20 years.

Useful Life:
20 years

Remaining Life:
4 years



Best Case: \$60,000

Worst Case: \$75,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003B2 RMCS D - WWT Facility

Comp # : 2711 Aerator Pumps - Repl 50%

Quantity: (4) Pumps, 10hp

Location : WWT Facility

Funded? : Yes

History :

Evaluation : Several pumps have been replaced in recent years. We recommend funding to replace 2 of the 4 pumps every 6 years.

Useful Life:
6 years

Remaining Life:
2 years



Best Case: \$12,500

Worst Case: \$14,500

Lower allowance to replace

Higher allowance to replace

Cost Source: Client Cost History

Comp # : 2712 Aerator Control Systems - Repl 50%

Quantity: (2) Aerator Controls

Location : WWT Facility

Funded? : Yes

History :

Evaluation : No expectation to replace all controllers at anyone time. This component provides funding to replace 1 every 10-yrs. Update timing and cost as future needs dictate.

Useful Life:
10 years

Remaining Life:
5 years

Photo Not Available

Best Case: \$9,000

Worst Case: \$10,800

Lower allowance to repair/replace

Higher allowance to repair/replace

Cost Source: Client Cost History

Client: 27003B3 RMCS D - Lift Stations

Comp # : 1 Main Lift N - Major Reconstruction Quantity: (1) Sewer Lift Station
 Location : Near Gas Station and Fire House
 Funded? : Yes

History : Rebuilt in 2014.

Evaluation : Main Lift North (MLN). 12" Force Main of approx 7,067LF. Lift Station pumps directly to the Wastewater Facility. Average monthly flow of 345,000 gallons per day. Control panels enclosed inside locked, protected building. (1) Air scrubber, (2) Wet well, (2) Influent wet well grinders, sewage pumps, motor control center, back up generator, and above ground fuel storage tank. This component provides funding for major reconstruction to the lift station every 30 years.

Useful Life:
30 years

Remaining Life:
29 years



Best Case: \$550,000

Worst Case: \$1,450,000

Lower allowance for major reconstruction

Higher allowance for major reconstruction

Cost Source: Client Cost History

Comp # : 2 Main Lift N - Minor Reconstruction Quantity: (1) Sewer Lift Station
 Location : Near Gas Station and Fire House
 Funded? : Yes

History : Rebuilt in 2014.

Evaluation : Main Lift North (MLN). 12" Force Main of approx 7,067LF. Lift Station pumps directly to the Wastewater Facility. Average monthly flow of 345,000 gallons per day. Control panels enclosed inside locked, protected building. (1) Air scrubber, (2) Wet well, (2) Influent wet well grinders, sewage pumps, motor control center, back up generator. This component provides funding for minor reconstruction, including repair/replacement of pumps every 15 years.

Useful Life:
15 years

Remaining Life:
14 years



Best Case: \$150,000

Worst Case: \$250,000

Lower allowance for minor reconstruction

Higher allowance for minor reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 3 Cantova - Major Reconstruction
Location : Murieta Drive at Cantova Way - Near Airport
Funded? : Yes

Quantity: (1) Sewer Lift Station

History : Built approx 1987.

Evaluation : The Cantova sewage lift station serves to pump sewage to Main Lift North. There is one 6" gravity sanitary sewer inlet from the rear of the mobile home park and one 10" gravity sewer from Cantova Way. The Airport's pump station and the FAA lift station both pump into the Cantova pump station. Station has a 4" Force Main with approx 2,488 LF of piping. Equipment includes; (2) 5HP submersible, clog-free centrifugal sewage pumps; Tesco L2000 control panel, Microtel auto-dialer, submersed concrete weighted bubbler bell, 116 HP diesel generator, and a 59 gallon diesel storage tank mounted under the generator. This component provides funding for major reconstruction to the lift station every 30 years.

Useful Life:
30 years

Remaining Life:
2 years



Best Case: \$120,000

Worst Case: \$165,000

Lower allowance for major reconstruction

Higher allowance for major reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 4 Cantova - Minor Reconstruction

Quantity: (1) Sewer Lift Station

Location : Murieta Drive at Cantova Way - Near Airport

Funded? : Yes

History : Built approx 1987.

Evaluation : The Cantova sewage lift station serves to pump sewage to Main Lift North. There is one 6" gravity sanitary sewer inlet from the rear of the mobile home park and one 10" gravity sewer from Cantova Way. The Airport's pump station and the FAA lift station both pump into the Cantova pump station. Station has a 4" Force Main with approx 2,488 LF of piping. Equipment includes; (2) 5HP submersible, clog-free centrifugal sewage pumps; Tesco L2000 control panel, Microtel auto-dialer, submersed concrete weighted bubbler bell, 116 HP diesel generator, and a 59 gallon diesel storage tank mounted under the generator. This component provides funding for minor reconstruction, including repair/replacement of pumps and stainless steel guide rails every 15 years.

Useful Life:
15 years

Remaining Life:
2 years



Best Case: \$40,000

Worst Case: \$75,000

Lower allowance for minor reconstruction

Higher allowance for minor reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 5 FAA - Major Reconstruction Quantity: (1) Sewer Lift Station
Location : Cantova Way Near Baseball Diamond
Funded? : Yes

History :

Evaluation : The FAA Lift Station is a dual-function facility. The station serves to pump sewage to the Cantova Lift Station and to pump storm water runoff from the Cantova Way Business Park area over the levee into the local farm diversion ditch. The station has a 4" Force Main with approx 740LF of piping. Equipment includes; (2) 5 hp submersible, centrifugal sewage pumps; wet well; Tesco Liq. IV control panel, and Microtel auto-dialer. No fuel tank at the station. Generator is brought from Cantova as needed. This component provides funding for major reconstruction to the lift station every 30 years.

Useful Life:
30 years

Remaining Life:
4 years



Best Case: \$40,000

Worst Case: \$70,000

Lower allowance for major reconstruction

Higher allowance for major reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 6 FAA - Minor Reconstruction

Quantity: (1) Sewer/Stormwater Lift

Location : Cantova Way Near Baseball Diamond

Funded? : Yes

History :

Evaluation : The FAA Lift Station is a dual-function facility. The station serves to pump sewage to the Cantova Lift Station and to pump storm water runoff from the Cantova Way Business Park area over the levee into the local farm diversion ditch. The station has a 4" Force Main with approx 740LF of piping. Equipment includes; (2) 5 hp submersible, centrifugal sewage pumps; Tesco Liq. IV control panel, and Microtel auto-dialer. No fuel tank at the station. Generator is brought from Cantova as needed. This component provides funding for minor reconstruction, including repair/replacement of pumps and stainless steel guide rails every 15 years.

Useful Life:
15 years

Remaining Life:
4 years



Best Case: \$25,000

Worst Case: \$35,000

Lower allowance for minor reconstruction

Higher allowance for minor reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 7 6B - Major Reconstruction Quantity: (1) Sewer Lift Station
Location : On Golf Course, North Side of River, Near Granlees Estate
Funded? : Yes

History :

Evaluation : The 6-B Lift Station is a single function sewage pumping facility. Station has (2) Force Mains, 10" and 4" of approx 3,005LF each. Force main pump station feeding directly to the Wastewater plant. Average flow is 17,000 gallons a day. Equipment includes; (2) 5HP submersible sewage pumps; 6" Sparling magnetic flow meter; (2) sewage grinders; Tesco Liq. IV control panel, and a Sensaphone II auto-dialer. Automated generator back-up power through propane generator, which is shared with 6A. No fuel tank on site. This component provides funding for major reconstruction to the lift station every 30 years.

Useful Life:
30 years

Remaining Life:
8 years



Best Case: \$120,000

Worst Case: \$189,000

Lower allowance for major reconstruction

Higher allowance for major reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 8 6B - Minor Reconstruction Quantity: (1) Sewer Lift Station
 Location : On Golf Course, North Side of River, Near Granlees Estate
 Funded? : Yes

History :

Evaluation : The 6-B Lift Station is a single function sewage pumping facility. Station has (2) Force Mains, 10" and 4" of approx 3,005LF each. Force main pump station feeding directly to the Wastewater plant. Average flow is 17,000 gallons a day. Equipment includes; (2) 5HP submersible sewage pumps; 6" Sparling magnetic flow meter; (2) sewage grinders; Tesco Liq. IV control panel, and a Sensaphone II auto-dialer. Automated generator back-up power through propane generator, which is shared with 6A. No fuel tank on site. This component provides funding for minor reconstruction, including repair/replacement of pumps and stainless steel guide rails every 15 years.

Useful Life:
15 years

Remaining Life:
8 years



Best Case: \$40,000

Worst Case: \$50,000

Lower allowance for minor reconstruction

Higher allowance for minor reconstruction

Cost Source: ARSF Cost Database

Comp # : 9 6A - Major Reconstruction Quantity: (1) Sewer Lift Station
 Location : Near End of De La Cruz Way, on Golf Course
 Funded? : Yes

History :

Evaluation : The 6-A Lift Station is a single function sewage pumping facility. Station has (1) 4" Force Main with approx 1,690 LF of piping. Equipment includes; (2) 5HP submersible pumps; Tesco Liq. IV control panel, and a portable generator, which is shared with 6B. No fuel tank on site. This component provides funding for major reconstruction to the lift station every 30 years.

Useful Life:
30 years

Remaining Life:
8 years

Photo Not Available

Best Case: \$120,000

Worst Case: \$145,000

Lower allowance for major reconstruction

Higher allowance for major reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 10 6A - Minor Reconstruction Quantity: (1) Sewer Lift Station

Location : Near End of De La Cruz Way, on Golf Course

Funded? : Yes

History :

Evaluation : The 6-A Lift Station is a single function sewage pumping facility. Station has (1) 4" Force Main with approx 1,690 LF of piping. Equipment includes; (2) 5HP submersible pumps; Tesco Liq. IV control panel, and a portable generator, which is shared with 6B. No fuel tank on site. This component provides funding for minor reconstruction, including repair/replacement of pumps and stainless steel guide rails every 15 years.

Useful Life:
15 years

Remaining Life:
8 years

Photo Not Available

Best Case: \$40,000

Lower allowance for minor reconstruction

Worst Case: \$50,000

Higher allowance for minor reconstruction

Cost Source: ARSF Cost Database

Comp # : 11 3B - Major Reconstruction Quantity: (1) Sewer Lift Station

Location : Camino De Lago at Clemntia Cir, Near Lake Chesbro

Funded? : Yes

History :

Evaluation : The 3-B Lift Station is a single function sewage pumping facility. Station has (1) 4" Force Main with approx 390 LF of piping. Equipment includes; (2) 2HP submersible pumps. This component provides funding for major reconstruction to the lift station every 30 years.

Useful Life:
30 years

Remaining Life:
11 years



Best Case: \$120,000

Lower allowance for major reconstruction

Worst Case: \$145,000

Higher allowance for major reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 12 3B - Minor Reconstruction Quantity: (1) Sewer Lift Station

Location : Camino De Lago at Clemntia Cir, Near Lake Chesbro

Funded? : Yes

History :

Evaluation : The 3-B Lift Station is a single function sewage pumping facility. Station has (1) 4" Force Main with approx 390 LF of piping. Equipment includes; (2) 2HP submersible pumps. This component provides funding for minor reconstruction, including repair/replacement of pumps and stainless steel guide rails every 15 years.

Useful Life:
15 years

Remaining Life:
11 years



Best Case: \$40,000

Worst Case: \$50,000

Lower allowance for minor reconstruction

Higher allowance for minor reconstruction

Cost Source: ARSF Cost Database

Comp # : 13 Alameda - Major Reconstruction Quantity: (1) Sewer Lift Station

Location : On Golf Course, Near Clubhouse

Funded? : Yes

History :

Evaluation : The Alameda Lift Station is a single function sewage pumping facility. Station has (1) 4" Force Main with approx 464 LF of piping. This component provides funding for major reconstruction to the lift station every 30 years.

Useful Life:
30 years

Remaining Life:
5 years



Best Case: \$50,000

Worst Case: \$70,000

Lower allowance for major reconstruction

Higher allowance for major reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 14 Alameda - Minor Reconstruction Quantity: (1) Sewer Lift Station
Location : On Golf Course, Near Clubhouse
Funded? : Yes

History :

Evaluation : The Alameda Lift Station is a single function sewage pumping facility. Station has (1) 4" Force Main with approx 464 LF of piping. This component provides funding for minor reconstruction, including repair/replacement of pumps and stainless steel guide rails every 15 years.

Useful Life:
15 years

Remaining Life:
5 years



Best Case: \$10,000

Worst Case: \$20,000

Lower allowance for minor reconstruction

Higher allowance for minor reconstruction

Cost Source: ARSF Cost Database

Comp # : 15 Starter Shack- Major Reconstruction Quantity: (1) Sewer Lift Station
Location : Off Hwy 16 on South Side of River
Funded? : Yes

History :

Evaluation : The Starter Shack Lift Station is a single function sewage pumping facility. Station has (1) 2" Force Main with approx 18 LF of piping. This component provides funding for major reconstruction to the lift station every 30 years.

Useful Life:
30 years

Remaining Life:
3 years



Best Case: \$50,000

Worst Case: \$70,000

Lower allowance for major reconstruction

Higher allowance for major reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 16 Starter Shack- Minor Reconstruction Quantity: (1) Sewer Lift Station
Location : Off Hwy 16 on South Side of River
Funded? : Yes

History :

Evaluation : The Starter Shack Lift Station is a single function sewage pumping facility. Station has (1) 2" Force Main with approx 18 LF of piping. This component provides funding for minor reconstruction, including repair/replacement of pumps and stainless steel guide rails every 15 years.

Useful Life:
15 years

Remaining Life:
3 years



Best Case: \$10,000

Worst Case: \$20,000

Lower allowance for minor reconstruction

Higher allowance for minor reconstruction

Cost Source: ARSF Cost Database

Comp # : 17 Main Lift S - Major Reconstruction Quantity: (1) Sewer/Stormwater Lift
Location : On Golf Course, South side of River Near Reynosa Dr
Funded? : Yes

History :

Evaluation : The Main Lift South Lift Station has (1) 10" Force Main with approx 3,005LF of piping. Lift Station pumps directly to the Wastewater facility. Average monthly flow of 140,000 gallons per day. Equipment includes; control panels, motor control center, PLC & Meter readouts, (1) backup generator, (2) sewage grinders, (3) sewage pumps, and (1) above ground 2,000 gallon diesel storage tank. This component provides funding for major reconstruction to the lift station every 30 years.

Useful Life:
30 years

Remaining Life:
4 years



Best Case: \$450,000

Worst Case: \$750,000

Lower allowance for major reconstruction

Higher allowance for major reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 18 Main Lift S - Minor Reconstruction Quantity: (1) Sewer/Stormwater Lift

Location : On Golf Course, South Side of River Near Reynosa Dr

Funded? : Yes

History :

Evaluation : The Main Lift South Lift Station is a dual-function facility. Station has (1) 10" Force Main with approx 3,005LF of piping. Lift Station pumps directly to the Wastewater facility. Average monthly flow of 140,000 gallons per day. Equipment includes; control panels, motor control center, PLC & Meter readouts, (1) backup generator, (2) sewage grinders, (3) sewage pumps, and (1) above ground 2,000 gallon diesel storage tank. This component provides funding for minor reconstruction, including repair/replacement of pumps and stainless steel guide rails every 15 years.

Useful Life:
15 years

Remaining Life:
4 years



Best Case: \$150,000

Worst Case: \$190,000

Lower allowance for minor reconstruction

Higher allowance for minor reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 19 Crest - Major Reconstruction

Quantity: (1) Sewer Lift Station

Location : On Golf Course, Near Lake #10

Funded? : Yes

History : Built approx 2002.

Evaluation : The Crest sewage lift station serves to pump sewage to Main Lift South. The pump station has (2) 8" sanitary sewer inlets and (1) 6" force main that runs up Murieta South parkway ultimately into Main Lift South with approx 1,490LF of piping. Equipment includes; (2) 10HP submersible pumps; a Tesco L2000 controller; a Cummins transfer switch; Microtel DialStat auto-dialer; a 6" Sparling magnetic flow meter; a 68hp diesel generator; and a 113 Gallon Fuel Tank. This component provides funding for major reconstruction to the lift station every 30 years.

Useful Life:
30 years

Remaining Life:
17 years



Best Case: \$250,000

Worst Case: \$350,000

Lower allowance for major reconstruction

Higher allowance for major reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 20 Crest - Minor Reconstruction Quantity: (1) Sewer Lift Station
 Location : On Golf Course, Near Lake #10
 Funded? : Yes

History : Built approx 2002.

Evaluation : The Crest sewage lift station serves to pump sewage to Main Lift South. The pump station has (2) 8" sanitary sewer inlets and (1) 6" force main that runs up Murieta South parkway ultimately into Main Lift South with approx 1,490LF of piping. Equipment includes; (2) 10HP submersible pumps; a Tesco L2000 controller; a Cummins transfer switch; Microtel DialStat auto-dialer; a 6" Sparling magnetic flow meter; a 68hp diesel generator; and a 113 Gallon Fuel Tank. This component provides funding for minor reconstruction, including repair/replacement of pumps and stainless steel guide rails every 15 years.

Useful Life:
15 years

Remaining Life:
2 years



Best Case: \$40,000

Lower allowance for minor reconstruction

Worst Case: \$50,000

Higher allowance for minor reconstruction

Cost Source: ARSF Cost Database

Comp # : 21 Greens - Major Reconstruction Quantity: (1) Sewer Lift Station
 Location : At End of Bent Grass Court
 Funded? : Yes

History : Built approx 2001.

Evaluation : The Greens sewage lift station serves to pump sewage to Main Lift South. Station has (1) 6" inch sanitary sewer inlets and (1) 4" force main that runs up Bent Grass Court, north on Colbert Drive and ultimately flows into Main Lift South with approx 670LF of piping. Equipment includes; (2) 3HP submersible pumps; Tesco L2000 controller, a Cummins transfer switch; a Sensaphone auto-dialer; 24.3 HP diesel generator; and a 106 gallon diesel storage tank. This component provides funding for major reconstruction to the lift station every 30 years.

Useful Life:
30 years

Remaining Life:
16 years



Best Case: \$90,000

Lower allowance for major reconstruction

Worst Case: \$110,000

Higher allowance for major reconstruction

Cost Source: ARSF Cost Database

Client: 27003B3 RMCS D - Lift Stations

Comp # : 22 Greens - Minor Reconstruction Quantity: (1) Sewer Lift Station

Location : At End of Bent Grass Court

Funded? : Yes

History : Built approx 2001.

Evaluation : The Greens sewage lift station serves to pump sewage to Main Lift South. Station has (1) 6" inch sanitary sewer inlets and (1) 4" force main that runs up Bent Grass Court, north on Colbert Drive and ultimately flows into Main Lift South with approx 670LF of piping. Equipment includes; (2) 3HP submersible pumps; Tesco L2000 controller, a Cummins transfer switch; a Sensaphone auto-dialer; 24.3 HP diesel generator; and a 106 gallon diesel storage tank. This component provides funding for minor reconstruction, including repair/replacement of pumps and stainless steel guide rails every 15 years.

Useful Life:
15 years

Remaining Life:
1 years



Best Case: \$30,000

Worst Case: \$40,000

Lower allowance for minor reconstruction

Higher allowance for minor reconstruction

Cost Source: ARSF Cost Database

Comp # : 23 Minor Lift Stations - Repair Quantity: (2) Sewage Lift Stations

Location : Admin and Safety Center

Funded? : Yes

History :

Evaluation : District's small sewage pumping station for the administration building and Safety Center. Each station consists of two submersible sewage pumps and control floats. This component provides funding for repairs, including repair/replacement of pumps and stainless steel guide rails every 15 years.

Useful Life:
15 years

Remaining Life:
5 years

Photo Not Available

Best Case: \$12,000

Worst Case: \$30,000

Cost Source: Estimate Provided by Client

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“Full” Reserve Study



RMCS D - Water Department Rancho Murieta, CA

Report #: 27003-0 WATER
For Period Beginning: July 1, 2015
Expires: June 30, 2016

Date Prepared: January 23, 2015



Hello, and welcome to your Reserve Study!

This Report is a valuable budget planning tool, for with it you control the future of your CSD. It contains all the fundamental information needed to understand your current and future Reserve obligations, the most significant expenditures your CSD's Water Department will face.

With respect to Reserves, this Report will tell you "where you are", and "where to go from here".

In this Report, you will find...

- 1) A List of What you're Reserving For**
- 2) An Evaluation of your Reserve Fund Size and Strength**
- 3) A Recommended Multi-Year Reserve Funding Plan**

More Questions?

Visit our website at www.ReserveStudy.com or call us at:

877/618-1955



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| Photographic Inventory | Appendix |

3- Minute Executive Summary

Name: RMCS D - Water Department **Assoc. #:** 27003-0
WATER
Location: Rancho Murieta, CA
of Units: 1
Report Period: July 1, 2015 through June 30, 2016

Results as-of 7/1/2015:

| | |
|---|-------------|
| Projected Starting Reserve Balance: | \$4,929,889 |
| Fully Funded Reserve Balance: | \$6,055,439 |
| Average Reserve Deficit (Surplus) Per Unit:..... | \$1,125,550 |
| Percent Funded: | 81.4% |
| Recommended 2015/16 monthly Reserve Contribution: | \$30,000 |
| Most Recent Reserve Contribution Rate:..... | \$15,000 |

Economic Assumptions:

Net Annual “After Tax” Interest Earnings Accruing to Reserves..... 1.00%
 Annual Inflation Rate..... 3.00%

- This is a “Full” Reserve Study (original, created “from scratch”).
- The information in this Reserve Study is based on our site inspection on August 4, 2014.
- This Reserve Study was prepared under the supervision of a credentialed Reserve Specialist (RS).
- Because your Reserve Fund is at 81.4% Funded, this means the CSD Water Department’s deferred maintenance risk & need for a transfer of funds is currently low.
- Your multi-year Funding Plan is designed to gradually bring you to the 100% level, or “Fully Funded”.
- Based on this starting point, your anticipated future expenses, and your historical Reserve contribution rate, our recommendation is to increase your Reserve contributions.
- No assets appropriate for Reserve designation were excluded.

Table 1: Executive Summary

27003-0
WATER

| # | Component | Useful Life (yrs) | Rem. Useful Life (yrs) | Current Average Cost | Future Average Cost |
|-----------------|-------------------------------------|-------------------|------------------------|----------------------|---------------------|
| Water | | | | | |
| 203 | Water Plant Road - Repair | 15 | 14 | \$35,000 | \$52,941 |
| 303 | HVAC (WT Facility) - Replace | 10 | 9 | \$7,500 | \$9,786 |
| 304 | Meters & MXUs - Replace 33% | 6 | 1 | \$559,200 | \$575,976 |
| 314 | Equipment - Replace | 5 | 2 | \$25,000 | \$26,523 |
| 314 | Software/Technology - Update | 5 | 1 | \$120,000 | \$123,600 |
| 338 | Transmission (Gran/Calero) - Repair | 20 | 15 | \$999,750 | \$1,557,578 |
| 904 | Van Vleck Tank - Refurbish/Repair | 40 | 20 | \$2,775,000 | \$5,011,959 |
| 940 | Rio Oso Tank - Rehabilitate | 40 | 33 | \$1,692,000 | \$4,487,751 |
| 941 | Rio Oso Booster Pump Station- Rehab | 40 | 33 | \$175,000 | \$464,159 |
| 942 | Rio Oso Equip. - Replace | 40 | 33 | \$152,500 | \$404,481 |
| 1001 | Backflow Devices - Replace 50% | 5 | 1 | \$98,650 | \$101,610 |
| 1007 | Fire hydrants - Replace (Partial) | 25 | 5 | \$165,550 | \$191,918 |
| 1015 | Rio Oso Fuel Tank - Replace | 40 | 30 | \$20,000 | \$48,545 |
| 1016 | Water Plant - Major Reconstruction | 40 | 40 | \$12,000,000 | \$39,144,454 |
| 1017 | Water Plant Membrane - Replace | 10 | 10 | \$200,000 | \$268,783 |
| 1020 | Flow Sensor (Arena) - Repair/Repl | 25 | 23 | \$10,800 | \$21,315 |
| 1029 | Plant #2 - Convert | N/A | 5 | \$7,500 | \$8,695 |
| 1210 | Subdrain Pump Stations - Repair | 15 | 5 | \$82,500 | \$95,640 |
| 1211 | Calero Siphon Pump Station - Repl | 15 | 12 | \$325,000 | \$463,372 |
| 1212 | Chesbro Influent Valve - Repair | 15 | 10 | \$60,000 | \$80,635 |
| 1864 | 2008 Ford F350 - Replace 50% | 15 | 8 | \$22,500 | \$28,502 |
| 1865 | 2010 Ford Ranger - Replace 50% | 15 | 10 | \$13,750 | \$18,479 |
| 1902 | Pipeline (Airport) - Replace 25% | 40 | 7 | \$41,200 | \$50,671 |
| 1902 | Pipeline (Alameda) - Replace 25% | 40 | 0 | \$38,625 | \$125,996 |
| 1902 | Pipeline (Hwy 16) - Replace 25% | 40 | 0 | \$61,800 | \$201,594 |
| 1902 | Pipeline (MH Park) - Replace | 40 | 0 | \$579,400 | \$1,890,025 |
| 1902 | Pipeline (Rio Oso) - Replace 25% | 40 | 6 | \$46,200 | \$55,165 |
| 1902 | Pipeline (Van Vleck) - Replace 25% | 40 | 17 | \$32,800 | \$54,213 |
| 1902 | Pipelines (N. Unit 1) - Replace 25% | 40 | 0 | \$197,750 | \$645,068 |
| 1902 | Pipelines (N. Units 2-4) - Repl 25% | 40 | 5 | \$712,250 | \$825,693 |
| 1902 | Pipelines (RM South) - Replace 25% | 40 | 16 | \$264,400 | \$424,284 |
| 1902 | Pipelines (South 7&8) - Replace 25% | 40 | 25 | \$67,950 | \$142,272 |
| 1902 | Pipelines (South Newest) - Repl 25% | 40 | 28 | \$115,350 | \$263,912 |
| 1902 | Pipelines (Unit 6) - Repl 25% | 40 | 8 | \$115,000 | \$145,679 |
| 1903 | Water Supply Valves - Replace 10% | 10 | 5 | \$82,500 | \$95,640 |
| 2114 | Granlees Diversion Struct - Repair | 40 | 39 | \$175,000 | \$554,230 |
| 2114 | Granlees Pump Station - Repair | 15 | 10 | \$350,000 | \$470,371 |
| 2149 | Water Reservoirs - Repair | 40 | 20 | \$1,500,000 | \$2,709,167 |
| 2710 | Lake Aerators - Replace | 15 | 10 | \$90,000 | \$120,952 |
| Vehicles | | | | | |
| 1860 | 1997 Ford F250 - Replace | 20 | 2 | \$35,000 | \$37,132 |
| 1861 | 1997 Ford F150 - Replace | 18 | 0 | \$27,000 | \$45,966 |
| 1862 | 2000 Ford F150 - Replace | 20 | 5 | \$27,000 | \$31,300 |
| 1863 | 2001 Ford F250 - Replace | 17 | 3 | \$35,000 | \$38,245 |
| 1864 | 2003 Ford F150 - Replace | 20 | 8 | \$27,000 | \$34,203 |

| # | Component | Useful Life (yrs) | Rem. Useful Life (yrs) | Current Average Cost | Future Average Cost |
|------|------------------------------------|-------------------------|------------------------------|----------------------------|---------------------------|
| 1865 | 2003 Ford F150 - Replace | 20 | 8 | \$27,000 | \$34,203 |
| 1866 | 2003 Ford F150 Supercrew - Replace | 20 | 8 | \$34,000 | \$43,070 |
| 1867 | 2011 Ford Ranger - Replace | 20 | 16 | \$23,000 | \$36,908 |
| 1868 | 2013 Ford F-550 Truck - Replace | 20 | 18 | \$77,000 | \$131,087 |
| 1870 | Utility Vehicle - Replace | 20 | 9 | \$15,200 | \$19,833 |
| 1871 | 1998 Hyster Fork Lift - Replace | 20 | 3 | \$11,000 | \$12,020 |
| 1872 | Fluid Excavator - Replace | 15 | 5 | \$43,700 | \$50,660 |
| 1873 | Bobcat Tractor - Replace | 25 | 12 | \$87,500 | \$124,754 |
| 52 | Total Funded Components | | | | |

Note 1: **Yellow highlighted** line items are expected to require attention in initial year.

Note 2: a Useful Life of "N/A" means a one-time expense, not expected to repeat.

Introduction

A Reserve Study is the art and science of anticipating, and preparing for a CSD's major repair and replacement expenses. Partially art, because in this field we are making projections about the future. Partially science, because our work is a process of research and analysis along well defined methodologies.

In this Report you will find the Reserve Component List (what you are reserving for). It contains our estimates for Useful Life, Remaining Useful Life, and the current repair or replacement cost for each major component the Water Department is obligated to maintain. Based on that List and your starting balance we computed the Water Department's Reserve Fund Strength (measured as "Percent Funded"), and created a recommended multi-year Reserve Funding Plan to offset future Reserve expenses.

Reserve Study

- Component List
- Reserve Fund Strength
- Recommended Contribs

As the physical assets age and deteriorate, it is important to accumulate financial assets to keep the two "in balance". A stable Reserve Funding Plan that offsets the irregular Reserve expenses will ensure that each owner pays their own "fair share" of ongoing deterioration.

Methodology

First we establish what the projected expenses are, then we determine the Water Department's financial status and create a Funding Plan. For this "Full" Reserve Study, we started with a review of your Governing Documents, recent Reserve expenditures, an evaluation of how expenditures are handled (ongoing maintenance vs Reserves), and research into any well-established CSD precedents. We performed an on-site inspection to quantify and evaluate your Water Department, creating your Reserve Component List "from scratch".

Reserve Study Types

- • Full
- Update With-Site-Visit
- Update No-Site-Visit

Which Physical Assets are Covered by Reserves?

There is a national-standard four-part test to determine which expenses should be funded through Reserves. First, it must be a CSD Water Department maintenance responsibility. Second, the component must have a limited life. Third, the limited life must be predictable (or it by definition is a “surprise” which cannot be accurately anticipated). Fourth, the component must be above a minimum threshold cost. This limits Reserve Components to major, predictable expenses. Within this framework, it is inappropriate to include “lifetime” components, unpredictable expenses (such as damage due to fire, flood, or earthquake), and expenses more appropriately handled from the Operational Budget or as an insured loss.

How are Useful Life and Remaining Useful Life established?

- 1) Visual Inspection (observed wear and age)
- 2) Association Reserves database of experience
- 3) Client Component History
- 4) Vendor Evaluation and Recommendation

How are Cost Estimates Established?

Financial projections are based on the average of our Best Case and Worst Case estimates, which are established in this order...

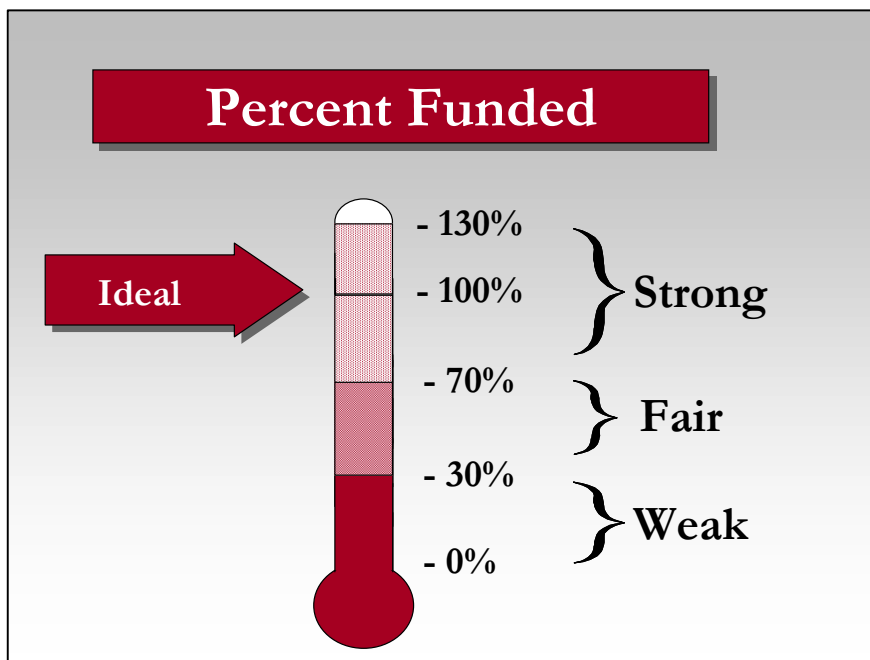
- 1) Client Cost History
- 2) Comparison to Association Reserves database of work done at similar CSDs
- 3) Vendor Recommendations
- 4) Reliable National Industry cost estimating guidebooks

How much Reserves are enough?

Your Reserve cash Balance can measure reserves, but the true measure is whether the funds are adequate. Adequacy is measured in a two-step process:

- 1) Calculate the Water Department's Fully Funded Balance (FFB).
- 2) Compare to the Reserve Fund Balance, and express as a percentage.

The FFB grows as assets age and the Reserve needs of the Water Department increase, but shrinks when projects are accomplished and the Reserve needs of the Water Department decrease. The Fully Funded Balance changes each year, and is a moving but predictable target.



Deferred maintenance and the need for a transfer of funds are common when the Percent Funded is below 30%. While the 100% point is Ideal, a Reserve Fund in the 70% -130% range is considered "strong" because in this range cash flow problems are rare.

Measuring your Reserves by Percent Funded tells how well prepared your Water Department is for upcoming Reserve expenses.

How much should we contribute?

There are four Funding Principles that we balance in developing your Reserve Funding Plan. Our first objective is to design a plan that provides you with sufficient cash to perform your Reserve projects on time. A stable contribution rate is desirable because it is a hallmark of a proactive plan.

Reserve contributions that are evenly distributed over the owners, over the years, enable each owner to pay their “fair share” of the Water Department’s Reserve expenses (this means we recommend a transfer of funds only when all other options have been exhausted). And finally, we develop a plan that is fiscally responsible and “safe” for Board Members to recommend to their CSD

Funding Principles

- Sufficient Cash
- Stable Contribution Rate
- Evenly Distributed
- Fiscally Responsible

What is our Recommended Funding Goal?

Maintaining the Reserve Fund at a level equal to the physical deterioration that has occurred is called “Full Funding” the Reserves (100% Funded). As each asset ages and becomes “used up”, the Reserve Fund grows proportionally. **This is simple, responsible, and our recommendation.** As stated previously, CSDs in the 100% range rarely experience deferred maintenance or the need for a transfer of funds.

Allowing the Reserves to fall close to zero, but not below zero, is called Baseline Funding. In these CSDs, deterioration occurs without matching Reserve contributions. With a low Percent Funded, deferred maintenance and the need for a transfer of funds are common.

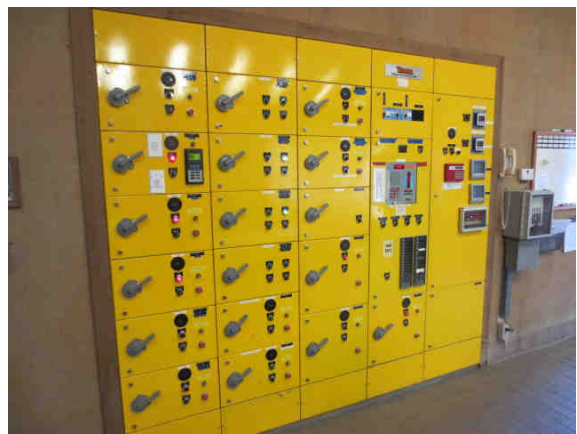
Threshold Funding is the title of all other objectives randomly selected between Baseline Funding and Full Funding.

Funding Goals

- Full Funding
- Threshold Funding
- Baseline Funding

Site Inspection Notes

During our site visit on August 4, 2014, we started with a brief meeting with Paul Siebensohn (Director of Field Operations), and then started the site inspection beginning with the reservoirs. We visually inspected the entire property, and were able to see most areas including Granlees and the Water Plant construction. We were not able to inspect the pipelines.



Projected Expenses

The figure below shows the array of the projected future expenses at your CSD’s Water Department. All expenses are based on the average of our Best Case and Worst Case projections, inflated appropriately for future years.

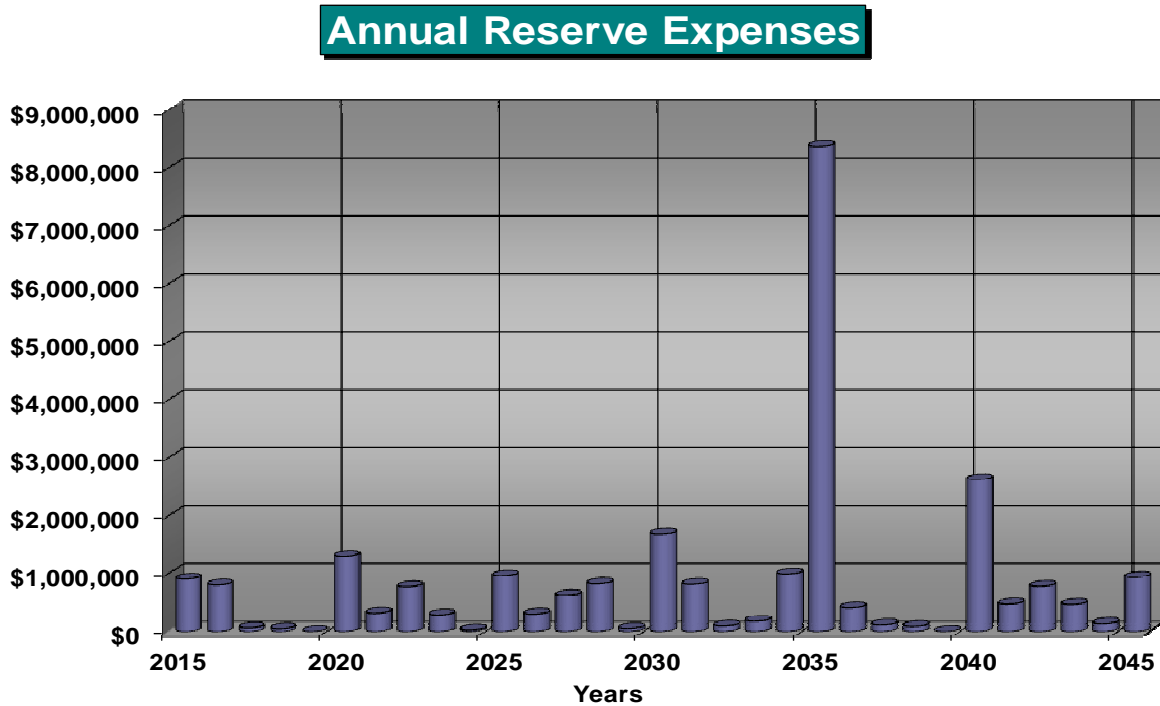


Figure 1

A summary of this information is shown in Table 4, while details of the projects that make up this information are shown in Table 5. Since this is a projection about future events that may or may not take place as anticipated, we feel more certain about “near-term” projects than those many years away. While this Reserve Study is a one-year document, it is based on 30 years’ worth of looking forward into the future.

Reserve Fund Status

The starting point for our financial analysis is your Reserve Fund balance, projected to be \$4,929,889 as-of the start of your Fiscal Year on July 1, 2015. This is based on your actual balance on 9/30/2014 of \$4,794,889 and anticipated Reserve contributions totaling \$135,000 and no expenses projected through the end of your Fiscal Year. As of July 1, 2015, your Fully Funded Balance is computed to be \$6,055,439 (see Table 3). This figure represents the deteriorated value of your Water Department components. Comparing your Reserve Balance to your Fully Funded Balance indicates your Reserves are 81% Funded. As indicated earlier in the Executive Summary, this represents a mid-range status.

Recommended Funding Plan

Based on your current Percent Funded and your projected cash flow requirements, we are recommending Reserve contributions of \$30,000/month this 2015/16 Fiscal Year. This represents the first year of the 30-year Funding Plan shown below. This same information is shown numerically in both Table 4 and Table 5.

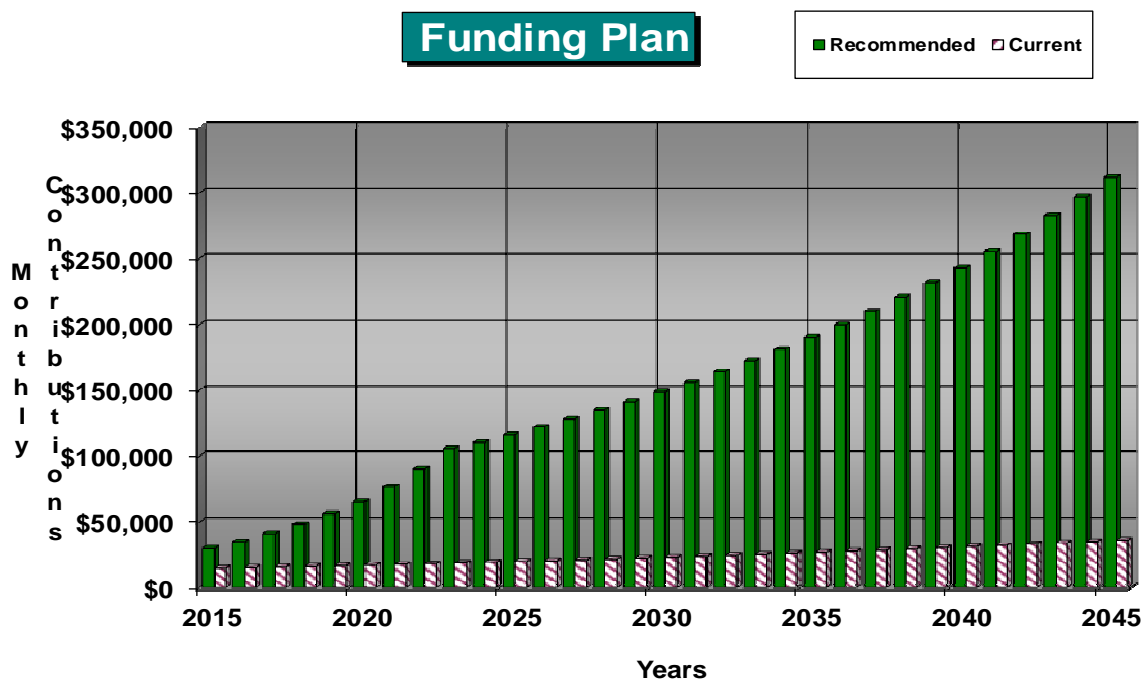


Figure 2

The following chart shows your Reserve balance under our recommended Funding Plan and your current Funding Plan, and your always-changing Fully Funded Balance target.

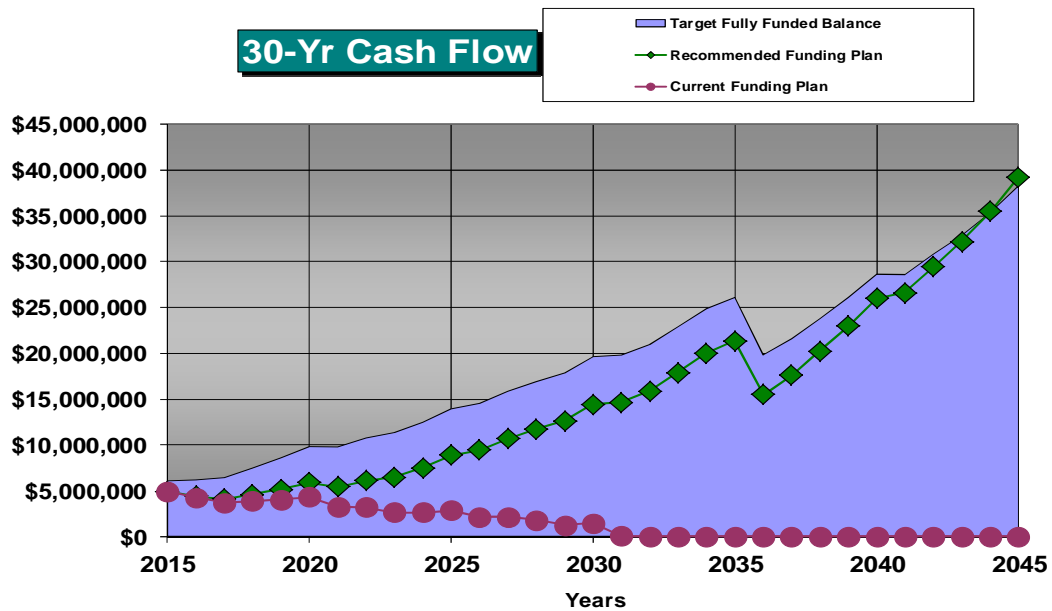


Figure 3

In this figure it is easy to see how your Reserve Fund gradually draws closer to the Fully Funded (100%) level.

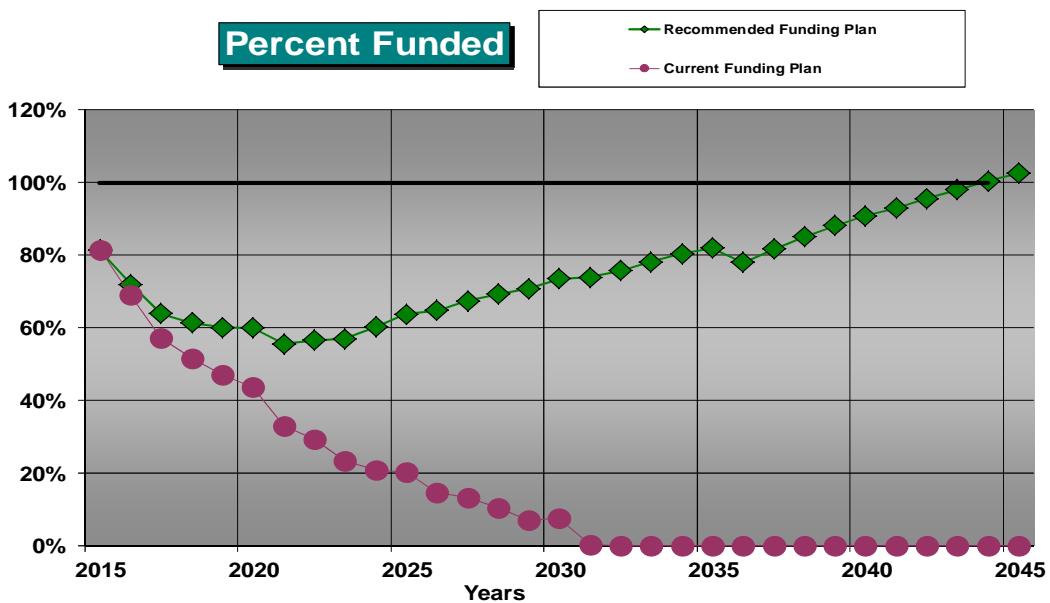


Figure 4

Table Descriptions

The tabular information in this Report is broken down into five tables.

Table 1 summarizes your funded Reserve Components, and is part of the Executive Report summary that appeared earlier in this Report.

Table 2 provides the main component description, life, and cost factors for all components determined to be appropriate for Reserve designation. This table represents the core information from which all other tables are derived.

Table 3 is presented primarily as an accounting summary. The results of the individual line item Fully Funded Balance computations are shown. These individual quantities are summed to arrive at the Fully Funded Balance for the Water Department as of the start date of the Report. The figures in the Current Fund Balance column and the Monthly Reserve Contribution column show our distribution throughout the line items. If the Water Department is underfunded, Reserve Funds are distributed first to components with a short Remaining Useful Life. If the Water Department's Reserve Balance is above 100% Funded, funds are distributed evenly for all components. Contribution rates for each component are a proportionate distribution of the total contribution on the basis of the component's significance to the Water Department (current cost divided by useful life). This presentation is not meant to cause clients to redistribute Water Department funds, it simply presents one way to evenly distribute the total among all the different line items.

Table 4: This table provides a one-page 30-year summary of the cash flowing into and out of the Water Department, compared to the Fully Funded Balance for each year.

Table 5: This table shows the cash flow detail for the next 30 years. This table makes it possible to see what components are projected to require repair or replacement each year, and the size of those individual expenses.

Table 2: Reserve Component List Detail

**27003-0
WATER**

| # | Component | Quantity | Useful Life | Rem. Useful Life | Best Cost | Current Worst Cost |
|-----------------|-------------------------------------|---------------------------|-------------|------------------|--------------|--------------------|
| Water | | | | | | |
| 203 | Water Plant Road - Repair | Approx 23,500 GSF | 15 | 14 | \$30,000 | \$40,000 |
| 303 | HVAC (WT Facility) - Replace | (1) HVAC System | 10 | 9 | \$6,800 | \$8,200 |
| 304 | Meters & MXUs - Replace 33% | 33% of (2610) Connections | 6 | 1 | \$508,400 | \$610,000 |
| 314 | Equipment - Replace | Various Equipment | 5 | 2 | \$20,000 | \$30,000 |
| 314 | Software/Technology - Update | (4) Software/Techs | 5 | 1 | \$100,000 | \$140,000 |
| 338 | Transmission (Gran/Calero) - Repair | Approx 9,300 LF | 20 | 15 | \$837,000 | \$1,162,500 |
| 904 | Van Vleck Tank - Refurbish/Repair | (1) 3M Gallon Water Tank | 40 | 20 | \$2,300,000 | \$3,250,000 |
| 940 | Rio Oso Tank - Rehabilitate | (1) 1.2M Gallon Tank | 40 | 33 | \$1,410,000 | \$1,974,000 |
| 941 | Rio Oso Booster Pump Station- Rehab | (1) Pump Station | 40 | 33 | \$150,000 | \$200,000 |
| 942 | Rio Oso Equip. - Replace | Generator/Trans Switch | 40 | 33 | \$125,000 | \$180,000 |
| 1001 | Backflow Devices - Replace 50% | (46) of (93) Backflows | 5 | 1 | \$89,700 | \$107,600 |
| 1007 | Fire hydrants - Replace (Partial) | (43) of (174) Hydrants | 25 | 5 | \$150,500 | \$180,600 |
| 1015 | Rio Oso Fuel Tank - Replace | (1) Fuel Tank | 40 | 30 | \$10,000 | \$30,000 |
| 1016 | Water Plant - Major Reconstruction | Water Plant | 40 | 40 | \$11,000,000 | \$13,000,000 |
| 1017 | Water Plant Membrane - Replace | Approx (95) sets | 10 | 10 | \$180,000 | \$220,000 |
| 1020 | Flow Sensor (Arena) - Repair/Repl | (1) Flow Sensor | 25 | 23 | \$9,000 | \$12,600 |
| 1029 | Plant #2 - Convert | Plant #2 | N/A | 5 | \$5,000 | \$10,000 |
| 1210 | Subdrain Pump Stations - Repair | (6) Subdrain Pump Station | 15 | 5 | \$75,000 | \$90,000 |
| 1211 | Calero Siphon Pump Station - Repl | (1) Siphon Pump Station | 15 | 12 | \$250,000 | \$400,000 |
| 1212 | Chesbro Influent Valve - Repair | Siphon Influent Control | 15 | 10 | \$50,000 | \$70,000 |
| 1864 | 2008 Ford F350 - Replace 50% | (1) Ford F350, V#0663 | 15 | 8 | \$20,000 | \$25,000 |
| 1865 | 2010 Ford Ranger - Replace 50% | (1) Ford Ranger, V#8210 | 15 | 10 | \$12,500 | \$15,000 |
| 1902 | Pipeline (Airport) - Replace 25% | Approx 4,000 LF X 25% | 40 | 7 | \$37,600 | \$44,800 |
| 1902 | Pipeline (Alameda) - Replace 25% | Approx 3,750 LF X 25% | 40 | 0 | \$35,250 | \$42,000 |
| 1902 | Pipeline (Hwy 16) - Replace 25% | Approx 6,000 LF X 25% | 40 | 0 | \$56,400 | \$67,200 |
| 1902 | Pipeline (MH Park) - Replace | Approx 11,250 LF | 40 | 0 | \$528,800 | \$630,000 |
| 1902 | Pipeline (Rio Oso) - Replace 25% | Approx 4,480 LF X 25% | 40 | 6 | \$42,200 | \$50,200 |
| 1902 | Pipeline (Van Vleck) - Replace 25% | Approx 3,180 LF X 25% | 40 | 17 | \$29,900 | \$35,700 |
| 1902 | Pipelines (N. Unit 1) - Replace 25% | Approx 19,200 LF X 25% | 40 | 0 | \$180,500 | \$215,000 |
| 1902 | Pipelines (N. Units 2-4) - Repl 25% | Approx 69,150 LF X 25% | 40 | 5 | \$650,000 | \$774,500 |
| 1902 | Pipelines (RM South) - Replace 25% | Approx 25,670 LF X 25% | 40 | 16 | \$241,300 | \$287,500 |
| 1902 | Pipelines (South 7&8) - Replace 25% | Approx 6,600 LF X 25% | 40 | 25 | \$62,000 | \$73,900 |
| 1902 | Pipelines (South Newest) - Repl 25% | Approx 11,200 LF X 25% | 40 | 28 | \$105,300 | \$125,400 |
| 1902 | Pipelines (Unit 6) - Repl 25% | Approx 11,800 LF X 25% | 40 | 8 | \$105,000 | \$125,000 |
| 1903 | Water Supply Valves - Replace 10% | Approx 900 X 10% | 10 | 5 | \$75,000 | \$90,000 |
| 2114 | Granlees Diversion Struct - Repair | (1) Diversion Structure | 40 | 39 | \$150,000 | \$200,000 |
| 2114 | Granlees Pump Station - Repair | Raw Water Pump Station | 15 | 10 | \$300,000 | \$400,000 |
| 2149 | Water Reservoirs - Repair | Raw Water Storage Lakes | 40 | 20 | \$1,000,000 | \$2,000,000 |
| 2710 | Lake Aerators - Replace | (3) Aerators | 15 | 10 | \$81,000 | \$99,000 |
| Vehicles | | | | | | |
| 1860 | 1997 Ford F250 - Replace | (1) Ford F250, V#211 | 20 | 2 | \$32,000 | \$38,000 |
| 1861 | 1997 Ford F150 - Replace | (1) Ford F150, V#7003 | 18 | 0 | \$25,000 | \$29,000 |
| 1862 | 2000 Ford F150 - Replace | (1) Ford F150, V#6367 | 20 | 5 | \$25,000 | \$29,000 |
| 1863 | 2001 Ford F250 - Replace | (1) Ford F250, V#8524 | 17 | 3 | \$32,000 | \$38,000 |
| 1864 | 2003 Ford F150 - Replace | (1) Ford F150, V#4584 | 20 | 8 | \$25,000 | \$29,000 |
| 1865 | 2003 Ford F150 - Replace | (1) Ford F150, V#3817 | 20 | 8 | \$25,000 | \$29,000 |
| 1866 | 2003 Ford F150 Supercrew - Replace | (1) Ford F150, V#3233 | 20 | 8 | \$31,000 | \$37,000 |
| 1867 | 2011 Ford Ranger - Replace | (1) Ford Ranger, V#5636 | 20 | 16 | \$21,000 | \$25,000 |
| 1868 | 2013 Ford F-550 Truck - Replace | (1) Ford F-550 Truck | 20 | 18 | \$65,000 | \$89,000 |
| 1870 | Utility Vehicle - Replace | (1) Utility Vehicle | 20 | 9 | \$13,800 | \$16,600 |
| 1871 | 1998 Hyster Fork Lift - Replace | (1) 1998 Hyster Fork Lift | 20 | 3 | \$10,000 | \$12,000 |
| 1872 | Fluid Excavator - Replace | (1) Fluid Excavator | 15 | 5 | \$39,700 | \$47,700 |
| 1873 | Bobcat Tractor - Replace | (1) Bobcat Comp. Tractor | 25 | 12 | \$75,000 | \$100,000 |
| 52 | Total Funded Components | | | | | |

Table 3: Contribution and Fund Breakdown

**27003-0
WATER**

| # | Component | Useful Life | Rem. Useful Life | Current (Avg) Cost | Fully Funded Balance | Current Fund Balance | Reserve Contributions |
|-----------------|-------------------------------------|-------------|------------------|--------------------|----------------------|----------------------|-----------------------|
| Water | | | | | | | |
| 203 | Water Plant Road - Repair | 15 | 14 | \$35,000 | \$2,333 | \$2,333.33 | \$135.37 |
| 303 | HVAC (WT Facility) - Replace | 10 | 9 | \$7,500 | \$750 | \$750.00 | \$43.51 |
| 304 | Meters & MXUs - Replace 33% | 6 | 1 | \$559,200 | \$466,000 | \$466,000.00 | \$5,407.07 |
| 314 | Equipment - Replace | 5 | 2 | \$25,000 | \$15,000 | \$15,000.00 | \$290.08 |
| 314 | Software/Technology - Update | 5 | 1 | \$120,000 | \$96,000 | \$96,000.00 | \$1,392.38 |
| 338 | Transmission (Gran/Calero) - Repair | 20 | 15 | \$999,750 | \$249,938 | \$249,937.50 | \$2,900.06 |
| 904 | Van Vleck Tank - Refurbish/Repair | 40 | 20 | \$2,775,000 | \$1,387,500 | \$1,387,500.00 | \$4,024.84 |
| 940 | Rio Oso Tank - Rehabilitate | 40 | 33 | \$1,692,000 | \$296,100 | \$0.00 | \$2,454.07 |
| 941 | Rio Oso Booster Pump Station- Rehab | 40 | 33 | \$175,000 | \$30,625 | \$0.00 | \$253.82 |
| 942 | Rio Oso Equip. - Replace | 40 | 33 | \$152,500 | \$26,688 | \$0.00 | \$221.19 |
| 1001 | Backflow Devices - Replace 50% | 5 | 1 | \$98,650 | \$78,920 | \$78,920.00 | \$1,144.65 |
| 1007 | Fire hydrants - Replace (Partial) | 25 | 5 | \$165,550 | \$132,440 | \$132,440.00 | \$384.18 |
| 1015 | Rio Oso Fuel Tank - Replace | 40 | 30 | \$20,000 | \$5,000 | \$0.00 | \$29.01 |
| 1016 | Water Plant - Major Reconstruction | 40 | 40 | \$12,000,000 | \$0 | \$0.00 | \$0.00 |
| 1017 | Water Plant Membrane - Replace | 10 | 10 | \$200,000 | \$0 | \$0.00 | \$0.00 |
| 1020 | Flow Sensor (Arena) - Repair/Repl | 25 | 23 | \$10,800 | \$864 | \$0.00 | \$25.06 |
| 1029 | Plant #2 - Convert | N/A | 5 | \$7,500 | \$1,250 | \$1,250.00 | \$60.43 |
| 1210 | Subdrain Pump Stations - Repair | 15 | 5 | \$82,500 | \$55,000 | \$55,000.00 | \$319.09 |
| 1211 | Calero Siphon Pump Station - Repl | 15 | 12 | \$325,000 | \$65,000 | \$65,000.00 | \$1,257.01 |
| 1212 | Chesbro Influent Valve - Repair | 15 | 10 | \$60,000 | \$20,000 | \$20,000.00 | \$232.06 |
| 1864 | 2008 Ford F350 - Replace 50% | 15 | 8 | \$22,500 | \$10,500 | \$10,500.00 | \$87.02 |
| 1865 | 2010 Ford Ranger - Replace 50% | 15 | 10 | \$13,750 | \$4,583 | \$4,583.33 | \$53.18 |
| 1902 | Pipeline (Airport) - Replace 25% | 40 | 7 | \$41,200 | \$33,990 | \$33,990.00 | \$59.76 |
| 1902 | Pipeline (Alameda) - Replace 25% | 40 | 0 | \$38,625 | \$38,625 | \$38,625.00 | \$56.02 |
| 1902 | Pipeline (Hwy 16) - Replace 25% | 40 | 0 | \$61,800 | \$61,800 | \$61,800.00 | \$89.63 |
| 1902 | Pipeline (MH Park) - Replace | 40 | 0 | \$579,400 | \$579,400 | \$579,400.00 | \$840.36 |
| 1902 | Pipeline (Rio Oso) - Replace 25% | 40 | 6 | \$46,200 | \$39,270 | \$39,270.00 | \$67.01 |
| 1902 | Pipeline (Van Vleck) - Replace 25% | 40 | 17 | \$32,800 | \$18,860 | \$18,860.00 | \$47.57 |
| 1902 | Pipelines (N. Unit 1) - Replace 25% | 40 | 0 | \$197,750 | \$197,750 | \$197,750.00 | \$286.82 |
| 1902 | Pipelines (N. Units 2-4) - Repl 25% | 40 | 5 | \$712,250 | \$623,219 | \$623,218.75 | \$1,033.04 |
| 1902 | Pipelines (RM South) - Replace 25% | 40 | 16 | \$264,400 | \$158,640 | \$158,640.00 | \$383.48 |
| 1902 | Pipelines (South 7&8) - Replace 25% | 40 | 25 | \$67,950 | \$25,481 | \$0.00 | \$98.55 |
| 1902 | Pipelines (South Newest) - Repl 25% | 40 | 28 | \$115,350 | \$34,605 | \$0.00 | \$167.30 |
| 1902 | Pipelines (Unit 6) - Repl 25% | 40 | 8 | \$115,000 | \$92,000 | \$92,000.00 | \$166.80 |
| 1903 | Water Supply Valves - Replace 10% | 10 | 5 | \$82,500 | \$41,250 | \$41,250.00 | \$478.63 |
| 2114 | Granlees Diversion Struct - Repair | 40 | 39 | \$175,000 | \$4,375 | \$0.00 | \$253.82 |
| 2114 | Granlees Pump Station - Repair | 15 | 10 | \$350,000 | \$116,667 | \$116,666.67 | \$1,353.70 |
| 2149 | Water Reservoirs - Repair | 40 | 20 | \$1,500,000 | \$750,000 | \$48,187.55 | \$2,175.59 |
| 2710 | Lake Aerators - Replace | 15 | 10 | \$90,000 | \$30,000 | \$30,000.00 | \$348.09 |
| Vehicles | | | | | | | |
| 1860 | 1997 Ford F250 - Replace | 20 | 2 | \$35,000 | \$31,500 | \$31,500.00 | \$101.53 |
| 1861 | 1997 Ford F150 - Replace | 18 | 0 | \$27,000 | \$27,000 | \$27,000.00 | \$87.02 |
| 1862 | 2000 Ford F150 - Replace | 20 | 5 | \$27,000 | \$20,250 | \$20,250.00 | \$78.32 |
| 1863 | 2001 Ford F250 - Replace | 17 | 3 | \$35,000 | \$28,824 | \$28,823.53 | \$119.44 |
| 1864 | 2003 Ford F150 - Replace | 20 | 8 | \$27,000 | \$16,200 | \$16,200.00 | \$78.32 |
| 1865 | 2003 Ford F150 - Replace | 20 | 8 | \$27,000 | \$16,200 | \$16,200.00 | \$78.32 |
| 1866 | 2003 Ford F150 Supercrew - Replace | 20 | 8 | \$34,000 | \$20,400 | \$20,400.00 | \$98.63 |
| 1867 | 2011 Ford Ranger - Replace | 20 | 16 | \$23,000 | \$4,600 | \$4,600.00 | \$66.72 |
| 1868 | 2013 Ford F-550 Truck - Replace | 20 | 18 | \$77,000 | \$7,700 | \$7,700.00 | \$223.36 |
| 1870 | Utility Vehicle - Replace | 20 | 9 | \$15,200 | \$8,360 | \$8,360.00 | \$44.09 |
| 1871 | 1998 Hyster Fork Lift - Replace | 20 | 3 | \$11,000 | \$9,350 | \$9,350.00 | \$31.91 |
| 1872 | Fluid Excavator - Replace | 15 | 5 | \$43,700 | \$29,133 | \$29,133.33 | \$169.02 |
| 1873 | Bobcat Tractor - Replace | 25 | 12 | \$87,500 | \$45,500 | \$45,500.00 | \$203.06 |
| 52 | Total Funded Components | | | | \$6,055,439 | \$4,929,889 | \$30,000 |

Table 4: 30-Year Reserve Plan Summary Recommended by Association Reserves

27003-0 WATER

Fiscal Year Beginning: 07/01/15

| | | | |
|-----------|-------|------------|------|
| Interest: | 1.00% | Inflation: | 3.0% |
|-----------|-------|------------|------|

| Year | Starting Reserve Balance | Fully Funded Balance | Percent Funded | Rating | % Increase In Annual Reserve Contribs. | Annual Reserve Contribs. | Loans or Trnsfer Amnts | Interest Income | Projected Reserve Expenses |
|------|--------------------------|----------------------|----------------|--------|--|--------------------------|------------------------|-----------------|----------------------------|
| 2015 | \$4,929,889 | \$6,055,439 | 81.4% | Strong | 100.00% | \$360,000 | \$0 | \$46,790 | \$904,575 |
| 2016 | \$4,432,104 | \$6,166,789 | 71.9% | Strong | 17.00% | \$421,200 | \$0 | \$42,616 | \$801,186 |
| 2017 | \$4,094,735 | \$6,413,944 | 63.8% | Fair | 17.00% | \$492,804 | \$0 | \$43,291 | \$63,654 |
| 2018 | \$4,567,176 | \$7,455,067 | 61.3% | Fair | 17.00% | \$576,581 | \$0 | \$48,525 | \$50,265 |
| 2019 | \$5,142,016 | \$8,569,344 | 60.0% | Fair | 17.00% | \$674,599 | \$0 | \$55,045 | \$0 |
| 2020 | \$5,871,661 | \$9,799,994 | 59.9% | Fair | 17.00% | \$789,281 | \$0 | \$56,423 | \$1,299,546 |
| 2021 | \$5,417,819 | \$9,753,759 | 55.5% | Fair | 17.00% | \$923,459 | \$0 | \$57,477 | \$316,245 |
| 2022 | \$6,082,511 | \$10,748,887 | 56.6% | Fair | 17.00% | \$1,080,447 | \$0 | \$62,668 | \$769,163 |
| 2023 | \$6,456,463 | \$11,338,211 | 56.9% | Fair | 17.00% | \$1,264,123 | \$0 | \$69,776 | \$285,657 |
| 2024 | \$7,504,706 | \$12,474,999 | 60.2% | Fair | 5.05% | \$1,327,961 | \$0 | \$81,914 | \$29,618 |
| 2025 | \$8,884,962 | \$13,942,336 | 63.7% | Fair | 5.05% | \$1,395,023 | \$0 | \$91,447 | \$959,220 |
| 2026 | \$9,412,213 | \$14,529,910 | 64.8% | Fair | 5.05% | \$1,465,472 | \$0 | \$100,395 | \$302,663 |
| 2027 | \$10,675,417 | \$15,846,086 | 67.4% | Fair | 5.05% | \$1,539,478 | \$0 | \$111,844 | \$623,770 |
| 2028 | \$11,702,970 | \$16,906,766 | 69.2% | Fair | 5.05% | \$1,617,222 | \$0 | \$121,566 | \$821,204 |
| 2029 | \$12,620,554 | \$17,832,743 | 70.8% | Strong | 5.05% | \$1,698,892 | \$0 | \$135,053 | \$52,941 |
| 2030 | \$14,401,558 | \$19,615,750 | 73.4% | Strong | 5.05% | \$1,784,686 | \$0 | \$145,173 | \$1,686,110 |
| 2031 | \$14,645,307 | \$19,809,159 | 73.9% | Strong | 5.05% | \$1,874,813 | \$0 | \$152,464 | \$812,062 |
| 2032 | \$15,860,522 | \$20,948,888 | 75.7% | Strong | 5.05% | \$1,969,491 | \$0 | \$168,747 | \$95,535 |
| 2033 | \$17,903,225 | \$22,902,289 | 78.2% | Strong | 5.05% | \$2,068,950 | \$0 | \$189,358 | \$177,053 |
| 2034 | \$19,984,480 | \$24,873,028 | 80.3% | Strong | 5.05% | \$2,173,432 | \$0 | \$206,689 | \$993,712 |
| 2035 | \$21,370,889 | \$26,105,712 | 81.9% | Strong | 5.05% | \$2,283,190 | \$0 | \$184,100 | \$8,373,493 |
| 2036 | \$15,464,686 | \$19,819,502 | 78.0% | Strong | 5.05% | \$2,398,491 | \$0 | \$165,362 | \$406,753 |
| 2037 | \$17,621,785 | \$21,597,107 | 81.6% | Strong | 5.05% | \$2,519,615 | \$0 | \$189,106 | \$114,966 |
| 2038 | \$20,215,541 | \$23,776,641 | 85.0% | Strong | 5.05% | \$2,646,856 | \$0 | \$215,940 | \$87,430 |
| 2039 | \$22,990,907 | \$26,099,424 | 88.1% | Strong | 5.05% | \$2,780,522 | \$0 | \$244,932 | \$0 |
| 2040 | \$26,016,361 | \$28,632,929 | 90.9% | Strong | 5.05% | \$2,920,938 | \$0 | \$262,881 | \$2,618,060 |
| 2041 | \$26,582,120 | \$28,598,353 | 92.9% | Strong | 5.05% | \$3,068,446 | \$0 | \$280,087 | \$471,539 |
| 2042 | \$29,459,114 | \$30,827,748 | 95.6% | Strong | 5.05% | \$3,223,402 | \$0 | \$308,231 | \$777,451 |
| 2043 | \$32,213,296 | \$32,864,649 | 98.0% | Strong | 5.05% | \$3,386,184 | \$0 | \$338,285 | \$465,250 |
| 2044 | \$35,472,515 | \$35,341,609 | 100.4% | Strong | 5.05% | \$3,557,186 | \$0 | \$373,540 | \$135,974 |

Table 5: 30-Year Income/Expense Detail (yrs 0 through 4)

**27003-0
WATER**

| Fiscal Year | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Starting Reserve Balance | \$4,929,889 | \$4,432,104 | \$4,094,735 | \$4,567,176 | \$5,142,016 |
| Annual Reserve Contribution | \$360,000 | \$421,200 | \$492,804 | \$576,581 | \$674,599 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$46,790 | \$42,616 | \$43,291 | \$48,525 | \$55,045 |
| Total Income | \$5,336,679 | \$4,895,920 | \$4,630,830 | \$5,192,282 | \$5,871,661 |
| # Component | | | | | |
| Water | | | | | |
| 203 Water Plant Road - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC (WT Facility) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 304 Meters & MXUs - Replace 33% | \$0 | \$575,976 | \$0 | \$0 | \$0 |
| 314 Equipment - Replace | \$0 | \$0 | \$26,523 | \$0 | \$0 |
| 314 Software/Technology - Update | \$0 | \$123,600 | \$0 | \$0 | \$0 |
| 338 Transmission (Gran/Calero) - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 904 Van Vleck Tank - Refurbish/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 940 Rio Oso Tank - Rehabilitate | \$0 | \$0 | \$0 | \$0 | \$0 |
| 941 Rio Oso Booster Pump Station- Rehab | \$0 | \$0 | \$0 | \$0 | \$0 |
| 942 Rio Oso Equip. - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1001 Backflow Devices - Replace 50% | \$0 | \$101,610 | \$0 | \$0 | \$0 |
| 1007 Fire hydrants - Replace (Partial) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Rio Oso Fuel Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1016 Water Plant - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1017 Water Plant Membrane - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1020 Flow Sensor (Arena) - Repair/Repl | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1029 Plant #2 - Convert | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1210 Subdrain Pump Stations - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1211 Calero Siphon Pump Station - Repl | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1212 Chesbro Influent Valve - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$38,625 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Hwy 16) - Replace 25% | \$61,800 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$579,400 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Rio Oso) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Van Vleck) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$197,750 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1903 Water Supply Valves - Replace 10% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Diversion Struct - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Pump Station - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2149 Water Reservoirs - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2710 Lake Aerators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Vehicles | | | | | |
| 1860 1997 Ford F250 - Replace | \$0 | \$0 | \$37,132 | \$0 | \$0 |
| 1861 1997 Ford F150 - Replace | \$27,000 | \$0 | \$0 | \$0 | \$0 |
| 1862 2000 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2001 Ford F250 - Replace | \$0 | \$0 | \$0 | \$38,245 | \$0 |
| 1864 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1866 2003 Ford F150 Supercrew - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1867 2011 Ford Ranger - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1868 2013 Ford F-550 Truck - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1870 Utility Vehicle - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1871 1998 Hyster Fork Lift - Replace | \$0 | \$0 | \$0 | \$12,020 | \$0 |
| 1872 Fluid Excavator - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1873 Bobcat Tractor - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$904,575 | \$801,186 | \$63,654 | \$50,265 | \$0 |
| Ending Reserve Balance: | \$4,432,104 | \$4,094,735 | \$4,567,176 | \$5,142,016 | \$5,871,661 |

Table 5: 30-Year Income/Expense Detail (yrs 5 through 9)

**27003-0
WATER**

| Fiscal Year | 2020 | 2021 | 2022 | 2023 | 2024 |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Starting Reserve Balance | \$5,871,661 | \$5,417,819 | \$6,082,511 | \$6,456,463 | \$7,504,706 |
| Annual Reserve Contribution | \$789,281 | \$923,459 | \$1,080,447 | \$1,264,123 | \$1,327,961 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$56,423 | \$57,477 | \$62,668 | \$69,776 | \$81,914 |
| Total Income | \$6,717,366 | \$6,398,756 | \$7,225,626 | \$7,790,363 | \$8,914,581 |
| # Component | | | | | |
| Water | | | | | |
| 203 Water Plant Road - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC (WT Facility) - Replace | \$0 | \$0 | \$0 | \$0 | \$9,786 |
| 304 Meters & MXUs - Replace 33% | \$0 | \$0 | \$687,745 | \$0 | \$0 |
| 314 Equipment - Replace | \$0 | \$0 | \$30,747 | \$0 | \$0 |
| 314 Software/Technology - Update | \$0 | \$143,286 | \$0 | \$0 | \$0 |
| 338 Transmission (Gran/Calero) - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 904 Van Vleck Tank - Refurbish/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 940 Rio Oso Tank - Rehabilitate | \$0 | \$0 | \$0 | \$0 | \$0 |
| 941 Rio Oso Booster Pump Station- Rehab | \$0 | \$0 | \$0 | \$0 | \$0 |
| 942 Rio Oso Equip. - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1001 Backflow Devices - Replace 50% | \$0 | \$117,793 | \$0 | \$0 | \$0 |
| 1007 Fire hydrants - Replace (Partial) | \$191,918 | \$0 | \$0 | \$0 | \$0 |
| 1015 Rio Oso Fuel Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1016 Water Plant - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1017 Water Plant Membrane - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1020 Flow Sensor (Arena) - Repair/Repl | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1029 Plant #2 - Convert | \$8,695 | \$0 | \$0 | \$0 | \$0 |
| 1210 Subdrain Pump Stations - Repair | \$95,640 | \$0 | \$0 | \$0 | \$0 |
| 1211 Calero Siphon Pump Station - Repl | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1212 Chesbro Influent Valve - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$28,502 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$0 | \$0 | \$50,671 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Hwy 16) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Rio Oso) - Replace 25% | \$0 | \$55,165 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Van Vleck) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$825,693 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$0 | \$145,679 | \$0 |
| 1903 Water Supply Valves - Replace 10% | \$95,640 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Diversion Struct - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Pump Station - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2149 Water Reservoirs - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2710 Lake Aerators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Vehicles | | | | | |
| 1860 1997 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 1997 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1862 2000 Ford F150 - Replace | \$31,300 | \$0 | \$0 | \$0 | \$0 |
| 1863 2001 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$34,203 | \$0 |
| 1865 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$34,203 | \$0 |
| 1866 2003 Ford F150 Supercrew - Replace | \$0 | \$0 | \$0 | \$43,070 | \$0 |
| 1867 2011 Ford Ranger - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1868 2013 Ford F-550 Truck - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1870 Utility Vehicle - Replace | \$0 | \$0 | \$0 | \$0 | \$19,833 |
| 1871 1998 Hyster Fork Lift - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1872 Fluid Excavator - Replace | \$50,660 | \$0 | \$0 | \$0 | \$0 |
| 1873 Bobcat Tractor - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$1,299,546 | \$316,245 | \$769,163 | \$285,657 | \$29,618 |
| Ending Reserve Balance: | \$5,417,819 | \$6,082,511 | \$6,456,463 | \$7,504,706 | \$8,884,962 |

Table 5: 30-Year Income/Expense Detail (yrs 10 through 14)

**27003-0
WATER**

| Fiscal Year | 2025 | 2026 | 2027 | 2028 | 2029 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| Starting Reserve Balance | \$8,884,962 | \$9,412,213 | \$10,675,417 | \$11,702,970 | \$12,620,554 |
| Annual Reserve Contribution | \$1,395,023 | \$1,465,472 | \$1,539,478 | \$1,617,222 | \$1,698,892 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$91,447 | \$100,395 | \$111,844 | \$121,566 | \$135,053 |
| Total Income | \$10,371,433 | \$10,978,080 | \$12,326,740 | \$13,441,758 | \$14,454,499 |
| # Component | | | | | |
| Water | | | | | |
| 203 Water Plant Road - Repair | \$0 | \$0 | \$0 | \$0 | \$52,941 |
| 303 HVAC (WT Facility) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 304 Meters & MXUs - Replace 33% | \$0 | \$0 | \$0 | \$821,204 | \$0 |
| 314 Equipment - Replace | \$0 | \$0 | \$35,644 | \$0 | \$0 |
| 314 Software/Technology - Update | \$0 | \$166,108 | \$0 | \$0 | \$0 |
| 338 Transmission (Gran/Calero) - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 904 Van Vleck Tank - Refurbish/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 940 Rio Oso Tank - Rehabilitate | \$0 | \$0 | \$0 | \$0 | \$0 |
| 941 Rio Oso Booster Pump Station- Rehab | \$0 | \$0 | \$0 | \$0 | \$0 |
| 942 Rio Oso Equip. - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1001 Backflow Devices - Replace 50% | \$0 | \$136,555 | \$0 | \$0 | \$0 |
| 1007 Fire hydrants - Replace (Partial) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Rio Oso Fuel Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1016 Water Plant - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1017 Water Plant Membrane - Replace | \$268,783 | \$0 | \$0 | \$0 | \$0 |
| 1020 Flow Sensor (Arena) - Repair/Repl | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1029 Plant #2 - Convert | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1210 Subdrain Pump Stations - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1211 Calero Siphon Pump Station - Repl | \$0 | \$0 | \$463,372 | \$0 | \$0 |
| 1212 Chesbro Influent Valve - Repair | \$80,635 | \$0 | \$0 | \$0 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$18,479 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Hwy 16) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Rio Oso) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Van Vleck) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1903 Water Supply Valves - Replace 10% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Diversion Struct - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Pump Station - Repair | \$470,371 | \$0 | \$0 | \$0 | \$0 |
| 2149 Water Reservoirs - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2710 Lake Aerators - Replace | \$120,952 | \$0 | \$0 | \$0 | \$0 |
| Vehicles | | | | | |
| 1860 1997 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 1997 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1862 2000 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2001 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1866 2003 Ford F150 Supercrew - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1867 2011 Ford Ranger - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1868 2013 Ford F-550 Truck - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1870 Utility Vehicle - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1871 1998 Hyster Fork Lift - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1872 Fluid Excavator - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1873 Bobcat Tractor - Replace | \$0 | \$0 | \$124,754 | \$0 | \$0 |
| Total Expenses | \$959,220 | \$302,663 | \$623,770 | \$821,204 | \$52,941 |
| Ending Reserve Balance: | \$9,412,213 | \$10,675,417 | \$11,702,970 | \$12,620,554 | \$14,401,558 |

Table 5: 30-Year Income/Expense Detail (yrs 15 through 19)

**27003-0
WATER**

| Fiscal Year | 2030 | 2031 | 2032 | 2033 | 2034 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| Starting Reserve Balance | \$14,401,558 | \$14,645,307 | \$15,860,522 | \$17,903,225 | \$19,984,480 |
| Annual Reserve Contribution | \$1,784,686 | \$1,874,813 | \$1,969,491 | \$2,068,950 | \$2,173,432 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$145,173 | \$152,464 | \$168,747 | \$189,358 | \$206,689 |
| Total Income | \$16,331,417 | \$16,672,584 | \$17,998,760 | \$20,161,533 | \$22,364,601 |
| # Component | | | | | |
| Water | | | | | |
| 203 Water Plant Road - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC (WT Facility) - Replace | \$0 | \$0 | \$0 | \$0 | \$13,151 |
| 304 Meters & MXUs - Replace 33% | \$0 | \$0 | \$0 | \$0 | \$980,561 |
| 314 Equipment - Replace | \$0 | \$0 | \$41,321 | \$0 | \$0 |
| 314 Software/Technology - Update | \$0 | \$192,565 | \$0 | \$0 | \$0 |
| 338 Transmission (Gran/Calero) - Repair | \$1,557,578 | \$0 | \$0 | \$0 | \$0 |
| 904 Van Vleck Tank - Refurbish/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 940 Rio Oso Tank - Rehabilitate | \$0 | \$0 | \$0 | \$0 | \$0 |
| 941 Rio Oso Booster Pump Station- Rehab | \$0 | \$0 | \$0 | \$0 | \$0 |
| 942 Rio Oso Equip. - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1001 Backflow Devices - Replace 50% | \$0 | \$158,304 | \$0 | \$0 | \$0 |
| 1007 Fire hydrants - Replace (Partial) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Rio Oso Fuel Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1016 Water Plant - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1017 Water Plant Membrane - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1020 Flow Sensor (Arena) - Repair/Repl | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1029 Plant #2 - Convert | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1210 Subdrain Pump Stations - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1211 Calero Siphon Pump Station - Repl | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1212 Chesbro Influent Valve - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Hwy 16) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Rio Oso) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Van Vleck) - Replace 25% | \$0 | \$0 | \$54,213 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$424,284 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1903 Water Supply Valves - Replace 10% | \$128,532 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Diversion Struct - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Pump Station - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2149 Water Reservoirs - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2710 Lake Aerators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Vehicles | | | | | |
| 1860 1997 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 1997 Ford F150 - Replace | \$0 | \$0 | \$0 | \$45,966 | \$0 |
| 1862 2000 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2001 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1866 2003 Ford F150 Supercrew - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1867 2011 Ford Ranger - Replace | \$0 | \$36,908 | \$0 | \$0 | \$0 |
| 1868 2013 Ford F-550 Truck - Replace | \$0 | \$0 | \$0 | \$131,087 | \$0 |
| 1870 Utility Vehicle - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1871 1998 Hyster Fork Lift - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1872 Fluid Excavator - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1873 Bobcat Tractor - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$1,686,110 | \$812,062 | \$95,535 | \$177,053 | \$993,712 |
| Ending Reserve Balance: | \$14,645,307 | \$15,860,522 | \$17,903,225 | \$19,984,480 | \$21,370,889 |

Table 5: 30-Year Income/Expense Detail (yrs 20 through 24)

**27003-0
WATER**

| Fiscal Year | 2035 | 2036 | 2037 | 2038 | 2039 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| Starting Reserve Balance | \$21,370,889 | \$15,464,686 | \$17,621,785 | \$20,215,541 | \$22,990,907 |
| Annual Reserve Contribution | \$2,283,190 | \$2,398,491 | \$2,519,615 | \$2,646,856 | \$2,780,522 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$184,100 | \$165,362 | \$189,106 | \$215,940 | \$244,932 |
| Total Income | \$23,838,178 | \$18,028,539 | \$20,330,507 | \$23,078,337 | \$26,016,361 |
| # Component | | | | | |
| Water | | | | | |
| 203 Water Plant Road - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC (WT Facility) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 304 Meters & MXUs - Replace 33% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 314 Equipment - Replace | \$0 | \$0 | \$47,903 | \$0 | \$0 |
| 314 Software/Technology - Update | \$0 | \$223,235 | \$0 | \$0 | \$0 |
| 338 Transmission (Gran/Calero) - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 904 Van Vleck Tank - Refurbish/Repair | \$5,011,959 | \$0 | \$0 | \$0 | \$0 |
| 940 Rio Oso Tank - Rehabilitate | \$0 | \$0 | \$0 | \$0 | \$0 |
| 941 Rio Oso Booster Pump Station- Rehab | \$0 | \$0 | \$0 | \$0 | \$0 |
| 942 Rio Oso Equip. - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1001 Backflow Devices - Replace 50% | \$0 | \$183,518 | \$0 | \$0 | \$0 |
| 1007 Fire hydrants - Replace (Partial) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Rio Oso Fuel Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1016 Water Plant - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1017 Water Plant Membrane - Replace | \$361,222 | \$0 | \$0 | \$0 | \$0 |
| 1020 Flow Sensor (Arena) - Repair/Repl | \$0 | \$0 | \$0 | \$21,315 | \$0 |
| 1029 Plant #2 - Convert | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1210 Subdrain Pump Stations - Repair | \$149,004 | \$0 | \$0 | \$0 | \$0 |
| 1211 Calero Siphon Pump Station - Repl | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1212 Chesbro Influent Valve - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$44,406 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Hwy 16) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Rio Oso) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Van Vleck) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1903 Water Supply Valves - Replace 10% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Diversion Struct - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Pump Station - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2149 Water Reservoirs - Repair | \$2,709,167 | \$0 | \$0 | \$0 | \$0 |
| 2710 Lake Aerators - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Vehicles | | | | | |
| 1860 1997 Ford F250 - Replace | \$0 | \$0 | \$67,064 | \$0 | \$0 |
| 1861 1997 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1862 2000 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2001 Ford F250 - Replace | \$63,214 | \$0 | \$0 | \$0 | \$0 |
| 1864 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1866 2003 Ford F150 Supercrew - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1867 2011 Ford Ranger - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1868 2013 Ford F-550 Truck - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1870 Utility Vehicle - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1871 1998 Hyster Fork Lift - Replace | \$0 | \$0 | \$0 | \$21,709 | \$0 |
| 1872 Fluid Excavator - Replace | \$78,927 | \$0 | \$0 | \$0 | \$0 |
| 1873 Bobcat Tractor - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$8,373,493 | \$406,753 | \$114,966 | \$87,430 | \$0 |
| Ending Reserve Balance: | \$15,464,686 | \$17,621,785 | \$20,215,541 | \$22,990,907 | \$26,016,361 |

Table 5: 30-Year Income/Expense Detail (yrs 25 through 29)

| Fiscal Year | 2040 | 2041 | 2042 | 2043 | 2044 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| Starting Reserve Balance | \$26,016,361 | \$26,582,120 | \$29,459,114 | \$32,213,296 | \$35,472,515 |
| Annual Reserve Contribution | \$2,920,938 | \$3,068,446 | \$3,223,402 | \$3,386,184 | \$3,557,186 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$262,881 | \$280,087 | \$308,231 | \$338,285 | \$373,540 |
| Total Income | \$29,200,180 | \$29,930,652 | \$32,990,747 | \$35,937,765 | \$39,403,241 |
| # Component | | | | | |
| Water | | | | | |
| 203 Water Plant Road - Repair | \$0 | \$0 | \$0 | \$0 | \$82,480 |
| 303 HVAC (WT Facility) - Replace | \$0 | \$0 | \$0 | \$0 | \$17,674 |
| 304 Meters & MXUs - Replace 33% | \$1,170,841 | \$0 | \$0 | \$0 | \$0 |
| 314 Equipment - Replace | \$0 | \$0 | \$55,532 | \$0 | \$0 |
| 314 Software/Technology - Update | \$0 | \$258,791 | \$0 | \$0 | \$0 |
| 338 Transmission (Gran/Calero) - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 904 Van Vleck Tank - Refurbish/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 940 Rio Oso Tank - Rehabilitate | \$0 | \$0 | \$0 | \$0 | \$0 |
| 941 Rio Oso Booster Pump Station- Rehab | \$0 | \$0 | \$0 | \$0 | \$0 |
| 942 Rio Oso Equip. - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1001 Backflow Devices - Replace 50% | \$0 | \$212,748 | \$0 | \$0 | \$0 |
| 1007 Fire hydrants - Replace (Partial) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1015 Rio Oso Fuel Tank - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1016 Water Plant - Major Reconstruction | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1017 Water Plant Membrane - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1020 Flow Sensor (Arena) - Repair/Repl | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1029 Plant #2 - Convert | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1210 Subdrain Pump Stations - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1211 Calero Siphon Pump Station - Repl | \$0 | \$0 | \$721,919 | \$0 | \$0 |
| 1212 Chesbro Influent Valve - Repair | \$125,627 | \$0 | \$0 | \$0 | \$0 |
| 1864 2008 Ford F350 - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1865 2010 Ford Ranger - Replace 50% | \$28,789 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Airport) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Alameda) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Hwy 16) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (MH Park) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Rio Oso) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipeline (Van Vleck) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Unit 1) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (N. Units 2-4) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (RM South) - Replace 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South 7&8) - Replace 25% | \$142,272 | \$0 | \$0 | \$0 | \$0 |
| 1902 Pipelines (South Newest) - Repl 25% | \$0 | \$0 | \$0 | \$263,912 | \$0 |
| 1902 Pipelines (Unit 6) - Repl 25% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1903 Water Supply Valves - Replace 10% | \$172,737 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Diversion Struct - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2114 Granlees Pump Station - Repair | \$732,822 | \$0 | \$0 | \$0 | \$0 |
| 2149 Water Reservoirs - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2710 Lake Aerators - Replace | \$188,440 | \$0 | \$0 | \$0 | \$0 |
| Vehicles | | | | | |
| 1860 1997 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 1997 Ford F150 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1862 2000 Ford F150 - Replace | \$56,532 | \$0 | \$0 | \$0 | \$0 |
| 1863 2001 Ford F250 - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1864 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$61,774 | \$0 |
| 1865 2003 Ford F150 - Replace | \$0 | \$0 | \$0 | \$61,774 | \$0 |
| 1866 2003 Ford F150 Supercrew - Replace | \$0 | \$0 | \$0 | \$77,790 | \$0 |
| 1867 2011 Ford Ranger - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1868 2013 Ford F-550 Truck - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1870 Utility Vehicle - Replace | \$0 | \$0 | \$0 | \$0 | \$35,820 |
| 1871 1998 Hyster Fork Lift - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1872 Fluid Excavator - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1873 Bobcat Tractor - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$2,618,060 | \$471,539 | \$777,451 | \$465,250 | \$135,974 |
| Ending Reserve Balance: | \$26,582,120 | \$29,459,114 | \$32,213,296 | \$35,472,515 | \$39,267,267 |

Accuracy, Limitations, and Disclosures

Because we have no control over future events, we cannot claim that all the events we anticipate will occur as planned. We expect that inflationary trends will continue and we expect that financial institutions will provide interest earnings on funds on-deposit. We believe that reasonable estimates for these figures are much more accurate than ignoring these economic realities. The things we can control are measurements, which we attempt to establish within 5% accuracy. Your starting Reserve Balance and current Reserve interest earnings are also numbers that can be identified with a high degree of certainty. These figures have been provided to us, and were not confirmed by our independent research. Our projections assume a stable economic environment and lack of natural disasters.

Because both the physical status and financial status of the Water Department change each year, this Reserve Study is by nature a “one-year” document. This information can and should be adjusted annually as part of the Reserve Study Update process so that more accurate estimates can be reflected in the Water Department Reserve plan. Reality often differs from even the best assumptions due to changing economic factors, and physical factors. Because many years of financial preparation help prepare for large expenses, this Report shows expenses for the next 30 years. We fully expect a number of adjustments will be necessary through the interim years to both the cost and timing of distant expense projections. It is our recommendation and that of the American Institute of Certified Public Accountants (AICPA) that your Reserve Study be updated annually.

Association Reserves – SF, LLC, and its employees have no ownership, management, or other business relationships with the client other than this Reserve Study engagement. Derek Eckert, R.S., company president, is a credentialed Reserve Specialist (#114). All work done by Association Reserves is performed under his Responsible Charge. There are no material issues to our knowledge that have not been disclosed to the client that would cause a distortion of the CSD’s situation.

We have relied upon the client to provide the current (or projected) Water Department Reserve Balance, the estimated net-after-tax current rate of interest earnings, and to indicate if those earnings accrue to the Water Department Reserve Fund. In addition, we have considered the CSD’s representation of current and historical Water Department Reserve projects reliable, and we have considered the representations made by its vendors and suppliers to also be accurate and reliable.

Component quantities indicated in this Report were derived from the prior Reserve Study, unless otherwise noted in our “Site Inspection Notes”. No destructive or intrusive testing was performed, nor should the site inspection be assumed to be anything other than for budgeting purposes.

Association Reserves’ liability in any matter involving this Reserve Study is limited to our Fee for services rendered.

Where any uncertainties exist, we urge the CSD to obtain a legal review and written opinion of the legitimacy of the funding policies, as stipulated or permitted under your Declaration and local statutes. As these are legal questions, we highly recommend use of an experienced attorney specializing in CSD law.

Re-use of reserve study, figures or calculations in any other format absolves ARSF of all responsibility.

Terms and Definitions

| | |
|------------|--|
| BTU | British Thermal Unit (a standard unit of energy) |
| DIA | Diameter |
| GSF | Gross Square Feet (area) |
| GSY | Gross Square Yards (area) |
| HP | Horsepower |
| LF | Linear Feet (length) |

Effective Age: The difference between Useful Life and Remaining Useful Life. Note that this is not necessarily equivalent to the chronological age of the component.

Fully Funded Balance (FFB): The Reserve Balance that is in direct proportion to the fraction of life “used up” of the current Repair or Replacement cost. This benchmark balance represents the value of the deterioration of the Reserve Components. This number is calculated for each component, then summed together for a CSD total.

$$\text{FFB} = (\text{Current Cost} \times \text{Effective Age}) / \text{Useful Life}$$

Inflation: Cost factors are adjusted for inflation at the rate defined in the Executive Summary and compounded annually. These increasing costs can be seen as you follow the recurring cycles of a component on Table 5.

Interest: Interest earnings on Reserve Funds are calculated using the average balance for the year (taking into account income and expenses through the year) and compounded monthly using the rate defined in the Executive Summary. Annual interest earning assumption appears in the Executive Summary, page ii.

Percent Funded: The ratio, at a particular point in time (typically the beginning of the Fiscal Year), of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage.

Remaining Useful Life: The estimated time, in years, that a Water Department component can be expected to continue to serve its intended function.

Useful Life: The estimated time, in years, that a Water Department component can be expected to serve its intended function.

Photographic Inventory Appendix

Client: 27003A RMCS D - Water

Comp # : 203 **Water Plant Road - Repair**

Quantity: Approx 23,500 GSF

Location : Water Plant Access

Funded? : Yes

History :

Evaluation : Gravel road access to water plant. In good condition and intact. This component provides funding for periodic repairs to the road at roughly the interval below. Update timing and funding as future needs dictate.

Useful Life:
15 years

Remaining Life:
14 years



Best Case: \$30,000

Worst Case: \$40,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Comp # : 303 **HVAC (WT Facility) - Replace**

Quantity: (1) HVAC System

Location : Water Treatment Plant

Funded? : Yes

History :

Evaluation : Unable to inspect the system closely, but no issues reported. Assumed fully functional. We recommend planning to replace at roughly the interval below. Update timing and cost as future needs dictate.

Useful Life:
10 years

Remaining Life:
9 years

Photo Not Available

Best Case: \$6,800

Worst Case: \$8,200

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003A RMCS D - Water

Comp # : 304 Meters & MXUs - Replace 33%

Quantity: 33% of (2610) Connections

Location : Throughout District

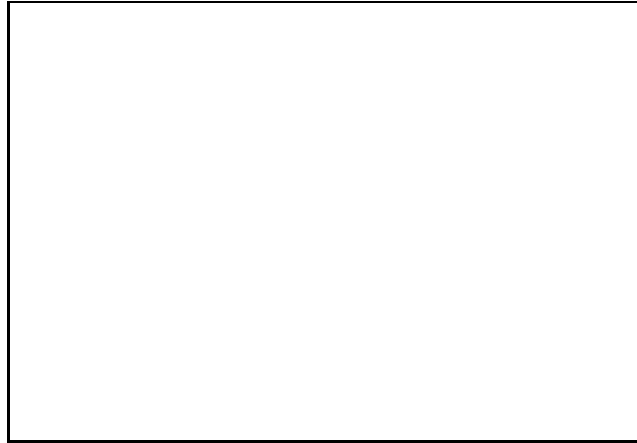
Funded? : Yes

History : 1/3 of meters & MXUs were replaced in 2010.

Evaluation : District meters are SENSUS brand. Some current and future metering will be LPERL meters. Meters are replaced based on accuracy failures, radio read failures or register failure. The District is currently replacing all SR11 and older meters with lperl meters. Each meter has an MXU radiohead transponder. They both have a reported 20 yr life. 1/3 of meters & MXUs were replaced in 2010. This component allows for replacement of 33% every 6-7 years.

Useful Life:
6 years

Remaining Life:
1 years



Best Case: \$508,400

Worst Case: \$610,000

Lower allowance to replace 33%

Higher allowance to replace 33%

Cost Source: Client Cost History

Comp # : 314 Equipment - Replace

Quantity: Various Equipment

Location : Water

Funded? : Yes

History :

Evaluation : No expectation to replace all equipment at one time. This component provides funding for periodic replacement of meters, reading devices, recorders, valve operators, and other equipment at roughly the interval below. Update as future needs dictate.

Useful Life:
5 years

Remaining Life:
2 years

Photo Not Available

Best Case: \$20,000

Worst Case: \$30,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003A RMCS D - Water

Comp # : 314 Software/Technology - Update

Quantity: (4) Software/Techs

Location : Throughout District

Funded? : Yes

History :

Evaluation : No expectation to replace all at one time. Due to advancements in technology, we recommend setting aside funding for upgrades at roughly the interval below. Update as future needs dictate.

Useful Life:
5 years

Remaining Life:
1 years

Photo Not Available

Best Case: \$100,000
Lower allowance to update

Worst Case: \$140,000
Higher allowance to update

Cost Source: ARSF Cost Database

Comp # : 338 Transmission (Gran/Calero) - Repair

Quantity: Approx 9,300 LF

Location : Transmission from Granlees to Calero

Funded? : Yes

History :

Evaluation : Granlees Dam Pumping & Diversion station pumps water to Calero Reservoir. No expectation to replace completely. This component provides funding to repair transmission as needed at roughly the interval below. Update as future needs and conditions dictate.

Useful Life:
20 years

Remaining Life:
15 years



Best Case: \$837,000
Lower allowance to repair

Worst Case: \$1,162,500
Higher allowance to repair

Cost Source: ARSF Cost Database

Client: 27003A RMCS D - Water

Comp # : 904 **Van Vleck Tank - Refurbish/Repair**

Quantity: (1) 3M Gallon Water Tank

Location : Van Vleck Tank

Funded? : Yes

History : Last inspection 2011.

Evaluation : Gravity system. Feeds South side residential area, businesses, and 1/2 of North side of residential area. Inspect every 3-4 years for needed repairs. Update timing and cost as future needs dictate.

Useful Life:
40 years

Remaining Life:
20 years



Best Case: \$2,300,000

Worst Case: \$3,250,000

Lower allowance to refurbish/repair

Higher allowance to refurbish/repair

Cost Source: Client Asset List

Comp # : 940 **Rio Oso Tank - Rehabilitate**

Quantity: (1) 1.2M Gallon Tank

Location : Rio Oso Tank

Funded? : Yes

History : Rebuilt in Dec 2008, inspected in 2011.

Evaluation : 1.2 Million Gallon tank, rehabilitated in 2008. Divers needed for investigation, resealed, recoated, new roof. Inspect every 3-4 years for needed repairs. Update timing and cost as future needs dictate.

Useful Life:
40 years

Remaining Life:
33 years



Best Case: \$1,410,000

Worst Case: \$1,974,000

Lower allowance to rehabilitate

Higher allowance to rehabilitate

Cost Source: Client Asset List

Association Reserves -SF, LLC

Component Details

Client: 27003A RMCSO - Water

Comp # : 941 **Rio Oso Booster Pump Station- Rehab** Quantity: (1) Pump Station

Location : Rio Oso

Funded? : Yes

History :

Evaluation : Pump Station includes; motor control panels, PLC,(2) 125HP Pumps, (2) Variable frequency drives, valves and piping.

Useful Life:
40 years

Remaining Life:
33 years

Photo Not Available

Best Case: \$150,000

Worst Case: \$200,000

Lower allowance to rehabilitate

Higher allowance to rehabilitate

Cost Source: Estimate Provided by Client

Comp # : 942 **Rio Oso Equip. - Replace** Quantity: Generator/Trans Switch

Location : Rio Oso

Funded? : Yes

History :

Evaluation : (1) 230kw Generator, (1) 480 V Transfer switch. This component provides funding to replace the generator and transfer switch at roughly the interval below.

Useful Life:
40 years

Remaining Life:
33 years

Photo Not Available

Best Case: \$125,000

Worst Case: \$180,000

Lower allowance to Replace

Higher allowance to Replace

Cost Source: ARSF Cost Database

Client: 27003A RMCS D - Water

Comp # : 1001 Backflow Devices - Replace 50%

Quantity: (46) of (93) Backflows

Location : Throughout District

Funded? : Yes

History :

Evaluation : We recommend having the backflow tested annually by a backflow professional to ensure functionality. This component allows for replacement of 50% of backflow devices every 5 years.

Useful Life:
5 years

Remaining Life:
1 years



Best Case: \$89,700
Lower allowance to replace

Worst Case: \$107,600
Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 1007 Fire hydrants - Replace (Partial)

Quantity: (43) of (174) Hydrants

Location : Throughout District

Funded? : Yes

History :

Evaluation : This component provides funding to replace approximately 43 hydrants and associated valve every 25 years, as-needed. Adjust future funding as needs dictate.

Useful Life:
25 years

Remaining Life:
5 years



Best Case: \$150,500
Lower allowance to replace

Worst Case: \$180,600
Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003A RMCS D - Water

Comp # : 1015 Rio Oso Fuel Tank - Replace

Quantity: (1) Fuel Tank

Location : Adjacent to Rio Oso Storage Tank

Funded? : Yes

History :

Evaluation : Although timing for replacement is difficult to predict, we recommend setting aside funding to replace at roughly the interval below. Cost includes disposal.

Useful Life:
40 years

Remaining Life:
30 years



Best Case: \$10,000

Worst Case: \$30,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 1016 Water Plant - Major Reconstruction

Quantity: Water Plant

Location : Water Plant

Funded? : Yes

History :

Evaluation : The water treatment facility is currently under construction. Plant 1 will be completely demolished and replaced with a membrane facility. Plant 2 building & basins will remain. This component provides funding for one-time costs in 2015 associated with the Water Plant upgrade.

Useful Life:
40 years

Remaining Life:
40 years



Best Case: \$11,000,000

Worst Case: \$13,000,000

Lower allowance for major reconstruction

Higher allowance for major reconstruction

Cost Source: Client Cost History

Client: 27003A RMCS D - Water

Comp # : 1017 **Water Plant Membrane - Replace**

Quantity: Approx (95) sets

Location : Water Plant

Funded? : Yes

History :

Evaluation : The water treatment facility is currently under construction. Plant 1 will be completely demolished and replaced with a membrane facility. This component provides funding to replace membranes roughly every 5-10 years.



Useful Life:
10 years

Remaining Life:
10 years

Best Case: \$180,000
Lower allowance to replace

Worst Case: \$220,000
Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 1020 **Flow Sensor (Arena) - Repair/Repl**

Quantity: (1) Flow Sensor

Location : Arena Area

Funded? : Yes

History : Installed in 2013.

Evaluation : Flow sensor at the Equestrian Arena was installed in 2013. Currently no problem are reported. Plan on repairs or partial replacement at roughly the interval listed below.



Useful Life:
25 years

Remaining Life:
23 years

Best Case: \$9,000
Lower allowance to repair/replace

Worst Case: \$12,600
Higher allowance to repair/replace

Cost Source: Client Cost History

Client: 27003A RMCS D - Water

Comp # : 1029 Plant #2 - Convert

Quantity: Plant #2

Location : Water Plant

Funded? : Yes

History :

Evaluation : Plant #2 Filtration room is clean and in good condition. Plant #2 will ultimately be de-commissioned and possibly converted to chemical storage. This component provides funding for the one time expense to convert Plant #2 accordingly. Update as future needs dictate.

Useful Life:

Remaining Life:
5 years



Best Case: \$5,000

Worst Case: \$10,000

Lower allowance to maintain

Higher allowance to maintain

Cost Source: ARSF Cost Database

Comp # : 1210 Subdrain Pump Stations - Repair

Quantity: (6) Subdrain Pump Station

Location : (3) Calero, (2) Chesbro, (1) Clementia

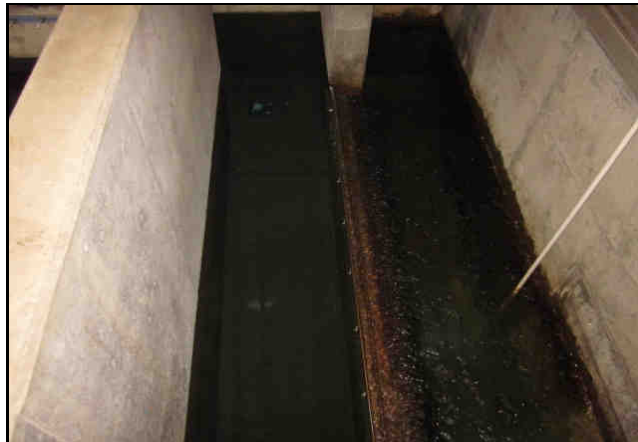
Funded? : Yes

History : (2) Pumps at Clementia will be replaced in 2014.

Evaluation : There are (6) subdrain pump stations; (3) Calero, (2) Chesbro, (1) Clementia. This component provides funding for period repairs as needed. Update timing and cost as future needs dictate. Update future reserve studies to separate subdrain pumps if certain locations are repaired more frequently or more extensively than others.

Useful Life:
15 years

Remaining Life:
5 years



Best Case: \$75,000

Worst Case: \$90,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Client: 27003A RMCS D - Water

Comp # : 1211 Calero Siphon Pump Station - Repl

Quantity: (1) Siphon Pump Station

Location : Peninsula of Calero Reservoir

Funded? : Yes

History :

Evaluation : These pumps are used to fill the transfer line from Calero to Chesbro when Calero's level drops. Once the line is filled and the valve at Chesbro is opened, it allows it to pull a siphon and the pumps can be shut back off. This component provides funding to repair/replace the pump station as needed at roughly the interval below.

Useful Life:
15 years

Remaining Life:
12 years



Best Case: \$250,000

Worst Case: \$400,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Client Assrt List

Comp # : 1212 Chesbro Influent Valve - Repair

Quantity: Siphon Influent Control

Location : Lake Chesbro

Funded? : Yes

History :

Evaluation : The siphon pumps at Lake Calero are used to fill the transfer line from Calero to Chesbro when Calero's level drops. Once the line is filled, this valve at Chesbro is opened. It allows it to pull a siphon and the pumps at Calero can be shut back off. This component provides funding to repair/replace the pump station as needed at roughly the interval below.

Useful Life:
15 years

Remaining Life:
10 years



Best Case: \$50,000

Worst Case: \$70,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Client: 27003A RMCS D - Water

Comp # : 1864 2008 Ford F350 - Replace 50%

Quantity: (1) Ford F350, V#0663

Location : Water

Funded? : Yes

History :

Evaluation : 2008 Ford F350 STD Cab. Diesel. Current mileage: 47,387. In good condition. 50% of this vehicle is funded out of Sewer and 50% out of Water. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
15 years

Remaining Life:
8 years



Best Case: \$20,000

Worst Case: \$25,000

Lower allowance to replace 50%

Higher allowance to replace 50%

Cost Source: Current MSRP

Comp # : 1865 2010 Ford Ranger - Replace 50%

Quantity: (1) Ford Ranger, V#8210

Location : Water

Funded? : Yes

History :

Evaluation : 2010 Ford Ranger. Current mileage: 12,946. 50% of this vehicle is funded out of Sewer and 50% out of Water. In good condition. No signs of dents or scratches. Ford no longer makes the Ranger, so replacement cost is for a comparable size vehicle. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
15 years

Remaining Life:
10 years



Best Case: \$12,500

Worst Case: \$15,000

Lower allowance to replace 50%

Higher allowance to replace 50%

Cost Source: Current MSRP

Association Reserves -SF, LLC

Component Details

Client: 27003A RMCSA - Water

Comp # : 1902 **Pipeline (Airport) - Replace 25%** Quantity: Approx 4,000 LF X 25%

Location : Airport

Funded? : Yes

History :

Evaluation : This component provides funding to replace the water pipeline running to the Airport. Update timing and cost as needed.

Useful Life:

40 years

Remaining Life:

7 years

Photo Not Available

Best Case: \$37,600

Worst Case: \$44,800

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Comp # : 1902 **Pipeline (Alameda) - Replace 25%** Quantity: Approx 3,750 LF X 25%

Location : Alameda Dr.

Funded? : Yes

History : 1974

Evaluation : This component provides funding to replace the Alameda Drive water pipeline. Update timing and cost as needed.

Useful Life:

40 years

Remaining Life:

0 years

Photo Not Available

Best Case: \$35,250

Worst Case: \$42,000

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003A RMCS D - Water

Comp # : 1902 Pipeline (Hwy 16) - Replace 25% Quantity: Approx 6,000 LF X 25%
Location : Hwy 16
Funded? : Yes
History : 1974

Evaluation : This component provides funding to replace the Hwy 16 water pipeline. Update timing and cost as needed.

Useful Life:
40 years

Remaining Life:
0 years

Photo Not Available

Best Case: \$56,400
Lower allowance to replace 25%

Worst Case: \$67,200
Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Comp # : 1902 Pipeline (MH Park) - Replace Quantity: Approx 11,250 LF
Location : Commercial - Mobile Home Park
Funded? : Yes
History : Original, Installed 1970.

Evaluation : This component provides funding to replace the water pipeline running to the Mobile Home Park. During the site visit we were informed that the pipelines to the Mobile Home Park are due for replacement. Funding is provided below for a complete replacement. Update timing and cost as future conditions dictate.

Useful Life:
40 years

Remaining Life:
0 years

Photo Not Available

Best Case: \$528,800
Lower allowance to replace

Worst Case: \$630,000
Higher allowance to replace

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003A RMCSO - Water

Comp # : 1902 Pipeline (Rio Oso) - Replace 25%

Quantity: Approx 4,480 LF X 25%

Location : Water Plant to Rio Oso Tank

Funded? : Yes

History :

Evaluation : 14" pipeline providing 35,937 gallons of water between the Water Plant and Rio Oso Tank. This component provides funding to replace the pipeline at roughly the interval below. Update timing and cost as needed.

Useful Life:

40 years

Remaining Life:

6 years

Photo Not Available

Best Case: \$42,200

Worst Case: \$50,200

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Comp # : 1902 Pipeline (Van Vleck) - Replace 25%

Quantity: Approx 3,180 LF X 25%

Location : Throughout District

Funded? : Yes

History :

Evaluation : 16" Pipeline transmissions; Water Plant to Bass Lake: 5,674LF, Bass Lake to North side: 2,292LF, River crossing N to S: 355LF, South River to Van Vleck: 3,895LF, Van Vleck to Murieta S. Pkwy:5,220LF, Bass Lake to Unit 6: 1,550LF. This component provides funding to replace the water pipeline at roughly the interval below. Update timing and cost as needed.

Useful Life:

40 years

Remaining Life:

17 years

Photo Not Available

Best Case: \$29,900

Worst Case: \$35,700

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003A RMCS D - Water

Comp # : 1902 Pipelines (N. Unit 1) - Replace 25%

Quantity: Approx 19,200 LF X 25%

Location : Units 1-4 of RMCS D

Funded? : Yes

History : Installed 1974.

Evaluation : This component provides funding to replace the water pipeline running to Unit No. 1. Update timing and cost as needed.

Useful Life:
40 years

Remaining Life:
0 years

Photo Not Available

Best Case: \$180,500

Worst Case: \$215,000

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Comp # : 1902 Pipelines (N. Units 2-4) - Repl 25%

Quantity: Approx 69,150 LF X 25%

Location : North Side Units 1-4 of RMCS D

Funded? : Yes

History : Installed between 1979-1982.

Evaluation : This component provides funding to replace the water pipeline running to Units 2-4. Update timing and cost as needed.

Useful Life:
40 years

Remaining Life:
5 years

Photo Not Available

Best Case: \$650,000

Worst Case: \$774,500

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003A RMCSO - Water

Comp # : 1902 Pipelines (RM South) - Replace 25%

Quantity: Approx 25,670 LF X 25%

Location : Rancho Murieta South

Funded? : Yes

History : Installed between 1990-1992.

Evaluation : This component provides funding to replace the water pipeline running to Rancho Murieta South Units; 1A/B, 2A/B, 3, 4, 5, 6. Update timing and cost as needed.

Useful Life:
40 years

Remaining Life:
16 years

Photo Not Available

Best Case: \$241,300

Worst Case: \$287,500

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Comp # : 1902 Pipelines (South 7&8) - Replace 25%

Quantity: Approx 6,600 LF X 25%

Location : Rancho Murieta South - Units 7 & 8

Funded? : Yes

History : Installed between 1999-2001.

Evaluation : This component provides funding to replace the water pipeline running to Rancho Murieta South Units 7 & 8. Update timing and cost as needed.

Useful Life:
40 years

Remaining Life:
25 years

Photo Not Available

Best Case: \$62,000

Worst Case: \$73,900

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003A RMCS D - Water

Comp # : 1902 Pipelines (South Newest) - Repl 25% Quantity: Approx 11,200 LF X 25%
Location : Rancho Murieta South - Unit 9 , Crest & Greens
Funded? : Yes

History : Installed between 2002-2004.

Evaluation : This component provides funding to replace the water pipeline running to Rancho Murieta South; Unit 9 , Crest & Greens. Update timing and cost as needed.

Useful Life:
40 years

Remaining Life:
28 years

Photo Not Available

Best Case: \$105,300

Worst Case: \$125,400

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Comp # : 1902 Pipelines (Unit 6) - Repl 25% Quantity: Approx 11,800 LF X 25%
Location : Rancho Murieta North - Unit 6
Funded? : Yes

History :

Evaluation : This component provides funding to replace the water pipeline running to Rancho Murieta North, Unit 6. 5,600' of 14", 5,650' of 8", and 550' of 6" of class 150 C900 pipe. Update timing and cost as needed.

Useful Life:
40 years

Remaining Life:
8 years

Photo Not Available

Best Case: \$105,000

Worst Case: \$125,000

Lower allowance to replace 25%

Higher allowance to replace 25%

Cost Source: ARSF Cost Database

Association Reserves -SF, LLC

Component Details

Client: 27003A RMCS D - Water

Comp # : 1903 Water Supply Valves - Replace 10% Quantity: Approx 900 X 10%

Location : Throughout Water Supply System

Funded? : Yes

History :

Evaluation : There are approximately 900 valves in the water supply system for the CSD. Valves vary in size from 2" to 18". This component provides funding to replace 10% of valves every 10 years. Update timing and cost as future needs dictate.

Useful Life:

10 years

Remaining Life:

5 years

Photo Not Available

Best Case: \$75,000

Worst Case: \$90,000

Lower allowance to replace 10%

Higher allowance to replace 10%

Cost Source: ARSF Cost Database

Comp # : 2114 Granlees Diversion Struct - Repair Quantity: (1) Diversion Structure

Location : Granlees Lift Station

Funded? : Yes

History : Repaired in 2014.

Evaluation : Granlees Diversion Station. RMCS D diverts water from the Cosumnes River into the CIA Ditch (Cosumnes Irrigation Association) from Nov. 1-May 31st of each year for raw water storage. Amount and times vary depending on river levels. During our site inspection it was pointed out the the structure shows signs of cracking/movement. We recommend a professional inspection.

Useful Life:

40 years

Remaining Life:

39 years



Best Case: \$150,000

Worst Case: \$200,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Client: 27003A RMCS D - Water

Comp # : 2114 Granlees Pump Station - Repair

Quantity: Raw Water Pump Station

Location : Granlees Lift Station

Funded? : Yes

History :

Evaluation : Granlees Dam Pumping & Diversion station pumps water to Calero Reservoir. (3) 500HP Pumps and (2) 150HP Pumps. No expectation to replace completely. This component provides funding for periodic repairs/replacement of pumps at roughly the interval listed below. Update timing and cost as future needs dictate.

Useful Life:
15 years

Remaining Life:
10 years



Best Case: \$300,000

Worst Case: \$400,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Comp # : 2149 Water Reservoirs - Repair

Quantity: Raw Water Storage Lakes

Location : Calero, Chesbro & Clemntia

Funded? : Yes

History :

Evaluation : (3) Reservoirs throughout the CSD. Calero - 2,630 Acres. Fed from Granlees pump station. Gravity feeds when level is high to Chesbro or is siphoned when level is lower. Chesbro - 1,131 Acres, Gravity feeds to Water Plant for water production. Clementia - 907 Acres, may be pumped to Water Plant as an emergency water source. This component provides funding for periodic repairs as needed.

Useful Life:
40 years

Remaining Life:
20 years



Best Case: \$1,000,000

Worst Case: \$2,000,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Client: 27003A RMCS D - Water

Comp # : 2710 Lake Aerators - Replace

Quantity: (3) Aerators

Location : Lake Chesbro

Funded? : Yes

History :

Evaluation : Aeration in Lake Chesbro is used to keep the lake mixed and oxidize Iron or Maganese. This component provides funding to replace at roughly the interval below. Update as future needs dictate.

Useful Life:
15 years

Remaining Life:
10 years



Best Case: \$81,000

Worst Case: \$99,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003A1 RMCS Water - Vehicles

Comp # : 1860 1997 Ford F250 - Replace

Quantity: (1) Ford F250, V#211

Location : Water

Funded? : Yes

History :

Evaluation : 1997 Ford F250. Current mileage: 79,191. In fair condition. Noticed dents and paint peeling. Routine maintenance should be performed to maximize useful life of the vehicle. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
20 years

Remaining Life:
2 years



Best Case: \$32,000

Worst Case: \$38,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Comp # : 1861 1997 Ford F150 - Replace

Quantity: (1) Ford F150, V#7003

Location : Water

Funded? : Yes

History :

Evaluation : 1997 Ford F150. Current mileage: 109,543. In fair condition. Rust and dents are noted. Generally the CSD replaces vehicles once they reach 100,000 miles. Update timing and funding as future needs dictate.

Useful Life:
18 years

Remaining Life:
0 years



Best Case: \$25,000

Worst Case: \$29,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Client: 27003A1 RMCS Water - Vehicles

Comp # : 1862 2000 Ford F150 - Replace

Quantity: (1) Ford F150, V#6367

Location : Water

Funded? : Yes

History :

Evaluation : 2000 Ford F150. Current mileage: 75,625. In fair condition with some minor scratches and dents. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
20 years

Remaining Life:
5 years



Best Case: \$25,000

Worst Case: \$29,000

Lower allowance to replace/repair

Higher allowance to replace/repair

Cost Source: Current MSRP

Comp # : 1863 2001 Ford F250 - Replace

Quantity: (1) Ford F250, V#8524

Location : Water

Funded? : Yes

History :

Evaluation : 2001 Ford F250 Super Duty. Current mileage: 84,654. In fair condition. Some minor scratches. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
17 years

Remaining Life:
3 years



Best Case: \$32,000

Worst Case: \$38,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Client: 27003A1 RMCS D Water - Vehicles

Comp # : 1864 2003 Ford F150 - Replace

Quantity: (1) Ford F150, V#4584

Location : Water

Funded? : Yes

History :

Evaluation : 2003 Ford F150 STD Cab. Current mileage: 70,240. In good condition. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
20 years

Remaining Life:
8 years



Best Case: \$25,000

Worst Case: \$29,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Comp # : 1865 2003 Ford F150 - Replace

Quantity: (1) Ford F150, V#3817

Location : Water

Funded? : Yes

History :

Evaluation : 2003 Ford F150. Current mileage: 111,806. In good condition. No major damage noted. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
20 years

Remaining Life:
8 years



Best Case: \$25,000

Worst Case: \$29,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Client: 27003A1 RMCS Water - Vehicles

Comp # : 1866 2003 Ford F150 Supercrew - Replace Quantity: (1) Ford F150, V#3233

Location : Water

Funded? : Yes

History :

Evaluation : 2003 Ford F150 Supercrew. Current mileage: 33,544 In good condition. No signs of major dents or paint chipping. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
20 years

Remaining Life:
8 years



Best Case: \$31,000

Worst Case: \$37,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Comp # : 1867 2011 Ford Ranger - Replace Quantity: (1) Ford Ranger, V#5636

Location : Water

Funded? : Yes

History :

Evaluation : 2011 Ford Ranger. Current mileage: 17,165. Unable to inspect during site visit as the vehicle was in use. Ford no longer makes the Ranger, so replacement cost is for a comparable size vehicle. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
20 years

Remaining Life:
16 years

Photo Not Available

Best Case: \$21,000

Worst Case: \$25,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Client: 27003A1 RMCS Water - Vehicles

Comp # : 1868 **2013 Ford F-550 Truck - Replace** Quantity: (1) Ford F-550 Truck

Location : Water

Funded? : Yes

History :

Evaluation : 2013 Ford F-550 Truck. Current mileage: 4,868. Unable to inspect during site visit as the vehicle was in use. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:
20 years

Remaining Life:
18 years

Photo Not Available

Best Case: \$65,000

Worst Case: \$89,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Comp # : 1870 **Utility Vehicle - Replace** Quantity: (1) Utility Vehicle

Location : Water

Funded? : Yes

History :

Evaluation : Vehicle is in good condition. Expected wear and tear. Stored in a semi-protected location. We recommend setting aside funding to replace at roughly the interval below.

Useful Life:
20 years

Remaining Life:
9 years



Best Case: \$13,800

Worst Case: \$16,600

Lower allowance to replace/repair

Higher allowance to replace/repair

Cost Source: Client Asset List

Client: 27003A1 RMCS Water - Vehicles

Comp # : 1871 1998 Hyster Fork Lift - Replace

Quantity: (1) 1998 Hyster Fork Lift

Location : Water

Funded? : Yes

History :

Evaluation : Forklift is in good condition. No problems reported, assumed functional. This component provides funding to replace the forklift at roughly the interval below.

Useful Life:
20 years

Remaining Life:
3 years



Best Case: \$10,000

Worst Case: \$12,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Client Asset List

Comp # : 1872 Fluid Excavator - Replace

Quantity: (1) Fluid Excavator

Location : Water

Funded? : Yes

History :

Evaluation : (1) Fluid Excavator

Useful Life:
15 years

Remaining Life:
5 years

Photo Not Available

Best Case: \$39,700

Worst Case: \$47,700

Lower allowance to replace

Higher allowance to replace

Cost Source: Client Asset List

Client: 27003A1 RMCS Water - Vehicles

Comp # : 1873 Bobcat Tractor - Replace Quantity: (1) Bobcat Comp. Tractor

Location : Water

Funded? : Yes

History :

Evaluation : Bobcat compact tractor is in good condition. Stored in a semi-protected location. We recommend setting aside funding to replace at roughly the interval below.

Useful Life:
25 years

Remaining Life:
12 years



Best Case: \$75,000
Lower allowance to replace

Worst Case: \$100,000
Higher allowance to replace

Cost Source: ARSF Cost Database

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Reserve Studies for Community Associations

“Full” Reserve Study



RMCS D – Security Department Rancho Murieta, CA

Report #: 27003-0 SECURITY
For Period Beginning: July 1, 2015
Expires: June 30, 2016

Date Prepared: January 16, 2015



Hello, and welcome to your Reserve Study!

This Report is a valuable budget planning tool, for with it you control the future of your CSD's Security Department. It contains all the fundamental information needed to understand your current and future Reserve obligations, the most significant expenditures your Security Department will face.

With respect to Reserves, this Report will tell you "where you are", and "where to go from here".

In this Report, you will find...

- 1) A List of What you're Reserving For**
- 2) An Evaluation of your Reserve Fund Size and Strength**
- 3) A Recommended Multi-Year Reserve Funding Plan**

More Questions?

Visit our website at www.ReserveStudy.com or call us at:

877/618-1955



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3- Minute Executive Summary

Name: RMCS D – Security Department **Assoc. #: 27003-0**
SECURITY
Location: Rancho Murieta, CA
of Units: 1
Report Period: July 1, 2015 through June 30, 2016

Results as-of 7/1/2015:

| | |
|--|------------------|
| Projected Starting Reserve Balance: | \$148,821 |
| Fully Funded Reserve Balance: | \$256,601 |
| Average Reserve Deficit (Surplus) Per Unit: | \$107,780 |
| Percent Funded: | 58.0% |
| Recommended 2015/16 monthly Reserve Contribution: | \$3,800 |

Most Recent Reserve Contribution Rate:..... \$0

Economic Assumptions:

Net Annual “After Tax” Interest Earnings Accruing to Reserves..... 1.00%
Annual Inflation Rate..... 3.00%

- This is a “Full” Reserve Study (original, created “from scratch”).
- The information in this Reserve Study is based on our site inspection on August 4, 2014.
- This Reserve Study was prepared under the supervision of a credentialed Reserve Specialist (RS).
- Because your Reserve Fund is at 58.0% Funded, this means the CSD’s Security Department need for a transfer to Reserves & deferred maintenance risk is currently high.
- Your multi-year Funding Plan is designed to gradually bring you to the 100% level, or “Fully Funded”.
- Based on this starting point, your anticipated future expenses, and your historical Reserve contribution rate, our recommendation is to increase your Reserve contributions.
- No assets appropriate for Reserve designation were excluded.

| # | Component | Useful Life (yrs) | Rem. Useful Life (yrs) | Current Average Cost | Future Average Cost |
|------|-------------------------------------|-------------------------|------------------------------|----------------------------|---------------------------|
| 302 | Generator - Replace (South) | 40 | 25 | \$30,000 | \$62,813 |
| 302 | Generators - Replace (North) | 40 | 40 | \$37,000 | \$120,695 |
| 303 | HVAC - Replace 50% | 10 | 6 | \$7,500 | \$8,955 |
| 304 | Security Systems - Replace | 8 | 1 | \$62,500 | \$64,375 |
| 704 | Intercoms - Replace | 15 | 2 | \$14,500 | \$15,383 |
| 705 | Gate Operators(North) - Repl/Repair | 10 | 5 | \$18,000 | \$20,867 |
| 706 | Gate Oper. New(North) - Repl/Repair | 10 | 10 | \$44,550 | \$59,871 |
| 707 | Gate Operators(South) - Repl/Repair | 10 | 3 | \$27,000 | \$29,504 |
| 1808 | Safety Center - Repair/Upgrade | 20 | 9 | \$12,000 | \$15,657 |
| 1809 | South Gate Sec. Bldg. - Repair | 30 | 10 | \$5,250 | \$7,056 |
| 1810 | Barcode Readers (North) - Replace | 7 | 2 | \$19,500 | \$20,688 |
| 1810 | Barcode Readers (South) - Replace | 7 | 2 | \$29,250 | \$31,031 |
| 1860 | 2012 Ford Escape XLS - Replace | 20 | 7 | \$26,000 | \$31,977 |
| 1861 | 2005 Ford Ranger VIPS - Replace | 20 | 5 | \$23,000 | \$26,663 |
| 1862 | 2006 Ford Explorer XLT #517 - Repl. | 20 | 1 | \$35,500 | \$36,565 |
| 1863 | 2010 Ford Escape XLS #519- Repl. | 20 | 2 | \$26,000 | \$27,583 |
| 2501 | Radios - Replace/Upgrade | 7 | 0 | \$11,000 | \$13,529 |
| 17 | Total Funded Components | | | | |

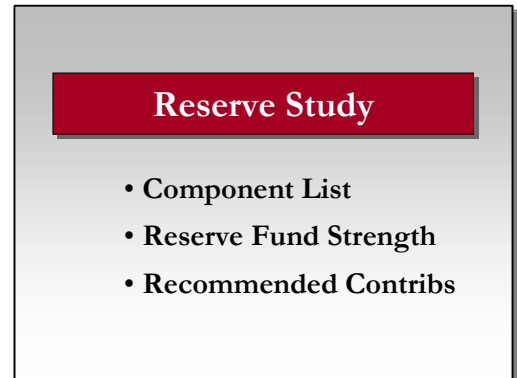
Note 1: **Yellow highlighted** line items are expected to require attention in initial year.

Note 2: a Useful Life of "N/A" means a one-time expense, not expected to repeat.

Introduction

A Reserve Study is the art and science of anticipating, and preparing for, a CSD's major repair and replacement expenses. Partially art, because in this field we are making projections about the future. Partially science, because our work is a process of research and analysis along well defined methodologies.

In this Report you will find the Reserve Component List (what you are reserving for). It contains our estimates for Useful Life, Remaining Useful Life, and the current repair or replacement cost for each major component the Security Department is obligated to maintain. Based on that List and your starting balance we computed the Security Department's Reserve Fund Strength (measured as "Percent Funded"), and created a recommended multi-year Reserve Funding Plan to offset future Reserve expenses.

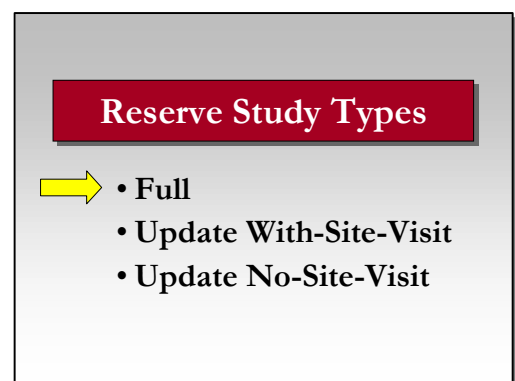


As the physical assets age and deteriorate, it is important to accumulate financial assets to keep the two "in balance". A stable Reserve Funding Plan that offsets the irregular Reserve expenses will ensure that each owner pays their own "fair share" of ongoing deterioration.

Methodology

First we establish what the projected expenses are, then we determine the Security Department's financial status and create a Funding Plan. For this "Full" Reserve Study, we started with a review of your Governing Documents, recent Reserve expenditures, an evaluation of how expenditures are handled (ongoing maintenance vs Reserves), and research into any well-established CSD precedents.

We performed an on-site inspection to quantify and evaluate your common areas, creating your Reserve Component List "from scratch".



Which Physical Assets are Covered by Reserves?

There is a national-standard four-part test to determine which expenses should be funded through Reserves. First, it must be a Security Department maintenance responsibility. Second, the component must have a limited life. Third, the limited life must be predictable (or it by definition is a “surprise” which cannot be accurately anticipated). Fourth, the component must be above a minimum threshold cost. This limits Reserve Components to major, predictable expenses. Within this framework, it is inappropriate to include “lifetime” components, unpredictable expenses (such as damage due to fire, flood, or earthquake), and expenses more appropriately handled from the Operational Budget or as an insured loss.

How are Useful Life and Remaining Useful Life established?

- 1) Visual Inspection (observed wear and age)
- 2) Association Reserves database of experience
- 3) Client Component History
- 4) Vendor Evaluation and Recommendation

How are Cost Estimates Established?

Financial projections are based on the average of our Best Case and Worst Case estimates, which are established in this order...

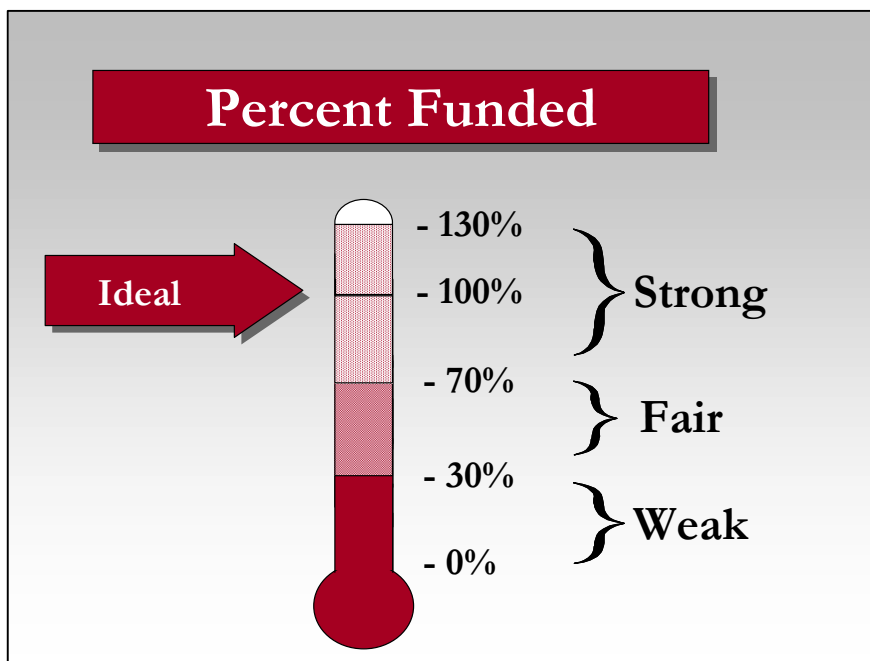
- 1) Client Cost History
- 2) Comparison to Association Reserves database of work done at similar CSDs
- 3) Vendor Recommendations
- 4) Reliable National Industry cost estimating guidebooks

How much Reserves are enough?

Your Reserve cash Balance can measure reserves, but the true measure is whether the funds are adequate. Adequacy is measured in a two-step process:

- 1) Calculate the Security Department Fully Funded Balance (FFB).
- 2) Compare to the Security Department Reserve Fund Balance, and express as a percentage.

The FFB grows as assets age and the Reserve needs of the CSD Security Department increase, but shrinks when projects are accomplished and the Reserve needs of the CSD Security Department decrease. The Fully Funded Balance changes each year, and is a moving but predictable target.



Deferred maintenance and the need for a transfer of funds to Reserves are common when the Percent Funded is below 30%. While the 100% point is Ideal, a Reserve Fund in the 70% -130% range is considered “strong” because in this range cash flow problems are rare.

Measuring your Reserves by Percent Funded tells how well prepared your CSD Security Department is for upcoming Reserve expenses.

How much should we contribute?

There are four Funding Principles that we balance in developing your Reserve Funding Plan. Our first objective is to design a plan that provides you with sufficient cash to perform your Reserve projects on time. A stable contribution rate is desirable because it is a hallmark of a proactive plan.

Reserve contributions that are evenly distributed over the owners, over the years, enable each owner to pay their “fair share” of the CSD’s Security Department Reserve expenses (this means we recommend a transfer of funds only when all other options have been exhausted). We develop a plan that is fiscally responsible and “safe” for Board Members to recommend to their CSD Security Department.

Funding Principles

- Sufficient Cash
- Stable Contribution Rate
- Evenly Distributed
- Fiscally Responsible

What is our Recommended Funding Goal?

Maintaining the Reserve Fund at a level equal to the physical deterioration that has occurred is called “Full Funding” the Reserves (100% Funded). As each asset ages and becomes “used up”, the Reserve Fund grows proportionally. **This is simple, responsible, and our recommendation.** As stated previously, CSDs in the 100% range rarely experience deferred maintenance or the need for a transfer of funds to Reserves.

Allowing the Reserves to fall close to zero, but not below zero, is called Baseline Funding. In these CSDs, deterioration occurs without matching Reserve contributions. With a low Percent Funded, deferred maintenance or the need for a transfer of funds to Reserves is common.

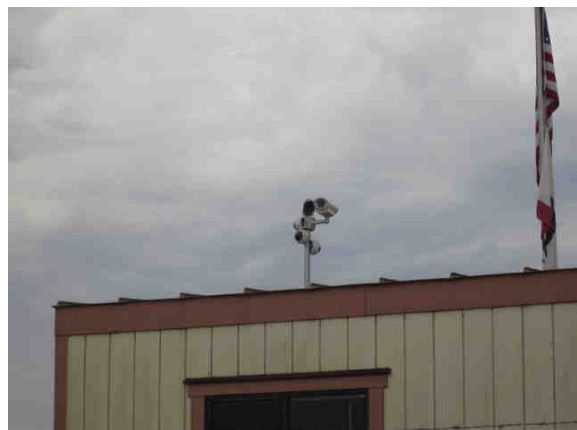
Threshold Funding is the title of all other objectives randomly selected between Baseline Funding and Full Funding.

Funding Goals

- Full Funding
- Threshold Funding
- Baseline Funding

Site Inspection Notes

During our site visit on August 4, 2014, we started with a brief meeting with Paul Siebensohn (Director of Field Operations), and then started the site inspection beginning with the Security Department main office. We visually inspected all of the security areas.



Projected Expenses

The figure below shows the array of the projected future expenses at your CSD’s Security Department. All expenses are based on the average of our Best Case and Worst Case projections, inflated appropriately for future years.

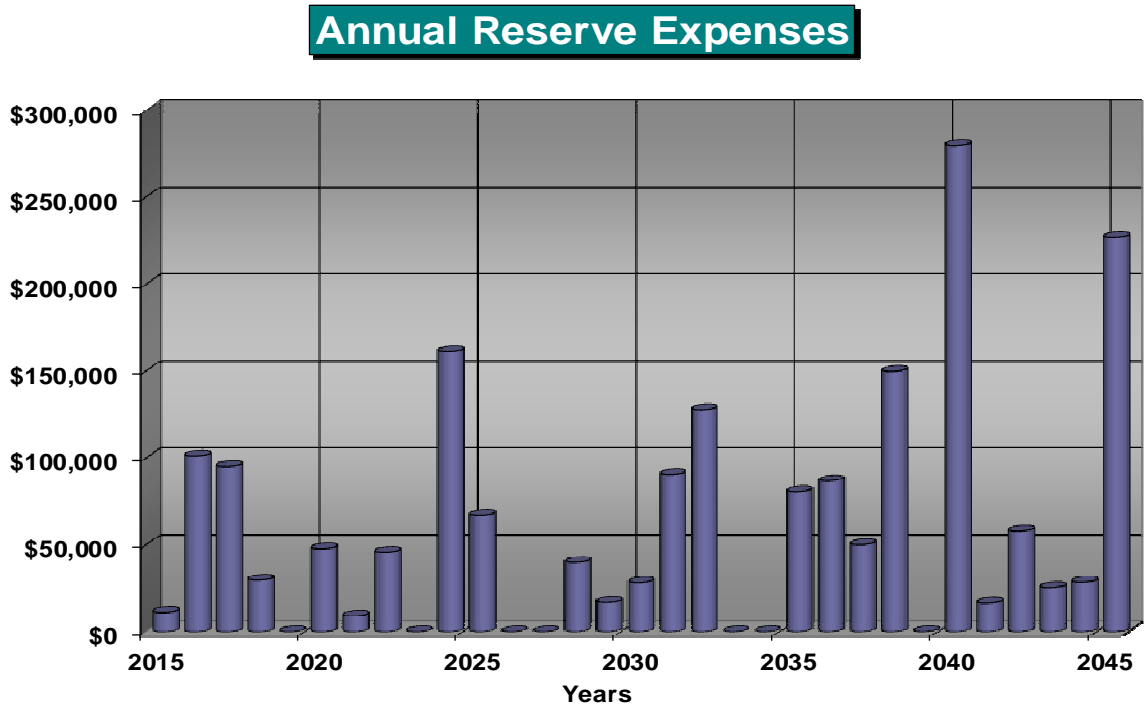


Figure 1

A summary of this information is shown in Table 4, while details of the projects that make up this information are shown in Table 5. Since this is a projection about future events that may or may not take place as anticipated, we feel more certain about “near-term” projects than those many years away. While this Reserve Study is a one-year document, it is based on 30 years’ worth of looking forward into the future.

Reserve Fund Status

The starting point for our financial analysis is your Reserve Fund balance, projected to be \$148,821 as-of the start of your Fiscal Year on July 1, 2015. This is based on your actual balance on 1/16/15 of \$101,001, transfer of \$47,820, no anticipated regular Reserve contributions and no expenses projected through the end of your Fiscal Year. As of July 1, 2015, your Fully Funded Balance is computed to be \$256,601 (see Table 3). This figure represents the deteriorated value of your Security Department components. Comparing your Reserve Balance to your Fully Funded Balance indicates your Reserves are 58% Funded.

Recommended Funding Plan

Based on your current Percent Funded and your projected cash flow requirements, we are recommending Reserve contributions of \$3,800/month this 2015/16 Fiscal Year. This represents the first year of the 30-year Funding Plan shown below. This same information is shown numerically in both Table 4 and Table 5.

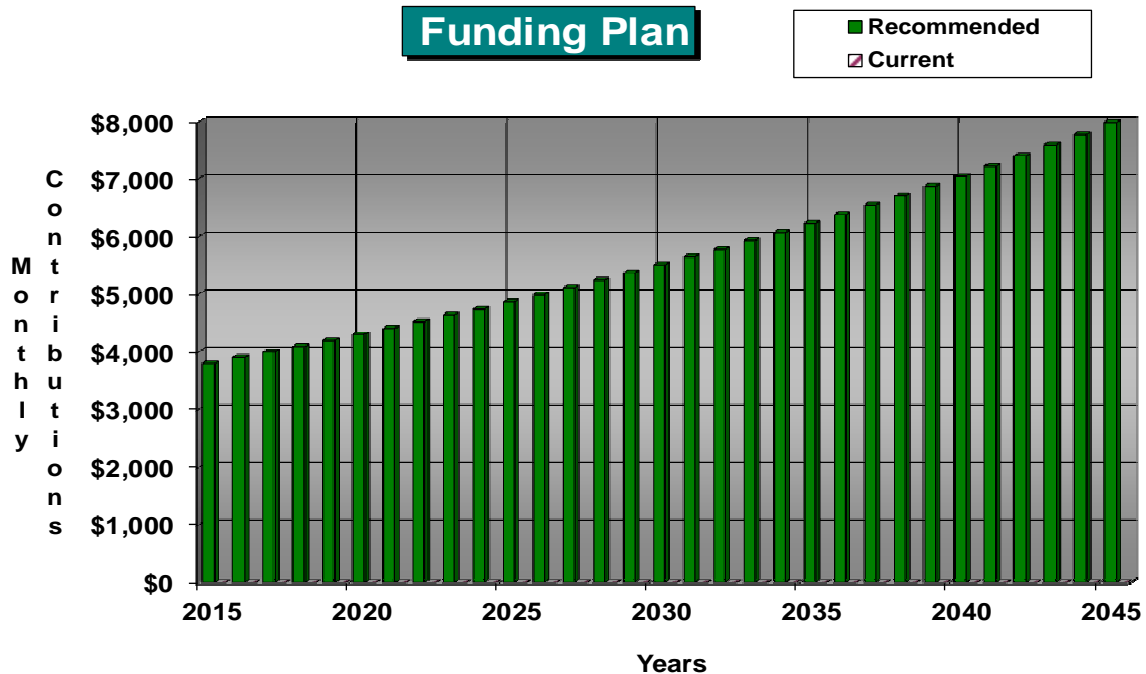


Figure 2

The following chart shows your Reserve balance under our recommended Funding Plan and your current Funding Plan, and your always-changing Fully Funded Balance target.

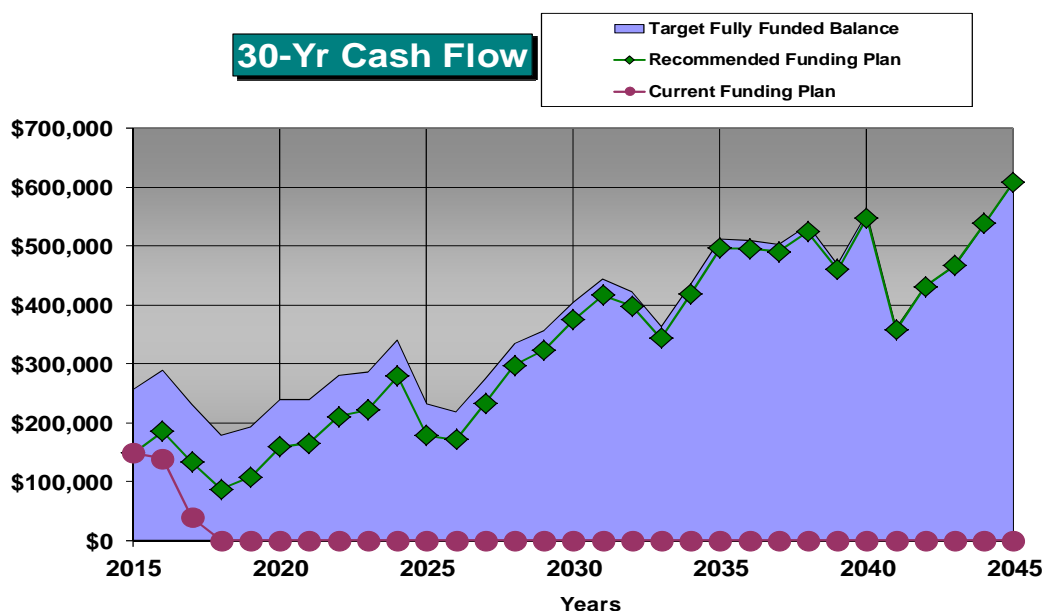


Figure 3

In this figure it is easy to see how your Reserve Fund gradually draws closer to the Fully Funded (100%) level.

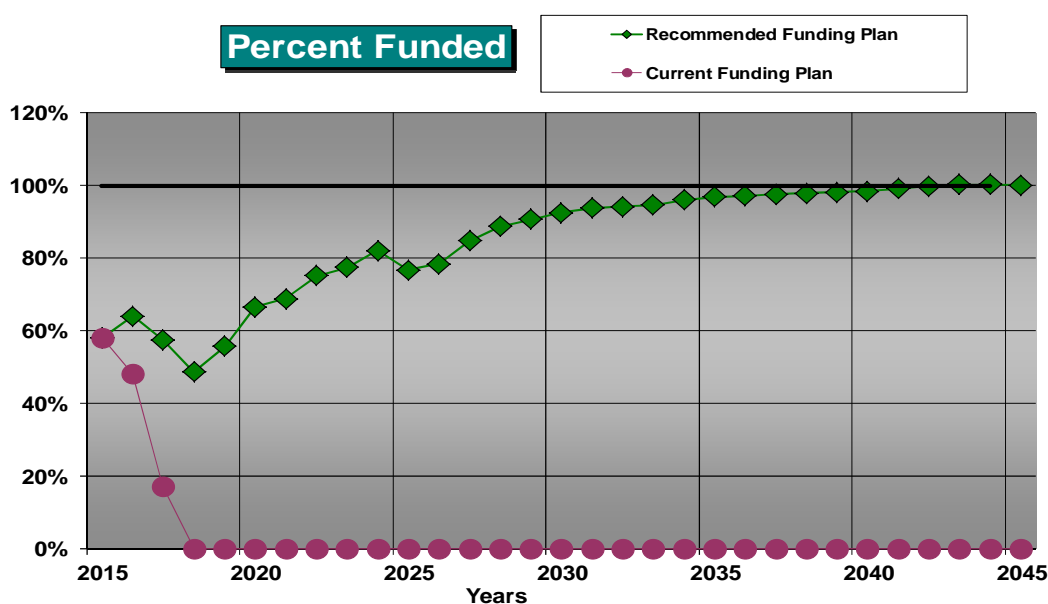


Figure 4

Table Descriptions

The tabular information in this Report is broken down into five tables.

Table 1 summarizes your funded Reserve Components, and is part of the Executive Report summary that appeared earlier in this Report.

Table 2 provides the main component description, life, and cost factors for all components determined to be appropriate for Reserve designation. This table represents the core information from which all other tables are derived.

Table 3 is presented primarily as an accounting summary. The results of the individual line item Fully Funded Balance computations are shown. These individual quantities are summed to arrive at the Fully Funded Balance for the Security Department as of the start date of the Report. The figures in the Current Fund Balance column and the Monthly Reserve Contribution column show our distribution throughout the line items. If the Security Department is underfunded, Reserve Funds are distributed first to components with a short Remaining Useful Life. If the Security Department's Reserve Balance is above 100% Funded, funds are distributed evenly for all components. Contribution rates for each component are a proportionate distribution of the total contribution on the basis of the component's significance to the Security Department (current cost divided by useful life). This presentation is not meant to cause clients to redistribute Security Department funds, it simply presents one way to evenly distribute the total among all the different line items.

Table 4: This table provides a one-page 30-year summary of the cash flowing into and out of the Security Department, compared to the Fully Funded Balance for each year.

Table 5: This table shows the cash flow detail for the next 30 years. This table makes it possible to see what components are projected to require repair or replacement each year, and the size of those individual expenses.

Table 2: Reserve Component List Detail

**27003-0
SECURITY**

| # | Component | Quantity | Useful Life | Rem. Useful Life | Best Cost | Current Worst Cost |
|------|-------------------------------------|------------------------------|----------------|------------------------|--------------|--------------------------|
| 302 | Generator - Replace (South) | (1) Diesel Generator | 40 | 25 | \$25,000 | \$35,000 |
| 302 | Generators - Replace (North) | (1) Generator | 40 | 40 | \$35,000 | \$39,000 |
| 303 | HVAC - Replace 50% | (2) HVAC | 10 | 6 | \$7,000 | \$8,000 |
| 304 | Security Systems - Replace | Security System Equip. | 8 | 1 | \$50,000 | \$75,000 |
| 704 | Intercoms - Replace | (2) Intercoms | 15 | 2 | \$13,000 | \$16,000 |
| 705 | Gate Operators(North) - Repl/Repair | (2) Gate Operators | 10 | 5 | \$16,200 | \$19,800 |
| 706 | Gate Oper. New(North) - Repl/Repair | (5) Gate Operators | 10 | 10 | \$40,500 | \$48,600 |
| 707 | Gate Operators(South) - Repl/Repair | (3) Gate Operators | 10 | 3 | \$24,300 | \$29,700 |
| 1808 | Safety Center - Repair/Upgrade | Approx 3,250 GSF | 20 | 9 | \$9,000 | \$15,000 |
| 1809 | South Gate Sec. Bldg. - Repair | Approx 250 GSF | 30 | 10 | \$4,500 | \$6,000 |
| 1810 | Barcode Readers (North) - Replace | (2) Barcode Readers | 7 | 2 | \$18,000 | \$21,000 |
| 1810 | Barcode Readers (South) - Replace | (3) Barcode Readers | 7 | 2 | \$27,000 | \$31,500 |
| 1860 | 2012 Ford Escape XLS - Replace | (1) Ford EscapeXLS, V#520 | 20 | 7 | \$24,000 | \$28,000 |
| 1861 | 2005 Ford Ranger VIPS - Replace | (1) Ford Ranger, V#9157 | 20 | 5 | \$21,000 | \$25,000 |
| 1862 | 2006 Ford Explorer XLT #517 - Repl. | (1) Ford Explorer #517 | 20 | 1 | \$33,000 | \$38,000 |
| 1863 | 2010 Ford Escape XLS #519- Repl. | (1) Ford Escape #519 | 20 | 2 | \$24,000 | \$28,000 |
| 2501 | Radios - Replace/Upgrade | (5) Radios | 7 | 0 | \$10,000 | \$12,000 |
| 17 | Total Funded Components | | | | | |

Table 3: Contribution and Fund Breakdown

**27003-0
SECURITY**

| # | Component | Useful Life | Rem. Useful Life | Current (Avg) Cost | Fully Funded Balance | Current Fund Balance | Reserve Contributions |
|------|-------------------------------------|----------------|------------------------|-----------------------|----------------------------|----------------------------|--------------------------|
| 302 | Generator - Replace (South) | 40 | 25 | \$30,000 | \$11,250 | \$0.00 | \$96.24 |
| 302 | Generators - Replace (North) | 40 | 40 | \$37,000 | \$0 | \$0.00 | \$0.00 |
| 303 | HVAC - Replace 50% | 10 | 6 | \$7,500 | \$3,000 | \$0.00 | \$96.24 |
| 304 | Security Systems - Replace | 8 | 1 | \$62,500 | \$54,688 | \$54,687.50 | \$1,002.45 |
| 704 | Intercoms - Replace | 15 | 2 | \$14,500 | \$12,567 | \$12,566.67 | \$124.04 |
| 705 | Gate Operators(North) - Repl/Repair | 10 | 5 | \$18,000 | \$9,000 | \$0.00 | \$230.96 |
| 706 | Gate Oper. New(North) - Repl/Repair | 10 | 10 | \$44,550 | \$0 | \$0.00 | \$0.00 |
| 707 | Gate Operators(South) - Repl/Repair | 10 | 3 | \$27,000 | \$18,900 | \$0.00 | \$346.45 |
| 1808 | Safety Center - Repair/Upgrade | 20 | 9 | \$12,000 | \$6,600 | \$0.00 | \$76.99 |
| 1809 | South Gate Sec. Bldg. - Repair | 30 | 10 | \$5,250 | \$3,500 | \$0.00 | \$22.45 |
| 1810 | Barcode Readers (North) - Replace | 7 | 2 | \$19,500 | \$13,929 | \$13,928.57 | \$357.45 |
| 1810 | Barcode Readers (South) - Replace | 7 | 2 | \$29,250 | \$20,893 | \$20,892.86 | \$536.17 |
| 1860 | 2012 Ford Escape XLS - Replace | 20 | 7 | \$26,000 | \$16,900 | \$0.00 | \$166.81 |
| 1861 | 2005 Ford Ranger VIPS - Replace | 20 | 5 | \$23,000 | \$17,250 | \$0.00 | \$147.56 |
| 1862 | 2006 Ford Explorer XLT #517 - Repl. | 20 | 1 | \$35,500 | \$33,725 | \$33,725.00 | \$227.76 |
| 1863 | 2010 Ford Escape XLS #519- Repl. | 20 | 2 | \$26,000 | \$23,400 | \$2,020.40 | \$166.81 |
| 2501 | Radios - Replace/Upgrade | 7 | 0 | \$11,000 | \$11,000 | \$11,000.00 | \$201.64 |
| 17 | Total Funded Components | | | | \$256,601 | \$148,821 | \$3,800 |

Table 4: 30-Year Reserve Plan Summary Recommended by Association Reserves

**27003-0
SECURITY**

Fiscal Year Beginning: 07/01/15

| | | | |
|-----------|-------|------------|------|
| Interest: | 1.00% | Inflation: | 3.0% |
|-----------|-------|------------|------|

| Year | Starting Reserve Balance | Fully Funded Balance | Percent Funded | Rating | % Increase | | Loans or Transfer Amnts | Interest Income | Projected Reserve Expenses |
|------|--------------------------|----------------------|----------------|--------|-----------------------------|--------------------------|-------------------------|-----------------|----------------------------|
| | | | | | In Annual Reserve Contrbns. | Annual Reserve Contrbns. | | | |
| 2015 | \$148,821 | \$256,601 | 58.0% | Fair | | \$45,600 | \$0 | \$1,669 | \$11,000 |
| 2016 | \$185,090 | \$289,013 | 64.0% | Fair | 2.50% | \$46,740 | \$0 | \$1,587 | \$100,940 |
| 2017 | \$132,477 | \$230,842 | 57.4% | Fair | 2.50% | \$47,909 | \$0 | \$1,096 | \$94,685 |
| 2018 | \$86,796 | \$178,481 | 48.6% | Fair | 2.50% | \$49,106 | \$0 | \$970 | \$29,504 |
| 2019 | \$107,369 | \$192,834 | 55.7% | Fair | 2.50% | \$50,334 | \$0 | \$1,331 | \$0 |
| 2020 | \$159,034 | \$239,187 | 66.5% | Fair | 2.50% | \$51,592 | \$0 | \$1,618 | \$47,530 |
| 2021 | \$164,714 | \$239,192 | 68.9% | Fair | 2.50% | \$52,882 | \$0 | \$1,875 | \$8,955 |
| 2022 | \$210,516 | \$280,183 | 75.1% | Strong | 2.50% | \$54,204 | \$0 | \$2,159 | \$45,505 |
| 2023 | \$221,374 | \$286,049 | 77.4% | Strong | 2.50% | \$55,559 | \$0 | \$2,503 | \$0 |
| 2024 | \$279,436 | \$340,291 | 82.1% | Strong | 2.50% | \$56,948 | \$0 | \$2,285 | \$160,813 |
| 2025 | \$177,856 | \$231,892 | 76.7% | Strong | 2.50% | \$58,372 | \$0 | \$1,744 | \$66,927 |
| 2026 | \$171,045 | \$218,355 | 78.3% | Strong | 2.50% | \$59,831 | \$0 | \$2,019 | \$0 |
| 2027 | \$232,895 | \$274,800 | 84.8% | Strong | 2.50% | \$61,327 | \$0 | \$2,648 | \$0 |
| 2028 | \$296,869 | \$334,435 | 88.8% | Strong | 2.50% | \$62,860 | \$0 | \$3,099 | \$39,650 |
| 2029 | \$323,178 | \$356,561 | 90.6% | Strong | 2.50% | \$64,432 | \$0 | \$3,487 | \$16,638 |
| 2030 | \$374,458 | \$404,641 | 92.5% | Strong | 2.50% | \$66,042 | \$0 | \$3,953 | \$28,043 |
| 2031 | \$416,409 | \$444,052 | 93.8% | Strong | 2.50% | \$67,693 | \$0 | \$4,070 | \$90,265 |
| 2032 | \$397,908 | \$422,242 | 94.2% | Strong | 2.50% | \$69,386 | \$0 | \$3,707 | \$127,269 |
| 2033 | \$343,731 | \$363,399 | 94.6% | Strong | 2.50% | \$71,120 | \$0 | \$3,810 | \$0 |
| 2034 | \$418,662 | \$435,664 | 96.1% | Strong | 2.50% | \$72,898 | \$0 | \$4,572 | \$0 |
| 2035 | \$496,132 | \$511,939 | 96.9% | Strong | 2.50% | \$74,721 | \$0 | \$4,955 | \$80,462 |
| 2036 | \$495,346 | \$509,522 | 97.2% | Strong | 2.50% | \$76,589 | \$0 | \$4,926 | \$86,504 |
| 2037 | \$490,358 | \$502,762 | 97.5% | Strong | 2.50% | \$78,504 | \$0 | \$5,070 | \$49,819 |
| 2038 | \$524,113 | \$535,598 | 97.9% | Strong | 2.50% | \$80,466 | \$0 | \$4,918 | \$149,499 |
| 2039 | \$459,999 | \$468,819 | 98.1% | Strong | 2.50% | \$82,478 | \$0 | \$5,035 | \$0 |
| 2040 | \$547,512 | \$556,155 | 98.4% | Strong | 2.50% | \$84,540 | \$0 | \$4,521 | \$279,519 |
| 2041 | \$357,053 | \$360,404 | 99.1% | Strong | 2.50% | \$86,653 | \$0 | \$3,941 | \$16,174 |
| 2042 | \$431,473 | \$432,290 | 99.8% | Strong | 2.50% | \$88,820 | \$0 | \$4,491 | \$57,754 |
| 2043 | \$467,030 | \$465,839 | 100.3% | Strong | 2.50% | \$91,040 | \$0 | \$5,023 | \$25,167 |
| 2044 | \$537,926 | \$536,359 | 100.3% | Strong | 2.50% | \$93,316 | \$0 | \$5,731 | \$28,279 |

Table 5: 30-Year Income/Expense Detail (yrs 0 through 4)

**27003-0
SECURITY**

| Fiscal Year | 2015 | 2016 | 2017 | 2018 | 2019 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$148,821 | \$185,090 | \$132,477 | \$86,796 | \$107,369 |
| Annual Reserve Contribution | \$45,600 | \$46,740 | \$47,909 | \$49,106 | \$50,334 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$1,669 | \$1,587 | \$1,096 | \$970 | \$1,331 |
| Total Income | \$196,090 | \$233,417 | \$181,481 | \$136,873 | \$159,034 |
| # Component | | | | | |
| 302 Generator - Replace (South) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace (North) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 304 Security Systems - Replace | \$0 | \$64,375 | \$0 | \$0 | \$0 |
| 704 Intercoms - Replace | \$0 | \$0 | \$15,383 | \$0 | \$0 |
| 705 Gate Operators(North) - Repl/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 706 Gate Oper. New(North) - Repl/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 707 Gate Operators(South) - Repl/Repair | \$0 | \$0 | \$0 | \$29,504 | \$0 |
| 1808 Safety Center - Repair/Upgrade | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1809 South Gate Sec. Bldg. - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1810 Barcode Readers (North) - Replace | \$0 | \$0 | \$20,688 | \$0 | \$0 |
| 1810 Barcode Readers (South) - Replace | \$0 | \$0 | \$31,031 | \$0 | \$0 |
| 1860 2012 Ford Escape XLS - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 2005 Ford Ranger VIPS - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1862 2006 Ford Explorer XLT #517 - Repl. | \$0 | \$36,565 | \$0 | \$0 | \$0 |
| 1863 2010 Ford Escape XLS #519- Repl. | \$0 | \$0 | \$27,583 | \$0 | \$0 |
| 2501 Radios - Replace/Upgrade | \$11,000 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$11,000 | \$100,940 | \$94,685 | \$29,504 | \$0 |
| Ending Reserve Balance: | \$185,090 | \$132,477 | \$86,796 | \$107,369 | \$159,034 |

Table 5: 30-Year Income/Expense Detail (yrs 5 through 9)

**27003-0
SECURITY**

| Fiscal Year | 2020 | 2021 | 2022 | 2023 | 2024 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$159,034 | \$164,714 | \$210,516 | \$221,374 | \$279,436 |
| Annual Reserve Contribution | \$51,592 | \$52,882 | \$54,204 | \$55,559 | \$56,948 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$1,618 | \$1,875 | \$2,159 | \$2,503 | \$2,285 |
| Total Income | \$212,245 | \$219,472 | \$266,879 | \$279,436 | \$338,669 |
| # Component | | | | | |
| 302 Generator - Replace (South) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace (North) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC - Replace 50% | \$0 | \$8,955 | \$0 | \$0 | \$0 |
| 304 Security Systems - Replace | \$0 | \$0 | \$0 | \$0 | \$81,548 |
| 704 Intercoms - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 705 Gate Operators(North) - Repl/Repair | \$20,867 | \$0 | \$0 | \$0 | \$0 |
| 706 Gate Oper. New(North) - Repl/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 707 Gate Operators(South) - Repl/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1808 Safety Center - Repair/Upgrade | \$0 | \$0 | \$0 | \$0 | \$15,657 |
| 1809 South Gate Sec. Bldg. - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1810 Barcode Readers (North) - Replace | \$0 | \$0 | \$0 | \$0 | \$25,443 |
| 1810 Barcode Readers (South) - Replace | \$0 | \$0 | \$0 | \$0 | \$38,165 |
| 1860 2012 Ford Escape XLS - Replace | \$0 | \$0 | \$31,977 | \$0 | \$0 |
| 1861 2005 Ford Ranger VIPS - Replace | \$26,663 | \$0 | \$0 | \$0 | \$0 |
| 1862 2006 Ford Explorer XLT #517 - Repl. | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2010 Ford Escape XLS #519- Repl. | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2501 Radios - Replace/Upgrade | \$0 | \$0 | \$13,529 | \$0 | \$0 |
| Total Expenses | \$47,530 | \$8,955 | \$45,505 | \$0 | \$160,813 |
| Ending Reserve Balance: | \$164,714 | \$210,516 | \$221,374 | \$279,436 | \$177,856 |

Table 5: 30-Year Income/Expense Detail (yrs 10 through 14)

**27003-0
SECURITY**

| Fiscal Year | 2025 | 2026 | 2027 | 2028 | 2029 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$177,856 | \$171,045 | \$232,895 | \$296,869 | \$323,178 |
| Annual Reserve Contribution | \$58,372 | \$59,831 | \$61,327 | \$62,860 | \$64,432 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$1,744 | \$2,019 | \$2,648 | \$3,099 | \$3,487 |
| Total Income | \$237,972 | \$232,895 | \$296,869 | \$362,828 | \$391,096 |
| # Component | | | | | |
| 302 Generator - Replace (South) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace (North) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 304 Security Systems - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 704 Intercoms - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 705 Gate Operators(North) - Repl/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 706 Gate Oper. New(North) - Repl/Repair | \$59,871 | \$0 | \$0 | \$0 | \$0 |
| 707 Gate Operators(South) - Repl/Repair | \$0 | \$0 | \$0 | \$39,650 | \$0 |
| 1808 Safety Center - Repair/Upgrade | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1809 South Gate Sec. Bldg. - Repair | \$7,056 | \$0 | \$0 | \$0 | \$0 |
| 1810 Barcode Readers (North) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1810 Barcode Readers (South) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1860 2012 Ford Escape XLS - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 2005 Ford Ranger VIPS - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1862 2006 Ford Explorer XLT #517 - Repl. | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2010 Ford Escape XLS #519- Repl. | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2501 Radios - Replace/Upgrade | \$0 | \$0 | \$0 | \$0 | \$16,638 |
| Total Expenses | \$66,927 | \$0 | \$0 | \$39,650 | \$16,638 |
| Ending Reserve Balance: | \$171,045 | \$232,895 | \$296,869 | \$323,178 | \$374,458 |

Table 5: 30-Year Income/Expense Detail (yrs 15 through 19)

**27003-0
SECURITY**

| Fiscal Year | 2030 | 2031 | 2032 | 2033 | 2034 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$374,458 | \$416,409 | \$397,908 | \$343,731 | \$418,662 |
| Annual Reserve Contribution | \$66,042 | \$67,693 | \$69,386 | \$71,120 | \$72,898 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$3,953 | \$4,070 | \$3,707 | \$3,810 | \$4,572 |
| Total Income | \$444,453 | \$488,173 | \$471,000 | \$418,662 | \$496,132 |
| # Component | | | | | |
| 302 Generator - Replace (South) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace (North) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC - Replace 50% | \$0 | \$12,035 | \$0 | \$0 | \$0 |
| 304 Security Systems - Replace | \$0 | \$0 | \$103,303 | \$0 | \$0 |
| 704 Intercoms - Replace | \$0 | \$0 | \$23,966 | \$0 | \$0 |
| 705 Gate Operators(North) - Repl/Repair | \$28,043 | \$0 | \$0 | \$0 | \$0 |
| 706 Gate Oper. New(North) - Repl/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 707 Gate Operators(South) - Repl/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1808 Safety Center - Repair/Upgrade | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1809 South Gate Sec. Bldg. - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1810 Barcode Readers (North) - Replace | \$0 | \$31,292 | \$0 | \$0 | \$0 |
| 1810 Barcode Readers (South) - Replace | \$0 | \$46,938 | \$0 | \$0 | \$0 |
| 1860 2012 Ford Escape XLS - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 2005 Ford Ranger VIPS - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1862 2006 Ford Explorer XLT #517 - Repl. | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2010 Ford Escape XLS #519- Repl. | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2501 Radios - Replace/Upgrade | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total Expenses | \$28,043 | \$90,265 | \$127,269 | \$0 | \$0 |
| Ending Reserve Balance: | \$416,409 | \$397,908 | \$343,731 | \$418,662 | \$496,132 |

Table 5: 30-Year Income/Expense Detail (yrs 20 through 24)

**27003-0
SECURITY**

| Fiscal Year | 2035 | 2036 | 2037 | 2038 | 2039 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$496,132 | \$495,346 | \$490,358 | \$524,113 | \$459,999 |
| Annual Reserve Contribution | \$74,721 | \$76,589 | \$78,504 | \$80,466 | \$82,478 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$4,955 | \$4,926 | \$5,070 | \$4,918 | \$5,035 |
| Total Income | \$575,809 | \$576,862 | \$573,932 | \$609,498 | \$547,512 |
| # Component | | | | | |
| 302 Generator - Replace (South) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace (North) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC - Replace 50% | \$0 | \$0 | \$0 | \$0 | \$0 |
| 304 Security Systems - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 704 Intercoms - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 705 Gate Operators(North) - Repl/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 706 Gate Oper. New(North) - Repl/Repair | \$80,462 | \$0 | \$0 | \$0 | \$0 |
| 707 Gate Operators(South) - Repl/Repair | \$0 | \$0 | \$0 | \$53,287 | \$0 |
| 1808 Safety Center - Repair/Upgrade | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1809 South Gate Sec. Bldg. - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1810 Barcode Readers (North) - Replace | \$0 | \$0 | \$0 | \$38,485 | \$0 |
| 1810 Barcode Readers (South) - Replace | \$0 | \$0 | \$0 | \$57,727 | \$0 |
| 1860 2012 Ford Escape XLS - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1861 2005 Ford Ranger VIPS - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1862 2006 Ford Explorer XLT #517 - Repl. | \$0 | \$66,040 | \$0 | \$0 | \$0 |
| 1863 2010 Ford Escape XLS #519- Repl. | \$0 | \$0 | \$49,819 | \$0 | \$0 |
| 2501 Radios - Replace/Upgrade | \$0 | \$20,463 | \$0 | \$0 | \$0 |
| Total Expenses | \$80,462 | \$86,504 | \$49,819 | \$149,499 | \$0 |
| Ending Reserve Balance: | \$495,346 | \$490,358 | \$524,113 | \$459,999 | \$547,512 |

Table 5: 30-Year Income/Expense Detail (yrs 25 through 29)

**27003-0
SECURITY**

| Fiscal Year | 2040 | 2041 | 2042 | 2043 | 2044 |
|--|------------------|------------------|------------------|------------------|------------------|
| Starting Reserve Balance | \$547,512 | \$357,053 | \$431,473 | \$467,030 | \$537,926 |
| Annual Reserve Contribution | \$84,540 | \$86,653 | \$88,820 | \$91,040 | \$93,316 |
| Planned Transfer to Reserves | \$0 | \$0 | \$0 | \$0 | \$0 |
| Interest Earnings | \$4,521 | \$3,941 | \$4,491 | \$5,023 | \$5,731 |
| Total Income | \$636,573 | \$447,648 | \$524,784 | \$563,093 | \$636,973 |
| # Component | | | | | |
| 302 Generator - Replace (South) | \$62,813 | \$0 | \$0 | \$0 | \$0 |
| 302 Generators - Replace (North) | \$0 | \$0 | \$0 | \$0 | \$0 |
| 303 HVAC - Replace 50% | \$0 | \$16,174 | \$0 | \$0 | \$0 |
| 304 Security Systems - Replace | \$130,861 | \$0 | \$0 | \$0 | \$0 |
| 704 Intercoms - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 705 Gate Operators(North) - Repl/Repair | \$37,688 | \$0 | \$0 | \$0 | \$0 |
| 706 Gate Oper. New(North) - Repl/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 707 Gate Operators(South) - Repl/Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1808 Safety Center - Repair/Upgrade | \$0 | \$0 | \$0 | \$0 | \$28,279 |
| 1809 South Gate Sec. Bldg. - Repair | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1810 Barcode Readers (North) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1810 Barcode Readers (South) - Replace | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1860 2012 Ford Escape XLS - Replace | \$0 | \$0 | \$57,754 | \$0 | \$0 |
| 1861 2005 Ford Ranger VIPS - Replace | \$48,157 | \$0 | \$0 | \$0 | \$0 |
| 1862 2006 Ford Explorer XLT #517 - Repl. | \$0 | \$0 | \$0 | \$0 | \$0 |
| 1863 2010 Ford Escape XLS #519- Repl. | \$0 | \$0 | \$0 | \$0 | \$0 |
| 2501 Radios - Replace/Upgrade | \$0 | \$0 | \$0 | \$25,167 | \$0 |
| Total Expenses | \$279,519 | \$16,174 | \$57,754 | \$25,167 | \$28,279 |
| Ending Reserve Balance: | \$357,053 | \$431,473 | \$467,030 | \$537,926 | \$608,694 |

Accuracy, Limitations, and Disclosures

Because we have no control over future events, we cannot claim that all the events we anticipate will occur as planned. We expect that inflationary trends will continue and we expect that financial institutions will provide interest earnings on funds on-deposit. We believe that reasonable estimates for these figures are much more accurate than ignoring these economic realities. The things we can control are measurements, which we attempt to establish within 5% accuracy. Your starting Reserve Balance and current Reserve interest earnings are also numbers that can be identified with a high degree of certainty. These figures have been provided to us, and were not confirmed by our independent research. Our projections assume a stable economic environment and lack of natural disasters.

Because both the physical status and financial status of the CSD's Security Department change each year, this Reserve Study is by nature a "one-year" document. This information can and should be adjusted annually as part of the Reserve Study Update process so that more accurate estimates can be reflected in the Security Department Reserve plan. Reality often differs from even the best assumptions due to changing economic factors, and physical factors. Because many years of financial preparation help prepare for large expenses, this Report shows expenses for the next 30 years. We fully expect a number of adjustments will be necessary through the interim years to both the cost and timing of distant expense projections. It is our recommendation and that of the American Institute of Certified Public Accountants (AICPA) that your Reserve Study be updated annually.

Association Reserves – SF, LLC, and its employees have no ownership, management, or other business relationships with the client other than this Reserve Study engagement. Derek Eckert, R.S., company president, is a credentialed Reserve Specialist (#114). All work done by Association Reserves is performed under his Responsible Charge. There are no material issues to our knowledge that have not been disclosed to the client that would cause a distortion of the CSD's Security Department situation.

We have relied upon the client to provide the current (or projected) Security Department Reserve Balance, the estimated net-after-tax current rate of interest earnings, and to indicate if those earnings accrue to the Security Department Reserve Fund. In addition, we have considered the CSD's Security Department representation of current and historical Security Department Reserve projects reliable, and we have considered the representations made by its vendors and suppliers to also be accurate and reliable.

Component quantities indicated in this Report were derived from the prior Reserve Study, unless otherwise noted in our "Site Inspection Notes". No destructive or intrusive testing was performed, nor should the site inspection be assumed to be anything other than for budgeting purposes.

Association Reserves' liability in any matter involving this Reserve Study is limited to our Fee for services rendered.

Where any uncertainties exist, we urge the CSD to obtain a legal review and written opinion of the legitimacy of the funding policies, as stipulated or permitted under your Declaration and local statutes. As these are legal questions, we highly recommend use of an experienced attorney specializing in CSD law.

Re-use of reserve study, figures or calculations in any other format absolves ARSF of all responsibility.

Terms and Definitions

| | |
|------------|--|
| BTU | British Thermal Unit (a standard unit of energy) |
| DIA | Diameter |
| GSF | Gross Square Feet (area) |
| GSY | Gross Square Yards (area) |
| HP | Horsepower |
| LF | Linear Feet (length) |

Effective Age: The difference between Useful Life and Remaining Useful Life. Note that this is not necessarily equivalent to the chronological age of the component.

Fully Funded Balance (FFB): The Reserve Balance that is in direct proportion to the fraction of life “used up” of the current Repair or Replacement cost. This benchmark balance represents the value of the deterioration of the Reserve Components. This number is calculated for each component, then summed together for a Security Department total.

$$\text{FFB} = (\text{Current Cost} \times \text{Effective Age}) / \text{Useful Life}$$

Inflation: Cost factors are adjusted for inflation at the rate defined in the Executive Summary and compounded annually. These increasing costs can be seen as you follow the recurring cycles of a component on Table 5.

Interest: Interest earnings on Reserve Funds are calculated using the average balance for the year (taking into account income and expenses through the year) and compounded monthly using the rate defined in the Executive Summary. Annual interest earning assumption appears in the Executive Summary, page ii.

Percent Funded: The ratio, at a particular point in time (typically the beginning of the Fiscal Year), of the actual (or projected) Reserve Balance to the Fully Funded Balance, expressed as a percentage.

Remaining Useful Life: The estimated time, in years, that a Security Department component can be expected to continue to serve its intended function.

Useful Life: The estimated time, in years, that a Security Department component can be expected to serve its intended function.

Photographic Inventory Appendix

Client: 27003D RMCS D - Security

Comp # : 302 Generator - Replace (South)

Quantity: (1) Diesel Generator

Location : South Gate entrance

Funded? : Yes

History : Installed June 2000

Evaluation : S/N: 2056338. Diesel 25Kw. Vendors typically report that with ongoing maintenance (e.g. fluids, batteries, tune ups), useful life can be extended for many years, sometimes 40-50 years. However, funding for complete replacement is often warranted due to lack of available replacement parts rather than failure of the system as a whole. Treat periodic service and inspect as general maintenance expense within Operating budget, not Reserves. Generator is a key building element in this location due to risk of severe storms and power outages, and should be tested and evaluated regularly to ensure proper function.

Useful Life:
40 years

Remaining Life:
25 years



Best Case: \$25,000

Worst Case: \$35,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003D RMCS D - Security

Comp # : 302 Generators - Replace (North) Quantity: (1) Generator
 Location : At the north security gate
 Funded? : Yes

History : Will be replaced approx April 2015

Evaluation : Fair, functional condition. Diesel 40Kw. Vendors typically report that with ongoing maintenance (e.g. fluids, batteries, tune ups), useful life can be extended for many years, sometimes 40-50 years. However, funding for complete replacement is often warranted due to lack of available replacement parts rather than failure of the system as a whole. Treat periodic service and inspect as general maintenance expense within Operating budget, not Reserves. Generator is a key building element in this location due to risk of severe storms and power outages, and should be tested and evaluated regularly to ensure proper function.

Useful Life:
40 years

Remaining Life:
40 years

Photo Not Available

Best Case: \$35,000
Lower allowance to replace

Worst Case: \$39,000
Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 303 HVAC - Replace 50% Quantity: (2) HVAC
 Location : Security buildings
 Funded? : Yes

History :

Evaluation : With proactive service and maintenance, useful life can often be extended - have service vendor evaluate continuously and adjust useful life/remaining useful life as indicated within reserve study updates. As routine maintenance, regular professional inspections and maintenance will help to extend useful life cycles and achieve lowest annualized costs. Treat local repairs as a general operating and maintenance expense. Funding below is for future full replacement.

Useful Life:
10 years

Remaining Life:
6 years



Best Case: \$7,000
Lower allowance to replace 50%

Worst Case: \$8,000
Higher allowance to replace 50%

Cost Source: ARSF Cost Database

Client: 27003D RMCS D - Security

Comp # : 304 Security Systems - Replace

Quantity: Security System Equip.

Location : North and south entrance gates

Funded? : Yes

History :

Evaluation : Generally functional operating condition. Life of control systems can vary depending upon system needs, operator desires for management capabilities, manufacturers support, parts obsolescence, etc. Plan for replacement around the typical life expectancy as indicated below. Discuss system needs/efficiencies and current functionality with your mechanical vendor or consultant.

Useful Life:
8 years

Remaining Life:
1 years



Best Case: \$50,000

Worst Case: \$75,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 510 Fiber Optics Security - Replace

Quantity: (1) Security System

Location : North and south entrance gates

Funded? : No . This was a onetime project, no expectation to need to complete this again.

History :

Evaluation : Ran fiber optics cables to the security gates to operate the security system.

Useful Life:

Remaining Life:

Photo Not Available

Best Case:

Worst Case:

Cost Source:

Client: 27003D RMCS D - Security

Comp # : 704 Intercoms - Replace

Quantity: (2) Intercoms

Location : North and south entrance gates

Funded? : Yes

History :

Evaluation : The plan is to replace the intercoms when the security gate gets replaced. Intercom is located in an unprotected location exposed to the elements. There are normal signs of wear evident including scratches, scuffs and fading. No premature wear or abuse detected. Fund at the interval below for future replacement.

Useful Life:

15 years

Remaining Life:

2 years



Best Case: \$13,000

Worst Case: \$16,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 705 Gate Operators(North) - Repl/Repair

Quantity: (2) Gate Operators

Location : North Entrance

Funded? : Yes

History :

Evaluation : Functional condition noted with no functional/operational problems observed during our site inspection and no reported ongoing problems. Even with ongoing maintenance, plan for replacement at typical life expectancy indicated below. As routine maintenance, we recommend regular professional inspections including service and repair as needed from the operating budget.

Useful Life:

10 years

Remaining Life:

5 years



Best Case: \$16,200

Worst Case: \$19,800

Lower allowance to replace/repair

Higher allowance to replace/repair

Cost Source: Client Cost History

Client: 27003D RMCS D - Security

Comp # : 706 Gate Oper. New(North) - Repl/Repair Quantity: (5) Gate Operators
Location : North Entrance
Funded? : Yes

History : Will be installed in 2015

Evaluation : (5) Gate operators will be installed in 2015 at the North gate. Even with ongoing maintenance, plan for replacement at typical life expectancy indicated below. As routine maintenance, we recommend regular professional inspections including service and repair as needed from the operating budget.

Useful Life:
10 years

Remaining Life:
10 years



Best Case: \$40,500

Worst Case: \$48,600

Lower allowance to replace/repair

Higher allowance to replace/repair

Cost Source: Client Cost History

Comp # : 707 Gate Operators(South) - Repl/Repair Quantity: (3) Gate Operators
Location : South Entrance
Funded? : Yes

History :

Evaluation : Functional condition noted with no functional/operational problems observed during our site inspection and no reported ongoing problems. Even with ongoing maintenance, plan for replacement at typical life expectancy indicated below. As routine maintenance, we recommend regular professional inspections including service and repair as needed from the operating budget.

Useful Life:
10 years

Remaining Life:
3 years



Best Case: \$24,300

Worst Case: \$29,700

Lower allowance to replace/repair

Higher allowance to replace/repair

Cost Source: Client Cost History

Client: 27003D RMCS D - Security

Comp # : 713 Gate Arms - Replace Quantity: (5) Gate Arms

Location :

Funded? : No . The project cost estimate is below a minimum threshold.

History :

Evaluation : Handle out of the operating budget.

Useful Life:

Remaining Life:



Best Case:

Worst Case:

Cost Source:

Comp # : 1808 Safety Center - Repair/Upgrade Quantity: Approx 3,250 GSF

Location : James L. Noller Safety Center

Funded? : Yes

History :

Evaluation : The security center is currently in fair condition with no expectation for a complete replacement. This component provides funding for periodic physical repairs and upgrades to the building as needed.

Useful Life:

20 years

Remaining Life:

9 years



Best Case: \$9,000

Worst Case: \$15,000

Lower allowance to repair/upgrade

Higher allowance to repair/upgrade

Cost Source: ARSF Cost Database

Client: 27003D RMCS D - Security

Comp # : 1809 South Gate Sec. Bldg. - Repair

Quantity: Approx 250 GSF

Location : South entrance

Funded? : Yes

History :

Evaluation : South gate security building is a stucco building with tile roof. Currently in good condition. No expectation to replace this building. This component provides funding to replace the tile roof underlayment, replace broken tiles, provide repairs to the stucco, door and other physical repairs or upgrades to the building as needed.

Useful Life:
30 years

Remaining Life:
10 years



Best Case: \$4,500

Worst Case: \$6,000

Lower allowance to repair

Higher allowance to repair

Cost Source: ARSF Cost Database

Comp # : 1810 Barcode Readers (North) - Replace

Quantity: (2) Barcode Readers

Location : North entrance

Funded? : Yes

History :

Evaluation : Functional condition. No issues at this time. Due to technology innovation, anticipate the need for future replacement.

Useful Life:
7 years

Remaining Life:
2 years



Best Case: \$18,000

Worst Case: \$21,000

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Client: 27003D RMCS D - Security

Comp # : 1810 Barcode Readers (South) - Replace

Quantity: (3) Barcode Readers

Location : South entrance

Funded? : Yes

History :

Evaluation : Functional condition. No issues at this time. Due to technology innovation, anticipate the need for future replacement.

Useful Life:
7 years

Remaining Life:
2 years



Best Case: \$27,000

Worst Case: \$31,500

Lower allowance to replace

Higher allowance to replace

Cost Source: ARSF Cost Database

Comp # : 1812 Server (Security) - Replace

Quantity: (1) Server

Location : Server Room

Funded? : No . No plans to replace this server. Plan on it being phased out.

History : 2007

Evaluation : ABDI Software system

Useful Life:

Remaining Life:



Best Case:

Worst Case:

Cost Source:

Association Reserves -SF, LLC

Component Details

Client: 27003D RMCS D - Security

Comp # : 1860 **2012 Ford Escape XLS - Replace**

Quantity: (1) Ford EscapeXLS, V#520

Location : Security

Funded? : Yes

History :

Evaluation : Ford Escape XLS, V#520. VIN #8076. Mileage - 47,164. Unable to inspect during site visit as it was in use. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:

20 years

Remaining Life:

7 years

Photo Not Available

Best Case: \$24,000

Worst Case: \$28,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Comp # : 1861 **2005 Ford Ranger VIPS - Replace**

Quantity: (1) Ford Ranger, V#9157

Location :

Funded? : Yes

History :

Evaluation : 2005 Ford Ranger. V#9157 VIPS. Mileage - 69,189. Unable to inspect during site visit as it was in use. Ford no longer makes the Ranger, so replacement cost is for a comparable size vehicle. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:

20 years

Remaining Life:

5 years

Photo Not Available

Best Case: \$21,000

Worst Case: \$25,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Client: 27003D RMCSO - Security

Comp # : 1862 2006 Ford Explorer XLT #517 - Repl. Quantity: (1) Ford Explorer #517

Location :

Funded? : Yes

History :

Evaluation : 2006 Ford Explorer XLT. VIN#4732. Current mileage: 156,760. In good condition. No major damage or issues reported. The useful life varies on use and should be updated in future reports. Due to mileage, we recommend planning to replace this vehicle in the near future.

Useful Life:

20 years

Remaining Life:

1 years

Photo Not Available

Best Case: \$33,000

Worst Case: \$38,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Comp # : 1863 2010 Ford Escape XLS #519- Repl. Quantity: (1) Ford Escape #519

Location :

Funded? : Yes

History :

Evaluation : 2010 Ford Escape XLS. VIN#: 1971Current mileage 95,256. In good condition. No scratches or dents visible. The useful life varies on use and should be updated in future reports. Timing for replacement is based on usage and reflects the expectation to replace the vehicle once it reaches 100,000 miles.

Useful Life:

20 years

Remaining Life:

2 years



Best Case: \$24,000

Worst Case: \$28,000

Lower allowance to replace

Higher allowance to replace

Cost Source: Current MSRP

Client: 27003D RMCS D - Security

Comp # : 2501 Radios - Replace/Upgrade Quantity: (5) Radios

Location :

Funded? : Yes

History :

Evaluation : Radio system was not inspected internally during site inspection. Should be checked and repaired as needed by servicing vendor as routine maintenance. Individual components can often be replaced for relatively low cost as an Operating Expense.

Useful Life:

7 years

Remaining Life:

0 years

Photo Not Available

Best Case: \$10,000

Worst Case: \$12,000

Lower allowance to replace/upgrade

Higher allowance to replace/upgrade

Cost Source: ARSF Cost Database
